Bios 6301: Assignment 8

Ashley Spirrison

Due Tuesday, 14 November, 1:00 PM

Question 1

```r
#installing 'readx1' package and running code.
fn <- 'icd10.xlsx'
if(file.access(fn, mode = 4) == -1) {
    url <- "https://www.cdc.gov/nhsn/xls/icd10-pcs-pcm-nhsn-opc.xlsx"
    download.file(url, destfile = fn, mode = 'wb')
}
dat <- readxl::read_excel(fn, sheet = 2)
```

```r
#1.
#showing class of dat.
cat("class of dat:", class(dat), "\n")
```

```
## class of dat: tbl_df tbl data.frame
```

```r
#2.
#displaying methods available for classes of dat.
#since there are multiple classes, looping through and determining methods associated with each class.
cat("Methods for the classes of dat:\n")
```

```
## Methods for the classes of dat:
```

```r
for(class_name in class(dat)) {
  cat("class:", class_name, "\n")
  print(methods(class = class_name))
  cat("\n")
}
```

```
## class: tbl_df
##  [1] $              $<-            [              [[             [[<-
##  [6] [<-            as.data.frame  coerce         initialize     names<-
## [11] Ops            row.names<-    show           slotsFromS3    str
## see '?methods' for accessing help and source code
##
## class: tbl
##  [1] $<-            [[<-           [<-            coerce         format         initialize
##  [7] Ops            print          show           slotsFromS3
```

1

```
## see '?methods' for accessing help and source code
##
## class: data.frame
##  [1] $<-            [             [[            [[<-          [<-
##  [6] aggregate     anyDuplicated anyNA         as.data.frame as.list
## [11] as.matrix     as.vector     by            cbind         coerce
## [16] dim           dimnames      dimnames<-    droplevels    duplicated
## [21] edit          format        formula       head          initialize
## [26] is.na         Math          merge         na.exclude    na.omit
## [31] Ops           plot          print         prompt        rbind
## [36] row.names     row.names<-   rowsum        show          slotsFromS3
## [41] split         split<-       stack         str           subset
## [46] summary       Summary       t             tail          transform
## [51] type.convert  unique        unstack       within        xtfrm
## see '?methods' for accessing help and source code
```

```
#3.
#calling print(dat) to look at print method being dispatched.
print(dat)
```

```
## # A tibble: 8,993 x 4
##    'Procedure Code Category' 'ICD-10-PCS Codes' 'Procedure Code Descriptions'
##    <chr>                     <chr>             <chr>
##  1 AAA                       04B00ZZ           Excision of Abdominal Aorta, Op~
##  2 AAA                       04B04ZZ           Excision of Abdominal Aorta, Pe~
##  3 AAA                       04R007Z           Replacement of Abdominal Aorta ~
##  4 AAA                       04R00JZ           Replacement of Abdominal Aorta ~
##  5 AAA                       04R00KZ           Replacement of Abdominal Aorta ~
##  6 AAA                       04R047Z           Replacement of Abdominal Aorta ~
##  7 AAA                       04R04JZ           Replacement of Abdominal Aorta ~
##  8 AAA                       04R04KZ           Replacement of Abdominal Aorta ~
##  9 AMP                       0X600ZZ           Detachment at Right Forequarter~
## 10 AMP                       0X610ZZ           Detachment at Left Forequarter,~
## # i 8,983 more rows
## # i 1 more variable: 'Code Status' <chr>
```

```
#A tibble is being utilized as the print method
```

```
#4.
#setting class of 'dat' to be a data.frame
class(dat) <- "data.frame"
cat("class of dat:", class(dat), "\n")
```

```
## class of dat: data.frame
```

```
#5.
#re-printing to determine if the print method has changed by
#setting class of 'dat' to be a data.frame.
print(dat)
```

```
##      Procedure Code Category ICD-10-PCS Codes
## 1                        AAA          04B00ZZ
```

```
## 2                      AAA        04B04ZZ
## 3                      AAA        04R007Z
## 4                      AAA        04R00JZ
## 5                      AAA        04R00KZ
## 6                      AAA        04R047Z
## 7                      AAA        04R04JZ
## 8                      AAA        04R04KZ
## 9                      AMP        0X600ZZ
## 10                     AMP        0X610ZZ
## 11                     AMP        0X620ZZ
## 12                     AMP        0X630ZZ
## 13                     AMP        0X680Z1
## 14                     AMP        0X680Z2
## 15                     AMP        0X680Z3
## 16                     AMP        0X690Z1
## 17                     AMP        0X690Z2
## 18                     AMP        0X690Z3
## 19                     AMP        0X6B0ZZ
## 20                     AMP        0X6C0ZZ
## 21                     AMP        0X6D0Z1
## 22                     AMP        0X6D0Z2
## 23                     AMP        0X6D0Z3
## 24                     AMP        0X6F0Z1
## 25                     AMP        0X6F0Z2
## 26                     AMP        0X6F0Z3
## 27                     AMP        0X6J0Z0
## 28                     AMP        0X6J0Z4
## 29                     AMP        0X6J0Z5
## 30                     AMP        0X6J0Z6
## 31                     AMP        0X6J0Z7
## 32                     AMP        0X6J0Z8
## 33                     AMP        0X6J0Z9
## 34                     AMP        0X6J0ZB
## 35                     AMP        0X6J0ZC
## 36                     AMP        0X6J0ZD
## 37                     AMP        0X6J0ZF
## 38                     AMP        0X6K0Z0
## 39                     AMP        0X6K0Z4
## 40                     AMP        0X6K0Z5
## 41                     AMP        0X6K0Z6
## 42                     AMP        0X6K0Z7
## 43                     AMP        0X6K0Z8
## 44                     AMP        0X6K0Z9
## 45                     AMP        0X6K0ZB
## 46                     AMP        0X6K0ZC
## 47                     AMP        0X6K0ZD
## 48                     AMP        0X6K0ZF
## 49                     AMP        0X6L0Z0
## 50                     AMP        0X6L0Z1
## 51                     AMP        0X6L0Z2
## 52                     AMP        0X6L0Z3
## 53                     AMP        0X6M0Z0
## 54                     AMP        0X6M0Z1
## 55                     AMP        0X6M0Z2
```

```
## 56                          AMP          0X6M0Z3
## 57                          AMP          0X6N0Z0
## 58                          AMP          0X6N0Z1
## 59                          AMP          0X6N0Z2
## 60                          AMP          0X6N0Z3
## 61                          AMP          0X6P0Z0
## 62                          AMP          0X6P0Z1
## 63                          AMP          0X6P0Z2
## 64                          AMP          0X6P0Z3
## 65                          AMP          0X6Q0Z0
## 66                          AMP          0X6Q0Z1
## 67                          AMP          0X6Q0Z2
## 68                          AMP          0X6Q0Z3
## 69                          AMP          0X6R0Z0
## 70                          AMP          0X6R0Z1
## 71                          AMP          0X6R0Z2
## 72                          AMP          0X6R0Z3
## 73                          AMP          0X6S0Z0
## 74                          AMP          0X6S0Z1
## 75                          AMP          0X6S0Z2
## 76                          AMP          0X6S0Z3
## 77                          AMP          0X6T0Z0
## 78                          AMP          0X6T0Z1
## 79                          AMP          0X6T0Z2
## 80                          AMP          0X6T0Z3
## 81                          AMP          0X6V0Z0
## 82                          AMP          0X6V0Z1
## 83                          AMP          0X6V0Z2
## 84                          AMP          0X6V0Z3
## 85                          AMP          0X6W0Z0
## 86                          AMP          0X6W0Z1
## 87                          AMP          0X6W0Z2
## 88                          AMP          0X6W0Z3
## 89                          AMP          0Y620ZZ
## 90                          AMP          0Y630ZZ
## 91                          AMP          0Y640ZZ
## 92                          AMP          0Y670ZZ
## 93                          AMP          0Y680ZZ
## 94                          AMP          0Y6C0Z1
## 95                          AMP          0Y6C0Z2
## 96                          AMP          0Y6C0Z3
## 97                          AMP          0Y6D0Z1
## 98                          AMP          0Y6D0Z2
## 99                          AMP          0Y6D0Z3
## 100                         AMP          0Y6F0ZZ
## 101                         AMP          0Y6G0ZZ
## 102                         AMP          0Y6H0Z1
## 103                         AMP          0Y6H0Z2
## 104                         AMP          0Y6H0Z3
## 105                         AMP          0Y6J0Z1
## 106                         AMP          0Y6J0Z2
## 107                         AMP          0Y6J0Z3
## 108                         AMP          0Y6M0Z0
## 109                         AMP          0Y6M0Z4
```

```
## 110                        AMP           0Y6M0Z5
## 111                        AMP           0Y6M0Z6
## 112                        AMP           0Y6M0Z7
## 113                        AMP           0Y6M0Z8
## 114                        AMP           0Y6M0Z9
## 115                        AMP           0Y6M0ZB
## 116                        AMP           0Y6M0ZC
## 117                        AMP           0Y6M0ZD
## 118                        AMP           0Y6M0ZF
## 119                        AMP           0Y6N0Z0
## 120                        AMP           0Y6N0Z4
## 121                        AMP           0Y6N0Z5
## 122                        AMP           0Y6N0Z6
## 123                        AMP           0Y6N0Z7
## 124                        AMP           0Y6N0Z8
## 125                        AMP           0Y6N0Z9
## 126                        AMP           0Y6N0ZB
## 127                        AMP           0Y6N0ZC
## 128                        AMP           0Y6N0ZD
## 129                        AMP           0Y6N0ZF
## 130                        AMP           0Y6P0Z0
## 131                        AMP           0Y6P0Z1
## 132                        AMP           0Y6P0Z2
## 133                        AMP           0Y6P0Z3
## 134                        AMP           0Y6Q0Z0
## 135                        AMP           0Y6Q0Z1
## 136                        AMP           0Y6Q0Z2
## 137                        AMP           0Y6Q0Z3
## 138                        AMP           0Y6R0Z0
## 139                        AMP           0Y6R0Z1
## 140                        AMP           0Y6R0Z2
## 141                        AMP           0Y6R0Z3
## 142                        AMP           0Y6S0Z0
## 143                        AMP           0Y6S0Z1
## 144                        AMP           0Y6S0Z2
## 145                        AMP           0Y6S0Z3
## 146                        AMP           0Y6T0Z0
## 147                        AMP           0Y6T0Z1
## 148                        AMP           0Y6T0Z2
## 149                        AMP           0Y6T0Z3
## 150                        AMP           0Y6U0Z0
## 151                        AMP           0Y6U0Z1
## 152                        AMP           0Y6U0Z2
## 153                        AMP           0Y6U0Z3
## 154                        AMP           0Y6V0Z0
## 155                        AMP           0Y6V0Z1
## 156                        AMP           0Y6V0Z2
## 157                        AMP           0Y6V0Z3
## 158                        AMP           0Y6W0Z0
## 159                        AMP           0Y6W0Z1
## 160                        AMP           0Y6W0Z2
## 161                        AMP           0Y6W0Z3
## 162                        AMP           0Y6X0Z0
## 163                        AMP           0Y6X0Z1
```

```
## 164                    AMP          0Y6X0Z2
## 165                    AMP          0Y6X0Z3
## 166                    AMP          0Y6Y0Z0
## 167                    AMP          0Y6Y0Z1
## 168                    AMP          0Y6Y0Z2
## 169                    AMP          0Y6Y0Z3
## 170                   APPY          0D5J0ZZ
## 171                   APPY          0D5J4ZZ
## 172                   APPY          0D9J00Z
## 173                   APPY          0D9J0ZZ
## 174                   APPY          0D9J40Z
## 175                   APPY          0D9J4ZZ
## 176                   APPY          0DBJ0ZZ
## 177                   APPY          0DBJ4ZZ
## 178                   APPY          0DCJ0ZZ
## 179                   APPY          0DCJ4ZZ
## 180                   APPY          0DQJ0ZZ
## 181                   APPY          0DQJ4ZZ
## 182                   APPY          0DTJ0ZZ
## 183                   APPY          0DTJ4ZZ
## 184                   AVSD          031209D
## 185                   AVSD          031209F
## 186                   AVSD          031209W
## 187                   AVSD          03120AD
## 188                   AVSD          03120AF
## 189                   AVSD          03120AW
## 190                   AVSD          03120JD
## 191                   AVSD          03120JF
## 192                   AVSD          03120JW
## 193                   AVSD          03120KD
## 194                   AVSD          03120KF
## 195                   AVSD          03120KW
## 196                   AVSD          03120ZD
## 197                   AVSD          03120ZF
## 198                   AVSD          03120ZW
## 199                   AVSD          031309D
## 200                   AVSD          031309F
## 201                   AVSD          031309W
## 202                   AVSD          03130AD
## 203                   AVSD          03130AF
## 204                   AVSD          03130AW
## 205                   AVSD          03130JD
## 206                   AVSD          03130JF
## 207                   AVSD          03130JW
## 208                   AVSD          03130KD
## 209                   AVSD          03130KF
## 210                   AVSD          03130KW
## 211                   AVSD          03130ZD
## 212                   AVSD          03130ZF
## 213                   AVSD          03130ZW
## 214                   AVSD          031409D
## 215                   AVSD          031409F
## 216                   AVSD          031409W
## 217                   AVSD          03140AD
```

```
## 218                AVSD        03140AF
## 219                AVSD        03140AW
## 220                AVSD        03140JD
## 221                AVSD        03140JF
## 222                AVSD        03140JW
## 223                AVSD        03140KD
## 224                AVSD        03140KF
## 225                AVSD        03140KW
## 226                AVSD        03140ZD
## 227                AVSD        03140ZF
## 228                AVSD        03140ZW
## 229                AVSD        031509D
## 230                AVSD        031509F
## 231                AVSD        031509W
## 232                AVSD        03150AD
## 233                AVSD        03150AF
## 234                AVSD        03150AW
## 235                AVSD        03150JD
## 236                AVSD        03150JF
## 237                AVSD        03150JW
## 238                AVSD        03150KD
## 239                AVSD        03150KF
## 240                AVSD        03150KW
## 241                AVSD        03150ZD
## 242                AVSD        03150ZF
## 243                AVSD        03150ZW
## 244                AVSD        031609D
## 245                AVSD        031609F
## 246                AVSD        031609W
## 247                AVSD        03160AD
## 248                AVSD        03160AF
## 249                AVSD        03160AW
## 250                AVSD        03160JD
## 251                AVSD        03160JF
## 252                AVSD        03160JV
## 253                AVSD        03160JW
## 254                AVSD        03160KD
## 255                AVSD        03160KF
## 256                AVSD        03160KV
## 257                AVSD        03160KW
## 258                AVSD        03160ZD
## 259                AVSD        03160ZF
## 260                AVSD        03160ZV
## 261                AVSD        03160ZW
## 262                AVSD        031709D
## 263                AVSD        031709F
## 264                AVSD        031709V
## 265                AVSD        031709W
## 266                AVSD        03170AD
## 267                AVSD        03170AF
## 268                AVSD        03170AV
## 269                AVSD        03170AW
## 270                AVSD        03170JD
## 271                AVSD        03170JF
```

```
## 272                    AVSD        03170JV
## 273                    AVSD        03170JW
## 274                    AVSD        03170KD
## 275                    AVSD        03170KF
## 276                    AVSD        03170KV
## 277                    AVSD        03170KW
## 278                    AVSD        03170ZD
## 279                    AVSD        03170ZF
## 280                    AVSD        03170ZV
## 281                    AVSD        03170ZW
## 282                    AVSD        031809D
## 283                    AVSD        031809F
## 284                    AVSD        031809V
## 285                    AVSD        031809W
## 286                    AVSD        03180AD
## 287                    AVSD        03180AF
## 288                    AVSD        03180AV
## 289                    AVSD        03180AW
## 290                    AVSD        03180JD
## 291                    AVSD        03180JF
## 292                    AVSD        03180JV
## 293                    AVSD        03180JW
## 294                    AVSD        03180KD
## 295                    AVSD        03180KF
## 296                    AVSD        03180KV
## 297                    AVSD        03180KW
## 298                    AVSD        03180ZD
## 299                    AVSD        03180ZF
## 300                    AVSD        03180ZV
## 301                    AVSD        03180ZW
## 302                    AVSD        031909F
## 303                    AVSD        03190AF
## 304                    AVSD        03190JF
## 305                    AVSD        03190KF
## 306                    AVSD        03190ZF
## 307                    AVSD        031A09F
## 308                    AVSD        031A0AF
## 309                    AVSD        031A0JF
## 310                    AVSD        031A0KF
## 311                    AVSD        031A0ZF
## 312                    AVSD        031B09F
## 313                    AVSD        031B0AF
## 314                    AVSD        031B0JF
## 315                    AVSD        031B0KF
## 316                    AVSD        031B0ZF
## 317                    AVSD        031C09F
## 318                    AVSD        031C0AF
## 319                    AVSD        031C0JF
## 320                    AVSD        031C0KF
## 321                    AVSD        031C0ZF
## 322                    AVSD        041K09S
## 323                    AVSD        041K0AS
## 324                    AVSD        041K0JS
## 325                    AVSD        041K0KS
```

```
## 326                    AVSD         041K0ZS
## 327                    AVSD         041K49S
## 328                    AVSD         041K4AS
## 329                    AVSD         041K4JS
## 330                    AVSD         041K4KS
## 331                    AVSD         041K4ZS
## 332                    AVSD         041L09S
## 333                    AVSD         041L0AS
## 334                    AVSD         041L0JS
## 335                    AVSD         041L0KS
## 336                    AVSD         041L0ZS
## 337                    AVSD         041L49S
## 338                    AVSD         041L4AS
## 339                    AVSD         041L4JS
## 340                    AVSD         041L4KS
## 341                    AVSD         041L4ZS
## 342                    AVSD         041M09S
## 343                    AVSD         041M0AS
## 344                    AVSD         041M0JS
## 345                    AVSD         041M0KS
## 346                    AVSD         041M0ZS
## 347                    AVSD         041M49S
## 348                    AVSD         041M4AS
## 349                    AVSD         041M4JS
## 350                    AVSD         041M4KS
## 351                    AVSD         041M4ZS
## 352                    AVSD         041N09S
## 353                    AVSD         041N0AS
## 354                    AVSD         041N0JS
## 355                    AVSD         041N0KS
## 356                    AVSD         041N0ZS
## 357                    AVSD         041N49S
## 358                    AVSD         041N4AS
## 359                    AVSD         041N4JS
## 360                    AVSD         041N4KS
## 361                    AVSD         041N4ZS
## 362                    AVSD         041T09S
## 363                    AVSD         041T0AS
## 364                    AVSD         041T0JS
## 365                    AVSD         041T0KS
## 366                    AVSD         041T0ZS
## 367                    AVSD         041T49S
## 368                    AVSD         041T4AS
## 369                    AVSD         041T4JS
## 370                    AVSD         041T4KS
## 371                    AVSD         041T4ZS
## 372                    AVSD         041U09S
## 373                    AVSD         041U0AS
## 374                    AVSD         041U0JS
## 375                    AVSD         041U0KS
## 376                    AVSD         041U0ZS
## 377                    AVSD         041U49S
## 378                    AVSD         041U4AS
## 379                    AVSD         041U4JS
```

```
## 380                    AVSD              041U4KS
## 381                    AVSD              041U4ZS
## 382                    AVSD              041V09S
## 383                    AVSD              041V0AS
## 384                    AVSD              041V0JS
## 385                    AVSD              041V0KS
## 386                    AVSD              041V0ZS
## 387                    AVSD              041V49S
## 388                    AVSD              041V4AS
## 389                    AVSD              041V4JS
## 390                    AVSD              041V4KS
## 391                    AVSD              041V4ZS
## 392                    AVSD              041W09S
## 393                    AVSD              041W0AS
## 394                    AVSD              041W0JS
## 395                    AVSD              041W0KS
## 396                    AVSD              041W0ZS
## 397                    AVSD              041W49S
## 398                    AVSD              041W4AS
## 399                    AVSD              041W4JS
## 400                    AVSD              041W4KS
## 401                    AVSD              041W4ZS
## 402                    AVSD              05SB0ZZ
## 403                    AVSD              05SB4ZZ
## 404                    AVSD              05SC0ZZ
## 405                    AVSD              05SC4ZZ
## 406                    BILI              0F150D3
## 407                    BILI              0F150D4
## 408                    BILI              0F150D5
## 409                    BILI              0F150D6
## 410                    BILI              0F150D7
## 411                    BILI              0F150D8
## 412                    BILI              0F150D9
## 413                    BILI              0F150DB
## 414                    BILI              0F150Z3
## 415                    BILI              0F150Z4
## 416                    BILI              0F150Z5
## 417                    BILI              0F150Z6
## 418                    BILI              0F150Z7
## 419                    BILI              0F150Z8
## 420                    BILI              0F150Z9
## 421                    BILI              0F150ZB
## 422                    BILI              0F154D3
## 423                    BILI              0F154D4
## 424                    BILI              0F154D5
## 425                    BILI              0F154D6
## 426                    BILI              0F154D7
## 427                    BILI              0F154D8
## 428                    BILI              0F154D9
## 429                    BILI              0F154DB
## 430                    BILI              0F154Z3
## 431                    BILI              0F154Z4
## 432                    BILI              0F154Z5
## 433                    BILI              0F154Z6
```

```
## 434                    BILI           0F154Z7
## 435                    BILI           0F154Z8
## 436                    BILI           0F154Z9
## 437                    BILI           0F154ZB
## 438                    BILI           0F160D3
## 439                    BILI           0F160D4
## 440                    BILI           0F160D5
## 441                    BILI           0F160D6
## 442                    BILI           0F160D7
## 443                    BILI           0F160D8
## 444                    BILI           0F160D9
## 445                    BILI           0F160DB
## 446                    BILI           0F160Z3
## 447                    BILI           0F160Z4
## 448                    BILI           0F160Z5
## 449                    BILI           0F160Z6
## 450                    BILI           0F160Z7
## 451                    BILI           0F160Z8
## 452                    BILI           0F160Z9
## 453                    BILI           0F160ZB
## 454                    BILI           0F164D3
## 455                    BILI           0F164D4
## 456                    BILI           0F164D5
## 457                    BILI           0F164D6
## 458                    BILI           0F164D7
## 459                    BILI           0F164D8
## 460                    BILI           0F164D9
## 461                    BILI           0F164DB
## 462                    BILI           0F164Z3
## 463                    BILI           0F164Z4
## 464                    BILI           0F164Z5
## 465                    BILI           0F164Z6
## 466                    BILI           0F164Z7
## 467                    BILI           0F164Z8
## 468                    BILI           0F164Z9
## 469                    BILI           0F164ZB
## 470                    BILI           0F170D3
## 471                    BILI           0F170D4
## 472                    BILI           0F170D5
## 473                    BILI           0F170D6
## 474                    BILI           0F170D7
## 475                    BILI           0F170D8
## 476                    BILI           0F170D9
## 477                    BILI           0F170DB
## 478                    BILI           0F170Z3
## 479                    BILI           0F170Z4
## 480                    BILI           0F170Z5
## 481                    BILI           0F170Z6
## 482                    BILI           0F170Z7
## 483                    BILI           0F170Z8
## 484                    BILI           0F170Z9
## 485                    BILI           0F170ZB
## 486                    BILI           0F174D3
## 487                    BILI           0F174D4
```

```
## 488                    BILI           0F174D5
## 489                    BILI           0F174D6
## 490                    BILI           0F174D7
## 491                    BILI           0F174D8
## 492                    BILI           0F174D9
## 493                    BILI           0F174DB
## 494                    BILI           0F174Z3
## 495                    BILI           0F174Z4
## 496                    BILI           0F174Z5
## 497                    BILI           0F174Z6
## 498                    BILI           0F174Z7
## 499                    BILI           0F174Z8
## 500                    BILI           0F174Z9
## 501                    BILI           0F174ZB
## 502                    BILI           0F180D3
## 503                    BILI           0F180D4
## 504                    BILI           0F180D5
## 505                    BILI           0F180D6
## 506                    BILI           0F180D7
## 507                    BILI           0F180D8
## 508                    BILI           0F180D9
## 509                    BILI           0F180DB
## 510                    BILI           0F180Z3
## 511                    BILI           0F180Z4
## 512                    BILI           0F180Z5
## 513                    BILI           0F180Z6
## 514                    BILI           0F180Z7
## 515                    BILI           0F180Z8
## 516                    BILI           0F180Z9
## 517                    BILI           0F180ZB
## 518                    BILI           0F184D3
## 519                    BILI           0F184D4
## 520                    BILI           0F184D5
## 521                    BILI           0F184D6
## 522                    BILI           0F184D7
## 523                    BILI           0F184D8
## 524                    BILI           0F184D9
## 525                    BILI           0F184DB
## 526                    BILI           0F184Z3
## 527                    BILI           0F184Z4
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## 538                    BILI           0F190D7
## 539                    BILI           0F190D8
## 540                    BILI           0F190D9
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## 556                     BILI         0F194D9
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## 573                     BILI         0F1D4DB
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## 575                     BILI         0F1D4Z3
## 576                     BILI         0F1D4ZB
## 577                     BILI         0F1D4ZC
## 578                     BILI         0F1F0D3
## 579                     BILI         0F1F0DB
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## 582                     BILI         0F1F0ZB
## 583                     BILI         0F1F0ZC
## 584                     BILI         0F1F4D3
## 585                     BILI         0F1F4DB
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## 588                     BILI         0F1F4ZB
## 589                     BILI         0F1F4ZC
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## 591                     BILI         0F1G0DB
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## 593                     BILI         0F1G0Z3
## 594                     BILI         0F1G0ZB
## 595                     BILI         0F1G0ZC
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## 1072                    BILI         0FUC0KZ
## 1073                    BILI         0FUC47Z
## 1074                    BILI         0FUC4JZ
## 1075                    BILI         0FUC4KZ
## 1076                    BILI         0FUD07Z
## 1077                    BILI         0FUD0JZ
## 1078                    BILI         0FUD0KZ
## 1079                    BILI         0FUD47Z
## 1080                    BILI         0FUD4JZ
## 1081                    BILI         0FUD4KZ
```

```
## 1082                    BILI          0FUF07Z
## 1083                    BILI          0FUF0JZ
## 1084                    BILI          0FUF0KZ
## 1085                    BILI          0FUF47Z
## 1086                    BILI          0FUF4JZ
## 1087                    BILI          0FUF4KZ
## 1088                    BILI          0FV50CZ
## 1089                    BILI          0FV50DZ
## 1090                    BILI          0FV50ZZ
## 1091                    BILI          0FV54CZ
## 1092                    BILI          0FV54DZ
## 1093                    BILI          0FV54ZZ
## 1094                    BILI          0FV60CZ
## 1095                    BILI          0FV60DZ
## 1096                    BILI          0FV60ZZ
## 1097                    BILI          0FV64CZ
## 1098                    BILI          0FV64DZ
## 1099                    BILI          0FV64ZZ
## 1100                    BILI          0FV70CZ
## 1101                    BILI          0FV70DZ
## 1102                    BILI          0FV70ZZ
## 1103                    BILI          0FV74CZ
## 1104                    BILI          0FV74DZ
## 1105                    BILI          0FV74ZZ
## 1106                    BILI          0FV80CZ
## 1107                    BILI          0FV80DZ
## 1108                    BILI          0FV80ZZ
## 1109                    BILI          0FV84CZ
## 1110                    BILI          0FV84DZ
## 1111                    BILI          0FV84ZZ
## 1112                    BILI          0FV90CZ
## 1113                    BILI          0FV90DZ
## 1114                    BILI          0FV90ZZ
## 1115                    BILI          0FV94CZ
## 1116                    BILI          0FV94DZ
## 1117                    BILI          0FV94ZZ
## 1118                    BILI          0FVC0CZ
## 1119                    BILI          0FVC0DZ
## 1120                    BILI          0FVC0ZZ
## 1121                    BILI          0FVC4CZ
## 1122                    BILI          0FVC4DZ
## 1123                    BILI          0FVC4ZZ
## 1124                    BILI          0FVD0CZ
## 1125                    BILI          0FVD0DZ
## 1126                    BILI          0FVD0ZZ
## 1127                    BILI          0FVD4CZ
## 1128                    BILI          0FVD4DZ
## 1129                    BILI          0FVD4ZZ
## 1130                    BILI          0FVF0CZ
## 1131                    BILI          0FVF0DZ
## 1132                    BILI          0FVF0ZZ
## 1133                    BILI          0FVF4CZ
## 1134                    BILI          0FVF4DZ
## 1135                    BILI          0FVF4ZZ
```

```
## 1136                      BILI           0FW000Z
## 1137                      BILI           0FW002Z
## 1138                      BILI           0FW003Z
## 1139                      BILI           0FW00YZ
## 1140                      BILI           0FW040Z
## 1141                      BILI           0FW042Z
## 1142                      BILI           0FW043Z
## 1143                      BILI           0FW04YZ
## 1144                      BILI           0FWB00Z
## 1145                      BILI           0FWB02Z
## 1146                      BILI           0FWB03Z
## 1147                      BILI           0FWB07Z
## 1148                      BILI           0FWB0CZ
## 1149                      BILI           0FWB0DZ
## 1150                      BILI           0FWB0JZ
## 1151                      BILI           0FWB0KZ
## 1152                      BILI           0FWB0YZ
## 1153                      BILI           0FWB40Z
## 1154                      BILI           0FWB42Z
## 1155                      BILI           0FWB43Z
## 1156                      BILI           0FWB47Z
## 1157                      BILI           0FWB4CZ
## 1158                      BILI           0FWB4DZ
## 1159                      BILI           0FWB4JZ
## 1160                      BILI           0FWB4KZ
## 1161                      BILI           0FWB4YZ
## 1162                      BILI           0FWD00Z
## 1163                      BILI           0FWD02Z
## 1164                      BILI           0FWD03Z
## 1165                      BILI           0FWD07Z
## 1166                      BILI           0FWD0CZ
## 1167                      BILI           0FWD0DZ
## 1168                      BILI           0FWD0JZ
## 1169                      BILI           0FWD0KZ
## 1170                      BILI           0FWD0YZ
## 1171                      BILI           0FWD40Z
## 1172                      BILI           0FWD42Z
## 1173                      BILI           0FWD43Z
## 1174                      BILI           0FWD47Z
## 1175                      BILI           0FWD4CZ
## 1176                      BILI           0FWD4DZ
## 1177                      BILI           0FWD4JZ
## 1178                      BILI           0FWD4KZ
## 1179                      BILI           0FWD4YZ
## 1180                      BILI           0FWG00Z
## 1181                      BILI           0FWG02Z
## 1182                      BILI           0FWG03Z
## 1183                      BILI           0FWG0DZ
## 1184                      BILI           0FWG0YZ
## 1185                      BILI           0FWG40Z
## 1186                      BILI           0FWG42Z
## 1187                      BILI           0FWG43Z
## 1188                      BILI           0FWG4DZ
## 1189                      BILI           0FWG4YZ
```

```
## 1190              BRST        0HOTO7Z
## 1191              BRST        0HOTOJZ
## 1192              BRST        0HOTOKZ
## 1193              BRST        0HOTOZZ
## 1194              BRST        0HOUO7Z
## 1195              BRST        0HOUOJZ
## 1196              BRST        0HOUOKZ
## 1197              BRST        0HOUOZZ
## 1198              BRST        0HOVO7Z
## 1199              BRST        0HOVOJZ
## 1200              BRST        0HOVOKZ
## 1201              BRST        0HOVOZZ
## 1202              BRST        0H5TOZZ
## 1203              BRST        0H5UOZZ
## 1204              BRST        0H5VOZZ
## 1205              BRST        0H5WOZZ
## 1206              BRST        0H5XOZZ
## 1207              BRST        0HBTOZZ
## 1208              BRST        0HBUOZZ
## 1209              BRST        0HBVOZZ
## 1210              BRST        0HBWOZZ
## 1211              BRST        0HBXOZZ
## 1212              BRST        0HBYOZZ
## 1213              BRST        0HDTOZZ
## 1214              BRST        0HDUOZZ
## 1215              BRST        0HDVOZZ
## 1216              BRST        0HDYOZZ
## 1217              BRST        0HHTONZ
## 1218              BRST        0HHUONZ
## 1219              BRST        0HHVONZ
## 1220              BRST        0HHWONZ
## 1221              BRST        0HHXONZ
## 1222              BRST        0HPTO7Z
## 1223              BRST        0HPTOJZ
## 1224              BRST        0HPTOKZ
## 1225              BRST        0HPTONZ
## 1226              BRST        0HPUO7Z
## 1227              BRST        0HPUOJZ
## 1228              BRST        0HPUOKZ
## 1229              BRST        0HPUONZ
## 1230              BRST        0HRTO75
## 1231              BRST        0HRTO76
## 1232              BRST        0HRTO77
## 1233              BRST        0HRTO78
## 1234              BRST        0HRTO79
## 1235              BRST        0HRTO7Z
## 1236              BRST        0HRTOJZ
## 1237              BRST        0HRTOKZ
## 1238              BRST        0HRUO75
## 1239              BRST        0HRUO76
## 1240              BRST        0HRUO77
## 1241              BRST        0HRUO78
## 1242              BRST        0HRUO79
## 1243              BRST        0HRUO7Z
```

```
## 1244                 BRST         0HRU0JZ
## 1245                 BRST         0HRU0KZ
## 1246                 BRST         0HRV075
## 1247                 BRST         0HRV076
## 1248                 BRST         0HRV077
## 1249                 BRST         0HRV078
## 1250                 BRST         0HRV079
## 1251                 BRST         0HRV07Z
## 1252                 BRST         0HRV0JZ
## 1253                 BRST         0HRV0KZ
## 1254                 BRST         0HST0ZZ
## 1255                 BRST         0HSU0ZZ
## 1256                 BRST         0HSV0ZZ
## 1257                 BRST         0HTT0ZZ
## 1258                 BRST         0HTU0ZZ
## 1259                 BRST         0HTV0ZZ
## 1260                 BRST         0HTY0ZZ
## 1261                 BRST         0HUT07Z
## 1262                 BRST         0HUT0JZ
## 1263                 BRST         0HUT0KZ
## 1264                 BRST         0HUU07Z
## 1265                 BRST         0HUU0JZ
## 1266                 BRST         0HUU0KZ
## 1267                 BRST         0HUV07Z
## 1268                 BRST         0HUV0JZ
## 1269                 BRST         0HUV0KZ
## 1270                 BRST         0HWT0JZ
## 1271                 BRST         0HWU0JZ
## 1272                 BRST         0KXF0Z5
## 1273                 BRST         0KXF0Z7
## 1274                 BRST         0KXF0Z8
## 1275                 BRST         0KXF0Z9
## 1276                 BRST         0KXF4Z5
## 1277                 BRST         0KXF4Z7
## 1278                 BRST         0KXF4Z8
## 1279                 BRST         0KXF4Z9
## 1280                 BRST         0KXG0Z5
## 1281                 BRST         0KXG0Z7
## 1282                 BRST         0KXG0Z8
## 1283                 BRST         0KXG0Z9
## 1284                 BRST         0KXG4Z5
## 1285                 BRST         0KXG4Z7
## 1286                 BRST         0KXG4Z8
## 1287                 BRST         0KXG4Z9
## 1288                 BRST         0KXK0Z6
## 1289                 BRST         0KXK4Z6
## 1290                 BRST         0KXL0Z6
## 1291                 BRST         0KXL4Z6
## 1292                 CARD         02L70CK
## 1293                 CARD         021608P
## 1294                 CARD         021608Q
## 1295                 CARD         021608R
## 1296                 CARD         021648P
## 1297                 CARD         021648Q
```

```
## 1298                    CARD           021648R
## 1299                    CARD           021708P
## 1300                    CARD           021708Q
## 1301                    CARD           021708R
## 1302                    CARD           021708S
## 1303                    CARD           021708T
## 1304                    CARD           021708U
## 1305                    CARD           021709S
## 1306                    CARD           021709T
## 1307                    CARD           021709U
## 1308                    CARD           02170AS
## 1309                    CARD           02170AT
## 1310                    CARD           02170AU
## 1311                    CARD           02170JS
## 1312                    CARD           02170JT
## 1313                    CARD           02170JU
## 1314                    CARD           02170KS
## 1315                    CARD           02170KT
## 1316                    CARD           02170KU
## 1317                    CARD           02170ZS
## 1318                    CARD           02170ZT
## 1319                    CARD           02170ZU
## 1320                    CARD           021748P
## 1321                    CARD           021748Q
## 1322                    CARD           021748R
## 1323                    CARD           021748S
## 1324                    CARD           021748T
## 1325                    CARD           021748U
## 1326                    CARD           021749S
## 1327                    CARD           021749T
## 1328                    CARD           021749U
## 1329                    CARD           02174AS
## 1330                    CARD           02174AT
## 1331                    CARD           02174AU
## 1332                    CARD           02174JS
## 1333                    CARD           02174JT
## 1334                    CARD           02174JU
## 1335                    CARD           02174KS
## 1336                    CARD           02174KT
## 1337                    CARD           02174KU
## 1338                    CARD           02174ZS
## 1339                    CARD           02174ZT
## 1340                    CARD           02174ZU
## 1341                    CARD           021K08P
## 1342                    CARD           021K08Q
## 1343                    CARD           021K08R
## 1344                    CARD           021K09P
## 1345                    CARD           021K09Q
## 1346                    CARD           021K09R
## 1347                    CARD           021K0AP
## 1348                    CARD           021K0AQ
## 1349                    CARD           021K0AR
## 1350                    CARD           021K0JP
## 1351                    CARD           021K0JQ
```

```
## 1352                  CARD           021K0JR
## 1353                  CARD           021K0KP
## 1354                  CARD           021K0KQ
## 1355                  CARD           021K0KR
## 1356                  CARD           021K0Z5
## 1357                  CARD           021K0Z8
## 1358                  CARD           021K0Z9
## 1359                  CARD           021K0ZC
## 1360                  CARD           021K0ZF
## 1361                  CARD           021K0ZP
## 1362                  CARD           021K0ZQ
## 1363                  CARD           021K0ZR
## 1364                  CARD           021K0ZW
## 1365                  CARD           021K48P
## 1366                  CARD           021K48Q
## 1367                  CARD           021K48R
## 1368                  CARD           021K49P
## 1369                  CARD           021K49Q
## 1370                  CARD           021K49R
## 1371                  CARD           021K4AP
## 1372                  CARD           021K4AQ
## 1373                  CARD           021K4AR
## 1374                  CARD           021K4JP
## 1375                  CARD           021K4JQ
## 1376                  CARD           021K4JR
## 1377                  CARD           021K4KP
## 1378                  CARD           021K4KQ
## 1379                  CARD           021K4KR
## 1380                  CARD           021K4Z5
## 1381                  CARD           021K4Z8
## 1382                  CARD           021K4Z9
## 1383                  CARD           021K4ZC
## 1384                  CARD           021K4ZF
## 1385                  CARD           021K4ZP
## 1386                  CARD           021K4ZQ
## 1387                  CARD           021K4ZR
## 1388                  CARD           021K4ZW
## 1389                  CARD           021L08P
## 1390                  CARD           021L08Q
## 1391                  CARD           021L08R
## 1392                  CARD           021L09P
## 1393                  CARD           021L09Q
## 1394                  CARD           021L09R
## 1395                  CARD           021L0AP
## 1396                  CARD           021L0AQ
## 1397                  CARD           021L0AR
## 1398                  CARD           021L0JP
## 1399                  CARD           021L0JQ
## 1400                  CARD           021L0JR
## 1401                  CARD           021L0KP
## 1402                  CARD           021L0KQ
## 1403                  CARD           021L0KR
## 1404                  CARD           021L0Z5
## 1405                  CARD           021L0Z8
```

```
## 1406                    CARD              021L0Z9
## 1407                    CARD              021L0ZC
## 1408                    CARD              021L0ZF
## 1409                    CARD              021L0ZP
## 1410                    CARD              021L0ZQ
## 1411                    CARD              021L0ZR
## 1412                    CARD              021L0ZW
## 1413                    CARD              021L48P
## 1414                    CARD              021L48Q
## 1415                    CARD              021L48R
## 1416                    CARD              021L49P
## 1417                    CARD              021L49Q
## 1418                    CARD              021L49R
## 1419                    CARD              021L4AP
## 1420                    CARD              021L4AQ
## 1421                    CARD              021L4AR
## 1422                    CARD              021L4JP
## 1423                    CARD              021L4JQ
## 1424                    CARD              021L4JR
## 1425                    CARD              021L4KP
## 1426                    CARD              021L4KQ
## 1427                    CARD              021L4KR
## 1428                    CARD              021L4Z5
## 1429                    CARD              021L4Z8
## 1430                    CARD              021L4Z9
## 1431                    CARD              021L4ZC
## 1432                    CARD              021L4ZF
## 1433                    CARD              021L4ZP
## 1434                    CARD              021L4ZQ
## 1435                    CARD              021L4ZR
## 1436                    CARD              021L4ZW
## 1437                    CARD              024F07J
## 1438                    CARD              024F08J
## 1439                    CARD              024F0JJ
## 1440                    CARD              024F0KJ
## 1441                    CARD              024G072
## 1442                    CARD              024G082
## 1443                    CARD              024G0J2
## 1444                    CARD              024G0K2
## 1445                    CARD              024J072
## 1446                    CARD              024J082
## 1447                    CARD              024J0J2
## 1448                    CARD              024J0K2
## 1449                    CARD              02540ZZ
## 1450                    CARD              02544ZZ
## 1451                    CARD              02550ZZ
## 1452                    CARD              02554ZZ
## 1453                    CARD              02560ZZ
## 1454                    CARD              02564ZZ
## 1455                    CARD              02570ZK
## 1456                    CARD              02570ZZ
## 1457                    CARD              02574ZK
## 1458                    CARD              02574ZZ
## 1459                    CARD              02580ZZ
```

```
## 1460                    CARD          02584ZZ
## 1461                    CARD          02590ZZ
## 1462                    CARD          02594ZZ
## 1463                    CARD          025D0ZZ
## 1464                    CARD          025D4ZZ
## 1465                    CARD          025F0ZZ
## 1466                    CARD          025F4ZZ
## 1467                    CARD          025G0ZZ
## 1468                    CARD          025G4ZZ
## 1469                    CARD          025H0ZZ
## 1470                    CARD          025H4ZZ
## 1471                    CARD          025J0ZZ
## 1472                    CARD          025J4ZZ
## 1473                    CARD          025K0ZZ
## 1474                    CARD          025K4ZZ
## 1475                    CARD          025L0ZZ
## 1476                    CARD          025L4ZZ
## 1477                    CARD          025M0ZZ
## 1478                    CARD          025M4ZZ
## 1479                    CARD          025N0ZZ
## 1480                    CARD          025N4ZZ
## 1481                    CARD          027F04Z
## 1482                    CARD          027F0DZ
## 1483                    CARD          027F0ZZ
## 1484                    CARD          027F44Z
## 1485                    CARD          027F4DZ
## 1486                    CARD          027F4ZZ
## 1487                    CARD          027G04Z
## 1488                    CARD          027G0DZ
## 1489                    CARD          027G0ZZ
## 1490                    CARD          027G44Z
## 1491                    CARD          027G4DZ
## 1492                    CARD          027G4ZZ
## 1493                    CARD          027H04Z
## 1494                    CARD          027H0DZ
## 1495                    CARD          027H0ZZ
## 1496                    CARD          027H44Z
## 1497                    CARD          027H4DZ
## 1498                    CARD          027H4ZZ
## 1499                    CARD          027J04Z
## 1500                    CARD          027J0DZ
## 1501                    CARD          027J0ZZ
## 1502                    CARD          027J44Z
## 1503                    CARD          027J4DZ
## 1504                    CARD          027J4ZZ
## 1505                    CARD          027K04Z
## 1506                    CARD          027K0DZ
## 1507                    CARD          027K0ZZ
## 1508                    CARD          027K44Z
## 1509                    CARD          027K4DZ
## 1510                    CARD          027K4ZZ
## 1511                    CARD          027L04Z
## 1512                    CARD          027L0DZ
## 1513                    CARD          027L0ZZ
```

```
## 1514                CARD        027L44Z
## 1515                CARD        027L4DZ
## 1516                CARD        027L4ZZ
## 1517                CARD        027R0DT
## 1518                CARD        027R0ZT
## 1519                CARD        027R44T
## 1520                CARD        027R4DT
## 1521                CARD        027R4ZT
## 1522                CARD        02880ZZ
## 1523                CARD        02884ZZ
## 1524                CARD        02890ZZ
## 1525                CARD        02894ZZ
## 1526                CARD        028D0ZZ
## 1527                CARD        028D4ZZ
## 1528                CARD        02B50ZZ
## 1529                CARD        02B54ZZ
## 1530                CARD        02B60ZZ
## 1531                CARD        02B64ZZ
## 1532                CARD        02B70ZK
## 1533                CARD        02B70ZZ
## 1534                CARD        02B74ZK
## 1535                CARD        02B74ZZ
## 1536                CARD        02B80ZZ
## 1537                CARD        02B84ZZ
## 1538                CARD        02B90ZZ
## 1539                CARD        02B94ZZ
## 1540                CARD        02BD0ZZ
## 1541                CARD        02BF0ZZ
## 1542                CARD        02BF4ZZ
## 1543                CARD        02BG0ZZ
## 1544                CARD        02BG4ZZ
## 1545                CARD        02BH0ZZ
## 1546                CARD        02BH4ZZ
## 1547                CARD        02BJ0ZZ
## 1548                CARD        02BJ4ZZ
## 1549                CARD        02BK0ZZ
## 1550                CARD        02BK4ZZ
## 1551                CARD        02BL0ZZ
## 1552                CARD        02BL4ZZ
## 1553                CARD        02BM0ZZ
## 1554                CARD        02BM4ZZ
## 1555                CARD        02BN0ZZ
## 1556                CARD        02BN4ZZ
## 1557                CARD        02C50ZZ
## 1558                CARD        02C54ZZ
## 1559                CARD        02C60ZZ
## 1560                CARD        02C64ZZ
## 1561                CARD        02C70ZZ
## 1562                CARD        02C74ZZ
## 1563                CARD        02C80ZZ
## 1564                CARD        02C84ZZ
## 1565                CARD        02C90ZZ
## 1566                CARD        02C94ZZ
## 1567                CARD        02CD0ZZ
```

```
## 1568                CARD           02CD4ZZ
## 1569                CARD           02CF0ZZ
## 1570                CARD           02CF4ZZ
## 1571                CARD           02CG0ZZ
## 1572                CARD           02CG4ZZ
## 1573                CARD           02CH0ZZ
## 1574                CARD           02CH4ZZ
## 1575                CARD           02CJ0ZZ
## 1576                CARD           02CJ4ZZ
## 1577                CARD           02CK0ZZ
## 1578                CARD           02CK4ZZ
## 1579                CARD           02CL0ZZ
## 1580                CARD           02CL4ZZ
## 1581                CARD           02CM0ZZ
## 1582                CARD           02CM4ZZ
## 1583                CARD           02CN0ZZ
## 1584                CARD           02CN4ZZ
## 1585                CARD           02FN0ZZ
## 1586                CARD           02FN4ZZ
## 1587                CARD           02H602Z
## 1588                CARD           02H603Z
## 1589                CARD           02H60DZ
## 1590                CARD           02H60YZ
## 1591                CARD           02H640Z
## 1592                CARD           02H642Z
## 1593                CARD           02H643Z
## 1594                CARD           02H64DZ
## 1595                CARD           02H64YZ
## 1596                CARD           02H700Z
## 1597                CARD           02H702Z
## 1598                CARD           02H703Z
## 1599                CARD           02H70DZ
## 1600                CARD           02H70YZ
## 1601                CARD           02H740Z
## 1602                CARD           02H742Z
## 1603                CARD           02H743Z
## 1604                CARD           02H74DZ
## 1605                CARD           02H74YZ
## 1606                CARD           02HA0QZ
## 1607                CARD           02HA0RJ
## 1608                CARD           02HA0RS
## 1609                CARD           02HA0RZ
## 1610                CARD           02HA0YZ
## 1611                CARD           02HA4QZ
## 1612                CARD           02HA4RJ
## 1613                CARD           02HA4RS
## 1614                CARD           02HA4RZ
## 1615                CARD           02HA4YZ
## 1616                CARD           02HK00Z
## 1617                CARD           02HK02Z
## 1618                CARD           02HK03Z
## 1619                CARD           02HK0DZ
## 1620                CARD           02HK0YZ
## 1621                CARD           02HK40Z
```

```
## 1622                    CARD           02HK42Z
## 1623                    CARD           02HK43Z
## 1624                    CARD           02HK4DZ
## 1625                    CARD           02HK4YZ
## 1626                    CARD           02HL00Z
## 1627                    CARD           02HL02Z
## 1628                    CARD           02HL03Z
## 1629                    CARD           02HL0DZ
## 1630                    CARD           02HL0YZ
## 1631                    CARD           02HL40Z
## 1632                    CARD           02HL42Z
## 1633                    CARD           02HL43Z
## 1634                    CARD           02HL4DZ
## 1635                    CARD           02HL4YZ
## 1636                    CARD           02HN00Z
## 1637                    CARD           02HN02Z
## 1638                    CARD           02HN0YZ
## 1639                    CARD           02HN40Z
## 1640                    CARD           02HN42Z
## 1641                    CARD           02HN4YZ
## 1642                    CARD           02L70DK
## 1643                    CARD           02L70ZK
## 1644                    CARD           02L74CK
## 1645                    CARD           02L74DK
## 1646                    CARD           02L74ZK
## 1647                    CARD           02LH0CZ
## 1648                    CARD           02LH0DZ
## 1649                    CARD           02LH0ZZ
## 1650                    CARD           02LH4CZ
## 1651                    CARD           02LH4DZ
## 1652                    CARD           02LH4ZZ
## 1653                    CARD           02N40ZZ
## 1654                    CARD           02N44ZZ
## 1655                    CARD           02N50ZZ
## 1656                    CARD           02N54ZZ
## 1657                    CARD           02N60ZZ
## 1658                    CARD           02N64ZZ
## 1659                    CARD           02N70ZZ
## 1660                    CARD           02N74ZZ
## 1661                    CARD           02N80ZZ
## 1662                    CARD           02N84ZZ
## 1663                    CARD           02N90ZZ
## 1664                    CARD           02N94ZZ
## 1665                    CARD           02ND0ZZ
## 1666                    CARD           02ND4ZZ
## 1667                    CARD           02NF0ZZ
## 1668                    CARD           02NF4ZZ
## 1669                    CARD           02NG0ZZ
## 1670                    CARD           02NG4ZZ
## 1671                    CARD           02NH0ZZ
## 1672                    CARD           02NH4ZZ
## 1673                    CARD           02NJ0ZZ
## 1674                    CARD           02NJ4ZZ
## 1675                    CARD           02NK0ZZ
```

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## 1676                     CARD           02NK4ZZ
## 1677                     CARD           02NL0ZZ
## 1678                     CARD           02NL4ZZ
## 1679                     CARD           02NM0ZZ
## 1680                     CARD           02NM4ZZ
## 1681                     CARD           02NN0ZZ
## 1682                     CARD           02NN4ZZ
## 1683                     CARD           02PA02Z
## 1684                     CARD           02PA03Z
## 1685                     CARD           02PA07Z
## 1686                     CARD           02PA08Z
## 1687                     CARD           02PA0CZ
## 1688                     CARD           02PA0DZ
## 1689                     CARD           02PA0JZ
## 1690                     CARD           02PA0KZ
## 1691                     CARD           02PA0RS
## 1692                     CARD           02PA0RZ
## 1693                     CARD           02PA0YZ
## 1694                     CARD           02PA42Z
## 1695                     CARD           02PA43Z
## 1696                     CARD           02PA47Z
## 1697                     CARD           02PA48Z
## 1698                     CARD           02PA4CZ
## 1699                     CARD           02PA4DZ
## 1700                     CARD           02PA4JZ
## 1701                     CARD           02PA4KZ
## 1702                     CARD           02PA4QZ
## 1703                     CARD           02PA4RS
## 1704                     CARD           02PA4RZ
## 1705                     CARD           02PA4YZ
## 1706                     CARD           02Q50ZZ
## 1707                     CARD           02Q54ZZ
## 1708                     CARD           02Q60ZZ
## 1709                     CARD           02Q64ZZ
## 1710                     CARD           02Q70ZZ
## 1711                     CARD           02Q74ZZ
## 1712                     CARD           02Q80ZZ
## 1713                     CARD           02Q84ZZ
## 1714                     CARD           02Q90ZZ
## 1715                     CARD           02Q94ZZ
## 1716                     CARD           02QA0ZZ
## 1717                     CARD           02QA4ZZ
## 1718                     CARD           02QB0ZZ
## 1719                     CARD           02QB4ZZ
## 1720                     CARD           02QC0ZZ
## 1721                     CARD           02QC4ZZ
## 1722                     CARD           02QD0ZZ
## 1723                     CARD           02QD4ZZ
## 1724                     CARD           02QF0ZJ
## 1725                     CARD           02QF0ZZ
## 1726                     CARD           02QF4ZJ
## 1727                     CARD           02QF4ZZ
## 1728                     CARD           02QG0ZE
## 1729                     CARD           02QG0ZZ
```

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## 1730                    CARD         02QG4ZE
## 1731                    CARD         02QG4ZZ
## 1732                    CARD         02QH0ZZ
## 1733                    CARD         02QH4ZZ
## 1734                    CARD         02QJ0ZG
## 1735                    CARD         02QJ0ZZ
## 1736                    CARD         02QJ4ZG
## 1737                    CARD         02QJ4ZZ
## 1738                    CARD         02QK0ZZ
## 1739                    CARD         02QK4ZZ
## 1740                    CARD         02QL0ZZ
## 1741                    CARD         02QL4ZZ
## 1742                    CARD         02QM0ZZ
## 1743                    CARD         02QM4ZZ
## 1744                    CARD         02QN0ZZ
## 1745                    CARD         02QN4ZZ
## 1746                    CARD         02R507Z
## 1747                    CARD         02R508Z
## 1748                    CARD         02R50JZ
## 1749                    CARD         02R50KZ
## 1750                    CARD         02R547Z
## 1751                    CARD         02R548Z
## 1752                    CARD         02R54JZ
## 1753                    CARD         02R54KZ
## 1754                    CARD         02R607Z
## 1755                    CARD         02R608Z
## 1756                    CARD         02R60JZ
## 1757                    CARD         02R60KZ
## 1758                    CARD         02R647Z
## 1759                    CARD         02R648Z
## 1760                    CARD         02R64JZ
## 1761                    CARD         02R64KZ
## 1762                    CARD         02R707Z
## 1763                    CARD         02R708Z
## 1764                    CARD         02R70JZ
## 1765                    CARD         02R70KZ
## 1766                    CARD         02R747Z
## 1767                    CARD         02R748Z
## 1768                    CARD         02R74JZ
## 1769                    CARD         02R74KZ
## 1770                    CARD         02R907Z
## 1771                    CARD         02R908Z
## 1772                    CARD         02R90JZ
## 1773                    CARD         02R90KZ
## 1774                    CARD         02R947Z
## 1775                    CARD         02R948Z
## 1776                    CARD         02R94JZ
## 1777                    CARD         02R94KZ
## 1778                    CARD         02RA0LZ
## 1779                    CARD         02RA0MZ
## 1780                    CARD         02RD07Z
## 1781                    CARD         02RD08Z
## 1782                    CARD         02RD0JZ
## 1783                    CARD         02RD0KZ
```

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## 1784                    CARD            02RD47Z
## 1785                    CARD            02RD48Z
## 1786                    CARD            02RD4JZ
## 1787                    CARD            02RD4KZ
## 1788                    CARD            02RF07Z
## 1789                    CARD            02RF08Z
## 1790                    CARD            02RF0JZ
## 1791                    CARD            02RF0KZ
## 1792                    CARD            02RF47Z
## 1793                    CARD            02RF48Z
## 1794                    CARD            02RF4JZ
## 1795                    CARD            02RF4KZ
## 1796                    CARD            02RG07Z
## 1797                    CARD            02RG08Z
## 1798                    CARD            02RG0JZ
## 1799                    CARD            02RG0KZ
## 1800                    CARD            02RG47Z
## 1801                    CARD            02RG48Z
## 1802                    CARD            02RG4JZ
## 1803                    CARD            02RG4KZ
## 1804                    CARD            02RH07Z
## 1805                    CARD            02RH08Z
## 1806                    CARD            02RH0JZ
## 1807                    CARD            02RH0KZ
## 1808                    CARD            02RH47Z
## 1809                    CARD            02RH48Z
## 1810                    CARD            02RH4JZ
## 1811                    CARD            02RH4KZ
## 1812                    CARD            02RJ07Z
## 1813                    CARD            02RJ08Z
## 1814                    CARD            02RJ0JZ
## 1815                    CARD            02RJ0KZ
## 1816                    CARD            02RJ47Z
## 1817                    CARD            02RJ48Z
## 1818                    CARD            02RJ4JZ
## 1819                    CARD            02RJ4KZ
## 1820                    CARD            02RK07Z
## 1821                    CARD            02RK08Z
## 1822                    CARD            02RK0JZ
## 1823                    CARD            02RK0KZ
## 1824                    CARD            02RK47Z
## 1825                    CARD            02RK48Z
## 1826                    CARD            02RK4JZ
## 1827                    CARD            02RK4KZ
## 1828                    CARD            02RL07Z
## 1829                    CARD            02RL08Z
## 1830                    CARD            02RL0JZ
## 1831                    CARD            02RL0KZ
## 1832                    CARD            02RL47Z
## 1833                    CARD            02RL48Z
## 1834                    CARD            02RL4JZ
## 1835                    CARD            02RL4KZ
## 1836                    CARD            02RM07Z
## 1837                    CARD            02RM08Z
```

```
## 1838                   CARD            02RM0JZ
## 1839                   CARD            02RM0KZ
## 1840                   CARD            02RM47Z
## 1841                   CARD            02RM48Z
## 1842                   CARD            02RM4JZ
## 1843                   CARD            02RM4KZ
## 1844                   CARD            02RN07Z
## 1845                   CARD            02RN08Z
## 1846                   CARD            02RN0JZ
## 1847                   CARD            02RN0KZ
## 1848                   CARD            02RN47Z
## 1849                   CARD            02RN48Z
## 1850                   CARD            02RN4JZ
## 1851                   CARD            02RN4KZ
## 1852                   CARD            02SP0ZZ
## 1853                   CARD            02T50ZZ
## 1854                   CARD            02T54ZZ
## 1855                   CARD            02T80ZZ
## 1856                   CARD            02T84ZZ
## 1857                   CARD            02T90ZZ
## 1858                   CARD            02T94ZZ
## 1859                   CARD            02TD0ZZ
## 1860                   CARD            02TD4ZZ
## 1861                   CARD            02TH0ZZ
## 1862                   CARD            02TH4ZZ
## 1863                   CARD            02TM0ZZ
## 1864                   CARD            02TM4ZZ
## 1865                   CARD            02TN0ZZ
## 1866                   CARD            02TN4ZZ
## 1867                   CARD            02U507Z
## 1868                   CARD            02U508Z
## 1869                   CARD            02U50JZ
## 1870                   CARD            02U50KZ
## 1871                   CARD            02U547Z
## 1872                   CARD            02U548Z
## 1873                   CARD            02U54JZ
## 1874                   CARD            02U54KZ
## 1875                   CARD            02U607Z
## 1876                   CARD            02U608Z
## 1877                   CARD            02U60JZ
## 1878                   CARD            02U60KZ
## 1879                   CARD            02U647Z
## 1880                   CARD            02U648Z
## 1881                   CARD            02U64JZ
## 1882                   CARD            02U64KZ
## 1883                   CARD            02U707Z
## 1884                   CARD            02U708Z
## 1885                   CARD            02U70JZ
## 1886                   CARD            02U70KZ
## 1887                   CARD            02U747Z
## 1888                   CARD            02U748Z
## 1889                   CARD            02U74JZ
## 1890                   CARD            02U74KZ
## 1891                   CARD            02U907Z
```

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## 1892                      CARD            02U908Z
## 1893                      CARD            02U90JZ
## 1894                      CARD            02U90KZ
## 1895                      CARD            02U947Z
## 1896                      CARD            02U948Z
## 1897                      CARD            02U94JZ
## 1898                      CARD            02U94KZ
## 1899                      CARD            02UA07Z
## 1900                      CARD            02UA08Z
## 1901                      CARD            02UA0JZ
## 1902                      CARD            02UA0KZ
## 1903                      CARD            02UA47Z
## 1904                      CARD            02UA48Z
## 1905                      CARD            02UA4JZ
## 1906                      CARD            02UA4KZ
## 1907                      CARD            02UD07Z
## 1908                      CARD            02UD08Z
## 1909                      CARD            02UD0JZ
## 1910                      CARD            02UD0KZ
## 1911                      CARD            02UD47Z
## 1912                      CARD            02UD48Z
## 1913                      CARD            02UD4JZ
## 1914                      CARD            02UD4KZ
## 1915                      CARD            02UF07J
## 1916                      CARD            02UF07Z
## 1917                      CARD            02UF08J
## 1918                      CARD            02UF08Z
## 1919                      CARD            02UF0JJ
## 1920                      CARD            02UF0JZ
## 1921                      CARD            02UF0KJ
## 1922                      CARD            02UF0KZ
## 1923                      CARD            02UF47J
## 1924                      CARD            02UF47Z
## 1925                      CARD            02UF48J
## 1926                      CARD            02UF48Z
## 1927                      CARD            02UF4JJ
## 1928                      CARD            02UF4JZ
## 1929                      CARD            02UF4KJ
## 1930                      CARD            02UF4KZ
## 1931                      CARD            02UG07E
## 1932                      CARD            02UG07Z
## 1933                      CARD            02UG08E
## 1934                      CARD            02UG08Z
## 1935                      CARD            02UG0JE
## 1936                      CARD            02UG0JZ
## 1937                      CARD            02UG0KE
## 1938                      CARD            02UG0KZ
## 1939                      CARD            02UG47E
## 1940                      CARD            02UG47Z
## 1941                      CARD            02UG48E
## 1942                      CARD            02UG48Z
## 1943                      CARD            02UG4JE
## 1944                      CARD            02UG4JZ
## 1945                      CARD            02UG4KE
```

```
## 1946                   CARD          02UG4KZ
## 1947                   CARD          02UH07Z
## 1948                   CARD          02UH08Z
## 1949                   CARD          02UH0JZ
## 1950                   CARD          02UH0KZ
## 1951                   CARD          02UH47Z
## 1952                   CARD          02UH48Z
## 1953                   CARD          02UH4JZ
## 1954                   CARD          02UH4KZ
## 1955                   CARD          02UJ07G
## 1956                   CARD          02UJ07Z
## 1957                   CARD          02UJ08G
## 1958                   CARD          02UJ08Z
## 1959                   CARD          02UJ0JG
## 1960                   CARD          02UJ0JZ
## 1961                   CARD          02UJ0KG
## 1962                   CARD          02UJ0KZ
## 1963                   CARD          02UJ47G
## 1964                   CARD          02UJ47Z
## 1965                   CARD          02UJ48G
## 1966                   CARD          02UJ48Z
## 1967                   CARD          02UJ4JG
## 1968                   CARD          02UJ4JZ
## 1969                   CARD          02UJ4KG
## 1970                   CARD          02UJ4KZ
## 1971                   CARD          02UK07Z
## 1972                   CARD          02UK08Z
## 1973                   CARD          02UK0JZ
## 1974                   CARD          02UK0KZ
## 1975                   CARD          02UK47Z
## 1976                   CARD          02UK48Z
## 1977                   CARD          02UK4JZ
## 1978                   CARD          02UK4KZ
## 1979                   CARD          02UL07Z
## 1980                   CARD          02UL08Z
## 1981                   CARD          02UL0JZ
## 1982                   CARD          02UL0KZ
## 1983                   CARD          02UL47Z
## 1984                   CARD          02UL48Z
## 1985                   CARD          02UL4JZ
## 1986                   CARD          02UL4KZ
## 1987                   CARD          02UM07Z
## 1988                   CARD          02UM08Z
## 1989                   CARD          02UM0JZ
## 1990                   CARD          02UM0KZ
## 1991                   CARD          02UM47Z
## 1992                   CARD          02UM48Z
## 1993                   CARD          02UM4JZ
## 1994                   CARD          02UM4KZ
## 1995                   CARD          02UN07Z
## 1996                   CARD          02UN08Z
## 1997                   CARD          02UN0JZ
## 1998                   CARD          02UN0KZ
## 1999                   CARD          02UN47Z
```

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## 2000                    CARD            02UN48Z
## 2001                    CARD            02UN4JZ
## 2002                    CARD            02UN4KZ
## 2003                    CARD            02VA0CZ
## 2004                    CARD            02VA0ZZ
## 2005                    CARD            02VA4CZ
## 2006                    CARD            02VA4ZZ
## 2007                    CARD            02VG0ZZ
## 2008                    CARD            02VG4ZZ
## 2009                    CARD            02VL0CZ
## 2010                    CARD            02VL0DZ
## 2011                    CARD            02VL0ZZ
## 2012                    CARD            02VL4CZ
## 2013                    CARD            02VL4DZ
## 2014                    CARD            02VL4ZZ
## 2015                    CARD            02W50JZ
## 2016                    CARD            02W54JZ
## 2017                    CARD            02WA02Z
## 2018                    CARD            02WA03Z
## 2019                    CARD            02WA07Z
## 2020                    CARD            02WA08Z
## 2021                    CARD            02WA0CZ
## 2022                    CARD            02WA0DZ
## 2023                    CARD            02WA0JZ
## 2024                    CARD            02WA0KZ
## 2025                    CARD            02WA0QZ
## 2026                    CARD            02WA0RS
## 2027                    CARD            02WA0RZ
## 2028                    CARD            02WA0YZ
## 2029                    CARD            02WA42Z
## 2030                    CARD            02WA43Z
## 2031                    CARD            02WA47Z
## 2032                    CARD            02WA48Z
## 2033                    CARD            02WA4CZ
## 2034                    CARD            02WA4DZ
## 2035                    CARD            02WA4JZ
## 2036                    CARD            02WA4KZ
## 2037                    CARD            02WA4QZ
## 2038                    CARD            02WA4RS
## 2039                    CARD            02WA4RZ
## 2040                    CARD            02WA4YZ
## 2041                    CARD            0W9D00Z
## 2042                    CARD            0W9D0ZZ
## 2043                    CARD            0W9D40Z
## 2044                    CARD            0W9D4ZZ
## 2045                    CARD            0WCD0ZZ
## 2046                    CARD            0WCD4ZZ
## 2047                    CARD            0WFD0ZZ
## 2048                    CARD            0WFD4ZZ
## 2049                    CARD            0WHD01Z
## 2050                    CARD            0WHD03Z
## 2051                    CARD            0WHD0YZ
## 2052                    CARD            0WHD41Z
## 2053                    CARD            0WHD43Z
```

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## 2054              CARD          0WHD4YZ
## 2055              CARD          0WPD00Z
## 2056              CARD          0WPD01Z
## 2057              CARD          0WPD03Z
## 2058              CARD          0WPD0YZ
## 2059              CARD          0WPD40Z
## 2060              CARD          0WPD41Z
## 2061              CARD          0WPD43Z
## 2062              CARD          0WPD4YZ
## 2063              CARD          0WWD00Z
## 2064              CARD          0WWD01Z
## 2065              CARD          0WWD03Z
## 2066              CARD          0WWD0YZ
## 2067              CARD          0WWD40Z
## 2068              CARD          0WWD41Z
## 2069              CARD          0WWD43Z
## 2070              CARD          0WWD4YZ
## 2071              CARD          X2RF432
## 2072              CBGB          021008F
## 2073              CBGB          0210093
## 2074              CBGB          0210098
## 2075              CBGB          0210099
## 2076              CBGB          021009C
## 2077              CBGB          021009F
## 2078              CBGB          021009W
## 2079              CBGB          02100A3
## 2080              CBGB          02100A8
## 2081              CBGB          02100A9
## 2082              CBGB          02100AC
## 2083              CBGB          02100AF
## 2084              CBGB          02100AW
## 2085              CBGB          02100JF
## 2086              CBGB          02100KF
## 2087              CBGB          02100ZF
## 2088              CBGB          021048F
## 2089              CBGB          0210493
## 2090              CBGB          0210498
## 2091              CBGB          0210499
## 2092              CBGB          021049C
## 2093              CBGB          021049F
## 2094              CBGB          021049W
## 2095              CBGB          02104A3
## 2096              CBGB          02104A8
## 2097              CBGB          02104A9
## 2098              CBGB          02104AC
## 2099              CBGB          02104AF
## 2100              CBGB          02104AW
## 2101              CBGB          02104JF
## 2102              CBGB          02104KF
## 2103              CBGB          02104ZF
## 2104              CBGB          021108F
## 2105              CBGB          0211093
## 2106              CBGB          0211098
## 2107              CBGB          0211099
```

```
## 2108                 CBGB                021109C
## 2109                 CBGB                021109F
## 2110                 CBGB                021109W
## 2111                 CBGB                02110A3
## 2112                 CBGB                02110A8
## 2113                 CBGB                02110A9
## 2114                 CBGB                02110AC
## 2115                 CBGB                02110AF
## 2116                 CBGB                02110AW
## 2117                 CBGB                02110JF
## 2118                 CBGB                02110KF
## 2119                 CBGB                02110ZF
## 2120                 CBGB                021148F
## 2121                 CBGB                0211493
## 2122                 CBGB                0211498
## 2123                 CBGB                0211499
## 2124                 CBGB                021149C
## 2125                 CBGB                021149F
## 2126                 CBGB                021149W
## 2127                 CBGB                02114A3
## 2128                 CBGB                02114A8
## 2129                 CBGB                02114A9
## 2130                 CBGB                02114AC
## 2131                 CBGB                02114AF
## 2132                 CBGB                02114AW
## 2133                 CBGB                02114JF
## 2134                 CBGB                02114KF
## 2135                 CBGB                02114ZF
## 2136                 CBGB                021208F
## 2137                 CBGB                0212093
## 2138                 CBGB                0212098
## 2139                 CBGB                0212099
## 2140                 CBGB                021209C
## 2141                 CBGB                021209F
## 2142                 CBGB                021209W
## 2143                 CBGB                02120A3
## 2144                 CBGB                02120A8
## 2145                 CBGB                02120A9
## 2146                 CBGB                02120AC
## 2147                 CBGB                02120AF
## 2148                 CBGB                02120AW
## 2149                 CBGB                02120JF
## 2150                 CBGB                02120KF
## 2151                 CBGB                02120ZF
## 2152                 CBGB                021248F
## 2153                 CBGB                0212493
## 2154                 CBGB                0212498
## 2155                 CBGB                0212499
## 2156                 CBGB                021249C
## 2157                 CBGB                021249F
## 2158                 CBGB                021249W
## 2159                 CBGB                02124A3
## 2160                 CBGB                02124A8
## 2161                 CBGB                02124A9
```

```
## 2162            CBGB            02124AC
## 2163            CBGB            02124AF
## 2164            CBGB            02124AW
## 2165            CBGB            02124JF
## 2166            CBGB            02124KF
## 2167            CBGB            02124ZF
## 2168            CBGB            021308F
## 2169            CBGB            0213093
## 2170            CBGB            0213098
## 2171            CBGB            0213099
## 2172            CBGB            021309C
## 2173            CBGB            021309F
## 2174            CBGB            021309W
## 2175            CBGB            02130A3
## 2176            CBGB            02130A8
## 2177            CBGB            02130A9
## 2178            CBGB            02130AC
## 2179            CBGB            02130AF
## 2180            CBGB            02130AW
## 2181            CBGB            02130JF
## 2182            CBGB            02130KF
## 2183            CBGB            02130ZF
## 2184            CBGB            021348F
## 2185            CBGB            0213493
## 2186            CBGB            0213498
## 2187            CBGB            0213499
## 2188            CBGB            021349C
## 2189            CBGB            021349F
## 2190            CBGB            021349W
## 2191            CBGB            02134A3
## 2192            CBGB            02134A8
## 2193            CBGB            02134A9
## 2194            CBGB            02134AC
## 2195            CBGB            02134AF
## 2196            CBGB            02134AW
## 2197            CBGB            02134JF
## 2198            CBGB            02134KF
## 2199            CBGB            02134ZF
## 2200            CBGC            0210083
## 2201            CBGC            0210088
## 2202            CBGC            0210089
## 2203            CBGC            021008C
## 2204            CBGC            021008W
## 2205            CBGC            02100J3
## 2206            CBGC            02100J8
## 2207            CBGC            02100J9
## 2208            CBGC            02100JC
## 2209            CBGC            02100JW
## 2210            CBGC            02100K3
## 2211            CBGC            02100K8
## 2212            CBGC            02100K9
## 2213            CBGC            02100KC
## 2214            CBGC            02100KW
## 2215            CBGC            02100Z3
```

```
## 2216                 CBGC           02100Z8
## 2217                 CBGC           02100Z9
## 2218                 CBGC           02100ZC
## 2219                 CBGC           0210444
## 2220                 CBGC           0210483
## 2221                 CBGC           0210488
## 2222                 CBGC           0210489
## 2223                 CBGC           021048C
## 2224                 CBGC           021048W
## 2225                 CBGC           02104D4
## 2226                 CBGC           02104J3
## 2227                 CBGC           02104J8
## 2228                 CBGC           02104J9
## 2229                 CBGC           02104JC
## 2230                 CBGC           02104JW
## 2231                 CBGC           02104K3
## 2232                 CBGC           02104K8
## 2233                 CBGC           02104K9
## 2234                 CBGC           02104KC
## 2235                 CBGC           02104KW
## 2236                 CBGC           02104Z3
## 2237                 CBGC           02104Z8
## 2238                 CBGC           02104Z9
## 2239                 CBGC           02104ZC
## 2240                 CBGC           0211083
## 2241                 CBGC           0211088
## 2242                 CBGC           0211089
## 2243                 CBGC           021108C
## 2244                 CBGC           021108W
## 2245                 CBGC           02110J3
## 2246                 CBGC           02110J8
## 2247                 CBGC           02110J9
## 2248                 CBGC           02110JC
## 2249                 CBGC           02110JW
## 2250                 CBGC           02110K3
## 2251                 CBGC           02110K8
## 2252                 CBGC           02110K9
## 2253                 CBGC           02110KC
## 2254                 CBGC           02110KW
## 2255                 CBGC           02110Z3
## 2256                 CBGC           02110Z8
## 2257                 CBGC           02110Z9
## 2258                 CBGC           02110ZC
## 2259                 CBGC           0211444
## 2260                 CBGC           0211483
## 2261                 CBGC           0211488
## 2262                 CBGC           0211489
## 2263                 CBGC           021148C
## 2264                 CBGC           021148W
## 2265                 CBGC           02114D4
## 2266                 CBGC           02114J3
## 2267                 CBGC           02114J8
## 2268                 CBGC           02114J9
## 2269                 CBGC           02114JC
```

```
## 2270                    CBGC              02114JW
## 2271                    CBGC              02114K3
## 2272                    CBGC              02114K8
## 2273                    CBGC              02114K9
## 2274                    CBGC              02114KC
## 2275                    CBGC              02114KW
## 2276                    CBGC              02114Z3
## 2277                    CBGC              02114Z8
## 2278                    CBGC              02114Z9
## 2279                    CBGC              02114ZC
## 2280                    CBGC              0212083
## 2281                    CBGC              0212088
## 2282                    CBGC              0212089
## 2283                    CBGC              021208C
## 2284                    CBGC              021208W
## 2285                    CBGC              02120J3
## 2286                    CBGC              02120J8
## 2287                    CBGC              02120J9
## 2288                    CBGC              02120JC
## 2289                    CBGC              02120JW
## 2290                    CBGC              02120K3
## 2291                    CBGC              02120K8
## 2292                    CBGC              02120K9
## 2293                    CBGC              02120KC
## 2294                    CBGC              02120KW
## 2295                    CBGC              02120Z3
## 2296                    CBGC              02120Z8
## 2297                    CBGC              02120Z9
## 2298                    CBGC              02120ZC
## 2299                    CBGC              0212444
## 2300                    CBGC              0212483
## 2301                    CBGC              0212488
## 2302                    CBGC              0212489
## 2303                    CBGC              021248C
## 2304                    CBGC              021248W
## 2305                    CBGC              02124D4
## 2306                    CBGC              02124J3
## 2307                    CBGC              02124J8
## 2308                    CBGC              02124J9
## 2309                    CBGC              02124JC
## 2310                    CBGC              02124JW
## 2311                    CBGC              02124K3
## 2312                    CBGC              02124K8
## 2313                    CBGC              02124K9
## 2314                    CBGC              02124KC
## 2315                    CBGC              02124KW
## 2316                    CBGC              02124Z3
## 2317                    CBGC              02124Z8
## 2318                    CBGC              02124Z9
## 2319                    CBGC              02124ZC
## 2320                    CBGC              0213083
## 2321                    CBGC              0213088
## 2322                    CBGC              0213089
## 2323                    CBGC              021308C
```

```
## 2324                 CBGC              021308W
## 2325                 CBGC              02130J3
## 2326                 CBGC              02130J8
## 2327                 CBGC              02130J9
## 2328                 CBGC              02130JC
## 2329                 CBGC              02130JW
## 2330                 CBGC              02130K3
## 2331                 CBGC              02130K8
## 2332                 CBGC              02130K9
## 2333                 CBGC              02130KC
## 2334                 CBGC              02130KW
## 2335                 CBGC              02130Z3
## 2336                 CBGC              02130Z8
## 2337                 CBGC              02130Z9
## 2338                 CBGC              02130ZC
## 2339                 CBGC              0213444
## 2340                 CBGC              0213483
## 2341                 CBGC              0213488
## 2342                 CBGC              0213489
## 2343                 CBGC              021348C
## 2344                 CBGC              021348W
## 2345                 CBGC              02134D4
## 2346                 CBGC              02134J3
## 2347                 CBGC              02134J8
## 2348                 CBGC              02134J9
## 2349                 CBGC              02134JC
## 2350                 CBGC              02134JW
## 2351                 CBGC              02134K3
## 2352                 CBGC              02134K8
## 2353                 CBGC              02134K9
## 2354                 CBGC              02134KC
## 2355                 CBGC              02134KW
## 2356                 CBGC              02134Z3
## 2357                 CBGC              02134Z8
## 2358                 CBGC              02134Z9
## 2359                 CBGC              02134ZC
## 2360                  CEA              03CH0ZZ
## 2361                  CEA              03CH4ZZ
## 2362                  CEA              03CJ0ZZ
## 2363                  CEA              03CJ4ZZ
## 2364                  CEA              03CK0ZZ
## 2365                  CEA              03CK4ZZ
## 2366                  CEA              03CL0ZZ
## 2367                  CEA              03CL4ZZ
## 2368                  CEA              03CM0ZZ
## 2369                  CEA              03CM4ZZ
## 2370                  CEA              03CN0ZZ
## 2371                  CEA              03CN4ZZ
## 2372                  CEA              03CP0ZZ
## 2373                  CEA              03CP4ZZ
## 2374                  CEA              03CQ0ZZ
## 2375                  CEA              03CQ4ZZ
## 2376                 CHOL              0F140D3
## 2377                 CHOL              0F140D4
```

```
## 2378                    CHOL            0F140D5
## 2379                    CHOL            0F140D6
## 2380                    CHOL            0F140D7
## 2381                    CHOL            0F140D8
## 2382                    CHOL            0F140D9
## 2383                    CHOL            0F140DB
## 2384                    CHOL            0F140Z3
## 2385                    CHOL            0F140Z4
## 2386                    CHOL            0F140Z5
## 2387                    CHOL            0F140Z6
## 2388                    CHOL            0F140Z7
## 2389                    CHOL            0F140Z8
## 2390                    CHOL            0F140Z9
## 2391                    CHOL            0F140ZB
## 2392                    CHOL            0F144D3
## 2393                    CHOL            0F144D4
## 2394                    CHOL            0F144D5
## 2395                    CHOL            0F144D6
## 2396                    CHOL            0F144D7
## 2397                    CHOL            0F144D8
## 2398                    CHOL            0F144D9
## 2399                    CHOL            0F144DB
## 2400                    CHOL            0F144Z3
## 2401                    CHOL            0F144Z4
## 2402                    CHOL            0F144Z5
## 2403                    CHOL            0F144Z6
## 2404                    CHOL            0F144Z7
## 2405                    CHOL            0F144Z8
## 2406                    CHOL            0F144Z9
## 2407                    CHOL            0F144ZB
## 2408                    CHOL            0F540ZZ
## 2409                    CHOL            0F544ZZ
## 2410                    CHOL            0F9400Z
## 2411                    CHOL            0F940ZZ
## 2412                    CHOL            0F9440Z
## 2413                    CHOL            0F944ZZ
## 2414                    CHOL            0FB40ZZ
## 2415                    CHOL            0FB44ZZ
## 2416                    CHOL            0FC40ZZ
## 2417                    CHOL            0FC44ZZ
## 2418                    CHOL            0FF40ZZ
## 2419                    CHOL            0FF44ZZ
## 2420                    CHOL            0FH402Z
## 2421                    CHOL            0FH403Z
## 2422                    CHOL            0FH40YZ
## 2423                    CHOL            0FH442Z
## 2424                    CHOL            0FH443Z
## 2425                    CHOL            0FH44YZ
## 2426                    CHOL            0FM40ZZ
## 2427                    CHOL            0FM44ZZ
## 2428                    CHOL            0FP400Z
## 2429                    CHOL            0FP402Z
## 2430                    CHOL            0FP403Z
## 2431                    CHOL            0FP40DZ
```

```
## 2432                    CHOL            0FP40YZ
## 2433                    CHOL            0FP440Z
## 2434                    CHOL            0FP442Z
## 2435                    CHOL            0FP443Z
## 2436                    CHOL            0FP44DZ
## 2437                    CHOL            0FP44YZ
## 2438                    CHOL            0FQ40ZZ
## 2439                    CHOL            0FQ44ZZ
## 2440                    CHOL            0FS40ZZ
## 2441                    CHOL            0FS44ZZ
## 2442                    CHOL            0FT40ZZ
## 2443                    CHOL            0FT44ZZ
## 2444                    CHOL            0FW400Z
## 2445                    CHOL            0FW402Z
## 2446                    CHOL            0FW403Z
## 2447                    CHOL            0FW40DZ
## 2448                    CHOL            0FW40YZ
## 2449                    CHOL            0FW440Z
## 2450                    CHOL            0FW442Z
## 2451                    CHOL            0FW443Z
## 2452                    CHOL            0FW44DZ
## 2453                    CHOL            0FW44YZ
## 2454                    COLO            0D1607L
## 2455                    COLO            0D160JL
## 2456                    COLO            0D160KL
## 2457                    COLO            0D160ZL
## 2458                    COLO            0D1647L
## 2459                    COLO            0D164JL
## 2460                    COLO            0D164KL
## 2461                    COLO            0D164ZL
## 2462                    COLO            0D1807H
## 2463                    COLO            0D1807K
## 2464                    COLO            0D1807L
## 2465                    COLO            0D1807M
## 2466                    COLO            0D1807N
## 2467                    COLO            0D180JH
## 2468                    COLO            0D180JK
## 2469                    COLO            0D180JL
## 2470                    COLO            0D180JM
## 2471                    COLO            0D180JN
## 2472                    COLO            0D180KH
## 2473                    COLO            0D180KK
## 2474                    COLO            0D180KL
## 2475                    COLO            0D180KM
## 2476                    COLO            0D180KN
## 2477                    COLO            0D180ZH
## 2478                    COLO            0D180ZK
## 2479                    COLO            0D180ZL
## 2480                    COLO            0D180ZM
## 2481                    COLO            0D180ZN
## 2482                    COLO            0D1847H
## 2483                    COLO            0D1847K
## 2484                    COLO            0D1847L
## 2485                    COLO            0D1847M
```

```
## 2486            COLO        0D1847N
## 2487            COLO        0D184JH
## 2488            COLO        0D184JK
## 2489            COLO        0D184JL
## 2490            COLO        0D184JM
## 2491            COLO        0D184JN
## 2492            COLO        0D184KH
## 2493            COLO        0D184KK
## 2494            COLO        0D184KL
## 2495            COLO        0D184KM
## 2496            COLO        0D184KN
## 2497            COLO        0D184ZH
## 2498            COLO        0D184ZK
## 2499            COLO        0D184ZL
## 2500            COLO        0D184ZM
## 2501            COLO        0D184ZN
## 2502            COLO        0D1907L
## 2503            COLO        0D190JL
## 2504            COLO        0D190KL
## 2505            COLO        0D190ZL
## 2506            COLO        0D1947L
## 2507            COLO        0D194JL
## 2508            COLO        0D194KL
## 2509            COLO        0D194ZL
## 2510            COLO        0D1A07H
## 2511            COLO        0D1A07K
## 2512            COLO        0D1A07L
## 2513            COLO        0D1A07M
## 2514            COLO        0D1A07N
## 2515            COLO        0D1A0JH
## 2516            COLO        0D1A0JK
## 2517            COLO        0D1A0JL
## 2518            COLO        0D1A0JM
## 2519            COLO        0D1A0JN
## 2520            COLO        0D1A0KH
## 2521            COLO        0D1A0KK
## 2522            COLO        0D1A0KL
## 2523            COLO        0D1A0KM
## 2524            COLO        0D1A0KN
## 2525            COLO        0D1A0ZH
## 2526            COLO        0D1A0ZK
## 2527            COLO        0D1A0ZL
## 2528            COLO        0D1A0ZM
## 2529            COLO        0D1A0ZN
## 2530            COLO        0D1A47H
## 2531            COLO        0D1A47K
## 2532            COLO        0D1A47L
## 2533            COLO        0D1A47M
## 2534            COLO        0D1A47N
## 2535            COLO        0D1A4JH
## 2536            COLO        0D1A4JK
## 2537            COLO        0D1A4JL
## 2538            COLO        0D1A4JM
## 2539            COLO        0D1A4JN
```

```
## 2540                    COLO         0D1A4KH
## 2541                    COLO         0D1A4KK
## 2542                    COLO         0D1A4KL
## 2543                    COLO         0D1A4KM
## 2544                    COLO         0D1A4KN
## 2545                    COLO         0D1A4ZH
## 2546                    COLO         0D1A4ZK
## 2547                    COLO         0D1A4ZL
## 2548                    COLO         0D1A4ZM
## 2549                    COLO         0D1A4ZN
## 2550                    COLO         0D1B07H
## 2551                    COLO         0D1B07K
## 2552                    COLO         0D1B07L
## 2553                    COLO         0D1B07M
## 2554                    COLO         0D1B07N
## 2555                    COLO         0D1B0JH
## 2556                    COLO         0D1B0JK
## 2557                    COLO         0D1B0JL
## 2558                    COLO         0D1B0JM
## 2559                    COLO         0D1B0JN
## 2560                    COLO         0D1B0KH
## 2561                    COLO         0D1B0KK
## 2562                    COLO         0D1B0KL
## 2563                    COLO         0D1B0KM
## 2564                    COLO         0D1B0KN
## 2565                    COLO         0D1B0ZH
## 2566                    COLO         0D1B0ZK
## 2567                    COLO         0D1B0ZL
## 2568                    COLO         0D1B0ZM
## 2569                    COLO         0D1B0ZN
## 2570                    COLO         0D1B47H
## 2571                    COLO         0D1B47K
## 2572                    COLO         0D1B47L
## 2573                    COLO         0D1B47M
## 2574                    COLO         0D1B47N
## 2575                    COLO         0D1B4JH
## 2576                    COLO         0D1B4JK
## 2577                    COLO         0D1B4JL
## 2578                    COLO         0D1B4JM
## 2579                    COLO         0D1B4JN
## 2580                    COLO         0D1B4KH
## 2581                    COLO         0D1B4KK
## 2582                    COLO         0D1B4KL
## 2583                    COLO         0D1B4KM
## 2584                    COLO         0D1B4KN
## 2585                    COLO         0D1B4ZH
## 2586                    COLO         0D1B4ZK
## 2587                    COLO         0D1B4ZL
## 2588                    COLO         0D1B4ZM
## 2589                    COLO         0D1B4ZN
## 2590                    COLO         0D1E074
## 2591                    COLO         0D1E07E
## 2592                    COLO         0D1E0J4
## 2593                    COLO         0D1E0JE
```

```
## 2594                    COLO          0D1E0K4
## 2595                    COLO          0D1E0KE
## 2596                    COLO          0D1E0Z4
## 2597                    COLO          0D1E0ZE
## 2598                    COLO          0D1E474
## 2599                    COLO          0D1E47E
## 2600                    COLO          0D1E4J4
## 2601                    COLO          0D1E4JE
## 2602                    COLO          0D1E4K4
## 2603                    COLO          0D1E4KE
## 2604                    COLO          0D1E4Z4
## 2605                    COLO          0D1E4ZE
## 2606                    COLO          0D1H074
## 2607                    COLO          0D1H07H
## 2608                    COLO          0D1H07K
## 2609                    COLO          0D1H07L
## 2610                    COLO          0D1H07M
## 2611                    COLO          0D1H07N
## 2612                    COLO          0D1H0J4
## 2613                    COLO          0D1H0JH
## 2614                    COLO          0D1H0JK
## 2615                    COLO          0D1H0JL
## 2616                    COLO          0D1H0JM
## 2617                    COLO          0D1H0JN
## 2618                    COLO          0D1H0K4
## 2619                    COLO          0D1H0KH
## 2620                    COLO          0D1H0KK
## 2621                    COLO          0D1H0KL
## 2622                    COLO          0D1H0KM
## 2623                    COLO          0D1H0KN
## 2624                    COLO          0D1H0Z4
## 2625                    COLO          0D1H0ZH
## 2626                    COLO          0D1H0ZK
## 2627                    COLO          0D1H0ZL
## 2628                    COLO          0D1H0ZM
## 2629                    COLO          0D1H0ZN
## 2630                    COLO          0D1H474
## 2631                    COLO          0D1H47H
## 2632                    COLO          0D1H47K
## 2633                    COLO          0D1H47L
## 2634                    COLO          0D1H47M
## 2635                    COLO          0D1H47N
## 2636                    COLO          0D1H4J4
## 2637                    COLO          0D1H4JH
## 2638                    COLO          0D1H4JK
## 2639                    COLO          0D1H4JL
## 2640                    COLO          0D1H4JM
## 2641                    COLO          0D1H4JN
## 2642                    COLO          0D1H4K4
## 2643                    COLO          0D1H4KH
## 2644                    COLO          0D1H4KK
## 2645                    COLO          0D1H4KL
## 2646                    COLO          0D1H4KM
## 2647                    COLO          0D1H4KN
```

```
## 2648                    COLO           OD1H4Z4
## 2649                    COLO           OD1H4ZH
## 2650                    COLO           OD1H4ZK
## 2651                    COLO           OD1H4ZL
## 2652                    COLO           OD1H4ZM
## 2653                    COLO           OD1H4ZN
## 2654                    COLO           OD1K074
## 2655                    COLO           OD1K07K
## 2656                    COLO           OD1K07L
## 2657                    COLO           OD1K07M
## 2658                    COLO           OD1K07N
## 2659                    COLO           OD1K0J4
## 2660                    COLO           OD1K0JK
## 2661                    COLO           OD1K0JL
## 2662                    COLO           OD1K0JM
## 2663                    COLO           OD1K0JN
## 2664                    COLO           OD1K0K4
## 2665                    COLO           OD1K0KK
## 2666                    COLO           OD1K0KL
## 2667                    COLO           OD1K0KM
## 2668                    COLO           OD1K0KN
## 2669                    COLO           OD1K0Z4
## 2670                    COLO           OD1K0ZK
## 2671                    COLO           OD1K0ZL
## 2672                    COLO           OD1K0ZM
## 2673                    COLO           OD1K0ZN
## 2674                    COLO           OD1K474
## 2675                    COLO           OD1K47K
## 2676                    COLO           OD1K47L
## 2677                    COLO           OD1K47M
## 2678                    COLO           OD1K47N
## 2679                    COLO           OD1K4J4
## 2680                    COLO           OD1K4JK
## 2681                    COLO           OD1K4JL
## 2682                    COLO           OD1K4JM
## 2683                    COLO           OD1K4JN
## 2684                    COLO           OD1K4K4
## 2685                    COLO           OD1K4KK
## 2686                    COLO           OD1K4KL
## 2687                    COLO           OD1K4KM
## 2688                    COLO           OD1K4KN
## 2689                    COLO           OD1K4Z4
## 2690                    COLO           OD1K4ZK
## 2691                    COLO           OD1K4ZL
## 2692                    COLO           OD1K4ZM
## 2693                    COLO           OD1K4ZN
## 2694                    COLO           OD1L074
## 2695                    COLO           OD1L07L
## 2696                    COLO           OD1L07M
## 2697                    COLO           OD1L07N
## 2698                    COLO           OD1L0J4
## 2699                    COLO           OD1L0JL
## 2700                    COLO           OD1L0JM
## 2701                    COLO           OD1L0JN
```

```
## 2702              COLO          OD1LOK4
## 2703              COLO          OD1LOKL
## 2704              COLO          OD1LOKM
## 2705              COLO          OD1LOKN
## 2706              COLO          OD1LOZ4
## 2707              COLO          OD1LOZL
## 2708              COLO          OD1LOZM
## 2709              COLO          OD1LOZN
## 2710              COLO          OD1L474
## 2711              COLO          OD1L47L
## 2712              COLO          OD1L47M
## 2713              COLO          OD1L47N
## 2714              COLO          OD1L4J4
## 2715              COLO          OD1L4JL
## 2716              COLO          OD1L4JM
## 2717              COLO          OD1L4JN
## 2718              COLO          OD1L4K4
## 2719              COLO          OD1L4KL
## 2720              COLO          OD1L4KM
## 2721              COLO          OD1L4KN
## 2722              COLO          OD1L4Z4
## 2723              COLO          OD1L4ZL
## 2724              COLO          OD1L4ZM
## 2725              COLO          OD1L4ZN
## 2726              COLO          OD1M074
## 2727              COLO          OD1M07M
## 2728              COLO          OD1M07N
## 2729              COLO          OD1M0J4
## 2730              COLO          OD1M0JM
## 2731              COLO          OD1M0JN
## 2732              COLO          OD1M0K4
## 2733              COLO          OD1M0KM
## 2734              COLO          OD1M0KN
## 2735              COLO          OD1M0Z4
## 2736              COLO          OD1M0ZM
## 2737              COLO          OD1M0ZN
## 2738              COLO          OD1M474
## 2739              COLO          OD1M47M
## 2740              COLO          OD1M47N
## 2741              COLO          OD1M4J4
## 2742              COLO          OD1M4JM
## 2743              COLO          OD1M4JN
## 2744              COLO          OD1M4K4
## 2745              COLO          OD1M4KM
## 2746              COLO          OD1M4KN
## 2747              COLO          OD1M4Z4
## 2748              COLO          OD1M4ZM
## 2749              COLO          OD1M4ZN
## 2750              COLO          OD1N074
## 2751              COLO          OD1N07N
## 2752              COLO          OD1N0J4
## 2753              COLO          OD1N0JN
## 2754              COLO          OD1N0K4
## 2755              COLO          OD1N0KN
```

```
## 2756                  COLO           OD1N0Z4
## 2757                  COLO           OD1N0ZN
## 2758                  COLO           OD1N474
## 2759                  COLO           OD1N47N
## 2760                  COLO           OD1N4J4
## 2761                  COLO           OD1N4JN
## 2762                  COLO           OD1N4K4
## 2763                  COLO           OD1N4KN
## 2764                  COLO           OD1N4Z4
## 2765                  COLO           OD1N4ZN
## 2766                  COLO           OD5C0ZZ
## 2767                  COLO           OD5C4ZZ
## 2768                  COLO           OD5E0ZZ
## 2769                  COLO           OD5E4ZZ
## 2770                  COLO           OD5F0ZZ
## 2771                  COLO           OD5F4ZZ
## 2772                  COLO           OD5G0ZZ
## 2773                  COLO           OD5G4ZZ
## 2774                  COLO           OD5H0ZZ
## 2775                  COLO           OD5H4ZZ
## 2776                  COLO           OD5K0ZZ
## 2777                  COLO           OD5K4ZZ
## 2778                  COLO           OD5L0ZZ
## 2779                  COLO           OD5L4ZZ
## 2780                  COLO           OD5M0ZZ
## 2781                  COLO           OD5M4ZZ
## 2782                  COLO           OD5N0ZZ
## 2783                  COLO           OD5N4ZZ
## 2784                  COLO           OD7C0DZ
## 2785                  COLO           OD7C0ZZ
## 2786                  COLO           OD7C4DZ
## 2787                  COLO           OD7C4ZZ
## 2788                  COLO           OD7E0DZ
## 2789                  COLO           OD7E0ZZ
## 2790                  COLO           OD7E4DZ
## 2791                  COLO           OD7E4ZZ
## 2792                  COLO           OD7F0DZ
## 2793                  COLO           OD7F0ZZ
## 2794                  COLO           OD7F4DZ
## 2795                  COLO           OD7F4ZZ
## 2796                  COLO           OD7G0DZ
## 2797                  COLO           OD7G0ZZ
## 2798                  COLO           OD7G4DZ
## 2799                  COLO           OD7G4ZZ
## 2800                  COLO           OD7H0DZ
## 2801                  COLO           OD7H0ZZ
## 2802                  COLO           OD7H4DZ
## 2803                  COLO           OD7H4ZZ
## 2804                  COLO           OD7K0DZ
## 2805                  COLO           OD7K0ZZ
## 2806                  COLO           OD7K4DZ
## 2807                  COLO           OD7K4ZZ
## 2808                  COLO           OD7L0DZ
## 2809                  COLO           OD7L0ZZ
```

```
## 2810                   COLO          0D7L4DZ
## 2811                   COLO          0D7L4ZZ
## 2812                   COLO          0D7M0DZ
## 2813                   COLO          0D7M0ZZ
## 2814                   COLO          0D7M4DZ
## 2815                   COLO          0D7M4ZZ
## 2816                   COLO          0D7N0DZ
## 2817                   COLO          0D7N0ZZ
## 2818                   COLO          0D7N4DZ
## 2819                   COLO          0D7N4ZZ
## 2820                   COLO          0D9C00Z
## 2821                   COLO          0D9C0ZZ
## 2822                   COLO          0D9C40Z
## 2823                   COLO          0D9C4ZZ
## 2824                   COLO          0D9E00Z
## 2825                   COLO          0D9E0ZZ
## 2826                   COLO          0D9E40Z
## 2827                   COLO          0D9E4ZZ
## 2828                   COLO          0D9F00Z
## 2829                   COLO          0D9F0ZZ
## 2830                   COLO          0D9F40Z
## 2831                   COLO          0D9F4ZZ
## 2832                   COLO          0D9G00Z
## 2833                   COLO          0D9G0ZZ
## 2834                   COLO          0D9G40Z
## 2835                   COLO          0D9G4ZZ
## 2836                   COLO          0D9H00Z
## 2837                   COLO          0D9H0ZZ
## 2838                   COLO          0D9H40Z
## 2839                   COLO          0D9H4ZZ
## 2840                   COLO          0D9K00Z
## 2841                   COLO          0D9K0ZZ
## 2842                   COLO          0D9K40Z
## 2843                   COLO          0D9K4ZZ
## 2844                   COLO          0D9L00Z
## 2845                   COLO          0D9L0ZZ
## 2846                   COLO          0D9L40Z
## 2847                   COLO          0D9L4ZZ
## 2848                   COLO          0D9M00Z
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## 3713              FUSN         0RG00JJ
## 3714              FUSN         0RG00K0
## 3715              FUSN         0RG00K1
## 3716              FUSN         0RG00KJ
## 3717              FUSN         0RG0470
## 3718              FUSN         0RG0471
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## 3769                    FUSN        ORG24K0
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## 3773                    FUSN        ORG4071
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## 3777                    FUSN        ORG40J0
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## 3812                        FUSN           ORG64JJ
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## 3821                        FUSN           ORG70J0
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## 3823                        FUSN           ORG70JJ
## 3824                        FUSN           ORG70K0
## 3825                        FUSN           ORG70K1
## 3826                        FUSN           ORG70KJ
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## 3829                        FUSN           ORG747J
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## 3834                        FUSN           ORG74JJ
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## 3867                FUSN          ORGA0JJ
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## 3876                FUSN          ORGA4J0
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## 3878                FUSN          ORGA4JJ
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## 3888                FUSN          OSG00J1
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## 3922                      FUSN          0SG14JJ
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## 3931                      FUSN          0SG30J0
## 3932                      FUSN          0SG30J1
## 3933                      FUSN          0SG30JJ
## 3934                      FUSN          0SG30K0
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## 4009                    FX          0PSF0BZ
## 4010                    FX          0PSF0CZ
## 4011                    FX          0PSF0DZ
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## 4015                    FX          0PSG06Z
## 4016                    FX          0PSG0BZ
## 4017                    FX          0PSG0CZ
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## 4023                    FX          0PSH0BZ
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## 4028                    FX          0PSJ05Z
## 4029                    FX          0PSJ06Z
## 4030                    FX          0PSJ0BZ
## 4031                    FX          0PSJ0CZ
## 4032                    FX          0PSJ0DZ
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## 4036                    FX          0PSK06Z
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## 4038                    FX          0PSK0CZ
## 4039                    FX          0PSK0DZ
## 4040                    FX          0PSK0ZZ
## 4041                    FX          0PSL04Z
## 4042                    FX          0PSL05Z
## 4043                    FX          0PSL06Z
## 4044                    FX          0PSL0BZ
## 4045                    FX          0PSL0CZ
## 4046                    FX          0PSL0DZ
## 4047                    FX          0PSL0ZZ
## 4048                    FX          0QS604Z
## 4049                    FX          0QS605Z
## 4050                    FX          0QS606Z
## 4051                    FX          0QS60BZ
```

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## 4052                    FX          0QS60CZ
## 4053                    FX          0QS60DZ
## 4054                    FX          0QS60ZZ
## 4055                    FX          0QS704Z
## 4056                    FX          0QS705Z
## 4057                    FX          0QS706Z
## 4058                    FX          0QS70BZ
## 4059                    FX          0QS70CZ
## 4060                    FX          0QS70DZ
## 4061                    FX          0QS70ZZ
## 4062                    FX          0QS804Z
## 4063                    FX          0QS805Z
## 4064                    FX          0QS806Z
## 4065                    FX          0QS80BZ
## 4066                    FX          0QS80CZ
## 4067                    FX          0QS80DZ
## 4068                    FX          0QS80ZZ
## 4069                    FX          0QS904Z
## 4070                    FX          0QS905Z
## 4071                    FX          0QS906Z
## 4072                    FX          0QS90BZ
## 4073                    FX          0QS90CZ
## 4074                    FX          0QS90DZ
## 4075                    FX          0QS90ZZ
## 4076                    FX          0QSB04Z
## 4077                    FX          0QSB05Z
## 4078                    FX          0QSB06Z
## 4079                    FX          0QSB0BZ
## 4080                    FX          0QSB0CZ
## 4081                    FX          0QSB0DZ
## 4082                    FX          0QSB0ZZ
## 4083                    FX          0QSC04Z
## 4084                    FX          0QSC05Z
## 4085                    FX          0QSC06Z
## 4086                    FX          0QSC0BZ
## 4087                    FX          0QSC0CZ
## 4088                    FX          0QSC0DZ
## 4089                    FX          0QSC0ZZ
## 4090                    FX          0QSG04Z
## 4091                    FX          0QSG05Z
## 4092                    FX          0QSG06Z
## 4093                    FX          0QSG0BZ
## 4094                    FX          0QSG0CZ
## 4095                    FX          0QSG0DZ
## 4096                    FX          0QSG0ZZ
## 4097                    FX          0QSH04Z
## 4098                    FX          0QSH05Z
## 4099                    FX          0QSH06Z
## 4100                    FX          0QSH0BZ
## 4101                    FX          0QSH0CZ
## 4102                    FX          0QSH0DZ
## 4103                    FX          0QSH0ZZ
## 4104                    FX          0QSJ04Z
## 4105                    FX          0QSJ05Z
```

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## 4106                 FX           0QSJ06Z
## 4107                 FX           0QSJ0BZ
## 4108                 FX           0QSJ0CZ
## 4109                 FX           0QSJ0DZ
## 4110                 FX           0QSJ0ZZ
## 4111                 FX           0QSK04Z
## 4112                 FX           0QSK05Z
## 4113                 FX           0QSK06Z
## 4114                 FX           0QSK0BZ
## 4115                 FX           0QSK0CZ
## 4116                 FX           0QSK0DZ
## 4117                 FX           0QSK0ZZ
## 4118               GAST           0D11076
## 4119               GAST           0D110J6
## 4120               GAST           0D110K6
## 4121               GAST           0D110Z6
## 4122               GAST           0D11476
## 4123               GAST           0D114J6
## 4124               GAST           0D114K6
## 4125               GAST           0D114Z6
## 4126               GAST           0D12076
## 4127               GAST           0D120J6
## 4128               GAST           0D120K6
## 4129               GAST           0D120Z6
## 4130               GAST           0D12476
## 4131               GAST           0D124J6
## 4132               GAST           0D124K6
## 4133               GAST           0D124Z6
## 4134               GAST           0D13076
## 4135               GAST           0D130J6
## 4136               GAST           0D130K6
## 4137               GAST           0D130Z6
## 4138               GAST           0D13476
## 4139               GAST           0D134J6
## 4140               GAST           0D134K6
## 4141               GAST           0D134Z6
## 4142               GAST           0D15076
## 4143               GAST           0D150J6
## 4144               GAST           0D150K6
## 4145               GAST           0D150Z6
## 4146               GAST           0D15476
## 4147               GAST           0D154J6
## 4148               GAST           0D154K6
## 4149               GAST           0D154Z6
## 4150               GAST           0D560ZZ
## 4151               GAST           0D564ZZ
## 4152               GAST           0D570ZZ
## 4153               GAST           0D574ZZ
## 4154               GAST           0D760DZ
## 4155               GAST           0D760ZZ
## 4156               GAST           0D764DZ
## 4157               GAST           0D764ZZ
## 4158               GAST           0D770DZ
## 4159               GAST           0D770ZZ
```

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## 4160                GAST          0D774DZ
## 4161                GAST          0D774ZZ
## 4162                GAST          0D9400Z
## 4163                GAST          0D940ZZ
## 4164                GAST          0D9440Z
## 4165                GAST          0D944ZZ
## 4166                GAST          0D9600Z
## 4167                GAST          0D960ZZ
## 4168                GAST          0D9640Z
## 4169                GAST          0D964ZZ
## 4170                GAST          0D9700Z
## 4171                GAST          0D970ZZ
## 4172                GAST          0D9740Z
## 4173                GAST          0D974ZZ
## 4174                GAST          0DB40ZZ
## 4175                GAST          0DB44ZZ
## 4176                GAST          0DB60Z3
## 4177                GAST          0DB60ZZ
## 4178                GAST          0DB64Z3
## 4179                GAST          0DB64ZZ
## 4180                GAST          0DB70ZZ
## 4181                GAST          0DB74ZZ
## 4182                GAST          0DC40ZZ
## 4183                GAST          0DC44ZZ
## 4184                GAST          0DC60ZZ
## 4185                GAST          0DC64ZZ
## 4186                GAST          0DC70ZZ
## 4187                GAST          0DC74ZZ
## 4188                GAST          0DD64ZX
## 4189                GAST          0DF60ZZ
## 4190                GAST          0DF64ZZ
## 4191                GAST          0DH602Z
## 4192                GAST          0DH603Z
## 4193                GAST          0DH60DZ
## 4194                GAST          0DH60MZ
## 4195                GAST          0DH60UZ
## 4196                GAST          0DH60YZ
## 4197                GAST          0DH642Z
## 4198                GAST          0DH643Z
## 4199                GAST          0DH64DZ
## 4200                GAST          0DH64MZ
## 4201                GAST          0DH64UZ
## 4202                GAST          0DH64YZ
## 4203                GAST          0DL60CZ
## 4204                GAST          0DL60DZ
## 4205                GAST          0DL60ZZ
## 4206                GAST          0DL64CZ
## 4207                GAST          0DL64DZ
## 4208                GAST          0DL64ZZ
## 4209                GAST          0DL70CZ
## 4210                GAST          0DL70DZ
## 4211                GAST          0DL70ZZ
## 4212                GAST          0DL74CZ
## 4213                GAST          0DL74DZ
```

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## 4214                    GAST          0DL74ZZ
## 4215                    GAST          0DM60ZZ
## 4216                    GAST          0DM64ZZ
## 4217                    GAST          0DP600Z
## 4218                    GAST          0DP602Z
## 4219                    GAST          0DP603Z
## 4220                    GAST          0DP607Z
## 4221                    GAST          0DP60CZ
## 4222                    GAST          0DP60DZ
## 4223                    GAST          0DP60JZ
## 4224                    GAST          0DP60KZ
## 4225                    GAST          0DP60MZ
## 4226                    GAST          0DP60UZ
## 4227                    GAST          0DP60YZ
## 4228                    GAST          0DP640Z
## 4229                    GAST          0DP642Z
## 4230                    GAST          0DP643Z
## 4231                    GAST          0DP647Z
## 4232                    GAST          0DP64CZ
## 4233                    GAST          0DP64DZ
## 4234                    GAST          0DP64JZ
## 4235                    GAST          0DP64KZ
## 4236                    GAST          0DP64MZ
## 4237                    GAST          0DP64UZ
## 4238                    GAST          0DP64YZ
## 4239                    GAST          0DQ40ZZ
## 4240                    GAST          0DQ44ZZ
## 4241                    GAST          0DQ60ZZ
## 4242                    GAST          0DQ64ZZ
## 4243                    GAST          0DQ70ZZ
## 4244                    GAST          0DQ74ZZ
## 4245                    GAST          0DS60ZZ
## 4246                    GAST          0DS64ZZ
## 4247                    GAST          0DT40ZZ
## 4248                    GAST          0DT44ZZ
## 4249                    GAST          0DT60ZZ
## 4250                    GAST          0DT64ZZ
## 4251                    GAST          0DT70ZZ
## 4252                    GAST          0DT74ZZ
## 4253                    GAST          0DU407Z
## 4254                    GAST          0DU40JZ
## 4255                    GAST          0DU40KZ
## 4256                    GAST          0DU447Z
## 4257                    GAST          0DU44JZ
## 4258                    GAST          0DU44KZ
## 4259                    GAST          0DU607Z
## 4260                    GAST          0DU60JZ
## 4261                    GAST          0DU60KZ
## 4262                    GAST          0DU647Z
## 4263                    GAST          0DU64JZ
## 4264                    GAST          0DU64KZ
## 4265                    GAST          0DU707Z
## 4266                    GAST          0DU70JZ
## 4267                    GAST          0DU70KZ
```

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## 4268                    GAST              0DU747Z
## 4269                    GAST              0DU74JZ
## 4270                    GAST              0DU74KZ
## 4271                    GAST              0DV40CZ
## 4272                    GAST              0DV40DZ
## 4273                    GAST              0DV40ZZ
## 4274                    GAST              0DV44CZ
## 4275                    GAST              0DV44DZ
## 4276                    GAST              0DV44ZZ
## 4277                    GAST              0DV60CZ
## 4278                    GAST              0DV60DZ
## 4279                    GAST              0DV60ZZ
## 4280                    GAST              0DV64CZ
## 4281                    GAST              0DV64DZ
## 4282                    GAST              0DV64ZZ
## 4283                    GAST              0DV70CZ
## 4284                    GAST              0DV70DZ
## 4285                    GAST              0DV70ZZ
## 4286                    GAST              0DV74CZ
## 4287                    GAST              0DV74DZ
## 4288                    GAST              0DV74ZZ
## 4289                    GAST              0DW600Z
## 4290                    GAST              0DW602Z
## 4291                    GAST              0DW603Z
## 4292                    GAST              0DW607Z
## 4293                    GAST              0DW60CZ
## 4294                    GAST              0DW60DZ
## 4295                    GAST              0DW60JZ
## 4296                    GAST              0DW60KZ
## 4297                    GAST              0DW60MZ
## 4298                    GAST              0DW60UZ
## 4299                    GAST              0DW60YZ
## 4300                    GAST              0DW640Z
## 4301                    GAST              0DW642Z
## 4302                    GAST              0DW643Z
## 4303                    GAST              0DW647Z
## 4304                    GAST              0DW64CZ
## 4305                    GAST              0DW64DZ
## 4306                    GAST              0DW64JZ
## 4307                    GAST              0DW64KZ
## 4308                    GAST              0DW64MZ
## 4309                    GAST              0DW64UZ
## 4310                    GAST              0DW64YZ
## 4311                    HER               0WQF0ZZ
## 4312                    HER               0WQF4ZZ
## 4313                    HER               0WUF07Z
## 4314                    HER               0WUF0JZ
## 4315                    HER               0WUF0KZ
## 4316                    HER               0WUF47Z
## 4317                    HER               0WUF4JZ
## 4318                    HER               0WUF4KZ
## 4319                    HER               0YQ50ZZ
## 4320                    HER               0YQ54ZZ
## 4321                    HER               0YQ60ZZ
```

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## 4322                    HER            0YQ64ZZ
## 4323                    HER            0YQ70ZZ
## 4324                    HER            0YQ74ZZ
## 4325                    HER            0YQ80ZZ
## 4326                    HER            0YQ84ZZ
## 4327                    HER            0YQA0ZZ
## 4328                    HER            0YQA4ZZ
## 4329                    HER            0YQE0ZZ
## 4330                    HER            0YQE4ZZ
## 4331                    HER            0YU507Z
## 4332                    HER            0YU50JZ
## 4333                    HER            0YU50KZ
## 4334                    HER            0YU547Z
## 4335                    HER            0YU54JZ
## 4336                    HER            0YU54KZ
## 4337                    HER            0YU607Z
## 4338                    HER            0YU60JZ
## 4339                    HER            0YU60KZ
## 4340                    HER            0YU647Z
## 4341                    HER            0YU64JZ
## 4342                    HER            0YU64KZ
## 4343                    HER            0YU707Z
## 4344                    HER            0YU70JZ
## 4345                    HER            0YU70KZ
## 4346                    HER            0YU747Z
## 4347                    HER            0YU74JZ
## 4348                    HER            0YU74KZ
## 4349                    HER            0YU807Z
## 4350                    HER            0YU80JZ
## 4351                    HER            0YU80KZ
## 4352                    HER            0YU847Z
## 4353                    HER            0YU84JZ
## 4354                    HER            0YU84KZ
## 4355                    HER            0YUA07Z
## 4356                    HER            0YUA0JZ
## 4357                    HER            0YUA0KZ
## 4358                    HER            0YUA47Z
## 4359                    HER            0YUA4JZ
## 4360                    HER            0YUA4KZ
## 4361                    HER            0YUE07Z
## 4362                    HER            0YUE0JZ
## 4363                    HER            0YUE0KZ
## 4364                    HER            0YUE47Z
## 4365                    HER            0YUE4JZ
## 4366                    HER            0YUE4KZ
## 4367                    HPRO           0SP908Z
## 4368                    HPRO           0SP909Z
## 4369                    HPRO           0SP90BZ
## 4370                    HPRO           0SP90EZ
## 4371                    HPRO           0SP90JZ
## 4372                    HPRO           0SPA0JZ
## 4373                    HPRO           0SPB08Z
## 4374                    HPRO           0SPB09Z
## 4375                    HPRO           0SPB0BZ
```

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## 4376                    HPRO          0SPB0EZ
## 4377                    HPRO          0SPB0JZ
## 4378                    HPRO          0SPE0JZ
## 4379                    HPRO          0SPR0JZ
## 4380                    HPRO          0SPS0JZ
## 4381                    HPRO          0SR9019
## 4382                    HPRO          0SR901A
## 4383                    HPRO          0SR901Z
## 4384                    HPRO          0SR9029
## 4385                    HPRO          0SR902A
## 4386                    HPRO          0SR902Z
## 4387                    HPRO          0SR9039
## 4388                    HPRO          0SR903A
## 4389                    HPRO          0SR903Z
## 4390                    HPRO          0SR9049
## 4391                    HPRO          0SR904A
## 4392                    HPRO          0SR904Z
## 4393                    HPRO          0SR9069
## 4394                    HPRO          0SR906A
## 4395                    HPRO          0SR906Z
## 4396                    HPRO          0SR90J9
## 4397                    HPRO          0SR90JA
## 4398                    HPRO          0SR90JZ
## 4399                    HPRO          0SRA009
## 4400                    HPRO          0SRA00A
## 4401                    HPRO          0SRA00Z
## 4402                    HPRO          0SRA019
## 4403                    HPRO          0SRA01A
## 4404                    HPRO          0SRA01Z
## 4405                    HPRO          0SRA039
## 4406                    HPRO          0SRA03A
## 4407                    HPRO          0SRA03Z
## 4408                    HPRO          0SRA0J9
## 4409                    HPRO          0SRA0JA
## 4410                    HPRO          0SRA0JZ
## 4411                    HPRO          0SRB019
## 4412                    HPRO          0SRB01A
## 4413                    HPRO          0SRB01Z
## 4414                    HPRO          0SRB029
## 4415                    HPRO          0SRB02A
## 4416                    HPRO          0SRB02Z
## 4417                    HPRO          0SRB039
## 4418                    HPRO          0SRB03A
## 4419                    HPRO          0SRB03Z
## 4420                    HPRO          0SRB049
## 4421                    HPRO          0SRB04A
## 4422                    HPRO          0SRB04Z
## 4423                    HPRO          0SRB069
## 4424                    HPRO          0SRB06A
## 4425                    HPRO          0SRB06Z
## 4426                    HPRO          0SRB0J9
## 4427                    HPRO          0SRB0JA
## 4428                    HPRO          0SRB0JZ
## 4429                    HPRO          0SRE009
```

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## 4430                    HPRO         0SRE00A
## 4431                    HPRO         0SRE00Z
## 4432                    HPRO         0SRE019
## 4433                    HPRO         0SRE01A
## 4434                    HPRO         0SRE01Z
## 4435                    HPRO         0SRE039
## 4436                    HPRO         0SRE03A
## 4437                    HPRO         0SRE03Z
## 4438                    HPRO         0SRE0J9
## 4439                    HPRO         0SRE0JA
## 4440                    HPRO         0SRE0JZ
## 4441                    HPRO         0SRR019
## 4442                    HPRO         0SRR01A
## 4443                    HPRO         0SRR01Z
## 4444                    HPRO         0SRR039
## 4445                    HPRO         0SRR03A
## 4446                    HPRO         0SRR03Z
## 4447                    HPRO         0SRR0J9
## 4448                    HPRO         0SRR0JA
## 4449                    HPRO         0SRR0JZ
## 4450                    HPRO         0SRS019
## 4451                    HPRO         0SRS01A
## 4452                    HPRO         0SRS01Z
## 4453                    HPRO         0SRS039
## 4454                    HPRO         0SRS03A
## 4455                    HPRO         0SRS03Z
## 4456                    HPRO         0SRS0J9
## 4457                    HPRO         0SRS0JA
## 4458                    HPRO         0SRS0JZ
## 4459                    HPRO         0SU909Z
## 4460                    HPRO         0SU90BZ
## 4461                    HPRO         0SUA09Z
## 4462                    HPRO         0SUA0BZ
## 4463                    HPRO         0SUB09Z
## 4464                    HPRO         0SUB0BZ
## 4465                    HPRO         0SUE09Z
## 4466                    HPRO         0SUE0BZ
## 4467                    HPRO         0SUR09Z
## 4468                    HPRO         0SUR0BZ
## 4469                    HPRO         0SUS09Z
## 4470                    HPRO         0SUS0BZ
## 4471                    HPRO         0SW90BZ
## 4472                    HPRO         0SW90JZ
## 4473                    HPRO         0SWA0JZ
## 4474                    HPRO         0SWB0BZ
## 4475                    HPRO         0SWB0JZ
## 4476                    HPRO         0SWE0JZ
## 4477                    HPRO         0SWR0JZ
## 4478                    HPRO         0SWS0JZ
## 4479                    HTP          02YA0Z0
## 4480                    HTP          02YA0Z1
## 4481                    HTP          02YA0Z2
## 4482                    HYST         0UT90ZL
## 4483                    HYST         0UT90ZZ
```

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## 4484                    HYST           0UT94ZL
## 4485                    HYST           0UT94ZZ
## 4486                    HYST           0UT9FZL
## 4487                    HYST           0UT9FZZ
## 4488                    KPRO           0SPC08Z
## 4489                    KPRO           0SPC09Z
## 4490                    KPRO           0SPC0EZ
## 4491                    KPRO           0SPC0JC
## 4492                    KPRO           0SPC0JZ
## 4493                    KPRO           0SPC0LZ
## 4494                    KPRO           0SPC0MZ
## 4495                    KPRO           0SPC0NZ
## 4496                    KPRO           0SPD08Z
## 4497                    KPRO           0SPD09Z
## 4498                    KPRO           0SPD0EZ
## 4499                    KPRO           0SPD0JC
## 4500                    KPRO           0SPD0JZ
## 4501                    KPRO           0SPD0LZ
## 4502                    KPRO           0SPD0MZ
## 4503                    KPRO           0SPD0NZ
## 4504                    KPRO           0SPT0JZ
## 4505                    KPRO           0SPU0JZ
## 4506                    KPRO           0SPV0JZ
## 4507                    KPRO           0SPW0JZ
## 4508                    KPRO           0SRC069
## 4509                    KPRO           0SRC06A
## 4510                    KPRO           0SRC06Z
## 4511                    KPRO           0SRC0J9
## 4512                    KPRO           0SRC0JA
## 4513                    KPRO           0SRC0JZ
## 4514                    KPRO           0SRC0L9
## 4515                    KPRO           0SRC0LA
## 4516                    KPRO           0SRC0LZ
## 4517                    KPRO           0SRC0M9
## 4518                    KPRO           0SRC0MA
## 4519                    KPRO           0SRC0MZ
## 4520                    KPRO           0SRC0N9
## 4521                    KPRO           0SRC0NA
## 4522                    KPRO           0SRC0NZ
## 4523                    KPRO           0SRD069
## 4524                    KPRO           0SRD06A
## 4525                    KPRO           0SRD06Z
## 4526                    KPRO           0SRD0J9
## 4527                    KPRO           0SRD0JA
## 4528                    KPRO           0SRD0JZ
## 4529                    KPRO           0SRD0L9
## 4530                    KPRO           0SRD0LA
## 4531                    KPRO           0SRD0LZ
## 4532                    KPRO           0SRD0M9
## 4533                    KPRO           0SRD0MA
## 4534                    KPRO           0SRD0MZ
## 4535                    KPRO           0SRD0N9
## 4536                    KPRO           0SRD0NA
## 4537                    KPRO           0SRD0NZ
```

```
## 4538          KPRO          0SRT0J9
## 4539          KPRO          0SRT0JA
## 4540          KPRO          0SRT0JZ
## 4541          KPRO          0SRU0J9
## 4542          KPRO          0SRU0JA
## 4543          KPRO          0SRU0JZ
## 4544          KPRO          0SRV0J9
## 4545          KPRO          0SRV0JA
## 4546          KPRO          0SRV0JZ
## 4547          KPRO          0SRW0J9
## 4548          KPRO          0SRW0JA
## 4549          KPRO          0SRW0JZ
## 4550          KPRO          0SUC09C
## 4551          KPRO          0SUC09Z
## 4552          KPRO          0SUD09C
## 4553          KPRO          0SUD09Z
## 4554          KPRO          0SUT09Z
## 4555          KPRO          0SUU09Z
## 4556          KPRO          0SUV09Z
## 4557          KPRO          0SUW09Z
## 4558          KPRO          0SWC0JC
## 4559          KPRO          0SWC0JZ
## 4560          KPRO          0SWD0JC
## 4561          KPRO          0SWD0JZ
## 4562          KPRO          0SWT0JZ
## 4563          KPRO          0SWU0JZ
## 4564          KPRO          0SWV0JZ
## 4565          KPRO          0SWW0JZ
## 4566          KTP           0TY00Z0
## 4567          KTP           0TY00Z1
## 4568          KTP           0TY00Z2
## 4569          KTP           0TY10Z0
## 4570          KTP           0TY10Z1
## 4571          KTP           0TY10Z2
## 4572          LAM           005T0ZZ
## 4573          LAM           005T4ZZ
## 4574          LAM           005W0ZZ
## 4575          LAM           005W4ZZ
## 4576          LAM           005X0ZZ
## 4577          LAM           005X4ZZ
## 4578          LAM           005Y0ZZ
## 4579          LAM           005Y4ZZ
## 4580          LAM           008W0ZZ
## 4581          LAM           008W4ZZ
## 4582          LAM           008X0ZZ
## 4583          LAM           008X4ZZ
## 4584          LAM           008Y0ZZ
## 4585          LAM           008Y4ZZ
## 4586          LAM           009T00Z
## 4587          LAM           009T0ZZ
## 4588          LAM           009T40Z
## 4589          LAM           009T4ZZ
## 4590          LAM           009U00Z
## 4591          LAM           009U0ZZ
```

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## 4592                    LAM          009U40Z
## 4593                    LAM          009U4ZZ
## 4594                    LAM          009W00Z
## 4595                    LAM          009W0ZZ
## 4596                    LAM          009W40Z
## 4597                    LAM          009W4ZZ
## 4598                    LAM          009X00Z
## 4599                    LAM          009X0ZZ
## 4600                    LAM          009X40Z
## 4601                    LAM          009X4ZZ
## 4602                    LAM          009Y00Z
## 4603                    LAM          009Y0ZZ
## 4604                    LAM          009Y40Z
## 4605                    LAM          009Y4ZZ
## 4606                    LAM          00BT0ZZ
## 4607                    LAM          00BT4ZZ
## 4608                    LAM          00BW0ZZ
## 4609                    LAM          00BW4ZZ
## 4610                    LAM          00BX0ZZ
## 4611                    LAM          00BX4ZZ
## 4612                    LAM          00BY0ZZ
## 4613                    LAM          00BY4ZZ
## 4614                    LAM          00CT0ZZ
## 4615                    LAM          00CT4ZZ
## 4616                    LAM          00CU0ZZ
## 4617                    LAM          00CU4ZZ
## 4618                    LAM          00CW0ZZ
## 4619                    LAM          00CW4ZZ
## 4620                    LAM          00CX0ZZ
## 4621                    LAM          00CX4ZZ
## 4622                    LAM          00CY0ZZ
## 4623                    LAM          00CY4ZZ
## 4624                    LAM          00DT0ZZ
## 4625                    LAM          00DT4ZZ
## 4626                    LAM          00QT0ZZ
## 4627                    LAM          00QT4ZZ
## 4628                    LAM          00QW0ZZ
## 4629                    LAM          00QW4ZZ
## 4630                    LAM          00QX0ZZ
## 4631                    LAM          00QX4ZZ
## 4632                    LAM          00QY0ZZ
## 4633                    LAM          00QY4ZZ
## 4634                    LAM          00RT07Z
## 4635                    LAM          00RT0JZ
## 4636                    LAM          00RT0KZ
## 4637                    LAM          00RT47Z
## 4638                    LAM          00RT4JZ
## 4639                    LAM          00RT4KZ
## 4640                    LAM          00SW0ZZ
## 4641                    LAM          00SW4ZZ
## 4642                    LAM          00SX0ZZ
## 4643                    LAM          00SX4ZZ
## 4644                    LAM          00SY0ZZ
## 4645                    LAM          00SY4ZZ
```

```
## 4646                    LAM          00UT07Z
## 4647                    LAM          00UT0JZ
## 4648                    LAM          00UT0KZ
## 4649                    LAM          00UT47Z
## 4650                    LAM          00UT4JZ
## 4651                    LAM          00UT4KZ
## 4652                    LAM          00WU00Z
## 4653                    LAM          00WU02Z
## 4654                    LAM          00WU03Z
## 4655                    LAM          00WU0JZ
## 4656                    LAM          00WU0MZ
## 4657                    LAM          00WU0YZ
## 4658                    LAM          00WU40Z
## 4659                    LAM          00WU42Z
## 4660                    LAM          00WU43Z
## 4661                    LAM          00WU4JZ
## 4662                    LAM          00WU4MZ
## 4663                    LAM          00WU4YZ
## 4664                    LAM          00WV00Z
## 4665                    LAM          00WV02Z
## 4666                    LAM          00WV03Z
## 4667                    LAM          00WV07Z
## 4668                    LAM          00WV0JZ
## 4669                    LAM          00WV0KZ
## 4670                    LAM          00WV0MZ
## 4671                    LAM          00WV0YZ
## 4672                    LAM          00WV40Z
## 4673                    LAM          00WV42Z
## 4674                    LAM          00WV43Z
## 4675                    LAM          00WV47Z
## 4676                    LAM          00WV4JZ
## 4677                    LAM          00WV4KZ
## 4678                    LAM          00WV4MZ
## 4679                    LAM          00WV4YZ
## 4680                    LAM          01N10ZZ
## 4681                    LAM          01N14ZZ
## 4682                    LAM          01N80ZZ
## 4683                    LAM          01N84ZZ
## 4684                    LAM          01NB0ZZ
## 4685                    LAM          01NB4ZZ
## 4686                    LAM          0RT30ZZ
## 4687                    LAM          0RT50ZZ
## 4688                    LAM          0RT90ZZ
## 4689                    LAM          0RTB0ZZ
## 4690                    LAM          0ST20ZZ
## 4691                    LAM          0ST40ZZ
## 4692                    LAM          00JU0ZZ
## 4693                    LAM          00JU4ZZ
## 4694                    LAM          00JV0ZZ
## 4695                    LAM          00JV4ZZ
## 4696                    LAM          00NT0ZZ
## 4697                    LAM          00NT4ZZ
## 4698                    LAM          00NW0ZZ
## 4699                    LAM          00NW4ZZ
```

```
## 4700                    LAM          00NX0ZZ
## 4701                    LAM          00NX4ZZ
## 4702                    LAM          00NY0ZZ
## 4703                    LAM          00NY4ZZ
## 4704                    LTP          0FY00Z0
## 4705                    LTP          0FY00Z1
## 4706                    LTP          0FY00Z2
## 4707                    NECK         07T10ZZ
## 4708                    NECK         07T14ZZ
## 4709                    NECK         07T20ZZ
## 4710                    NECK         07T24ZZ
## 4711                    NECK         0B9100Z
## 4712                    NECK         0B910ZZ
## 4713                    NECK         0B9140Z
## 4714                    NECK         0B914ZZ
## 4715                    NECK         0BB10ZX
## 4716                    NECK         0BB10ZZ
## 4717                    NECK         0BB14ZX
## 4718                    NECK         0BB14ZZ
## 4719                    NECK         0BB20ZX
## 4720                    NECK         0BB20ZZ
## 4721                    NECK         0BB24ZX
## 4722                    NECK         0BB24ZZ
## 4723                    NECK         0BD14ZX
## 4724                    NECK         0BH102Z
## 4725                    NECK         0BH10DZ
## 4726                    NECK         0BH10YZ
## 4727                    NECK         0BH14DZ
## 4728                    NECK         0BH14YZ
## 4729                    NECK         0BR107Z
## 4730                    NECK         0BR10JZ
## 4731                    NECK         0BR10KZ
## 4732                    NECK         0BR147Z
## 4733                    NECK         0BR14JZ
## 4734                    NECK         0BR14KZ
## 4735                    NECK         0C5R0ZZ
## 4736                    NECK         0C5R4ZZ
## 4737                    NECK         0C5S0ZZ
## 4738                    NECK         0C5S4ZZ
## 4739                    NECK         0C5T0ZZ
## 4740                    NECK         0C5T4ZZ
## 4741                    NECK         0C5V0ZZ
## 4742                    NECK         0C5V4ZZ
## 4743                    NECK         0C9R00Z
## 4744                    NECK         0C9R0ZZ
## 4745                    NECK         0C9R40Z
## 4746                    NECK         0C9R4ZZ
## 4747                    NECK         0C9S00Z
## 4748                    NECK         0C9S0ZZ
## 4749                    NECK         0C9S40Z
## 4750                    NECK         0C9S4ZZ
## 4751                    NECK         0C9T00Z
## 4752                    NECK         0C9T0ZZ
## 4753                    NECK         0C9T40Z
```

```
## 4754                 NECK            0C9T4ZZ
## 4755                 NECK            0C9V00Z
## 4756                 NECK            0C9V0ZZ
## 4757                 NECK            0C9V40Z
## 4758                 NECK            0C9V4ZZ
## 4759                 NECK            0CBR0ZZ
## 4760                 NECK            0CBR4ZZ
## 4761                 NECK            0CBS0ZZ
## 4762                 NECK            0CBS4ZZ
## 4763                 NECK            0CBT0ZZ
## 4764                 NECK            0CBT4ZZ
## 4765                 NECK            0CBV0ZZ
## 4766                 NECK            0CBV4ZZ
## 4767                 NECK            0CHS0YZ
## 4768                 NECK            0CPS00Z
## 4769                 NECK            0CPS07Z
## 4770                 NECK            0CPS0DZ
## 4771                 NECK            0CPS0JZ
## 4772                 NECK            0CPS0KZ
## 4773                 NECK            0CPS0YZ
## 4774                 NECK            0CTR0ZZ
## 4775                 NECK            0CTR4ZZ
## 4776                 NECK            0CTS0ZZ
## 4777                 NECK            0CTS4ZZ
## 4778                 NECK            0CTT0ZZ
## 4779                 NECK            0CTT4ZZ
## 4780                 NECK            0CTV0ZZ
## 4781                 NECK            0CTV4ZZ
## 4782                 NECK            0CWS00Z
## 4783                 NECK            0CWS07Z
## 4784                 NECK            0CWS0DZ
## 4785                 NECK            0CWS0JZ
## 4786                 NECK            0CWS0KZ
## 4787                 NECK            0CWS0YZ
## 4788                 NECK            0WB60ZZ
## 4789                 NEPH            0T13073
## 4790                 NEPH            0T13074
## 4791                 NEPH            0T13076
## 4792                 NEPH            0T13077
## 4793                 NEPH            0T13078
## 4794                 NEPH            0T13079
## 4795                 NEPH            0T1307A
## 4796                 NEPH            0T1307B
## 4797                 NEPH            0T1307C
## 4798                 NEPH            0T1307D
## 4799                 NEPH            0T130J3
## 4800                 NEPH            0T130J4
## 4801                 NEPH            0T130J6
## 4802                 NEPH            0T130J7
## 4803                 NEPH            0T130J8
## 4804                 NEPH            0T130J9
## 4805                 NEPH            0T130JA
## 4806                 NEPH            0T130JB
## 4807                 NEPH            0T130JC
```

```
## 4808                         NEPH           0T130JD
## 4809                         NEPH           0T130K3
## 4810                         NEPH           0T130K4
## 4811                         NEPH           0T130K6
## 4812                         NEPH           0T130K7
## 4813                         NEPH           0T130K8
## 4814                         NEPH           0T130K9
## 4815                         NEPH           0T130KA
## 4816                         NEPH           0T130KB
## 4817                         NEPH           0T130KC
## 4818                         NEPH           0T130KD
## 4819                         NEPH           0T130Z3
## 4820                         NEPH           0T130Z4
## 4821                         NEPH           0T130Z6
## 4822                         NEPH           0T130Z7
## 4823                         NEPH           0T130Z8
## 4824                         NEPH           0T130Z9
## 4825                         NEPH           0T130ZA
## 4826                         NEPH           0T130ZB
## 4827                         NEPH           0T130ZC
## 4828                         NEPH           0T130ZD
## 4829                         NEPH           0T13473
## 4830                         NEPH           0T13474
## 4831                         NEPH           0T13476
## 4832                         NEPH           0T13477
## 4833                         NEPH           0T13478
## 4834                         NEPH           0T13479
## 4835                         NEPH           0T1347A
## 4836                         NEPH           0T1347B
## 4837                         NEPH           0T1347C
## 4838                         NEPH           0T1347D
## 4839                         NEPH           0T134J3
## 4840                         NEPH           0T134J4
## 4841                         NEPH           0T134J6
## 4842                         NEPH           0T134J7
## 4843                         NEPH           0T134J8
## 4844                         NEPH           0T134J9
## 4845                         NEPH           0T134JA
## 4846                         NEPH           0T134JB
## 4847                         NEPH           0T134JC
## 4848                         NEPH           0T134JD
## 4849                         NEPH           0T134K3
## 4850                         NEPH           0T134K4
## 4851                         NEPH           0T134K6
## 4852                         NEPH           0T134K7
## 4853                         NEPH           0T134K8
## 4854                         NEPH           0T134K9
## 4855                         NEPH           0T134KA
## 4856                         NEPH           0T134KB
## 4857                         NEPH           0T134KC
## 4858                         NEPH           0T134KD
## 4859                         NEPH           0T134Z3
## 4860                         NEPH           0T134Z4
## 4861                         NEPH           0T134Z6
```

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## 4862                    NEPH         0T134Z7
## 4863                    NEPH         0T134Z8
## 4864                    NEPH         0T134Z9
## 4865                    NEPH         0T134ZA
## 4866                    NEPH         0T134ZB
## 4867                    NEPH         0T134ZC
## 4868                    NEPH         0T134ZD
## 4869                    NEPH         0T14073
## 4870                    NEPH         0T14074
## 4871                    NEPH         0T14076
## 4872                    NEPH         0T14077
## 4873                    NEPH         0T14078
## 4874                    NEPH         0T14079
## 4875                    NEPH         0T1407A
## 4876                    NEPH         0T1407B
## 4877                    NEPH         0T1407C
## 4878                    NEPH         0T1407D
## 4879                    NEPH         0T140J3
## 4880                    NEPH         0T140J4
## 4881                    NEPH         0T140J6
## 4882                    NEPH         0T140J7
## 4883                    NEPH         0T140J8
## 4884                    NEPH         0T140J9
## 4885                    NEPH         0T140JA
## 4886                    NEPH         0T140JB
## 4887                    NEPH         0T140JC
## 4888                    NEPH         0T140JD
## 4889                    NEPH         0T140K3
## 4890                    NEPH         0T140K4
## 4891                    NEPH         0T140K6
## 4892                    NEPH         0T140K7
## 4893                    NEPH         0T140K8
## 4894                    NEPH         0T140K9
## 4895                    NEPH         0T140KA
## 4896                    NEPH         0T140KB
## 4897                    NEPH         0T140KC
## 4898                    NEPH         0T140KD
## 4899                    NEPH         0T140Z3
## 4900                    NEPH         0T140Z4
## 4901                    NEPH         0T140Z6
## 4902                    NEPH         0T140Z7
## 4903                    NEPH         0T140Z8
## 4904                    NEPH         0T140Z9
## 4905                    NEPH         0T140ZA
## 4906                    NEPH         0T140ZB
## 4907                    NEPH         0T140ZC
## 4908                    NEPH         0T140ZD
## 4909                    NEPH         0T14473
## 4910                    NEPH         0T14474
## 4911                    NEPH         0T14476
## 4912                    NEPH         0T14477
## 4913                    NEPH         0T14478
## 4914                    NEPH         0T14479
## 4915                    NEPH         0T1447A
```

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## 4916                         NEPH            0T1447B
## 4917                         NEPH            0T1447C
## 4918                         NEPH            0T1447D
## 4919                         NEPH            0T144J3
## 4920                         NEPH            0T144J4
## 4921                         NEPH            0T144J6
## 4922                         NEPH            0T144J7
## 4923                         NEPH            0T144J8
## 4924                         NEPH            0T144J9
## 4925                         NEPH            0T144JA
## 4926                         NEPH            0T144JB
## 4927                         NEPH            0T144JC
## 4928                         NEPH            0T144JD
## 4929                         NEPH            0T144K3
## 4930                         NEPH            0T144K4
## 4931                         NEPH            0T144K6
## 4932                         NEPH            0T144K7
## 4933                         NEPH            0T144K8
## 4934                         NEPH            0T144K9
## 4935                         NEPH            0T144KA
## 4936                         NEPH            0T144KB
## 4937                         NEPH            0T144KC
## 4938                         NEPH            0T144KD
## 4939                         NEPH            0T144Z3
## 4940                         NEPH            0T144Z4
## 4941                         NEPH            0T144Z6
## 4942                         NEPH            0T144Z7
## 4943                         NEPH            0T144Z8
## 4944                         NEPH            0T144Z9
## 4945                         NEPH            0T144ZA
## 4946                         NEPH            0T144ZB
## 4947                         NEPH            0T144ZC
## 4948                         NEPH            0T144ZD
## 4949                         NEPH            0T500ZZ
## 4950                         NEPH            0T504ZZ
## 4951                         NEPH            0T510ZZ
## 4952                         NEPH            0T514ZZ
## 4953                         NEPH            0T530ZZ
## 4954                         NEPH            0T534ZZ
## 4955                         NEPH            0T540ZZ
## 4956                         NEPH            0T544ZZ
## 4957                         NEPH            0T730DZ
## 4958                         NEPH            0T730ZZ
## 4959                         NEPH            0T734DZ
## 4960                         NEPH            0T734ZZ
## 4961                         NEPH            0T740DZ
## 4962                         NEPH            0T740ZZ
## 4963                         NEPH            0T744DZ
## 4964                         NEPH            0T744ZZ
## 4965                         NEPH            0T9000Z
## 4966                         NEPH            0T900ZX
## 4967                         NEPH            0T900ZZ
## 4968                         NEPH            0T9040Z
## 4969                         NEPH            0T904ZZ
```

```
## 4970                     NEPH            0T9100Z
## 4971                     NEPH            0T910ZX
## 4972                     NEPH            0T910ZZ
## 4973                     NEPH            0T9140Z
## 4974                     NEPH            0T914ZZ
## 4975                     NEPH            0T9300Z
## 4976                     NEPH            0T930ZX
## 4977                     NEPH            0T930ZZ
## 4978                     NEPH            0T9340Z
## 4979                     NEPH            0T934ZZ
## 4980                     NEPH            0T9400Z
## 4981                     NEPH            0T940ZX
## 4982                     NEPH            0T940ZZ
## 4983                     NEPH            0T9440Z
## 4984                     NEPH            0T944ZZ
## 4985                     NEPH            0TB00ZX
## 4986                     NEPH            0TB00ZZ
## 4987                     NEPH            0TB04ZX
## 4988                     NEPH            0TB04ZZ
## 4989                     NEPH            0TB10ZX
## 4990                     NEPH            0TB10ZZ
## 4991                     NEPH            0TB14ZX
## 4992                     NEPH            0TB14ZZ
## 4993                     NEPH            0TB30ZX
## 4994                     NEPH            0TB30ZZ
## 4995                     NEPH            0TB34ZX
## 4996                     NEPH            0TB34ZZ
## 4997                     NEPH            0TB40ZX
## 4998                     NEPH            0TB40ZZ
## 4999                     NEPH            0TB44ZX
## 5000                     NEPH            0TB44ZZ
## 5001                     NEPH            0TC00ZZ
## 5002                     NEPH            0TC04ZZ
## 5003                     NEPH            0TC10ZZ
## 5004                     NEPH            0TC14ZZ
## 5005                     NEPH            0TC30ZZ
## 5006                     NEPH            0TC34ZZ
## 5007                     NEPH            0TC40ZZ
## 5008                     NEPH            0TC44ZZ
## 5009                     NEPH            0TD00ZZ
## 5010                     NEPH            0TD04ZZ
## 5011                     NEPH            0TD10ZZ
## 5012                     NEPH            0TD14ZZ
## 5013                     NEPH            0TF30ZZ
## 5014                     NEPH            0TF34ZZ
## 5015                     NEPH            0TF40ZZ
## 5016                     NEPH            0TF44ZZ
## 5017                     NEPH            0TH50YZ
## 5018                     NEPH            0TH54YZ
## 5019                     NEPH            0TP500Z
## 5020                     NEPH            0TP502Z
## 5021                     NEPH            0TP503Z
## 5022                     NEPH            0TP507Z
## 5023                     NEPH            0TP50CZ
```

```
## 5024                    NEPH            0TP50DZ
## 5025                    NEPH            0TP50JZ
## 5026                    NEPH            0TP50KZ
## 5027                    NEPH            0TP50YZ
## 5028                    NEPH            0TP540Z
## 5029                    NEPH            0TP542Z
## 5030                    NEPH            0TP543Z
## 5031                    NEPH            0TP547Z
## 5032                    NEPH            0TP54CZ
## 5033                    NEPH            0TP54DZ
## 5034                    NEPH            0TP54JZ
## 5035                    NEPH            0TP54KZ
## 5036                    NEPH            0TP54YZ
## 5037                    NEPH            0TT00ZZ
## 5038                    NEPH            0TT04ZZ
## 5039                    NEPH            0TT10ZZ
## 5040                    NEPH            0TT14ZZ
## 5041                    NEPH            0TT20ZZ
## 5042                    NEPH            0TT24ZZ
## 5043                    NEPH            0TT30ZZ
## 5044                    NEPH            0TT34ZZ
## 5045                    NEPH            0TT40ZZ
## 5046                    NEPH            0TT44ZZ
## 5047                    NEPH            0TW50YZ
## 5048                    NEPH            0TW54YZ
## 5049                    OVRY            0U500ZZ
## 5050                    OVRY            0U504ZZ
## 5051                    OVRY            0U510ZZ
## 5052                    OVRY            0U514ZZ
## 5053                    OVRY            0U520ZZ
## 5054                    OVRY            0U524ZZ
## 5055                    OVRY            0U800ZZ
## 5056                    OVRY            0U804ZZ
## 5057                    OVRY            0U810ZZ
## 5058                    OVRY            0U814ZZ
## 5059                    OVRY            0U820ZZ
## 5060                    OVRY            0U824ZZ
## 5061                    OVRY            0U9000Z
## 5062                    OVRY            0U900ZX
## 5063                    OVRY            0U900ZZ
## 5064                    OVRY            0U9040Z
## 5065                    OVRY            0U904ZX
## 5066                    OVRY            0U904ZZ
## 5067                    OVRY            0U9100Z
## 5068                    OVRY            0U910ZX
## 5069                    OVRY            0U910ZZ
## 5070                    OVRY            0U9140Z
## 5071                    OVRY            0U914ZX
## 5072                    OVRY            0U914ZZ
## 5073                    OVRY            0U9200Z
## 5074                    OVRY            0U920ZX
## 5075                    OVRY            0U920ZZ
## 5076                    OVRY            0U9240Z
## 5077                    OVRY            0U924ZX
```

```
## 5078                    OVRY              0U924ZZ
## 5079                    OVRY              0UB00ZX
## 5080                    OVRY              0UB00ZZ
## 5081                    OVRY              0UB04ZX
## 5082                    OVRY              0UB04ZZ
## 5083                    OVRY              0UB10ZX
## 5084                    OVRY              0UB10ZZ
## 5085                    OVRY              0UB14ZX
## 5086                    OVRY              0UB14ZZ
## 5087                    OVRY              0UB20ZX
## 5088                    OVRY              0UB20ZZ
## 5089                    OVRY              0UB24ZX
## 5090                    OVRY              0UB24ZZ
## 5091                    OVRY              0UC00ZZ
## 5092                    OVRY              0UC04ZZ
## 5093                    OVRY              0UC10ZZ
## 5094                    OVRY              0UC14ZZ
## 5095                    OVRY              0UC20ZZ
## 5096                    OVRY              0UC24ZZ
## 5097                    OVRY              0UH30YZ
## 5098                    OVRY              0UH34YZ
## 5099                    OVRY              0UM00ZZ
## 5100                    OVRY              0UM04ZZ
## 5101                    OVRY              0UM10ZZ
## 5102                    OVRY              0UM14ZZ
## 5103                    OVRY              0UM20ZZ
## 5104                    OVRY              0UM24ZZ
## 5105                    OVRY              0UN00ZZ
## 5106                    OVRY              0UN04ZZ
## 5107                    OVRY              0UN10ZZ
## 5108                    OVRY              0UN14ZZ
## 5109                    OVRY              0UN20ZZ
## 5110                    OVRY              0UN24ZZ
## 5111                    OVRY              0UP30YZ
## 5112                    OVRY              0UP34YZ
## 5113                    OVRY              0UQ00ZZ
## 5114                    OVRY              0UQ04ZZ
## 5115                    OVRY              0UQ10ZZ
## 5116                    OVRY              0UQ14ZZ
## 5117                    OVRY              0UQ20ZZ
## 5118                    OVRY              0UQ24ZZ
## 5119                    OVRY              0US00ZZ
## 5120                    OVRY              0US04ZZ
## 5121                    OVRY              0US10ZZ
## 5122                    OVRY              0US14ZZ
## 5123                    OVRY              0US20ZZ
## 5124                    OVRY              0US24ZZ
## 5125                    OVRY              0UT00ZZ
## 5126                    OVRY              0UT04ZZ
## 5127                    OVRY              0UT0FZZ
## 5128                    OVRY              0UT10ZZ
## 5129                    OVRY              0UT14ZZ
## 5130                    OVRY              0UT1FZZ
## 5131                    OVRY              0UT20ZZ
```

```
## 5132                     OVRY            OUT24ZZ
## 5133                     OVRY            OUT2FZZ
## 5134                     OVRY            OUW30YZ
## 5135                     OVRY            OUW34YZ
## 5136                     OVRY            OUY00Z0
## 5137                     OVRY            OUY00Z1
## 5138                     OVRY            OUY00Z2
## 5139                     OVRY            OUY10Z0
## 5140                     OVRY            OUY10Z1
## 5141                     OVRY            OUY10Z2
## 5142                     PACE            02H40JZ
## 5143                     PACE            02H40KZ
## 5144                     PACE            02H40MZ
## 5145                     PACE            02H40NZ
## 5146                     PACE            02H44JZ
## 5147                     PACE            02H44KZ
## 5148                     PACE            02H44MZ
## 5149                     PACE            02H44NZ
## 5150                     PACE            02H60JZ
## 5151                     PACE            02H60KZ
## 5152                     PACE            02H60MZ
## 5153                     PACE            02H60NZ
## 5154                     PACE            02H64JZ
## 5155                     PACE            02H64KZ
## 5156                     PACE            02H64MZ
## 5157                     PACE            02H64NZ
## 5158                     PACE            02H70JZ
## 5159                     PACE            02H70KZ
## 5160                     PACE            02H70MZ
## 5161                     PACE            02H70NZ
## 5162                     PACE            02H74JZ
## 5163                     PACE            02H74KZ
## 5164                     PACE            02H74MZ
## 5165                     PACE            02H74NZ
## 5166                     PACE            02HK0JZ
## 5167                     PACE            02HK0KZ
## 5168                     PACE            02HK0MZ
## 5169                     PACE            02HK0NZ
## 5170                     PACE            02HK4JZ
## 5171                     PACE            02HK4KZ
## 5172                     PACE            02HK4MZ
## 5173                     PACE            02HK4NZ
## 5174                     PACE            02HL0JZ
## 5175                     PACE            02HL0KZ
## 5176                     PACE            02HL0MZ
## 5177                     PACE            02HL0NZ
## 5178                     PACE            02HL4JZ
## 5179                     PACE            02HL4KZ
## 5180                     PACE            02HL4MZ
## 5181                     PACE            02HL4NZ
## 5182                     PACE            02HN0JZ
## 5183                     PACE            02HN0KZ
## 5184                     PACE            02HN0MZ
## 5185                     PACE            02HN4JZ
```

```
## 5186                    PACE        02HN4KZ
## 5187                    PACE        02HN4MZ
## 5188                    PACE        02PA0MZ
## 5189                    PACE        02PA0NZ
## 5190                    PACE        02PA4MZ
## 5191                    PACE        02PA4NZ
## 5192                    PACE        02WA0MZ
## 5193                    PACE        02WA0NZ
## 5194                    PACE        02WA4MZ
## 5195                    PACE        02WA4NZ
## 5196                    PACE        0JH604Z
## 5197                    PACE        0JH605Z
## 5198                    PACE        0JH606Z
## 5199                    PACE        0JH607Z
## 5200                    PACE        0JH608Z
## 5201                    PACE        0JH609Z
## 5202                    PACE        0JH60AZ
## 5203                    PACE        0JH60FZ
## 5204                    PACE        0JH60PZ
## 5205                    PACE        0JH804Z
## 5206                    PACE        0JH805Z
## 5207                    PACE        0JH806Z
## 5208                    PACE        0JH807Z
## 5209                    PACE        0JH808Z
## 5210                    PACE        0JH809Z
## 5211                    PACE        0JH80AZ
## 5212                    PACE        0JH80PZ
## 5213                    PACE        0JPT0FZ
## 5214                    PACE        0JPT0PZ
## 5215                    PACE        0JWT0FZ
## 5216                    PACE        0JWT0PZ
## 5217                    PRST        0V9000Z
## 5218                    PRST        0V900ZZ
## 5219                    PRST        0V9040Z
## 5220                    PRST        0V904ZZ
## 5221                    PRST        0VB00ZZ
## 5222                    PRST        0VB04ZZ
## 5223                    PRST        0VT00ZZ
## 5224                    PRST        0VT04ZZ
## 5225                    PVBY        021P08A
## 5226                    PVBY        021P08B
## 5227                    PVBY        021P08D
## 5228                    PVBY        021P09A
## 5229                    PVBY        021P09B
## 5230                    PVBY        021P09D
## 5231                    PVBY        021P0AA
## 5232                    PVBY        021P0AB
## 5233                    PVBY        021P0AD
## 5234                    PVBY        021P0JA
## 5235                    PVBY        021P0JB
## 5236                    PVBY        021P0JD
## 5237                    PVBY        021P0KA
## 5238                    PVBY        021P0KB
## 5239                    PVBY        021P0KD
```

99

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## 5240                    PVBY         021P0ZA
## 5241                    PVBY         021P0ZB
## 5242                    PVBY         021P0ZD
## 5243                    PVBY         021P48A
## 5244                    PVBY         021P48B
## 5245                    PVBY         021P48D
## 5246                    PVBY         021P49A
## 5247                    PVBY         021P49B
## 5248                    PVBY         021P49D
## 5249                    PVBY         021P4AA
## 5250                    PVBY         021P4AB
## 5251                    PVBY         021P4AD
## 5252                    PVBY         021P4JA
## 5253                    PVBY         021P4JB
## 5254                    PVBY         021P4JD
## 5255                    PVBY         021P4KA
## 5256                    PVBY         021P4KB
## 5257                    PVBY         021P4KD
## 5258                    PVBY         021P4ZA
## 5259                    PVBY         021P4ZB
## 5260                    PVBY         021P4ZD
## 5261                    PVBY         021Q08A
## 5262                    PVBY         021Q08B
## 5263                    PVBY         021Q08D
## 5264                    PVBY         021Q09A
## 5265                    PVBY         021Q09B
## 5266                    PVBY         021Q09D
## 5267                    PVBY         021Q0AA
## 5268                    PVBY         021Q0AB
## 5269                    PVBY         021Q0AD
## 5270                    PVBY         021Q0JA
## 5271                    PVBY         021Q0JB
## 5272                    PVBY         021Q0JD
## 5273                    PVBY         021Q0KA
## 5274                    PVBY         021Q0KB
## 5275                    PVBY         021Q0KD
## 5276                    PVBY         021Q0ZA
## 5277                    PVBY         021Q0ZB
## 5278                    PVBY         021Q0ZD
## 5279                    PVBY         021Q48A
## 5280                    PVBY         021Q48B
## 5281                    PVBY         021Q48D
## 5282                    PVBY         021Q49A
## 5283                    PVBY         021Q49B
## 5284                    PVBY         021Q49D
## 5285                    PVBY         021Q4AA
## 5286                    PVBY         021Q4AB
## 5287                    PVBY         021Q4AD
## 5288                    PVBY         021Q4JA
## 5289                    PVBY         021Q4JB
## 5290                    PVBY         021Q4JD
## 5291                    PVBY         021Q4KA
## 5292                    PVBY         021Q4KB
## 5293                    PVBY         021Q4KD
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## 5294                      PVBY          021Q4ZA
## 5295                      PVBY          021Q4ZB
## 5296                      PVBY          021Q4ZD
## 5297                      PVBY          021R08A
## 5298                      PVBY          021R08B
## 5299                      PVBY          021R08D
## 5300                      PVBY          021R09A
## 5301                      PVBY          021R09B
## 5302                      PVBY          021R09D
## 5303                      PVBY          021R0AA
## 5304                      PVBY          021R0AB
## 5305                      PVBY          021R0AD
## 5306                      PVBY          021R0JA
## 5307                      PVBY          021R0JB
## 5308                      PVBY          021R0JD
## 5309                      PVBY          021R0KA
## 5310                      PVBY          021R0KB
## 5311                      PVBY          021R0KD
## 5312                      PVBY          021R0ZA
## 5313                      PVBY          021R0ZB
## 5314                      PVBY          021R0ZD
## 5315                      PVBY          021R48A
## 5316                      PVBY          021R48B
## 5317                      PVBY          021R48D
## 5318                      PVBY          021R49A
## 5319                      PVBY          021R49B
## 5320                      PVBY          021R49D
## 5321                      PVBY          021R4AA
## 5322                      PVBY          021R4AB
## 5323                      PVBY          021R4AD
## 5324                      PVBY          021R4JA
## 5325                      PVBY          021R4JB
## 5326                      PVBY          021R4JD
## 5327                      PVBY          021R4KA
## 5328                      PVBY          021R4KB
## 5329                      PVBY          021R4KD
## 5330                      PVBY          021R4ZA
## 5331                      PVBY          021R4ZB
## 5332                      PVBY          021R4ZD
## 5333                      PVBY          021V08P
## 5334                      PVBY          021V08Q
## 5335                      PVBY          021V08R
## 5336                      PVBY          021V08S
## 5337                      PVBY          021V08T
## 5338                      PVBY          021V08U
## 5339                      PVBY          021V09P
## 5340                      PVBY          021V09Q
## 5341                      PVBY          021V09R
## 5342                      PVBY          021V09S
## 5343                      PVBY          021V09T
## 5344                      PVBY          021V09U
## 5345                      PVBY          021V0AP
## 5346                      PVBY          021V0AQ
## 5347                      PVBY          021V0AR
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## 5348                    PVBY         021V0AS
## 5349                    PVBY         021V0AT
## 5350                    PVBY         021V0AU
## 5351                    PVBY         021V0JP
## 5352                    PVBY         021V0JQ
## 5353                    PVBY         021V0JR
## 5354                    PVBY         021V0JS
## 5355                    PVBY         021V0JT
## 5356                    PVBY         021V0JU
## 5357                    PVBY         021V0KP
## 5358                    PVBY         021V0KQ
## 5359                    PVBY         021V0KR
## 5360                    PVBY         021V0KS
## 5361                    PVBY         021V0KT
## 5362                    PVBY         021V0KU
## 5363                    PVBY         021V0ZP
## 5364                    PVBY         021V0ZQ
## 5365                    PVBY         021V0ZR
## 5366                    PVBY         021V0ZS
## 5367                    PVBY         021V0ZT
## 5368                    PVBY         021V0ZU
## 5369                    PVBY         021V48P
## 5370                    PVBY         021V48Q
## 5371                    PVBY         021V48R
## 5372                    PVBY         021V48S
## 5373                    PVBY         021V48T
## 5374                    PVBY         021V48U
## 5375                    PVBY         021V49P
## 5376                    PVBY         021V49Q
## 5377                    PVBY         021V49R
## 5378                    PVBY         021V49S
## 5379                    PVBY         021V49T
## 5380                    PVBY         021V49U
## 5381                    PVBY         021V4AP
## 5382                    PVBY         021V4AQ
## 5383                    PVBY         021V4AR
## 5384                    PVBY         021V4AS
## 5385                    PVBY         021V4AT
## 5386                    PVBY         021V4AU
## 5387                    PVBY         021V4JP
## 5388                    PVBY         021V4JQ
## 5389                    PVBY         021V4JR
## 5390                    PVBY         021V4JS
## 5391                    PVBY         021V4JT
## 5392                    PVBY         021V4JU
## 5393                    PVBY         021V4KP
## 5394                    PVBY         021V4KQ
## 5395                    PVBY         021V4KR
## 5396                    PVBY         021V4KS
## 5397                    PVBY         021V4KT
## 5398                    PVBY         021V4KU
## 5399                    PVBY         021V4ZP
## 5400                    PVBY         021V4ZQ
## 5401                    PVBY         021V4ZR
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## 5402                     PVBY            021V4ZS
## 5403                     PVBY            021V4ZT
## 5404                     PVBY            021V4ZU
## 5405                     PVBY            021W08A
## 5406                     PVBY            021W08B
## 5407                     PVBY            021W08D
## 5408                     PVBY            021W08F
## 5409                     PVBY            021W08G
## 5410                     PVBY            021W08H
## 5411                     PVBY            021W08P
## 5412                     PVBY            021W08Q
## 5413                     PVBY            021W08R
## 5414                     PVBY            021W08V
## 5415                     PVBY            021W09A
## 5416                     PVBY            021W09B
## 5417                     PVBY            021W09D
## 5418                     PVBY            021W09F
## 5419                     PVBY            021W09G
## 5420                     PVBY            021W09H
## 5421                     PVBY            021W09P
## 5422                     PVBY            021W09Q
## 5423                     PVBY            021W09R
## 5424                     PVBY            021W09V
## 5425                     PVBY            021W0AA
## 5426                     PVBY            021W0AB
## 5427                     PVBY            021W0AD
## 5428                     PVBY            021W0AF
## 5429                     PVBY            021W0AG
## 5430                     PVBY            021W0AH
## 5431                     PVBY            021W0AP
## 5432                     PVBY            021W0AQ
## 5433                     PVBY            021W0AR
## 5434                     PVBY            021W0AV
## 5435                     PVBY            021W0JA
## 5436                     PVBY            021W0JB
## 5437                     PVBY            021W0JD
## 5438                     PVBY            021W0JF
## 5439                     PVBY            021W0JG
## 5440                     PVBY            021W0JH
## 5441                     PVBY            021W0JP
## 5442                     PVBY            021W0JQ
## 5443                     PVBY            021W0JR
## 5444                     PVBY            021W0JV
## 5445                     PVBY            021W0KA
## 5446                     PVBY            021W0KB
## 5447                     PVBY            021W0KD
## 5448                     PVBY            021W0KF
## 5449                     PVBY            021W0KG
## 5450                     PVBY            021W0KH
## 5451                     PVBY            021W0KP
## 5452                     PVBY            021W0KQ
## 5453                     PVBY            021W0KR
## 5454                     PVBY            021W0KV
## 5455                     PVBY            021W0ZA
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## 5456                    PVBY           021W0ZB
## 5457                    PVBY           021W0ZD
## 5458                    PVBY           021W0ZP
## 5459                    PVBY           021W0ZQ
## 5460                    PVBY           021W0ZR
## 5461                    PVBY           021W48A
## 5462                    PVBY           021W48B
## 5463                    PVBY           021W48D
## 5464                    PVBY           021W48P
## 5465                    PVBY           021W48Q
## 5466                    PVBY           021W48R
## 5467                    PVBY           021W49A
## 5468                    PVBY           021W49B
## 5469                    PVBY           021W49D
## 5470                    PVBY           021W49P
## 5471                    PVBY           021W49Q
## 5472                    PVBY           021W49R
## 5473                    PVBY           021W4AA
## 5474                    PVBY           021W4AB
## 5475                    PVBY           021W4AD
## 5476                    PVBY           021W4AP
## 5477                    PVBY           021W4AQ
## 5478                    PVBY           021W4AR
## 5479                    PVBY           021W4JA
## 5480                    PVBY           021W4JB
## 5481                    PVBY           021W4JD
## 5482                    PVBY           021W4JP
## 5483                    PVBY           021W4JQ
## 5484                    PVBY           021W4JR
## 5485                    PVBY           021W4KA
## 5486                    PVBY           021W4KB
## 5487                    PVBY           021W4KD
## 5488                    PVBY           021W4KP
## 5489                    PVBY           021W4KQ
## 5490                    PVBY           021W4KR
## 5491                    PVBY           021W4ZA
## 5492                    PVBY           021W4ZB
## 5493                    PVBY           021W4ZD
## 5494                    PVBY           021W4ZP
## 5495                    PVBY           021W4ZQ
## 5496                    PVBY           021W4ZR
## 5497                    PVBY           021X08A
## 5498                    PVBY           021X08B
## 5499                    PVBY           021X08D
## 5500                    PVBY           021X08P
## 5501                    PVBY           021X08Q
## 5502                    PVBY           021X08R
## 5503                    PVBY           021X09A
## 5504                    PVBY           021X09B
## 5505                    PVBY           021X09D
## 5506                    PVBY           021X09P
## 5507                    PVBY           021X09Q
## 5508                    PVBY           021X09R
## 5509                    PVBY           021X0AA
```

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## 5510                     PVBY          021X0AB
## 5511                     PVBY          021X0AD
## 5512                     PVBY          021X0AP
## 5513                     PVBY          021X0AQ
## 5514                     PVBY          021X0AR
## 5515                     PVBY          021X0JA
## 5516                     PVBY          021X0JB
## 5517                     PVBY          021X0JD
## 5518                     PVBY          021X0JP
## 5519                     PVBY          021X0JQ
## 5520                     PVBY          021X0JR
## 5521                     PVBY          021X0KA
## 5522                     PVBY          021X0KB
## 5523                     PVBY          021X0KD
## 5524                     PVBY          021X0KP
## 5525                     PVBY          021X0KQ
## 5526                     PVBY          021X0KR
## 5527                     PVBY          021X0ZA
## 5528                     PVBY          021X0ZB
## 5529                     PVBY          021X0ZD
## 5530                     PVBY          021X0ZP
## 5531                     PVBY          021X0ZQ
## 5532                     PVBY          021X0ZR
## 5533                     PVBY          021X48A
## 5534                     PVBY          021X48B
## 5535                     PVBY          021X48D
## 5536                     PVBY          021X48P
## 5537                     PVBY          021X48Q
## 5538                     PVBY          021X48R
## 5539                     PVBY          021X49A
## 5540                     PVBY          021X49B
## 5541                     PVBY          021X49D
## 5542                     PVBY          021X49P
## 5543                     PVBY          021X49Q
## 5544                     PVBY          021X49R
## 5545                     PVBY          021X4AA
## 5546                     PVBY          021X4AB
## 5547                     PVBY          021X4AD
## 5548                     PVBY          021X4AP
## 5549                     PVBY          021X4AQ
## 5550                     PVBY          021X4AR
## 5551                     PVBY          021X4JA
## 5552                     PVBY          021X4JB
## 5553                     PVBY          021X4JD
## 5554                     PVBY          021X4JP
## 5555                     PVBY          021X4JQ
## 5556                     PVBY          021X4JR
## 5557                     PVBY          021X4KA
## 5558                     PVBY          021X4KB
## 5559                     PVBY          021X4KD
## 5560                     PVBY          021X4KP
## 5561                     PVBY          021X4KQ
## 5562                     PVBY          021X4KR
## 5563                     PVBY          021X4ZA
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## 5564                    PVBY        021X4ZB
## 5565                    PVBY        021X4ZD
## 5566                    PVBY        021X4ZP
## 5567                    PVBY        021X4ZQ
## 5568                    PVBY        021X4ZR
## 5569                    PVBY        0312090
## 5570                    PVBY        0312091
## 5571                    PVBY        0312092
## 5572                    PVBY        0312093
## 5573                    PVBY        0312094
## 5574                    PVBY        0312095
## 5575                    PVBY        0312096
## 5576                    PVBY        0312097
## 5577                    PVBY        0312098
## 5578                    PVBY        0312099
## 5579                    PVBY        031209B
## 5580                    PVBY        031209C
## 5581                    PVBY        031209J
## 5582                    PVBY        031209K
## 5583                    PVBY        03120A0
## 5584                    PVBY        03120A1
## 5585                    PVBY        03120A2
## 5586                    PVBY        03120A3
## 5587                    PVBY        03120A4
## 5588                    PVBY        03120A5
## 5589                    PVBY        03120A6
## 5590                    PVBY        03120A7
## 5591                    PVBY        03120A8
## 5592                    PVBY        03120A9
## 5593                    PVBY        03120AB
## 5594                    PVBY        03120AC
## 5595                    PVBY        03120AJ
## 5596                    PVBY        03120AK
## 5597                    PVBY        03120J0
## 5598                    PVBY        03120J1
## 5599                    PVBY        03120J2
## 5600                    PVBY        03120J3
## 5601                    PVBY        03120J4
## 5602                    PVBY        03120J5
## 5603                    PVBY        03120J6
## 5604                    PVBY        03120J7
## 5605                    PVBY        03120J8
## 5606                    PVBY        03120J9
## 5607                    PVBY        03120JB
## 5608                    PVBY        03120JC
## 5609                    PVBY        03120JJ
## 5610                    PVBY        03120JK
## 5611                    PVBY        03120K0
## 5612                    PVBY        03120K1
## 5613                    PVBY        03120K2
## 5614                    PVBY        03120K3
## 5615                    PVBY        03120K4
## 5616                    PVBY        03120K5
## 5617                    PVBY        03120K6
```

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## 5618                      PVBY           03120K7
## 5619                      PVBY           03120K8
## 5620                      PVBY           03120K9
## 5621                      PVBY           03120KB
## 5622                      PVBY           03120KC
## 5623                      PVBY           03120KJ
## 5624                      PVBY           03120KK
## 5625                      PVBY           03120Z0
## 5626                      PVBY           03120Z1
## 5627                      PVBY           03120Z2
## 5628                      PVBY           03120Z3
## 5629                      PVBY           03120Z4
## 5630                      PVBY           03120Z5
## 5631                      PVBY           03120Z6
## 5632                      PVBY           03120Z7
## 5633                      PVBY           03120Z8
## 5634                      PVBY           03120Z9
## 5635                      PVBY           03120ZB
## 5636                      PVBY           03120ZC
## 5637                      PVBY           03120ZJ
## 5638                      PVBY           03120ZK
## 5639                      PVBY           0313090
## 5640                      PVBY           0313091
## 5641                      PVBY           0313092
## 5642                      PVBY           0313093
## 5643                      PVBY           0313094
## 5644                      PVBY           0313095
## 5645                      PVBY           0313096
## 5646                      PVBY           0313097
## 5647                      PVBY           0313098
## 5648                      PVBY           0313099
## 5649                      PVBY           031309B
## 5650                      PVBY           031309C
## 5651                      PVBY           031309J
## 5652                      PVBY           031309K
## 5653                      PVBY           031309M
## 5654                      PVBY           031309N
## 5655                      PVBY           03130A0
## 5656                      PVBY           03130A1
## 5657                      PVBY           03130A2
## 5658                      PVBY           03130A3
## 5659                      PVBY           03130A4
## 5660                      PVBY           03130A5
## 5661                      PVBY           03130A6
## 5662                      PVBY           03130A7
## 5663                      PVBY           03130A8
## 5664                      PVBY           03130A9
## 5665                      PVBY           03130AB
## 5666                      PVBY           03130AC
## 5667                      PVBY           03130AJ
## 5668                      PVBY           03130AK
## 5669                      PVBY           03130AM
## 5670                      PVBY           03130AN
## 5671                      PVBY           03130J0
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## 5672                    PVBY         03130J1
## 5673                    PVBY         03130J2
## 5674                    PVBY         03130J3
## 5675                    PVBY         03130J4
## 5676                    PVBY         03130J5
## 5677                    PVBY         03130J6
## 5678                    PVBY         03130J7
## 5679                    PVBY         03130J8
## 5680                    PVBY         03130J9
## 5681                    PVBY         03130JB
## 5682                    PVBY         03130JC
## 5683                    PVBY         03130JJ
## 5684                    PVBY         03130JK
## 5685                    PVBY         03130JM
## 5686                    PVBY         03130JN
## 5687                    PVBY         03130K0
## 5688                    PVBY         03130K1
## 5689                    PVBY         03130K2
## 5690                    PVBY         03130K3
## 5691                    PVBY         03130K4
## 5692                    PVBY         03130K5
## 5693                    PVBY         03130K6
## 5694                    PVBY         03130K7
## 5695                    PVBY         03130K8
## 5696                    PVBY         03130K9
## 5697                    PVBY         03130KB
## 5698                    PVBY         03130KC
## 5699                    PVBY         03130KJ
## 5700                    PVBY         03130KK
## 5701                    PVBY         03130KM
## 5702                    PVBY         03130KN
## 5703                    PVBY         03130Z0
## 5704                    PVBY         03130Z1
## 5705                    PVBY         03130Z2
## 5706                    PVBY         03130Z3
## 5707                    PVBY         03130Z4
## 5708                    PVBY         03130Z5
## 5709                    PVBY         03130Z6
## 5710                    PVBY         03130Z7
## 5711                    PVBY         03130Z8
## 5712                    PVBY         03130Z9
## 5713                    PVBY         03130ZB
## 5714                    PVBY         03130ZC
## 5715                    PVBY         03130ZJ
## 5716                    PVBY         03130ZK
## 5717                    PVBY         03130ZM
## 5718                    PVBY         03130ZN
## 5719                    PVBY         0314090
## 5720                    PVBY         0314091
## 5721                    PVBY         0314092
## 5722                    PVBY         0314093
## 5723                    PVBY         0314094
## 5724                    PVBY         0314095
## 5725                    PVBY         0314096
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## 5726                    PVBY           0314097
## 5727                    PVBY           0314098
## 5728                    PVBY           0314099
## 5729                    PVBY           031409B
## 5730                    PVBY           031409C
## 5731                    PVBY           031409J
## 5732                    PVBY           031409K
## 5733                    PVBY           031409M
## 5734                    PVBY           031409N
## 5735                    PVBY           03140A0
## 5736                    PVBY           03140A1
## 5737                    PVBY           03140A2
## 5738                    PVBY           03140A3
## 5739                    PVBY           03140A4
## 5740                    PVBY           03140A5
## 5741                    PVBY           03140A6
## 5742                    PVBY           03140A7
## 5743                    PVBY           03140A8
## 5744                    PVBY           03140A9
## 5745                    PVBY           03140AB
## 5746                    PVBY           03140AC
## 5747                    PVBY           03140AJ
## 5748                    PVBY           03140AK
## 5749                    PVBY           03140AM
## 5750                    PVBY           03140AN
## 5751                    PVBY           03140J0
## 5752                    PVBY           03140J1
## 5753                    PVBY           03140J2
## 5754                    PVBY           03140J3
## 5755                    PVBY           03140J4
## 5756                    PVBY           03140J5
## 5757                    PVBY           03140J6
## 5758                    PVBY           03140J7
## 5759                    PVBY           03140J8
## 5760                    PVBY           03140J9
## 5761                    PVBY           03140JB
## 5762                    PVBY           03140JC
## 5763                    PVBY           03140JJ
## 5764                    PVBY           03140JK
## 5765                    PVBY           03140JM
## 5766                    PVBY           03140JN
## 5767                    PVBY           03140K0
## 5768                    PVBY           03140K1
## 5769                    PVBY           03140K2
## 5770                    PVBY           03140K3
## 5771                    PVBY           03140K4
## 5772                    PVBY           03140K5
## 5773                    PVBY           03140K6
## 5774                    PVBY           03140K7
## 5775                    PVBY           03140K8
## 5776                    PVBY           03140K9
## 5777                    PVBY           03140KB
## 5778                    PVBY           03140KC
## 5779                    PVBY           03140KJ
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## 5780                    PVBY           03140KK
## 5781                    PVBY           03140KM
## 5782                    PVBY           03140KN
## 5783                    PVBY           03140Z0
## 5784                    PVBY           03140Z1
## 5785                    PVBY           03140Z2
## 5786                    PVBY           03140Z3
## 5787                    PVBY           03140Z4
## 5788                    PVBY           03140Z5
## 5789                    PVBY           03140Z6
## 5790                    PVBY           03140Z7
## 5791                    PVBY           03140Z8
## 5792                    PVBY           03140Z9
## 5793                    PVBY           03140ZB
## 5794                    PVBY           03140ZC
## 5795                    PVBY           03140ZJ
## 5796                    PVBY           03140ZK
## 5797                    PVBY           03140ZM
## 5798                    PVBY           03140ZN
## 5799                    PVBY           0315090
## 5800                    PVBY           0315091
## 5801                    PVBY           0315092
## 5802                    PVBY           0315093
## 5803                    PVBY           0315094
## 5804                    PVBY           0315095
## 5805                    PVBY           0315096
## 5806                    PVBY           0315097
## 5807                    PVBY           0315098
## 5808                    PVBY           0315099
## 5809                    PVBY           031509B
## 5810                    PVBY           031509C
## 5811                    PVBY           031509J
## 5812                    PVBY           031509K
## 5813                    PVBY           031509T
## 5814                    PVBY           031509V
## 5815                    PVBY           03150A0
## 5816                    PVBY           03150A1
## 5817                    PVBY           03150A2
## 5818                    PVBY           03150A3
## 5819                    PVBY           03150A4
## 5820                    PVBY           03150A5
## 5821                    PVBY           03150A6
## 5822                    PVBY           03150A7
## 5823                    PVBY           03150A8
## 5824                    PVBY           03150A9
## 5825                    PVBY           03150AB
## 5826                    PVBY           03150AC
## 5827                    PVBY           03150AJ
## 5828                    PVBY           03150AK
## 5829                    PVBY           03150AT
## 5830                    PVBY           03150AV
## 5831                    PVBY           03150J0
## 5832                    PVBY           03150J1
## 5833                    PVBY           03150J2
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## 5834                     PVBY        03150J3
## 5835                     PVBY        03150J4
## 5836                     PVBY        03150J5
## 5837                     PVBY        03150J6
## 5838                     PVBY        03150J7
## 5839                     PVBY        03150J8
## 5840                     PVBY        03150J9
## 5841                     PVBY        03150JB
## 5842                     PVBY        03150JC
## 5843                     PVBY        03150JJ
## 5844                     PVBY        03150JK
## 5845                     PVBY        03150JT
## 5846                     PVBY        03150JV
## 5847                     PVBY        03150K0
## 5848                     PVBY        03150K1
## 5849                     PVBY        03150K2
## 5850                     PVBY        03150K3
## 5851                     PVBY        03150K4
## 5852                     PVBY        03150K5
## 5853                     PVBY        03150K6
## 5854                     PVBY        03150K7
## 5855                     PVBY        03150K8
## 5856                     PVBY        03150K9
## 5857                     PVBY        03150KB
## 5858                     PVBY        03150KC
## 5859                     PVBY        03150KJ
## 5860                     PVBY        03150KK
## 5861                     PVBY        03150KT
## 5862                     PVBY        03150KV
## 5863                     PVBY        03150Z0
## 5864                     PVBY        03150Z1
## 5865                     PVBY        03150Z2
## 5866                     PVBY        03150Z3
## 5867                     PVBY        03150Z4
## 5868                     PVBY        03150Z5
## 5869                     PVBY        03150Z6
## 5870                     PVBY        03150Z7
## 5871                     PVBY        03150Z8
## 5872                     PVBY        03150Z9
## 5873                     PVBY        03150ZB
## 5874                     PVBY        03150ZC
## 5875                     PVBY        03150ZJ
## 5876                     PVBY        03150ZK
## 5877                     PVBY        03150ZT
## 5878                     PVBY        03150ZV
## 5879                     PVBY        0316090
## 5880                     PVBY        0316091
## 5881                     PVBY        0316092
## 5882                     PVBY        0316093
## 5883                     PVBY        0316094
## 5884                     PVBY        0316095
## 5885                     PVBY        0316096
## 5886                     PVBY        0316097
## 5887                     PVBY        0316098
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## 5888                    PVBY           0316099
## 5889                    PVBY           031609B
## 5890                    PVBY           031609C
## 5891                    PVBY           031609J
## 5892                    PVBY           031609K
## 5893                    PVBY           031609T
## 5894                    PVBY           031609V
## 5895                    PVBY           03160A0
## 5896                    PVBY           03160A1
## 5897                    PVBY           03160A2
## 5898                    PVBY           03160A3
## 5899                    PVBY           03160A4
## 5900                    PVBY           03160A5
## 5901                    PVBY           03160A6
## 5902                    PVBY           03160A7
## 5903                    PVBY           03160A8
## 5904                    PVBY           03160A9
## 5905                    PVBY           03160AB
## 5906                    PVBY           03160AC
## 5907                    PVBY           03160AJ
## 5908                    PVBY           03160AK
## 5909                    PVBY           03160AT
## 5910                    PVBY           03160AV
## 5911                    PVBY           03160J0
## 5912                    PVBY           03160J1
## 5913                    PVBY           03160J2
## 5914                    PVBY           03160J3
## 5915                    PVBY           03160J4
## 5916                    PVBY           03160J5
## 5917                    PVBY           03160J6
## 5918                    PVBY           03160J7
## 5919                    PVBY           03160J8
## 5920                    PVBY           03160J9
## 5921                    PVBY           03160JB
## 5922                    PVBY           03160JC
## 5923                    PVBY           03160JJ
## 5924                    PVBY           03160JK
## 5925                    PVBY           03160JT
## 5926                    PVBY           03160K0
## 5927                    PVBY           03160K1
## 5928                    PVBY           03160K2
## 5929                    PVBY           03160K3
## 5930                    PVBY           03160K4
## 5931                    PVBY           03160K5
## 5932                    PVBY           03160K6
## 5933                    PVBY           03160K7
## 5934                    PVBY           03160K8
## 5935                    PVBY           03160K9
## 5936                    PVBY           03160KB
## 5937                    PVBY           03160KC
## 5938                    PVBY           03160KJ
## 5939                    PVBY           03160KK
## 5940                    PVBY           03160KT
## 5941                    PVBY           03160Z0
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## 5942                    PVBY           03160Z1
## 5943                    PVBY           03160Z2
## 5944                    PVBY           03160Z3
## 5945                    PVBY           03160Z4
## 5946                    PVBY           03160Z5
## 5947                    PVBY           03160Z6
## 5948                    PVBY           03160Z7
## 5949                    PVBY           03160Z8
## 5950                    PVBY           03160Z9
## 5951                    PVBY           03160ZB
## 5952                    PVBY           03160ZC
## 5953                    PVBY           03160ZJ
## 5954                    PVBY           03160ZK
## 5955                    PVBY           03160ZT
## 5956                    PVBY           0317090
## 5957                    PVBY           0317093
## 5958                    PVBY           03170A0
## 5959                    PVBY           03170J0
## 5960                    PVBY           03170J3
## 5961                    PVBY           03170K0
## 5962                    PVBY           03170K3
## 5963                    PVBY           03170Z0
## 5964                    PVBY           03170Z3
## 5965                    PVBY           0318091
## 5966                    PVBY           0318094
## 5967                    PVBY           03180A1
## 5968                    PVBY           03180A4
## 5969                    PVBY           03180J1
## 5970                    PVBY           03180J4
## 5971                    PVBY           03180K1
## 5972                    PVBY           03180K4
## 5973                    PVBY           03180Z1
## 5974                    PVBY           03180Z4
## 5975                    PVBY           0319093
## 5976                    PVBY           03190A3
## 5977                    PVBY           03190J3
## 5978                    PVBY           03190K3
## 5979                    PVBY           03190Z3
## 5980                    PVBY           031A094
## 5981                    PVBY           031A0A4
## 5982                    PVBY           031A0J4
## 5983                    PVBY           031A0K4
## 5984                    PVBY           031A0Z4
## 5985                    PVBY           031B093
## 5986                    PVBY           031B0A3
## 5987                    PVBY           031B0J3
## 5988                    PVBY           031B0K3
## 5989                    PVBY           031B0Z3
## 5990                    PVBY           031C094
## 5991                    PVBY           031C0A4
## 5992                    PVBY           031C0J4
## 5993                    PVBY           031C0K4
## 5994                    PVBY           031C0Z4
## 5995                    PVBY           031H09G
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## 5996                    PVBY           031H09J
## 5997                    PVBY           031H09K
## 5998                    PVBY           031H09Y
## 5999                    PVBY           031H0AG
## 6000                    PVBY           031H0AJ
## 6001                    PVBY           031H0AK
## 6002                    PVBY           031H0AY
## 6003                    PVBY           031H0JG
## 6004                    PVBY           031H0JJ
## 6005                    PVBY           031H0JK
## 6006                    PVBY           031H0JY
## 6007                    PVBY           031H0KG
## 6008                    PVBY           031H0KJ
## 6009                    PVBY           031H0KK
## 6010                    PVBY           031H0KY
## 6011                    PVBY           031H0ZG
## 6012                    PVBY           031H0ZJ
## 6013                    PVBY           031H0ZK
## 6014                    PVBY           031H0ZY
## 6015                    PVBY           031J09G
## 6016                    PVBY           031J09J
## 6017                    PVBY           031J09K
## 6018                    PVBY           031J09Y
## 6019                    PVBY           031J0AG
## 6020                    PVBY           031J0AJ
## 6021                    PVBY           031J0AK
## 6022                    PVBY           031J0AY
## 6023                    PVBY           031J0JG
## 6024                    PVBY           031J0JJ
## 6025                    PVBY           031J0JK
## 6026                    PVBY           031J0JY
## 6027                    PVBY           031J0KG
## 6028                    PVBY           031J0KJ
## 6029                    PVBY           031J0KK
## 6030                    PVBY           031J0KY
## 6031                    PVBY           031J0ZG
## 6032                    PVBY           031J0ZJ
## 6033                    PVBY           031J0ZK
## 6034                    PVBY           031J0ZY
## 6035                    PVBY           031K09J
## 6036                    PVBY           031K09K
## 6037                    PVBY           031K0AJ
## 6038                    PVBY           031K0AK
## 6039                    PVBY           031K0JJ
## 6040                    PVBY           031K0JK
## 6041                    PVBY           031K0KJ
## 6042                    PVBY           031K0KK
## 6043                    PVBY           031K0ZJ
## 6044                    PVBY           031K0ZK
## 6045                    PVBY           031L09J
## 6046                    PVBY           031L09K
## 6047                    PVBY           031L0AJ
## 6048                    PVBY           031L0AK
## 6049                    PVBY           031L0JJ
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## 6050            PVBY       031L0JK
## 6051            PVBY       031L0KJ
## 6052            PVBY       031L0KK
## 6053            PVBY       031L0ZJ
## 6054            PVBY       031L0ZK
## 6055            PVBY       031M09J
## 6056            PVBY       031M09K
## 6057            PVBY       031M0AJ
## 6058            PVBY       031M0AK
## 6059            PVBY       031M0JJ
## 6060            PVBY       031M0JK
## 6061            PVBY       031M0KJ
## 6062            PVBY       031M0KK
## 6063            PVBY       031M0ZJ
## 6064            PVBY       031M0ZK
## 6065            PVBY       031N09J
## 6066            PVBY       031N09K
## 6067            PVBY       031N0AJ
## 6068            PVBY       031N0AK
## 6069            PVBY       031N0JJ
## 6070            PVBY       031N0JK
## 6071            PVBY       031N0KJ
## 6072            PVBY       031N0KK
## 6073            PVBY       031N0ZJ
## 6074            PVBY       031N0ZK
## 6075            PVBY       041C09H
## 6076            PVBY       041C09J
## 6077            PVBY       041C09K
## 6078            PVBY       041C09Q
## 6079            PVBY       041C09R
## 6080            PVBY       041F4KH
## 6081            PVBY       041F4KJ
## 6082            PVBY       041F4KK
## 6083            PVBY       041F4KQ
## 6084            PVBY       041K09H
## 6085            PVBY       041K09J
## 6086            PVBY       041K09K
## 6087            PVBY       041K09L
## 6088            PVBY       041K09M
## 6089            PVBY       041K09N
## 6090            PVBY       041K09P
## 6091            PVBY       041K09Q
## 6092            PVBY       041K0AH
## 6093            PVBY       041K0AJ
## 6094            PVBY       041K0AK
## 6095            PVBY       041K0AL
## 6096            PVBY       041K0AM
## 6097            PVBY       041K0AN
## 6098            PVBY       041K0AP
## 6099            PVBY       041K0AQ
## 6100            PVBY       041K0JH
## 6101            PVBY       041K0JJ
## 6102            PVBY       041K0JK
## 6103            PVBY       041K0JL
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## 6104          PVBY          041K0JM
## 6105          PVBY          041K0JN
## 6106          PVBY          041K0JP
## 6107          PVBY          041K0JQ
## 6108          PVBY          041K0KH
## 6109          PVBY          041K0KJ
## 6110          PVBY          041K0KK
## 6111          PVBY          041K0KL
## 6112          PVBY          041K0KM
## 6113          PVBY          041K0KN
## 6114          PVBY          041K0KP
## 6115          PVBY          041K0KQ
## 6116          PVBY          041K0ZH
## 6117          PVBY          041K0ZJ
## 6118          PVBY          041K0ZK
## 6119          PVBY          041K0ZL
## 6120          PVBY          041K0ZM
## 6121          PVBY          041K0ZN
## 6122          PVBY          041K0ZP
## 6123          PVBY          041K0ZQ
## 6124          PVBY          041K49H
## 6125          PVBY          041K49J
## 6126          PVBY          041K49K
## 6127          PVBY          041K49L
## 6128          PVBY          041K49M
## 6129          PVBY          041K49N
## 6130          PVBY          041K49P
## 6131          PVBY          041K49Q
## 6132          PVBY          041K4AH
## 6133          PVBY          041K4AJ
## 6134          PVBY          041K4AK
## 6135          PVBY          041K4AL
## 6136          PVBY          041K4AM
## 6137          PVBY          041K4AN
## 6138          PVBY          041K4AP
## 6139          PVBY          041K4AQ
## 6140          PVBY          041K4JH
## 6141          PVBY          041K4JJ
## 6142          PVBY          041K4JK
## 6143          PVBY          041K4JL
## 6144          PVBY          041K4JM
## 6145          PVBY          041K4JN
## 6146          PVBY          041K4JP
## 6147          PVBY          041K4JQ
## 6148          PVBY          041K4KH
## 6149          PVBY          041K4KJ
## 6150          PVBY          041K4KK
## 6151          PVBY          041K4KL
## 6152          PVBY          041K4KM
## 6153          PVBY          041K4KN
## 6154          PVBY          041K4KP
## 6155          PVBY          041K4KQ
## 6156          PVBY          041K4ZH
## 6157          PVBY          041K4ZJ
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## 6158                    PVBY         041K4ZK
## 6159                    PVBY         041K4ZL
## 6160                    PVBY         041K4ZM
## 6161                    PVBY         041K4ZN
## 6162                    PVBY         041K4ZP
## 6163                    PVBY         041K4ZQ
## 6164                    PVBY         041L09H
## 6165                    PVBY         041L09J
## 6166                    PVBY         041L09K
## 6167                    PVBY         041L09L
## 6168                    PVBY         041L09M
## 6169                    PVBY         041L09N
## 6170                    PVBY         041L09P
## 6171                    PVBY         041L09Q
## 6172                    PVBY         041L0AH
## 6173                    PVBY         041L0AJ
## 6174                    PVBY         041L0AK
## 6175                    PVBY         041L0AL
## 6176                    PVBY         041L0AM
## 6177                    PVBY         041L0AN
## 6178                    PVBY         041L0AP
## 6179                    PVBY         041L0AQ
## 6180                    PVBY         041L0JH
## 6181                    PVBY         041L0JJ
## 6182                    PVBY         041L0JK
## 6183                    PVBY         041L0JL
## 6184                    PVBY         041L0JM
## 6185                    PVBY         041L0JN
## 6186                    PVBY         041L0JP
## 6187                    PVBY         041L0JQ
## 6188                    PVBY         041L0KH
## 6189                    PVBY         041L0KJ
## 6190                    PVBY         041L0KK
## 6191                    PVBY         041L0KL
## 6192                    PVBY         041L0KM
## 6193                    PVBY         041L0KN
## 6194                    PVBY         041L0KP
## 6195                    PVBY         041L0KQ
## 6196                    PVBY         041L0ZH
## 6197                    PVBY         041L0ZJ
## 6198                    PVBY         041L0ZK
## 6199                    PVBY         041L0ZL
## 6200                    PVBY         041L0ZM
## 6201                    PVBY         041L0ZN
## 6202                    PVBY         041L0ZP
## 6203                    PVBY         041L0ZQ
## 6204                    PVBY         041L49H
## 6205                    PVBY         041L49J
## 6206                    PVBY         041L49K
## 6207                    PVBY         041L49L
## 6208                    PVBY         041L49M
## 6209                    PVBY         041L49N
## 6210                    PVBY         041L49P
## 6211                    PVBY         041L49Q
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## 6212                      PVBY           041L4AH
## 6213                      PVBY           041L4AJ
## 6214                      PVBY           041L4AK
## 6215                      PVBY           041L4AL
## 6216                      PVBY           041L4AM
## 6217                      PVBY           041L4AN
## 6218                      PVBY           041L4AP
## 6219                      PVBY           041L4AQ
## 6220                      PVBY           041L4JH
## 6221                      PVBY           041L4JJ
## 6222                      PVBY           041L4JK
## 6223                      PVBY           041L4JL
## 6224                      PVBY           041L4JM
## 6225                      PVBY           041L4JN
## 6226                      PVBY           041L4JP
## 6227                      PVBY           041L4JQ
## 6228                      PVBY           041L4KH
## 6229                      PVBY           041L4KJ
## 6230                      PVBY           041L4KK
## 6231                      PVBY           041L4KL
## 6232                      PVBY           041L4KM
## 6233                      PVBY           041L4KN
## 6234                      PVBY           041L4KP
## 6235                      PVBY           041L4KQ
## 6236                      PVBY           041L4ZH
## 6237                      PVBY           041L4ZJ
## 6238                      PVBY           041L4ZK
## 6239                      PVBY           041L4ZL
## 6240                      PVBY           041L4ZM
## 6241                      PVBY           041L4ZN
## 6242                      PVBY           041L4ZP
## 6243                      PVBY           041L4ZQ
## 6244                      PVBY           041M09L
## 6245                      PVBY           041M09M
## 6246                      PVBY           041M09P
## 6247                      PVBY           041M09Q
## 6248                      PVBY           041M0AL
## 6249                      PVBY           041M0AM
## 6250                      PVBY           041M0AP
## 6251                      PVBY           041M0AQ
## 6252                      PVBY           041M0JL
## 6253                      PVBY           041M0JM
## 6254                      PVBY           041M0JP
## 6255                      PVBY           041M0JQ
## 6256                      PVBY           041M0KL
## 6257                      PVBY           041M0KM
## 6258                      PVBY           041M0KP
## 6259                      PVBY           041M0KQ
## 6260                      PVBY           041M0ZL
## 6261                      PVBY           041M0ZM
## 6262                      PVBY           041M0ZP
## 6263                      PVBY           041M0ZQ
## 6264                      PVBY           041M49L
## 6265                      PVBY           041M49M
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## 6266                  PVBY         041M49P
## 6267                  PVBY         041M49Q
## 6268                  PVBY         041M4AL
## 6269                  PVBY         041M4AM
## 6270                  PVBY         041M4AP
## 6271                  PVBY         041M4AQ
## 6272                  PVBY         041M4JL
## 6273                  PVBY         041M4JM
## 6274                  PVBY         041M4JP
## 6275                  PVBY         041M4JQ
## 6276                  PVBY         041M4KL
## 6277                  PVBY         041M4KM
## 6278                  PVBY         041M4KP
## 6279                  PVBY         041M4KQ
## 6280                  PVBY         041M4ZL
## 6281                  PVBY         041M4ZM
## 6282                  PVBY         041M4ZP
## 6283                  PVBY         041M4ZQ
## 6284                  PVBY         041N09L
## 6285                  PVBY         041N09M
## 6286                  PVBY         041N09P
## 6287                  PVBY         041N09Q
## 6288                  PVBY         041N0AL
## 6289                  PVBY         041N0AM
## 6290                  PVBY         041N0AP
## 6291                  PVBY         041N0AQ
## 6292                  PVBY         041N0JL
## 6293                  PVBY         041N0JM
## 6294                  PVBY         041N0JP
## 6295                  PVBY         041N0JQ
## 6296                  PVBY         041N0KL
## 6297                  PVBY         041N0KM
## 6298                  PVBY         041N0KP
## 6299                  PVBY         041N0KQ
## 6300                  PVBY         041N0ZL
## 6301                  PVBY         041N0ZM
## 6302                  PVBY         041N0ZP
## 6303                  PVBY         041N0ZQ
## 6304                  PVBY         041N49L
## 6305                  PVBY         041N49M
## 6306                  PVBY         041N49P
## 6307                  PVBY         041N49Q
## 6308                  PVBY         041N4AL
## 6309                  PVBY         041N4AM
## 6310                  PVBY         041N4AP
## 6311                  PVBY         041N4AQ
## 6312                  PVBY         041N4JL
## 6313                  PVBY         041N4JM
## 6314                  PVBY         041N4JP
## 6315                  PVBY         041N4JQ
## 6316                  PVBY         041N4KL
## 6317                  PVBY         041N4KM
## 6318                  PVBY         041N4KP
## 6319                  PVBY         041N4KQ
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## 6320          PVBY          041N4ZL
## 6321          PVBY          041N4ZM
## 6322          PVBY          041N4ZP
## 6323          PVBY          041N4ZQ
## 6324          PVBY          041P0JQ
## 6325          PVBY          041P4JQ
## 6326          PVBY          041Q0JQ
## 6327          PVBY          041Q4JQ
## 6328          PVBY          041R0JQ
## 6329          PVBY          041R4JQ
## 6330          PVBY          041S0JQ
## 6331          PVBY          041S4JQ
## 6332          PVBY          041T09P
## 6333          PVBY          041T09Q
## 6334          PVBY          041T0AP
## 6335          PVBY          041T0AQ
## 6336          PVBY          041T0JP
## 6337          PVBY          041T0JQ
## 6338          PVBY          041T0KP
## 6339          PVBY          041T0KQ
## 6340          PVBY          041T0ZP
## 6341          PVBY          041T0ZQ
## 6342          PVBY          041T49P
## 6343          PVBY          041T49Q
## 6344          PVBY          041T4AP
## 6345          PVBY          041T4AQ
## 6346          PVBY          041T4JP
## 6347          PVBY          041T4JQ
## 6348          PVBY          041T4KP
## 6349          PVBY          041T4KQ
## 6350          PVBY          041T4ZP
## 6351          PVBY          041T4ZQ
## 6352          PVBY          041U09P
## 6353          PVBY          041U09Q
## 6354          PVBY          041U0AP
## 6355          PVBY          041U0AQ
## 6356          PVBY          041U0JP
## 6357          PVBY          041U0JQ
## 6358          PVBY          041U0KP
## 6359          PVBY          041U0KQ
## 6360          PVBY          041U0ZP
## 6361          PVBY          041U0ZQ
## 6362          PVBY          041U49P
## 6363          PVBY          041U49Q
## 6364          PVBY          041U4AP
## 6365          PVBY          041U4AQ
## 6366          PVBY          041U4JP
## 6367          PVBY          041U4JQ
## 6368          PVBY          041U4KP
## 6369          PVBY          041U4KQ
## 6370          PVBY          041U4ZP
## 6371          PVBY          041U4ZQ
## 6372          PVBY          041V09P
## 6373          PVBY          041V09Q
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## 6374                    PVBY           041V0AP
## 6375                    PVBY           041V0AQ
## 6376                    PVBY           041V0JP
## 6377                    PVBY           041V0JQ
## 6378                    PVBY           041V0KP
## 6379                    PVBY           041V0KQ
## 6380                    PVBY           041V0ZP
## 6381                    PVBY           041V0ZQ
## 6382                    PVBY           041V49P
## 6383                    PVBY           041V49Q
## 6384                    PVBY           041V4AP
## 6385                    PVBY           041V4AQ
## 6386                    PVBY           041V4JP
## 6387                    PVBY           041V4JQ
## 6388                    PVBY           041V4KP
## 6389                    PVBY           041V4KQ
## 6390                    PVBY           041V4ZP
## 6391                    PVBY           041V4ZQ
## 6392                    PVBY           041W09P
## 6393                    PVBY           041W09Q
## 6394                    PVBY           041W0AP
## 6395                    PVBY           041W0AQ
## 6396                    PVBY           041W0JP
## 6397                    PVBY           041W0JQ
## 6398                    PVBY           041W0KP
## 6399                    PVBY           041W0KQ
## 6400                    PVBY           041W0ZP
## 6401                    PVBY           041W0ZQ
## 6402                    PVBY           041W49P
## 6403                    PVBY           041W49Q
## 6404                    PVBY           041W4AP
## 6405                    PVBY           041W4AQ
## 6406                    PVBY           041W4JP
## 6407                    PVBY           041W4JQ
## 6408                    PVBY           041W4KP
## 6409                    PVBY           041W4KQ
## 6410                    PVBY           041W4ZP
## 6411                    PVBY           041W4ZQ
## 6412                    PVBY           051707Y
## 6413                    PVBY           051709Y
## 6414                    PVBY           05170AY
## 6415                    PVBY           05170JY
## 6416                    PVBY           05170KY
## 6417                    PVBY           05170ZY
## 6418                    PVBY           051747Y
## 6419                    PVBY           051749Y
## 6420                    PVBY           05174AY
## 6421                    PVBY           05174JY
## 6422                    PVBY           05174KY
## 6423                    PVBY           05174ZY
## 6424                    PVBY           051807Y
## 6425                    PVBY           051809Y
## 6426                    PVBY           05180AY
## 6427                    PVBY           05180JY
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## 6428                    PVBY            05180KY
## 6429                    PVBY            05180ZY
## 6430                    PVBY            051847Y
## 6431                    PVBY            051849Y
## 6432                    PVBY            05184AY
## 6433                    PVBY            05184JY
## 6434                    PVBY            05184KY
## 6435                    PVBY            05184ZY
## 6436                    PVBY            051907Y
## 6437                    PVBY            051909Y
## 6438                    PVBY            05190AY
## 6439                    PVBY            05190JY
## 6440                    PVBY            05190KY
## 6441                    PVBY            05190ZY
## 6442                    PVBY            051947Y
## 6443                    PVBY            051949Y
## 6444                    PVBY            05194AY
## 6445                    PVBY            05194JY
## 6446                    PVBY            05194KY
## 6447                    PVBY            05194ZY
## 6448                    PVBY            051A07Y
## 6449                    PVBY            051A09Y
## 6450                    PVBY            051A0AY
## 6451                    PVBY            051A0JY
## 6452                    PVBY            051A0KY
## 6453                    PVBY            051A0ZY
## 6454                    PVBY            051A47Y
## 6455                    PVBY            051A49Y
## 6456                    PVBY            051A4AY
## 6457                    PVBY            051A4JY
## 6458                    PVBY            051A4KY
## 6459                    PVBY            051A4ZY
## 6460                    PVBY            051B07Y
## 6461                    PVBY            051B09Y
## 6462                    PVBY            051B0AY
## 6463                    PVBY            051B0JY
## 6464                    PVBY            051B0KY
## 6465                    PVBY            051B0ZY
## 6466                    PVBY            051B47Y
## 6467                    PVBY            051B49Y
## 6468                    PVBY            051B4AY
## 6469                    PVBY            051B4JY
## 6470                    PVBY            051B4KY
## 6471                    PVBY            051B4ZY
## 6472                    PVBY            051C07Y
## 6473                    PVBY            051C09Y
## 6474                    PVBY            051C0AY
## 6475                    PVBY            051C0JY
## 6476                    PVBY            051C0KY
## 6477                    PVBY            051C0ZY
## 6478                    PVBY            051C47Y
## 6479                    PVBY            051C49Y
## 6480                    PVBY            051C4AY
## 6481                    PVBY            051C4JY
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## 6482                    PVBY          051C4KY
## 6483                    PVBY          051C4ZY
## 6484                    PVBY          051D07Y
## 6485                    PVBY          051D09Y
## 6486                    PVBY          051D0AY
## 6487                    PVBY          051D0JY
## 6488                    PVBY          051D0KY
## 6489                    PVBY          051D0ZY
## 6490                    PVBY          051D47Y
## 6491                    PVBY          051D49Y
## 6492                    PVBY          051D4AY
## 6493                    PVBY          051D4JY
## 6494                    PVBY          051D4KY
## 6495                    PVBY          051D4ZY
## 6496                    PVBY          051F07Y
## 6497                    PVBY          051F09Y
## 6498                    PVBY          051F0AY
## 6499                    PVBY          051F0JY
## 6500                    PVBY          051F0KY
## 6501                    PVBY          051F0ZY
## 6502                    PVBY          051F47Y
## 6503                    PVBY          051F49Y
## 6504                    PVBY          051F4AY
## 6505                    PVBY          051F4JY
## 6506                    PVBY          051F4KY
## 6507                    PVBY          051F4ZY
## 6508                    PVBY          051G07Y
## 6509                    PVBY          051G09Y
## 6510                    PVBY          051G0AY
## 6511                    PVBY          051G0JY
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## 6513                    PVBY          051G0ZY
## 6514                    PVBY          051G47Y
## 6515                    PVBY          051G49Y
## 6516                    PVBY          051G4AY
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## 6518                    PVBY          051G4KY
## 6519                    PVBY          051G4ZY
## 6520                    PVBY          051H07Y
## 6521                    PVBY          051H09Y
## 6522                    PVBY          051H0AY
## 6523                    PVBY          051H0JY
## 6524                    PVBY          051H0KY
## 6525                    PVBY          051H0ZY
## 6526                    PVBY          051H47Y
## 6527                    PVBY          051H49Y
## 6528                    PVBY          051H4AY
## 6529                    PVBY          051H4JY
## 6530                    PVBY          051H4KY
## 6531                    PVBY          051H4ZY
## 6532                    PVBY          051L07Y
## 6533                    PVBY          051L09Y
## 6534                    PVBY          051L0AY
## 6535                    PVBY          051L0JY
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## 6536                    PVBY         051L0KY
## 6537                    PVBY         051L0ZY
## 6538                    PVBY         051L47Y
## 6539                    PVBY         051L49Y
## 6540                    PVBY         051L4AY
## 6541                    PVBY         051L4JY
## 6542                    PVBY         051L4KY
## 6543                    PVBY         051L4ZY
## 6544                    PVBY         051M07Y
## 6545                    PVBY         051M09Y
## 6546                    PVBY         051M0AY
## 6547                    PVBY         051M0JY
## 6548                    PVBY         051M0KY
## 6549                    PVBY         051M0ZY
## 6550                    PVBY         051M47Y
## 6551                    PVBY         051M49Y
## 6552                    PVBY         051M4AY
## 6553                    PVBY         051M4JY
## 6554                    PVBY         051M4KY
## 6555                    PVBY         051M4ZY
## 6556                    PVBY         051N07Y
## 6557                    PVBY         051N09Y
## 6558                    PVBY         051N0AY
## 6559                    PVBY         051N0JY
## 6560                    PVBY         051N0KY
## 6561                    PVBY         051N0ZY
## 6562                    PVBY         051N47Y
## 6563                    PVBY         051N49Y
## 6564                    PVBY         051N4AY
## 6565                    PVBY         051N4JY
## 6566                    PVBY         051N4KY
## 6567                    PVBY         051N4ZY
## 6568                    PVBY         051P07Y
## 6569                    PVBY         051P09Y
## 6570                    PVBY         051P0AY
## 6571                    PVBY         051P0JY
## 6572                    PVBY         051P0KY
## 6573                    PVBY         051P0ZY
## 6574                    PVBY         051P47Y
## 6575                    PVBY         051P49Y
## 6576                    PVBY         051P4AY
## 6577                    PVBY         051P4JY
## 6578                    PVBY         051P4KY
## 6579                    PVBY         051P4ZY
## 6580                    PVBY         051Q07Y
## 6581                    PVBY         051Q09Y
## 6582                    PVBY         051Q0AY
## 6583                    PVBY         051Q0JY
## 6584                    PVBY         051Q0KY
## 6585                    PVBY         051Q0ZY
## 6586                    PVBY         051Q47Y
## 6587                    PVBY         051Q49Y
## 6588                    PVBY         051Q4AY
## 6589                    PVBY         051Q4JY
```

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## 6590                    PVBY          051Q4KY
## 6591                    PVBY          051Q4ZY
## 6592                    PVBY          051R07Y
## 6593                    PVBY          051R09Y
## 6594                    PVBY          051R0AY
## 6595                    PVBY          051R0JY
## 6596                    PVBY          051R0KY
## 6597                    PVBY          051R0ZY
## 6598                    PVBY          051R47Y
## 6599                    PVBY          051R49Y
## 6600                    PVBY          051R4AY
## 6601                    PVBY          051R4JY
## 6602                    PVBY          051R4KY
## 6603                    PVBY          051R4ZY
## 6604                    PVBY          051S07Y
## 6605                    PVBY          051S09Y
## 6606                    PVBY          051S0AY
## 6607                    PVBY          051S0JY
## 6608                    PVBY          051S0KY
## 6609                    PVBY          051S0ZY
## 6610                    PVBY          051S47Y
## 6611                    PVBY          051S49Y
## 6612                    PVBY          051S4AY
## 6613                    PVBY          051S4JY
## 6614                    PVBY          051S4KY
## 6615                    PVBY          051S4ZY
## 6616                    PVBY          051T07Y
## 6617                    PVBY          051T09Y
## 6618                    PVBY          051T0AY
## 6619                    PVBY          051T0JY
## 6620                    PVBY          051T0KY
## 6621                    PVBY          051T0ZY
## 6622                    PVBY          051T47Y
## 6623                    PVBY          051T49Y
## 6624                    PVBY          051T4AY
## 6625                    PVBY          051T4JY
## 6626                    PVBY          051T4KY
## 6627                    PVBY          051T4ZY
## 6628                    PVBY          051V07Y
## 6629                    PVBY          051V09Y
## 6630                    PVBY          051V0AY
## 6631                    PVBY          051V0JY
## 6632                    PVBY          051V0KY
## 6633                    PVBY          051V0ZY
## 6634                    PVBY          051V47Y
## 6635                    PVBY          051V49Y
## 6636                    PVBY          051V4AY
## 6637                    PVBY          051V4JY
## 6638                    PVBY          051V4KY
## 6639                    PVBY          051V4ZY
## 6640                    PVBY          061007P
## 6641                    PVBY          061007Q
## 6642                    PVBY          061007R
## 6643                    PVBY          061009P
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## 6644                    PVBY         061009Q
## 6645                    PVBY         061009R
## 6646                    PVBY         06100AP
## 6647                    PVBY         06100AQ
## 6648                    PVBY         06100AR
## 6649                    PVBY         06100JP
## 6650                    PVBY         06100JQ
## 6651                    PVBY         06100JR
## 6652                    PVBY         06100KP
## 6653                    PVBY         06100KQ
## 6654                    PVBY         06100KR
## 6655                    PVBY         06100ZP
## 6656                    PVBY         06100ZQ
## 6657                    PVBY         06100ZR
## 6658                    PVBY         061047P
## 6659                    PVBY         061047Q
## 6660                    PVBY         061047R
## 6661                    PVBY         061049P
## 6662                    PVBY         061049Q
## 6663                    PVBY         061049R
## 6664                    PVBY         06104AP
## 6665                    PVBY         06104AQ
## 6666                    PVBY         06104AR
## 6667                    PVBY         06104JP
## 6668                    PVBY         06104JQ
## 6669                    PVBY         06104JR
## 6670                    PVBY         06104KP
## 6671                    PVBY         06104KQ
## 6672                    PVBY         06104KR
## 6673                    PVBY         06104ZP
## 6674                    PVBY         06104ZQ
## 6675                    PVBY         06104ZR
## 6676                    PVBY         061307Y
## 6677                    PVBY         061309Y
## 6678                    PVBY         06130AY
## 6679                    PVBY         06130JY
## 6680                    PVBY         06130KY
## 6681                    PVBY         06130ZY
## 6682                    PVBY         061347Y
## 6683                    PVBY         061349Y
## 6684                    PVBY         06134AY
## 6685                    PVBY         06134JY
## 6686                    PVBY         06134KY
## 6687                    PVBY         06134ZY
## 6688                    PVBY         06184J4
## 6689                    PVBY         061C07Y
## 6690                    PVBY         061C09Y
## 6691                    PVBY         061C0AY
## 6692                    PVBY         061C0JY
## 6693                    PVBY         061C0KY
## 6694                    PVBY         061C0ZY
## 6695                    PVBY         061C47Y
## 6696                    PVBY         061C49Y
## 6697                    PVBY         061C4AY
```

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## 6698                  PVBY           061C4JY
## 6699                  PVBY           061C4KY
## 6700                  PVBY           061C4ZY
## 6701                  PVBY           061D07Y
## 6702                  PVBY           061D09Y
## 6703                  PVBY           061D0AY
## 6704                  PVBY           061D0JY
## 6705                  PVBY           061D0KY
## 6706                  PVBY           061D0ZY
## 6707                  PVBY           061D47Y
## 6708                  PVBY           061D49Y
## 6709                  PVBY           061D4AY
## 6710                  PVBY           061D4JY
## 6711                  PVBY           061D4KY
## 6712                  PVBY           061D4ZY
## 6713                  PVBY           061F07Y
## 6714                  PVBY           061F09Y
## 6715                  PVBY           061F0AY
## 6716                  PVBY           061F0JY
## 6717                  PVBY           061F0KY
## 6718                  PVBY           061F0ZY
## 6719                  PVBY           061F47Y
## 6720                  PVBY           061F49Y
## 6721                  PVBY           061F4AY
## 6722                  PVBY           061F4JY
## 6723                  PVBY           061F4KY
## 6724                  PVBY           061F4ZY
## 6725                  PVBY           061G07Y
## 6726                  PVBY           061G09Y
## 6727                  PVBY           061G0AY
## 6728                  PVBY           061G0JY
## 6729                  PVBY           061G0KY
## 6730                  PVBY           061G0ZY
## 6731                  PVBY           061G47Y
## 6732                  PVBY           061G49Y
## 6733                  PVBY           061G4AY
## 6734                  PVBY           061G4JY
## 6735                  PVBY           061G4KY
## 6736                  PVBY           061G4ZY
## 6737                  PVBY           061H07Y
## 6738                  PVBY           061H09Y
## 6739                  PVBY           061H0AY
## 6740                  PVBY           061H0JY
## 6741                  PVBY           061H0KY
## 6742                  PVBY           061H0ZY
## 6743                  PVBY           061H47Y
## 6744                  PVBY           061H49Y
## 6745                  PVBY           061H4AY
## 6746                  PVBY           061H4JY
## 6747                  PVBY           061H4KY
## 6748                  PVBY           061H4ZY
## 6749                  PVBY           061M07Y
## 6750                  PVBY           061M09Y
## 6751                  PVBY           061M0AY
```

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## 6752                    PVBY              061M0JY
## 6753                    PVBY              061M0KY
## 6754                    PVBY              061M0ZY
## 6755                    PVBY              061M47Y
## 6756                    PVBY              061M49Y
## 6757                    PVBY              061M4AY
## 6758                    PVBY              061M4JY
## 6759                    PVBY              061M4KY
## 6760                    PVBY              061M4ZY
## 6761                    PVBY              061N07Y
## 6762                    PVBY              061N09Y
## 6763                    PVBY              061N0AY
## 6764                    PVBY              061N0JY
## 6765                    PVBY              061N0KY
## 6766                    PVBY              061N0ZY
## 6767                    PVBY              061N47Y
## 6768                    PVBY              061N49Y
## 6769                    PVBY              061N4AY
## 6770                    PVBY              061N4JY
## 6771                    PVBY              061N4KY
## 6772                    PVBY              061N4ZY
## 6773                    PVBY              061P07Y
## 6774                    PVBY              061P09Y
## 6775                    PVBY              061P0AY
## 6776                    PVBY              061P0JY
## 6777                    PVBY              061P0KY
## 6778                    PVBY              061P0ZY
## 6779                    PVBY              061P47Y
## 6780                    PVBY              061P49Y
## 6781                    PVBY              061P4AY
## 6782                    PVBY              061P4JY
## 6783                    PVBY              061P4KY
## 6784                    PVBY              061P4ZY
## 6785                    PVBY              061Q07Y
## 6786                    PVBY              061Q09Y
## 6787                    PVBY              061Q0AY
## 6788                    PVBY              061Q0JY
## 6789                    PVBY              061Q0KY
## 6790                    PVBY              061Q0ZY
## 6791                    PVBY              061Q47Y
## 6792                    PVBY              061Q49Y
## 6793                    PVBY              061Q4AY
## 6794                    PVBY              061Q4JY
## 6795                    PVBY              061Q4KY
## 6796                    PVBY              061Q4ZY
## 6797                    PVBY              061T07Y
## 6798                    PVBY              061T09Y
## 6799                    PVBY              061T0AY
## 6800                    PVBY              061T0JY
## 6801                    PVBY              061T0KY
## 6802                    PVBY              061T0ZY
## 6803                    PVBY              061T47Y
## 6804                    PVBY              061T49Y
## 6805                    PVBY              061T4AY
```

```
## 6806                PVBY            061T4JY
## 6807                PVBY            061T4KY
## 6808                PVBY            061T4ZY
## 6809                PVBY            061V07Y
## 6810                PVBY            061V09Y
## 6811                PVBY            061V0AY
## 6812                PVBY            061V0JY
## 6813                PVBY            061V0KY
## 6814                PVBY            061V0ZY
## 6815                PVBY            061V47Y
## 6816                PVBY            061V49Y
## 6817                PVBY            061V4AY
## 6818                PVBY            061V4JY
## 6819                PVBY            061V4KY
## 6820                PVBY            061V4ZY
## 6821                 REC            0D1807P
## 6822                 REC            0D1807Q
## 6823                 REC            0D180JP
## 6824                 REC            0D180JQ
## 6825                 REC            0D180KP
## 6826                 REC            0D180KQ
## 6827                 REC            0D180ZP
## 6828                 REC            0D180ZQ
## 6829                 REC            0D1847P
## 6830                 REC            0D1847Q
## 6831                 REC            0D184JP
## 6832                 REC            0D184JQ
## 6833                 REC            0D184KP
## 6834                 REC            0D184KQ
## 6835                 REC            0D184ZP
## 6836                 REC            0D184ZQ
## 6837                 REC            0D1A07P
## 6838                 REC            0D1A07Q
## 6839                 REC            0D1A0JP
## 6840                 REC            0D1A0JQ
## 6841                 REC            0D1A0KP
## 6842                 REC            0D1A0KQ
## 6843                 REC            0D1A0ZP
## 6844                 REC            0D1A0ZQ
## 6845                 REC            0D1A47P
## 6846                 REC            0D1A47Q
## 6847                 REC            0D1A4JP
## 6848                 REC            0D1A4JQ
## 6849                 REC            0D1A4KP
## 6850                 REC            0D1A4KQ
## 6851                 REC            0D1A4ZP
## 6852                 REC            0D1A4ZQ
## 6853                 REC            0D1B07P
## 6854                 REC            0D1B07Q
## 6855                 REC            0D1B0JP
## 6856                 REC            0D1B0JQ
## 6857                 REC            0D1B0KP
## 6858                 REC            0D1B0KQ
## 6859                 REC            0D1B0ZP
```

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## 6860              REC         0D1B0ZQ
## 6861              REC         0D1B47P
## 6862              REC         0D1B47Q
## 6863              REC         0D1B4JP
## 6864              REC         0D1B4JQ
## 6865              REC         0D1B4KP
## 6866              REC         0D1B4KQ
## 6867              REC         0D1B4ZP
## 6868              REC         0D1B4ZQ
## 6869              REC         0D1E07P
## 6870              REC         0D1E0JP
## 6871              REC         0D1E0KP
## 6872              REC         0D1E0ZP
## 6873              REC         0D1E47P
## 6874              REC         0D1E4JP
## 6875              REC         0D1E4KP
## 6876              REC         0D1E4ZP
## 6877              REC         0D1H07P
## 6878              REC         0D1H0JP
## 6879              REC         0D1H0KP
## 6880              REC         0D1H0ZP
## 6881              REC         0D1H47P
## 6882              REC         0D1H4JP
## 6883              REC         0D1H4KP
## 6884              REC         0D1H4ZP
## 6885              REC         0D1K07P
## 6886              REC         0D1K0JP
## 6887              REC         0D1K0KP
## 6888              REC         0D1K0ZP
## 6889              REC         0D1K47P
## 6890              REC         0D1K4JP
## 6891              REC         0D1K4KP
## 6892              REC         0D1K4ZP
## 6893              REC         0D1L07P
## 6894              REC         0D1L0JP
## 6895              REC         0D1L0KP
## 6896              REC         0D1L0ZP
## 6897              REC         0D1L47P
## 6898              REC         0D1L4JP
## 6899              REC         0D1L4KP
## 6900              REC         0D1L4ZP
## 6901              REC         0D1M07P
## 6902              REC         0D1M0JP
## 6903              REC         0D1M0KP
## 6904              REC         0D1M0ZP
## 6905              REC         0D1M47P
## 6906              REC         0D1M4JP
## 6907              REC         0D1M4KP
## 6908              REC         0D1M4ZP
## 6909              REC         0D1N07P
## 6910              REC         0D1N0JP
## 6911              REC         0D1N0KP
## 6912              REC         0D1N0ZP
## 6913              REC         0D1N47P
```

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## 6914                    REC          0D1N4JP
## 6915                    REC          0D1N4KP
## 6916                    REC          0D1N4ZP
## 6917                    REC          0D9P00Z
## 6918                    REC          0D9P0ZZ
## 6919                    REC          0D9P40Z
## 6920                    REC          0D9P4ZZ
## 6921                    REC          0D9Q00Z
## 6922                    REC          0D9Q0ZZ
## 6923                    REC          0D9R00Z
## 6924                    REC          0D9R0ZZ
## 6925                    REC          0DBP0ZZ
## 6926                    REC          0DBP4ZZ
## 6927                    REC          0DQP0ZZ
## 6928                    REC          0DQP4ZZ
## 6929                    REC          0DSP0ZZ
## 6930                    REC          0DSP4ZZ
## 6931                    REC          0DSQ0ZZ
## 6932                    REC          0DSQ4ZZ
## 6933                    REC          0DTP0ZZ
## 6934                    REC          0DTP4ZZ
## 6935                    REC          0DTQ0ZZ
## 6936                    REC          0DTQ4ZZ
## 6937                    REC          0DTR0ZZ
## 6938                    REC          0DTR4ZZ
## 6939                    SB           0D11079
## 6940                    SB           0D1107A
## 6941                    SB           0D1107B
## 6942                    SB           0D110J9
## 6943                    SB           0D110JA
## 6944                    SB           0D110JB
## 6945                    SB           0D110K9
## 6946                    SB           0D110KA
## 6947                    SB           0D110KB
## 6948                    SB           0D110Z9
## 6949                    SB           0D110ZA
## 6950                    SB           0D110ZB
## 6951                    SB           0D11479
## 6952                    SB           0D1147A
## 6953                    SB           0D1147B
## 6954                    SB           0D114J9
## 6955                    SB           0D114JA
## 6956                    SB           0D114JB
## 6957                    SB           0D114K9
## 6958                    SB           0D114KA
## 6959                    SB           0D114KB
## 6960                    SB           0D114Z9
## 6961                    SB           0D114ZA
## 6962                    SB           0D114ZB
## 6963                    SB           0D12079
## 6964                    SB           0D1207A
## 6965                    SB           0D1207B
## 6966                    SB           0D120J9
## 6967                    SB           0D120JA
```

```
## 6968                    SB          0D120JB
## 6969                    SB          0D120K9
## 6970                    SB          0D120KA
## 6971                    SB          0D120KB
## 6972                    SB          0D120Z9
## 6973                    SB          0D120ZA
## 6974                    SB          0D120ZB
## 6975                    SB          0D12479
## 6976                    SB          0D1247A
## 6977                    SB          0D1247B
## 6978                    SB          0D124J9
## 6979                    SB          0D124JA
## 6980                    SB          0D124JB
## 6981                    SB          0D124K9
## 6982                    SB          0D124KA
## 6983                    SB          0D124KB
## 6984                    SB          0D124Z9
## 6985                    SB          0D124ZA
## 6986                    SB          0D124ZB
## 6987                    SB          0D13079
## 6988                    SB          0D1307A
## 6989                    SB          0D1307B
## 6990                    SB          0D130J9
## 6991                    SB          0D130JA
## 6992                    SB          0D130JB
## 6993                    SB          0D130K9
## 6994                    SB          0D130KA
## 6995                    SB          0D130KB
## 6996                    SB          0D130Z9
## 6997                    SB          0D130ZA
## 6998                    SB          0D130ZB
## 6999                    SB          0D13479
## 7000                    SB          0D1347A
## 7001                    SB          0D1347B
## 7002                    SB          0D134J9
## 7003                    SB          0D134JA
## 7004                    SB          0D134JB
## 7005                    SB          0D134K9
## 7006                    SB          0D134KA
## 7007                    SB          0D134KB
## 7008                    SB          0D134Z9
## 7009                    SB          0D134ZA
## 7010                    SB          0D134ZB
## 7011                    SB          0D15079
## 7012                    SB          0D1507A
## 7013                    SB          0D1507B
## 7014                    SB          0D150J9
## 7015                    SB          0D150JA
## 7016                    SB          0D150JB
## 7017                    SB          0D150K9
## 7018                    SB          0D150KA
## 7019                    SB          0D150KB
## 7020                    SB          0D150Z9
## 7021                    SB          0D150ZA
```

```
## 7022                    SB          0D150ZB
## 7023                    SB          0D15479
## 7024                    SB          0D1547A
## 7025                    SB          0D1547B
## 7026                    SB          0D154J9
## 7027                    SB          0D154JA
## 7028                    SB          0D154JB
## 7029                    SB          0D154K9
## 7030                    SB          0D154KA
## 7031                    SB          0D154KB
## 7032                    SB          0D154Z9
## 7033                    SB          0D154ZA
## 7034                    SB          0D154ZB
## 7035                    SB          0D16079
## 7036                    SB          0D1607A
## 7037                    SB          0D1607B
## 7038                    SB          0D160J9
## 7039                    SB          0D160JA
## 7040                    SB          0D160JB
## 7041                    SB          0D160K9
## 7042                    SB          0D160KA
## 7043                    SB          0D160KB
## 7044                    SB          0D160Z9
## 7045                    SB          0D160ZA
## 7046                    SB          0D160ZB
## 7047                    SB          0D16479
## 7048                    SB          0D1647A
## 7049                    SB          0D1647B
## 7050                    SB          0D164J9
## 7051                    SB          0D164JA
## 7052                    SB          0D164JB
## 7053                    SB          0D164K9
## 7054                    SB          0D164KA
## 7055                    SB          0D164KB
## 7056                    SB          0D164Z9
## 7057                    SB          0D164ZA
## 7058                    SB          0D164ZB
## 7059                    SB          0D18074
## 7060                    SB          0D18078
## 7061                    SB          0D180J4
## 7062                    SB          0D180J8
## 7063                    SB          0D180K4
## 7064                    SB          0D180K8
## 7065                    SB          0D180Z4
## 7066                    SB          0D180Z8
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## 7068                    SB          0D18478
## 7069                    SB          0D184J4
## 7070                    SB          0D184J8
## 7071                    SB          0D184K4
## 7072                    SB          0D184K8
## 7073                    SB          0D184Z4
## 7074                    SB          0D184Z8
## 7075                    SB          0D19074
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## 7077                    SB            0D1907A
## 7078                    SB            0D1907B
## 7079                    SB            0D190J4
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## 7083                    SB            0D190K4
## 7084                    SB            0D190K9
## 7085                    SB            0D190KA
## 7086                    SB            0D190KB
## 7087                    SB            0D190Z4
## 7088                    SB            0D190Z9
## 7089                    SB            0D190ZA
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## 7092                    SB            0D19479
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## 7094                    SB            0D1947B
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## 7098                    SB            0D194JB
## 7099                    SB            0D194K4
## 7100                    SB            0D194K9
## 7101                    SB            0D194KA
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## 7103                    SB            0D194Z4
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## 7105                    SB            0D194ZA
## 7106                    SB            0D194ZB
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## 7174                    SB           0DB94ZZ
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## 7183                    SB           0DH842Z
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## 7236                    SB           0DQA4ZZ
## 7237                    SB           0DQB0ZZ
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## 7290                    SPLE       07PP4YZ
## 7291                    SPLE       07QP0ZZ
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## 8820              XLAP        OW1J0JG
## 8821              XLAP        OW1J0JJ
## 8822              XLAP        OW1J0JW
## 8823              XLAP        OW1J0JY
## 8824              XLAP        OW1J4J4
## 8825              XLAP        OW1J4J9
## 8826              XLAP        OW1J4JB
## 8827              XLAP        OW1J4JG
## 8828              XLAP        OW1J4JJ
## 8829              XLAP        OW1J4JW
## 8830              XLAP        OW1J4JY
## 8831              XLAP        OW3G0ZZ
## 8832              XLAP        OW3G4ZZ
## 8833              XLAP        OW3H0ZZ
## 8834              XLAP        OW3H4ZZ
## 8835              XLAP        OW3J0ZZ
## 8836              XLAP        OW3J4ZZ
## 8837              XLAP        OW3P0ZZ
## 8838              XLAP        OW3P4ZZ
## 8839              XLAP        OW9G00Z
## 8840              XLAP        OW9G0ZZ
## 8841              XLAP        OW9G40Z
## 8842              XLAP        OW9G4ZZ
## 8843              XLAP        OW9H00Z
## 8844              XLAP        OW9H0ZZ
## 8845              XLAP        OW9H40Z
## 8846              XLAP        OW9H4ZZ
## 8847              XLAP        OW9J00Z
## 8848              XLAP        OW9J0ZZ
## 8849              XLAP        OW9J40Z
## 8850              XLAP        OW9J4ZZ
## 8851              XLAP        OWBF0ZZ
## 8852              XLAP        OWBF4ZZ
## 8853              XLAP        OWBH0ZZ
## 8854              XLAP        OWBH4ZZ
## 8855              XLAP        OWCG0ZZ
## 8856              XLAP        OWCG4ZZ
## 8857              XLAP        OWCH0ZZ
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## 8858            XLAP         OWCH4ZZ
## 8859            XLAP         OWCJ0ZZ
## 8860            XLAP         OWCJ4ZZ
## 8861            XLAP         OWCP0ZZ
## 8862            XLAP         OWCP4ZZ
## 8863            XLAP         OWCR0ZZ
## 8864            XLAP         OWCR4ZZ
## 8865            XLAP         OWFG0ZZ
## 8866            XLAP         OWFG4ZZ
## 8867            XLAP         OWFJ0ZZ
## 8868            XLAP         OWFJ4ZZ
## 8869            XLAP         OWHF01Z
## 8870            XLAP         OWHF03Z
## 8871            XLAP         OWHF0YZ
## 8872            XLAP         OWHF41Z
## 8873            XLAP         OWHF43Z
## 8874            XLAP         OWHF4YZ
## 8875            XLAP         OWHG01Z
## 8876            XLAP         OWHG03Z
## 8877            XLAP         OWHG0YZ
## 8878            XLAP         OWHG41Z
## 8879            XLAP         OWHG43Z
## 8880            XLAP         OWHG4YZ
## 8881            XLAP         OWHH01Z
## 8882            XLAP         OWHH03Z
## 8883            XLAP         OWHH0YZ
## 8884            XLAP         OWHH41Z
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## 8886            XLAP         OWHH4YZ
## 8887            XLAP         OWHJ01Z
## 8888            XLAP         OWHJ03Z
## 8889            XLAP         OWHJ0YZ
## 8890            XLAP         OWHJ41Z
## 8891            XLAP         OWHJ43Z
## 8892            XLAP         OWHJ4YZ
## 8893            XLAP         OWJF0ZZ
## 8894            XLAP         OWJF4ZZ
## 8895            XLAP         OWJG0ZZ
## 8896            XLAP         OWJG4ZZ
## 8897            XLAP         OWJH0ZZ
## 8898            XLAP         OWJH4ZZ
## 8899            XLAP         OWJJ0ZZ
## 8900            XLAP         OWJJ4ZZ
## 8901            XLAP         OWJP0ZZ
## 8902            XLAP         OWJP4ZZ
## 8903            XLAP         OWJR0ZZ
## 8904            XLAP         OWJR4ZZ
## 8905            XLAP         OWMF0ZZ
## 8906            XLAP         OWPF00Z
## 8907            XLAP         OWPF01Z
## 8908            XLAP         OWPF03Z
## 8909            XLAP         OWPF07Z
## 8910            XLAP         OWPF0JZ
## 8911            XLAP         OWPF0KZ
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## 8912                    XLAP           OWPF0YZ
## 8913                    XLAP           OWPF40Z
## 8914                    XLAP           OWPF41Z
## 8915                    XLAP           OWPF43Z
## 8916                    XLAP           OWPF47Z
## 8917                    XLAP           OWPF4JZ
## 8918                    XLAP           OWPF4KZ
## 8919                    XLAP           OWPF4YZ
## 8920                    XLAP           OWPG00Z
## 8921                    XLAP           OWPG01Z
## 8922                    XLAP           OWPG03Z
## 8923                    XLAP           OWPG0JZ
## 8924                    XLAP           OWPG0YZ
## 8925                    XLAP           OWPG40Z
## 8926                    XLAP           OWPG41Z
## 8927                    XLAP           OWPG43Z
## 8928                    XLAP           OWPG4JZ
## 8929                    XLAP           OWPG4YZ
## 8930                    XLAP           OWPH00Z
## 8931                    XLAP           OWPH01Z
## 8932                    XLAP           OWPH03Z
## 8933                    XLAP           OWPH0YZ
## 8934                    XLAP           OWPH40Z
## 8935                    XLAP           OWPH41Z
## 8936                    XLAP           OWPH43Z
## 8937                    XLAP           OWPH4YZ
## 8938                    XLAP           OWPJ00Z
## 8939                    XLAP           OWPJ01Z
## 8940                    XLAP           OWPJ03Z
## 8941                    XLAP           OWPJ0JZ
## 8942                    XLAP           OWPJ0YZ
## 8943                    XLAP           OWPJ40Z
## 8944                    XLAP           OWPJ41Z
## 8945                    XLAP           OWPJ43Z
## 8946                    XLAP           OWPJ4JZ
## 8947                    XLAP           OWPJ4YZ
## 8948                    XLAP           OWPP01Z
## 8949                    XLAP           OWPP03Z
## 8950                    XLAP           OWPP0YZ
## 8951                    XLAP           OWPP41Z
## 8952                    XLAP           OWPP43Z
## 8953                    XLAP           OWPP4YZ
## 8954                    XLAP           OWWF00Z
## 8955                    XLAP           OWWF01Z
## 8956                    XLAP           OWWF03Z
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## 8961                    XLAP           OWWF40Z
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## 8965                    XLAP           OWWF4JZ
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## 8966                    XLAP        OWWF4KZ
## 8967                    XLAP        OWWF4YZ
## 8968                    XLAP        OWWG00Z
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## 8972                    XLAP        OWWG40Z
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## 8980                    XLAP        OWWH40Z
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## 8982                    XLAP        OWWH43Z
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## 8984                    XLAP        OWWJ00Z
## 8985                    XLAP        OWWJ01Z
## 8986                    XLAP        OWWJ03Z
## 8987                    XLAP        OWWJ0JZ
## 8988                    XLAP        OWWJ0YZ
## 8989                    XLAP        OWWJ40Z
## 8990                    XLAP        OWWJ41Z
## 8991                    XLAP        OWWJ43Z
## 8992                    XLAP        OWWJ4JZ
## 8993                    XLAP        OWWJ4YZ
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## 3                                                          Replacement o
## 4                                                                  Repla
## 5                                                      Replacement of Al
## 6                                    Replacement of Abdominal Aorta w
## 7                                            Replacement of Abdominal
## 8                            Replacement of Abdominal Aorta with
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## 174                                                       Drainage 
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## 179                                                         Ext
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## 184                               Bypass Innominate Art
## 185                               Bypass Innominate Art
## 186                          Bypass Innominate Artery to
## 187                              Bypass Innominate Artery
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## 188                                                                  Bypass Innominate Artery
## 189                                                     Bypass Innominate Artery to Le
## 190                                                                    Bypass Innominate
## 191                                                                    Bypass Innominate
## 192                                                            Bypass Innominate Artery
## 193                                                     Bypass Innominate Artery to U
## 194                                                     Bypass Innominate Artery to 
## 195                                             Bypass Innominate Artery to Lower 
## 196
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## 198
## 199                                                       Bypass Right Subclavian Arte
## 200                                                       Bypass Right Subclavian Arte
## 201                                             Bypass Right Subclavian Artery to 
## 202                                                   Bypass Right Subclavian Artery
## 203                                                   Bypass Right Subclavian Artery
## 204                                             Bypass Right Subclavian Artery to Le
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## 208                                             Bypass Right Subclavian Artery to U
## 209                                             Bypass Right Subclavian Artery to 
## 210                                     Bypass Right Subclavian Artery to Lower 
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## 213                                                                              Bypa
## 214                                                       Bypass Left Subclavian Arte
## 215                                                       Bypass Left Subclavian Arte
## 216                                             Bypass Left Subclavian Artery to 
## 217                                                   Bypass Left Subclavian Artery
## 218                                                   Bypass Left Subclavian Artery
## 219                                             Bypass Left Subclavian Artery to Le
## 220                                                         Bypass Left Subclavian
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## 222                                                   Bypass Left Subclavian Artery
## 223                                             Bypass Left Subclavian Artery to U
## 224                                             Bypass Left Subclavian Artery to 
## 225                                     Bypass Left Subclavian Artery to Lower 
## 226
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## 228                                                                           By
## 229                                                       Bypass Right Axillary Arte
## 230                                                       Bypass Right Axillary Arte
## 231                                             Bypass Right Axillary Artery to 
## 232                                                   Bypass Right Axillary Artery
## 233                                                   Bypass Right Axillary Artery
## 234                                             Bypass Right Axillary Artery to Le
## 235                                                         Bypass Right Axillary
## 236                                                         Bypass Right Axillary
## 237                                                   Bypass Right Axillary Artery
## 238                                             Bypass Right Axillary Artery to U
## 239                                             Bypass Right Axillary Artery to 
## 240                                     Bypass Right Axillary Artery to Lower 
## 241
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## 242
## 243                                                                              By
## 244                                                  Bypass Left Axillary Arte
## 245                                                  Bypass Left Axillary Arte
## 246                                              Bypass Left Axillary Artery to
## 247                                                  Bypass Left Axillary Artery
## 248                                                  Bypass Left Axillary Artery
## 249                                          Bypass Left Axillary Artery to Le
## 250                                                      Bypass Left Axillary
## 251                                                      Bypass Left Axillary
## 252                                                  Bypass Left Axillary Arte
## 253                                                  Bypass Left Axillary Artery
## 254                                              Bypass Left Axillary Artery to U
## 255                                              Bypass Left Axillary Artery to I
## 256                                      Bypass Left Axillary Artery to Super
## 257                                      Bypass Left Axillary Artery to Lower I
## 258
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## 261                                                                            I
## 262                                                  Bypass Right Brachial Arte
## 263                                                  Bypass Right Brachial Arte
## 264                                              Bypass Right Brachial Artery t
## 265                                              Bypass Right Brachial Artery to
## 266                                                  Bypass Right Brachial Artery
## 267                                                  Bypass Right Brachial Artery
## 268                                              Bypass Right Brachial Artery to
## 269                                          Bypass Right Brachial Artery to Le
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## 271                                                      Bypass Right Brachial
## 272                                                  Bypass Right Brachial Arte
## 273                                                  Bypass Right Brachial Artery
## 274                                              Bypass Right Brachial Artery to U
## 275                                              Bypass Right Brachial Artery to I
## 276                                      Bypass Right Brachial Artery to Super
## 277                                      Bypass Right Brachial Artery to Lower I
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## 281                                                                            By
## 282                                                  Bypass Left Brachial Arte
## 283                                                  Bypass Left Brachial Arte
## 284                                              Bypass Left Brachial Artery t
## 285                                              Bypass Left Brachial Artery to
## 286                                                  Bypass Left Brachial Artery
## 287                                                  Bypass Left Brachial Artery
## 288                                              Bypass Left Brachial Artery to
## 289                                          Bypass Left Brachial Artery to Le
## 290                                                      Bypass Left Brachial
## 291                                                      Bypass Left Brachial
## 292                                                  Bypass Left Brachial Arte
## 293                                                  Bypass Left Brachial Artery
## 294                                              Bypass Left Brachial Artery to U
## 295                                              Bypass Left Brachial Artery to I
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## 296                                                           Bypass Left Brachial Artery to Super
## 297                                                           Bypass Left Brachial Artery to Lower
## 298
## 299
## 300
## 301                                                                                              
## 302                                                           Bypass Right Ulnar Arte
## 303                                                           Bypass Right Ulnar Artery
## 304                                                              Bypass Right Ulnar
## 305                                                           Bypass Right Ulnar Artery to
## 306
## 307                                                            Bypass Left Ulnar Arte
## 308                                                            Bypass Left Ulnar Artery
## 309                                                               Bypass Left Ulnar
## 310                                                            Bypass Left Ulnar Artery to
## 311
## 312                                                           Bypass Right Radial Arte
## 313                                                           Bypass Right Radial Artery
## 314                                                              Bypass Right Radial
## 315                                                           Bypass Right Radial Artery to
## 316
## 317                                                            Bypass Left Radial Arte
## 318                                                            Bypass Left Radial Artery
## 319                                                               Bypass Left Radial
## 320                                                            Bypass Left Radial Artery to
## 321
## 322                                                           Bypass Right Femoral Artery to
## 323                                                           Bypass Right Femoral Artery to Le
## 324                                                              Bypass Right Femoral Artery
## 325                                                           Bypass Right Femoral Artery to Lower
## 326                                                                                              
## 327                                                  Bypass Right Femoral Artery to Lower Extremity Ve
## 328                                                  Bypass Right Femoral Artery to Lower Extremity Vein
## 329                                                     Bypass Right Femoral Artery to Lower Extremity
## 330                                          Bypass Right Femoral Artery to Lower Extremity Vein with
## 331                                                               Bypass Right Femoral
## 332                                                           Bypass Left Femoral Artery to
## 333                                                           Bypass Left Femoral Artery to Le
## 334                                                              Bypass Left Femoral Artery
## 335                                                           Bypass Left Femoral Artery to Lower
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## 337                                                  Bypass Left Femoral Artery to Lower Extremity Ve
## 338                                                  Bypass Left Femoral Artery to Lower Extremity Vein
## 339                                                     Bypass Left Femoral Artery to Lower Extremity
## 340                                          Bypass Left Femoral Artery to Lower Extremity Vein with
## 341                                                               Bypass Left Femoral
## 342                                                           Bypass Right Popliteal Artery to
## 343                                                           Bypass Right Popliteal Artery to Le
## 344                                                              Bypass Right Popliteal Artery
## 345                                                           Bypass Right Popliteal Artery to Lower
## 346                                                                                            Byp
## 347                                                  Bypass Right Popliteal Artery to Lower Extremity Ve
## 348                                                  Bypass Right Popliteal Artery to Lower Extremity Vein
## 349                                                     Bypass Right Popliteal Artery to Lower Extremity
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## 350             Bypass Right Popliteal Artery to Lower Extremity Vein with
## 351                                  Bypass Right Popliteal
## 352                          Bypass Left Popliteal Artery to
## 353                       Bypass Left Popliteal Artery to Lo
## 354                             Bypass Left Popliteal Artery
## 355                   Bypass Left Popliteal Artery to Lower
## 356                                                     By
## 357             Bypass Left Popliteal Artery to Lower Extremity Ve
## 358             Bypass Left Popliteal Artery to Lower Extremity Vein
## 359                Bypass Left Popliteal Artery to Lower Extremity
## 360       Bypass Left Popliteal Artery to Lower Extremity Vein with
## 361                             Bypass Left Popliteal
## 362                       Bypass Right Peroneal Artery to
## 363                    Bypass Right Peroneal Artery to Lo
## 364                          Bypass Right Peroneal Artery
## 365                Bypass Right Peroneal Artery to Lower
## 366                                                  By
## 367             Bypass Right Peroneal Artery to Lower Extremity Ve
## 368             Bypass Right Peroneal Artery to Lower Extremity Vein
## 369                Bypass Right Peroneal Artery to Lower Extremity
## 370       Bypass Right Peroneal Artery to Lower Extremity Vein with
## 371                             Bypass Right Peroneal
## 372                       Bypass Left Peroneal Artery to
## 373                    Bypass Left Peroneal Artery to Lo
## 374                          Bypass Left Peroneal Artery
## 375                Bypass Left Peroneal Artery to Lower
## 376                                                   L
## 377             Bypass Left Peroneal Artery to Lower Extremity Ve
## 378             Bypass Left Peroneal Artery to Lower Extremity Vein
## 379                Bypass Left Peroneal Artery to Lower Extremity
## 380       Bypass Left Peroneal Artery to Lower Extremity Vein with
## 381                             Bypass Left Peroneal
## 382                       Bypass Right Foot Artery to
## 383                    Bypass Right Foot Artery to Lo
## 384                          Bypass Right Foot Artery
## 385                Bypass Right Foot Artery to Lower
## 386
## 387             Bypass Right Foot Artery to Lower Extremity Ve
## 388             Bypass Right Foot Artery to Lower Extremity Vein
## 389                Bypass Right Foot Artery to Lower Extremity
## 390       Bypass Right Foot Artery to Lower Extremity Vein with
## 391                             Bypass Right Foot
## 392                       Bypass Left Foot Artery to
## 393                    Bypass Left Foot Artery to Lo
## 394                          Bypass Left Foot Artery
## 395                Bypass Left Foot Artery to Lower
## 396
## 397             Bypass Left Foot Artery to Lower Extremity Ve
## 398             Bypass Left Foot Artery to Lower Extremity Vein
## 399                Bypass Left Foot Artery to Lower Extremity
## 400       Bypass Left Foot Artery to Lower Extremity Vein with
## 401                             Bypass Left Foot
## 402
## 403
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## 404
## 405
## 406                                                   Bypass Righ
## 407                                                  Bypass Rig
## 408                                       Bypass Right Hepatic
## 409                                       Bypass Right Hepatic
## 410                                  Bypass Right Hepatic Du
## 411                                             Bypass Right H
## 412                                    Bypass Right Hepati
## 413                                    Bypass Right Hepat
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## 422                            Bypass Right Hepatic Duct to D
## 423                            Bypass Right Hepatic Duct to S
## 424            Bypass Right Hepatic Duct to Right Hepat
## 425             Bypass Right Hepatic Duct to Left Hepat
## 426          Bypass Right Hepatic Duct to Caudate Hepat
## 427                  Bypass Right Hepatic Duct to Cyst
## 428             Bypass Right Hepatic Duct to Common Bil
## 429             Bypass Right Hepatic Duct to Small In
## 430                                              Bypas
## 431                                              Bypa
## 432                            Bypass Right Hep
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## 434                         Bypass Right Hepa
## 435                                   Bypass R
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## 454                            Bypass Left Hepatic Duct to D
## 455                            Bypass Left Hepatic Duct to S
## 456           Bypass Left Hepatic Duct to Right Hepat
## 457            Bypass Left Hepatic Duct to Left Hepat
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## 458           Bypass Left Hepatic Duct to Caudate Hepat
## 459              Bypass Left Hepatic Duct to Cyst
## 460          Bypass Left Hepatic Duct to Common Bil
## 461          Bypass Left Hepatic Duct to Small In
## 462                              Bypas
## 463                                Byp
## 464                       Bypass Left Hep
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## 468                       Bypass Left
## 469                        Bypass Left
## 470                       Bypass Commo
## 471                       Bypass Comme
## 472               Bypass Common Hepatic
## 473                Bypass Common Hepatic
## 474           Bypass Common Hepatic Du
## 475                  Bypass Common He
## 476             Bypass Common Hepati
## 477              Bypass Common Hepat
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## 485
## 486            Bypass Common Hepatic Duct to Du
## 487              Bypass Common Hepatic Duct to S
## 488       Bypass Common Hepatic Duct to Right Hepat
## 489       Bypass Common Hepatic Duct to Left Hepat
## 490      Bypass Common Hepatic Duct to Caudate Hepat
## 491            Bypass Common Hepatic Duct to Cyst
## 492       Bypass Common Hepatic Duct to Common Bil
## 493       Bypass Common Hepatic Duct to Small In
## 494                             Bypass
## 495                              Bypass
## 496                   Bypass Common Hep
## 497                   Bypass Common He
## 498              Bypass Common Hepat
## 499                        Bypass Co
## 500              Bypass Common
## 501                Bypass Common
## 502                              Bypas
## 503                                Byp
## 504                      Bypass Cystic
## 505                      Bypass Cystic
## 506             Bypass Cystic Du
## 507                         Bypass C
## 508              Bypass Cysti
## 509               Bypass Cysti
## 510
## 511
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## 512
## 513
## 514
## 515
## 516
## 517
## 518                                      Bypass Cystic Duct to Du
## 519                                      Bypass Cystic Duct to S
## 520                          Bypass Cystic Duct to Right Hepati
## 521                           Bypass Cystic Duct to Left Hepati
## 522                        Bypass Cystic Duct to Caudate Hepati
## 523                                  Bypass Cystic Duct to Cysti
## 524                          Bypass Cystic Duct to Common Bil
## 525                           Bypass Cystic Duct to Small Int
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## 527
## 528                                            Bypass Cy
## 529                                          Bypass C
## 530                                       Bypass Cyst
## 531                                               By
## 532                                      Bypass
## 533                                         Bypass
## 534                          Bypass Co
## 535                          Bypass Co
## 536                      Bypass Common Bile
## 537                      Bypass Common Bile
## 538                    Bypass Common Bile Duc
## 539                          Bypass Common
## 540                      Bypass Common Bile
## 541                        Bypass Common Bil
## 542
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## 549
## 550                     Bypass Common Bile Duct to Du
## 551                      Bypass Common Bile Duct to S
## 552          Bypass Common Bile Duct to Right Hepati
## 553           Bypass Common Bile Duct to Left Hepati
## 554        Bypass Common Bile Duct to Caudate Hepati
## 555                  Bypass Common Bile Duct to Cysti
## 556          Bypass Common Bile Duct to Common Bil
## 557           Bypass Common Bile Duct to Small Int
## 558                                          Bypa
## 559                                            By
## 560                          Bypass Common
## 561                          Bypass Common
## 562                      Bypass Common Bi
## 563                                  Bypass
## 564                      Bypass Comme
## 565                        Bypass Comm
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## 566                                                             Bypass Pa
## 567                                                      Bypass Pancreati
## 568                                                      Bypass Pancreati
## 569
## 570
## 571
## 572                                         Bypass Pancreatic Duct to Du
## 573                              Bypass Pancreatic Duct to Small Int
## 574                              Bypass Pancreatic Duct to Large Int
## 575                                                                   Byp
## 576                                                      Bypass Pan
## 577                                                      Bypass Pan
## 578                                         Bypass Accessory Pa
## 579                                  Bypass Accessory Pancreati
## 580                                         Bypass Accessory Pancreati
## 581
## 582                                                                    B
## 583                                                                    B
## 584                             Bypass Accessory Pancreatic Duct to Du
## 585                  Bypass Accessory Pancreatic Duct to Small Int
## 586                  Bypass Accessory Pancreatic Duct to Large Int
## 587                                                 Bypass Acces
## 588                                         Bypass Accessory Pa
## 589                                         Bypass Accessory Pa
## 590                                                                   B
## 591                                                      Bypass Pa
## 592                                                      Bypass Pa
## 593
## 594
## 595
## 596                                         Bypass Pancreas to Du
## 597                                  Bypass Pancreas to Small Int
## 598                                         Bypass Pancreas to Large Int
## 599
## 600                                                                   Byp
## 601                                                                   Byp
## 602                                                      Desti
## 603
## 604                             Destruction of Liver us
## 605
## 606                                         Destruction of L
## 607
## 608                  Destruction of Right Lobe Liver us
## 609
## 610                                         Destruction of
## 611
## 612                  Destruction of Left Lobe Liver us
## 613
## 614
## 615                                                                   De
## 616
## 617                                                                    L
## 618
## 619                                                                   De
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## 620
## 621
## 622
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## 625
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## 628
## 629                                                              Destruct
## 630                                                               Destruc
## 631
## 632                                        Destruction of Pancreas us
## 633
## 634                                                               Dila
## 635
## 636                                        Dilation of Right Hepat
## 637
## 638                                                               Dil
## 639
## 640                                         Dilation of Left Hepat
## 641
## 642                                                               Dilat
## 643
## 644                                       Dilation of Common Hepat
## 645
## 646
## 647
## 648                                           Dilation of Cyst
## 649
## 650                                                               Dil
## 651
## 652                                        Dilation of Common Bil
## 653
## 654                                                               Dil
## 655
## 656                                         Dilation of Ampulla o
## 657
## 658                                                               D
## 659
## 660                                         Dilation of Pancreat
## 661
## 662                                               Dilation of
## 663
## 664                          Dilation of Accessory Pancreat
## 665                                                          Dilat
## 666
## 667
## 668
## 669
## 670                                                       Drainag
## 671
## 672
## 673
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```
## 674                                                                    Drainage of Right
## 675
## 676
## 677
## 678                                                                     Drainage of Left
## 679
## 680                                                                                     1
## 681
## 682                                                                 Drainage of Right He
## 683
## 684
## 685
## 686                                                                  Drainage of Left He
## 687
## 688                                                                                    Di
## 689
## 690                                                               Drainage of Common He
## 691
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## 693
## 694                                                                   Drainage of C
## 695
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## 697
## 698                                                                 Drainage of Commor
## 699
## 700
## 701
## 702                                                                  Drainage of Ampul
## 703
## 704
## 705
## 706                                                                  Drainage of Panc
## 707
## 708                                                                        Drainage
## 709
## 710                                              Drainage of Accessory Panc
## 711                                                                     Draina
## 712
## 713
## 714                                                                   Drainage c
## 715
## 716
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## 718
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737   Excisi
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741   Extirpation of
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745   Extirpation of
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749   Extirpation
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751   Extirpation
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753   Extirpation
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755   Extirpation of Matte
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757   Exti
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769   F:
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773   Fragmenta
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777   Insertion
778   Insertio
779   Inser
780   Ir
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```
## 782                                                               Insertion of Monitor
## 783                                                          Insertion of Infus
## 784                                                                            I
## 785
## 786                                                              Insertion of Monitor
## 787                                                          Insertion of Infus
## 788                                                                    Insert
## 789                                                                      Ins
## 790                                                                         I
## 791                                                                  Insert
## 792
## 793                                                  Insertion of Radioactive
## 794                                                  Insertion of Monitoring
## 795                                                   Insertion of Infusion
## 796                                              Insertion of Intraluminal
## 797                                                    Insertion of Other
## 798                                                                     Ins
## 799                                                                        I
## 800
## 801                                                                     Ins
## 802
## 803                                                 Insertion of Radioacti
## 804                                                 Insertion of Monitor
## 805                                                  Insertion of Infus
## 806                                              Insertion of Intralum
## 807                                                   Insertion of Ot
## 808
## 809
## 810
## 811                                                     Insertion of
## 812                                                    Insertion o
## 813                                                       Inserti
## 814                                                        Occlus
## 815                                                        Occlus
## 816
## 817                                           Occlusion of Right Hepati
## 818                                           Occlusion of Right Hepati
## 819
## 820                                                              Occlu
## 821                                                              Occlu
## 822
## 823                                            Occlusion of Left Hepati
## 824                                            Occlusion of Left Hepati
## 825
## 826                                                             Occlus
## 827                                                             Occlus
## 828
## 829                                       Occlusion of Common Hepati
## 830                                       Occlusion of Common Hepati
## 831                                                                 O
## 832
## 833
## 834
## 835                                                   Occlusion of Cysti
```

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## 836                                                Occlusion of Cyst
## 837
## 838                                                         Occl
## 839                                                         Occl
## 840
## 841                               Occlusion of Common Bil
## 842                               Occlusion of Common Bil
## 843
## 844                                                         Occl
## 845                                                         Occl
## 846
## 847                               Occlusion of Ampulla o
## 848                               Occlusion of Ampulla o
## 849
## 850                                                         Oc
## 851                                                         Oc
## 852
## 853                                Occlusion of Pancreat
## 854                                Occlusion of Pancreat
## 855
## 856                                      Occlusion of
## 857                                      Occlusion of
## 858
## 859                 Occlusion of Accessory Pancreat
## 860                 Occlusion of Accessory Pancreat
## 861                                               Occlus
## 862
## 863
## 864
## 865                                                       I
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## 869                                               Rea
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## 873                                             Rea
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## 877                                                       I
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## 879                                                       I
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## 881
## 882
## 883                               Reattachme
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## 890                                                                   Remova
## 891                                                           Removal
## 892                                                            Remova
## 893                                                               Rem
## 894
## 895                                                              Rem
## 896                                                               R
## 897
## 898                                              Removal of Au
## 899                                                        Rem
## 900                                                        Rem
## 901                                                       Remov
## 902                                          Removal of Nona
## 903
## 904                                             Removal of Drainag
## 905                                      Removal of Radioactive
## 906                                        Removal of Monitorin
## 907                                         Removal of Infusion
## 908                            Removal of Autologous Tissue Sul
## 909                                      Removal of Extraluminal
## 910                                      Removal of Intraluminal
## 911                                      Removal of Synthetic Sul
## 912                     Removal of Nonautologous Tissue Sul
## 913                                            Removal of Othe
## 914
## 915                                                              l
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## 917
## 918                                                  Removal o
## 919                                                              l
## 920                                                              l
## 921                                                           Re
## 922                                           Removal of No
## 923
## 924                                              Removal of Drai
## 925                                       Removal of Radioacti
## 926                                         Removal of Monitor
## 927                                          Removal of Infus
## 928                            Removal of Autologous Tissue
## 929                                      Removal of Extralumi
## 930                                      Removal of Intralumi
## 931                                      Removal of Synthetic
## 932                     Removal of Nonautologous Tissue
## 933                                            Removal of Ot
## 934
## 935
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## 937
## 938
## 939                                             Removal c
## 940                                      Removal of
## 941                                             Removal c
## 942                                          Removal of In
## 943                                                  Remova
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965   R
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968   Replacement of Ri
969   Replaceme
970   Replacement of Righ
971   Replacement of Right Hepatic Duct wi
972   Replacement of Right Hepati
973   Replacement of Right Hepatic Duct with
974   Replacement of L
975   Replacem
976   Replacement of Left
977   Replacement of Left Hepatic Duct wi
978   Replacement of Left Hepati
979   Replacement of Left Hepatic Duct with
980   Replacement of Com
981   Replacemen
982   Replacement of Common
983   Replacement of Common Hepatic Duct wi
984   Replacement of Common Hepati
985   Replacement of Common Hepatic Duct with
986   Replacemen
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988   Replacement o
989   Replacement of Cystic Duct wi
990   Replacement of Cysti
991   Replacement of Cystic Duct with
992   Replacement of
993   Replace
994   Replacement of Con
995   Replacement of Common Bile Duct wi
996   Replacement of Common Bile
997   Replacement of Common Bile Duct with

```
## 998                                                       Replacement of
## 999                                                          Replace
## 1000                                            Replacement of Amp
## 1001                                  Replacement of Ampulla of Vater wi
## 1002                                       Replacement of Ampulla of
## 1003                                  Replacement of Ampulla of Vater with
## 1004                                                  Replacement o
## 1005                                                        Replac
## 1006                                            Replacement of Pan
## 1007                                 Replacement of Pancreatic Duct wi
## 1008                                      Replacement of Pancreatic
## 1009                                 Replacement of Pancreatic Duct with
## 1010                                       Replacement of Accessory
## 1011                                          Replacement of A
## 1012                                 Replacement of Accessory Pa
## 1013                       Replacement of Accessory Pancreatic Duct wi
## 1014                            Replacement of Accessory Pancreatic
## 1015                       Replacement of Accessory Pancreatic Duct with
## 1016
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## 1027                                                                       R
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## 1036
## 1037                                                              Resecti
## 1038
## 1039
## 1040                                            Supplement Ri
## 1041                                                  Suppl
## 1042                                        Supplement Righ
## 1043                            Supplement Right Hepatic Duct wi
## 1044                                 Supplement Right Hepatic
## 1045                            Supplement Right Hepatic Duct with
## 1046                                          Supplement
## 1047                                                Supp
## 1048                                      Supplement Left
## 1049                            Supplement Left Hepatic Duct wi
## 1050                                 Supplement Left Hepatic
## 1051                            Supplement Left Hepatic Duct with
```

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## 1052                                                            Supplement Com
## 1053                                                                  Supple
## 1054                                                       Supplement Common
## 1055                               Supplement Common Hepatic Duct w
## 1056                                           Supplement Common Hepatic
## 1057                               Supplement Common Hepatic Duct with
## 1058                                                                Supple
## 1059
## 1060                                                         Supplemer
## 1061                                      Supplement Cystic Duct w
## 1062                                                  Supplement Cysti
## 1063                                  Supplement Cystic Duct with
## 1064                                                       Supplement
## 1065                                                              Sup
## 1066                                                  Supplement Co
## 1067                                 Supplement Common Bile Duct w
## 1068                                             Supplement Common Bil
## 1069                                 Supplement Common Bile Duct with
## 1070                                                       Supplement
## 1071                                                              Sup
## 1072                                                  Supplement Amp
## 1073                                Supplement Ampulla of Vater w
## 1074                                            Supplement Ampulla of
## 1075                                Supplement Ampulla of Vater with
## 1076                                                       Supplement
## 1077                                                              Su
## 1078                                                  Supplement Pa
## 1079                               Supplement Pancreatic Duct w
## 1080                                           Supplement Pancreatic
## 1081                               Supplement Pancreatic Duct with
## 1082                                            Supplement Accessory
## 1083                                                  Supplement A
## 1084                                        Supplement Accessory Pa
## 1085                     Supplement Accessory Pancreatic Duct w
## 1086                                 Supplement Accessory Pancreatic
## 1087                     Supplement Accessory Pancreatic Duct with
## 1088                                                       Restric
## 1089                                                       Restric
## 1090
## 1091                                   Restriction of Right Hepat
## 1092                                   Restriction of Right Hepat
## 1093                                                              Re
## 1094                                                       Restric
## 1095                                                       Restric
## 1096
## 1097                                    Restriction of Left Hepat
## 1098                                    Restriction of Left Hepat
## 1099                                                              R
## 1100                                                       Restricti
## 1101                                                       Restricti
## 1102
## 1103                                 Restriction of Common Hepat
## 1104                                 Restriction of Common Hepat
## 1105                                                              Res
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## 1106                                                                              R
## 1107                                                                              R
## 1108
## 1109                                              Restriction of Cyst
## 1110                                              Restriction of Cyst
## 1111
## 1112                                                      Restri
## 1113                                                      Restri
## 1114
## 1115                                      Restriction of Common Bil
## 1116                                      Restriction of Common Bil
## 1117
## 1118                                                       Restri
## 1119                                                       Restri
## 1120
## 1121                                      Restriction of Ampulla o
## 1122                                      Restriction of Ampulla o
## 1123
## 1124                                                        Rest
## 1125                                                        Rest
## 1126
## 1127                                      Restriction of Pancreat
## 1128                                      Restriction of Pancreat
## 1129
## 1130                                         Restriction of
## 1131                                         Restriction of
## 1132
## 1133                     Restriction of Accessory Pancreat
## 1134                     Restriction of Accessory Pancreat
## 1135                                             Restricti
## 1136
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## 1140                                                     Revi
## 1141                                                  Revisi
## 1142                                                   Revi
## 1143                                                      R
## 1144
## 1145                                                       R
## 1146
## 1147                                       Revision of
## 1148                                                  Rev
## 1149                                                  Rev
## 1150                                                 Revi
## 1151                                    Revision of Nor
## 1152
## 1153                              Revision of Draina
## 1154                           Revision of Monitori
## 1155                            Revision of Infusi
## 1156        Revision of Autologous Tissue
## 1157                     Revision of Extralumin
## 1158                     Revision of Intralumin
## 1159                      Revision of Synthetic
```

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## 1160                                                                 Revision of Nonautologous Tissue S
## 1161                                                                         Revision of Ot
## 1162
## 1163
## 1164
## 1165                                                                 Revision
## 1166
## 1167
## 1168                                                                        
## 1169                                                             Revision of 
## 1170
## 1171                                                           Revision of Dr
## 1172                                                          Revision of Moni
## 1173                                                           Revision of In
## 1174                                        Revision of Autologous Tiss
## 1175                                              Revision of Extral
## 1176                                              Revision of Intral
## 1177                                             Revision of Synthet
## 1178                                        Revision of Nonautologous Tiss
## 1179                                                   Revision of 
## 1180
## 1181
## 1182
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## 1184
## 1185                                                            Revisio
## 1186                                                        Revision 
## 1187                                                           Revisio
## 1188                                                   Revision of 
## 1189                                                              Revi
## 1190                                                      Alteration
## 1191                                                             Al
## 1192                                                  Alteration o
## 1193
## 1194                                                     Alterati
## 1195                                                            A
## 1196                                                  Alteration 
## 1197
## 1198                                            Alteration of 
## 1199                                                        Alter
## 1200                                            Alteration of Bi
## 1201
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## 1214
## 1215
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## 1220
## 1221
## 1222                                                                Removal
## 1223
## 1224                                                             Removal o
## 1225
## 1226                                                            Remova
## 1227
## 1228                                                          Removal o
## 1229
## 1230                                                 Replacement of Rig
## 1231                                        Replacement of Right Breast u
## 1232                                      Replacement of Right Breast usi
## 1233                                        Replacement of Right Breas
## 1234                                              Replacement o
## 1235                                              Replacemen
## 1236                                                         Rep
## 1237                                                Replacement o
## 1238                                         Replacement of Le
## 1239                                    Replacement of Left Breast u
## 1240                                  Replacement of Left Breast usi
## 1241                                    Replacement of Left Breas
## 1242                                            Replacement o
## 1243                                               Replacemen
## 1244                                                          Re
## 1245                                             Replacement o
## 1246                                     Replacement of Bilate
## 1247                             Replacement of Bilateral Breast u
## 1248                           Replacement of Bilateral Breast usi
## 1249                             Replacement of Bilateral Breas
## 1250                                    Replacement of Bil
## 1251                                   Replacement of
## 1252                                              Replace
## 1253                               Replacement of Bil
## 1254
## 1255
## 1256
## 1257
## 1258
## 1259
## 1260
## 1261                                                 Supplem
## 1262
## 1263                                              Supplement
## 1264                                              Supple
## 1265
## 1266                                              Supplemen
## 1267                                            Supplement
```

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## 1268                                                               Su
## 1269                                                    Supplement Bil
## 1270
## 1271
## 1272                                                   Transfer Rig
## 1273                                        Transfer Right Trunk Muscl
## 1274                                         Transfer Right Trunk
## 1275                                                   Transfer
## 1276                                        Transfer Right Trunk Muscle, La
## 1277                              Transfer Right Trunk Muscle, Deep Inferior E
## 1278                                Transfer Right Trunk Muscle, Superficial
## 1279                                         Transfer Right Trunk Muscle
## 1280                                                   Transfer Le
## 1281                                         Transfer Left Trunk Muscl
## 1282                                          Transfer Left Trunk
## 1283                                                   Transfe
## 1284                                         Transfer Left Trunk Muscle, La
## 1285                               Transfer Left Trunk Muscle, Deep Inferior E
## 1286                                 Transfer Left Trunk Muscle, Superficial
## 1287                                          Transfer Left Trunk Muscle
## 1288                                          Transfer Right Abdomen Mu
## 1289                              Transfer Right Abdomen Muscle, Transverse Re
## 1290                                          Transfer Left Abdomen Mu
## 1291                              Transfer Left Abdomen Muscle, Transverse Re
## 1292                                                   Occlusio
## 1293                                                   Bypass Rig
## 1294                                          Bypass Right Atri
## 1295                                          Bypass Right Atr
## 1296                                Bypass Right Atrium to Pulmon
## 1297                          Bypass Right Atrium to Right Pulmon
## 1298                          Bypass Right Atrium to Left Pulmon
## 1299                                                   Bypass Le
## 1300                                          Bypass Left Atri
## 1301                                          Bypass Left Atr
## 1302                                          Bypass Left At
## 1303                                          Bypass Left A
## 1304                                 Bypass Left Atrium
## 1305                                 Bypass Left Atrium to
## 1306                                 Bypass Left Atrium t
## 1307                                Bypass Left Atrium to Pulm
## 1308                                 Bypass Left Atrium to R
## 1309                                 Bypass Left Atrium to
## 1310                                Bypass Left Atrium to Pulmon
## 1311                                          Bypass Left Atriu
## 1312                                          Bypass Left Atri
## 1313                                 Bypass Left Atrium to
## 1314                                 Bypass Left Atrium to Right
## 1315                                 Bypass Left Atrium to Left
## 1316                                Bypass Left Atrium to Pulmonary V
## 1317
## 1318
## 1319
## 1320                                Bypass Left Atrium to Pulmon
## 1321                          Bypass Left Atrium to Right Pulmon
```

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## 1322                                                    Bypass Left Atrium to Left Pulmonar
## 1323                                                   Bypass Left Atrium to Right Pulmon
## 1324                                                   Bypass Left Atrium to Left Pulmon
## 1325                                              Bypass Left Atrium to Pulmonary Vein Co
## 1326                                             Bypass Left Atrium to Right Pulmonary Vei
## 1327                                              Bypass Left Atrium to Left Pulmonary Vei
## 1328                                         Bypass Left Atrium to Pulmonary Vein Confluenc
## 1329                                            Bypass Left Atrium to Right Pulmonary Vein
## 1330                                             Bypass Left Atrium to Left Pulmonary Vein
## 1331                                         Bypass Left Atrium to Pulmonary Vein Confluence
## 1332                                                 Bypass Left Atrium to Right Pulmonary
## 1333                                                  Bypass Left Atrium to Left Pulmonary
## 1334                                             Bypass Left Atrium to Pulmonary Vein Confl
## 1335                                        Bypass Left Atrium to Right Pulmonary Vein with
## 1336                                         Bypass Left Atrium to Left Pulmonary Vein with
## 1337                                    Bypass Left Atrium to Pulmonary Vein Confluence with
## 1338                                                                          Bypass Lef
## 1339                                                                          Bypass Le
## 1340                                                                   Bypass Left Atr
## 1341                                                                  Bypass Right V
## 1342                                                          Bypass Right Ventricl
## 1343                                                           Bypass Right Ventric
## 1344                                                          Bypass Right Ventricl
## 1345                                               Bypass Right Ventricle to Ri
## 1346                                                Bypass Right Ventricle to
## 1347                                                 Bypass Right Ventricle
## 1348                                           Bypass Right Ventricle to Rig
## 1349                                            Bypass Right Ventricle to Le
## 1350                                                      Bypass Right Ven
## 1351                                              Bypass Right Ventricle
## 1352                                                Bypass Right Ventricle
## 1353                                           Bypass Right Ventricle to Pu
## 1354                                     Bypass Right Ventricle to Right Pul
## 1355                                      Bypass Right Ventricle to Left Pul
## 1356
## 1357
## 1358
## 1359
## 1360
## 1361
## 1362
## 1363
## 1364
## 1365                                               Bypass Right Ventricle to Pulmona
## 1366                                          Bypass Right Ventricle to Right Pulmona
## 1367                                           Bypass Right Ventricle to Left Pulmona
## 1368                                          Bypass Right Ventricle to Pulmonary Tru
## 1369                                     Bypass Right Ventricle to Right Pulmonary Arte
## 1370                                      Bypass Right Ventricle to Left Pulmonary Arte
## 1371                                          Bypass Right Ventricle to Pulmonary Trunk
## 1372                                 Bypass Right Ventricle to Right Pulmonary Artery
## 1373                                  Bypass Right Ventricle to Left Pulmonary Artery
## 1374                                              Bypass Right Ventricle to Pulmonary
## 1375                                         Bypass Right Ventricle to Right Pulmonary A
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## 1376                                              Bypass Right Ventricle to Left Pulmonary 
## 1377                              Bypass Right Ventricle to Pulmonary Trunk with 
## 1378                  Bypass Right Ventricle to Right Pulmonary Artery with 
## 1379                   Bypass Right Ventricle to Left Pulmonary Artery with 
## 1380                                                   Bypass Right Ve
## 1381                                                  Bypass Right Ven
## 1382                                                 Bypass Right Ver
## 1383                                                    Bypass Rig
## 1384                                                  Bypass Rigl
## 1385                                                   Bypass Rig
## 1386                                                 Bypass Right Ven
## 1387                                                 Bypass Right Ver
## 1388 
## 1389                                          Bypass Left V
## 1390                                       Bypass Left Ventricl
## 1391                                        Bypass Left Ventric
## 1392                                       Bypass Left Ventricl
## 1393                            Bypass Left Ventricle to R
## 1394                            Bypass Left Ventricle to I
## 1395                                  Bypass Left Ventricle 
## 1396                        Bypass Left Ventricle to Rigl
## 1397                        Bypass Left Ventricle to Lex
## 1398                                   Bypass Left Vent
## 1399                          Bypass Left Ventricle t
## 1400                            Bypass Left Ventricle 
## 1401                          Bypass Left Ventricle to Pu
## 1402                   Bypass Left Ventricle to Right Pul
## 1403                    Bypass Left Ventricle to Left Pul
## 1404 
## 1405 
## 1406 
## 1407 
## 1408 
## 1409 
## 1410 
## 1411 
## 1412 
## 1413                            Bypass Left Ventricle to Pulmona
## 1414                       Bypass Left Ventricle to Right Pulmonai
## 1415                         Bypass Left Ventricle to Left Pulmonai
## 1416                        Bypass Left Ventricle to Pulmonary Tru
## 1417               Bypass Left Ventricle to Right Pulmonary Arter
## 1418                Bypass Left Ventricle to Left Pulmonary Arter
## 1419                   Bypass Left Ventricle to Pulmonary Trunk 
## 1420           Bypass Left Ventricle to Right Pulmonary Artery 
## 1421            Bypass Left Ventricle to Left Pulmonary Artery 
## 1422                       Bypass Left Ventricle to Pulmonary 
## 1423                 Bypass Left Ventricle to Right Pulmonary 
## 1424                  Bypass Left Ventricle to Left Pulmonary 
## 1425              Bypass Left Ventricle to Pulmonary Trunk with 
## 1426       Bypass Left Ventricle to Right Pulmonary Artery with 
## 1427        Bypass Left Ventricle to Left Pulmonary Artery with 
## 1428                                              Bypass Left Ve
## 1429                                             Bypass Left Vent
```

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## 1430                                                                              Bypass Left Ve
## 1431                                                                          Bypass L
## 1432                                                                         Bypass Le
## 1433                                                                          Bypass L
## 1434                                                                     Bypass Left Vent
## 1435                                                                     Bypass Left Ver
## 1436
## 1437                                                       Creation of Aortic Valve fr
## 1438                                                             Creation of Aort
## 1439                                                          Creation of Aortic V
## 1440                                                       Creation of Aortic Valve from
## 1441                                      Creation of Mitral Valve from Common Atriove
## 1442                                               Creation of Mitral Valve from Co
## 1443                                              Creation of Mitral Valve from Commo
## 1444                                    Creation of Mitral Valve from Common Atrioventi
## 1445                                   Creation of Tricuspid Valve from Common Atriove
## 1446                                            Creation of Tricuspid Valve from Co
## 1447                                       Creation of Tricuspid Valve from Common
## 1448                              Creation of Tricuspid Valve from Common Atrioventi
## 1449
## 1450
## 1451
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## 1453
## 1454
## 1455
## 1456
## 1457                                                                            Dest
## 1458
## 1459
## 1460                                                                          Dest
## 1461
## 1462                                                                             I
## 1463
## 1464
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## 1466
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## 1468
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## 1474
## 1475
## 1476
## 1477
## 1478                                                                            De
## 1479
## 1480
## 1481                                                                  Dilation of
## 1482
## 1483
```

```
## 1484                                                             Dilation of Aortic Valve with
## 1485                                                                 Dilation of Aortic
## 1486
## 1487                                                          Dilation of
## 1488
## 1489
## 1490                                                             Dilation of Mitral Valve with
## 1491                                                                 Dilation of Mitral
## 1492
## 1493                                                            Dilation of Pul
## 1494                                                                          D
## 1495
## 1496                                                          Dilation of Pulmonary Valve with
## 1497                                                              Dilation of Pulmonary
## 1498
## 1499                                                            Dilation of Tr
## 1500                                                                          D
## 1501
## 1502                                                          Dilation of Tricuspid Valve with
## 1503                                                              Dilation of Tricuspid
## 1504
## 1505                                                            Dilation of Rig
## 1506                                                                          D
## 1507
## 1508                                                          Dilation of Right Ventricle with
## 1509                                                              Dilation of Right Ven
## 1510
## 1511                                                            Dilation of Le
## 1512                                                                         D
## 1513
## 1514                                                          Dilation of Left Ventricle with
## 1515                                                              Dilation of Left Ver
## 1516
## 1517                                                               Dila
## 1518
## 1519                                                       Dilation of Ductus Arteriosus with
## 1520                                                           Dilation of Ductus Arte
## 1521
## 1522
## 1523                                                                          D
## 1524
## 1525
## 1526
## 1527
## 1528
## 1529
## 1530
## 1531
## 1532
## 1533
## 1534                                                                          E
## 1535
## 1536
## 1537                                                                          D
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## 1538
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## 1556
## 1557
## 1558                                                          Extirpati
## 1559
## 1560                                                        Extirpat
## 1561
## 1562                                                       Extirpa
## 1563
## 1564                                      Extirpation of 
## 1565
## 1566                                           Extirpation 
## 1567
## 1568                                          Extirpation 
## 1569
## 1570                                             Extirpat
## 1571
## 1572                                             Extirpat
## 1573
## 1574                                           Extirpation
## 1575
## 1576                                           Extirpation
## 1577
## 1578                                           Extirpation
## 1579
## 1580                                            Extirpatio
## 1581
## 1582                                        Extirpation o
## 1583
## 1584                                            Extirpa
## 1585
## 1586
## 1587
## 1588
## 1589
## 1590
## 1591                        Insertion of Pressure Sensor Mon
```

1592   Insertion of Mon
1593   Insertion of I
1594   Insertion of Intra
1595   Insertion o
1596   Insertion of
1597
1598
1599
1600
1601   Insertion of Pressure Sensor Mor
1602   Insertion of Mor
1603   Insertion of I
1604   Insertion of Intra
1605   Insertion o
1606   Inser
1607   Insertion of Short-term Exter
1608   Insertion of Biventricular
1609   Insertion of
1610
1611   Insertion of Implantabl
1612   Insertion of Short-term External Heart Assist S
1613   Insertion of Biventricular Short-term Externa
1614   Insertion of Short-term External
1615   Inser
1616   Insertion of Pre
1617   I
1618
1619   In
1620
1621   Insertion of Pressure Sensor Monito
1622   Insertion of Monito
1623   Insertion of Infu
1624   Insertion of Intralum
1625   Insertion of O
1626   Insertion of Pr
1627
1628
1629   In
1630
1631   Insertion of Pressure Sensor Monit
1632   Insertion of Monit
1633   Insertion of Inf
1634   Insertion of Intralum
1635   Insertion of (
1636   Insertion of
1637
1638
1639   Insertion of Pressure Sensor Mor
1640   Insertion of Mor
1641   Insertion o
1642   Occlusio
1643
1644   Occlusion of Left Atrial App
1645   Occlusion of Left Atrial App

```
## 1646                                                                                      Occ
## 1647                                                                                      Occ
## 1648                                                                                      Occ
## 1649
## 1650                                                              Occlusion of Pulmonary
## 1651                                                              Occlusion of Pulmonary
## 1652
## 1653
## 1654
## 1655
## 1656
## 1657
## 1658
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## 1684
## 1685
## 1686
## 1687
## 1688
## 1689
## 1690                                                                                      Rer
## 1691                                                  Removal of Biventricular
## 1692                                                            Removal of
## 1693
## 1694                                                         Removal
## 1695                                                             Remova
## 1696                                                  Removal of Autologo
## 1697                                                            Removal
## 1698                                                          Removal o
## 1699                                                          Removal o
```

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```
## 1700                                                                  Removal of
## 1701                                                Removal of Nonautologo
## 1702                                                Removal of Implantable
## 1703             Removal of Biventricular Short-term External
## 1704                              Removal of Short-term External
## 1705                                                                      Rem
## 1706
## 1707
## 1708
## 1709
## 1710
## 1711
## 1712
## 1713
## 1714
## 1715
## 1716
## 1717
## 1718
## 1719
## 1720
## 1721
## 1722
## 1723
## 1724
## 1725
## 1726                                          Repair Aortic V
## 1727
## 1728                                              Repair Mit
## 1729
## 1730                          Repair Mitral Valve created
## 1731
## 1732
## 1733
## 1734                                          Repair Tricusp
## 1735
## 1736                      Repair Tricuspid Valve created fi
## 1737
## 1738
## 1739
## 1740
## 1741
## 1742
## 1743
## 1744
## 1745
## 1746                                      Replacement
## 1747                                                       R
## 1748                                                 Repl
## 1749                              Replacement of
## 1750             Replacement of Atrial Septum wi
## 1751                       Replacement of Atri
## 1752                      Replacement of Atrial S
## 1753             Replacement of Atrial Septum with
```

```
## 1754                                                         Replacement
## 1755
## 1756                                                       Rep
## 1757                                             Replacement o
## 1758                           Replacement of Right Atrium wi
## 1759                                     Replacement of Righ
## 1760                                   Replacement of Right A
## 1761                           Replacement of Right Atrium with
## 1762                                            Replacemer
## 1763
## 1764                                                Re
## 1765                                     Replacement c
## 1766                            Replacement of Left Atrium wi
## 1767                                     Replacement of Le:
## 1768                                   Replacement of Left A
## 1769                           Replacement of Left Atrium with
## 1770                                   Replacement of C
## 1771                                            Repla
## 1772                                       Replacem
## 1773                                 Replacement of Chor
## 1774                       Replacement of Chordae Tendineae wi
## 1775                             Replacement of Chordae T
## 1776                           Replacement of Chordae Ten
## 1777                       Replacement of Chordae Tendineae with
## 1778             Replacement of Heart with Biologic and Sy
## 1779                                            Replace
## 1780                                   Replacement of
## 1781                                            Repl
## 1782                                       Replace
## 1783                                 Replacement of Pa
## 1784                       Replacement of Papillary Muscle wi
## 1785                             Replacement of Papillar
## 1786                           Replacement of Papillary M
## 1787                       Replacement of Papillary Muscle with
## 1788                                            Replacement
## 1789
## 1790                                                       Rep
## 1791                                             Replacement o
## 1792                           Replacement of Aortic Valve wi
## 1793                                     Replacement of Aort
## 1794                                   Replacement of Aortic
## 1795                           Replacement of Aortic Valve with
## 1796                                            Replacement
## 1797
## 1798                                                       Rep
## 1799                                             Replacement o
## 1800                           Replacement of Mitral Valve wi
## 1801                                     Replacement of Mitr
## 1802                                   Replacement of Mitral
## 1803                           Replacement of Mitral Valve with
## 1804                                             Replacement o
## 1805                                                       Rep
## 1806                                       Replac
## 1807                           Replacement of Pu
```

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```
## 1808                                       Replacement of Pulmonary Valve wi
## 1809                                          Replacement of Pulmona
## 1810                                       Replacement of Pulmonary
## 1811                          Replacement of Pulmonary Valve with
## 1812                                               Replacement o
## 1813                                                         Rep
## 1814                                                     Replac
## 1815                                       Replacement of Ti
## 1816                          Replacement of Tricuspid Valve wi
## 1817                                    Replacement of Tricusp
## 1818                             Replacement of Tricuspid
## 1819                          Replacement of Tricuspid Valve with
## 1820                                               Replacement o
## 1821                                                         Rep
## 1822                                                     Replac
## 1823                                       Replacement of Ri
## 1824                          Replacement of Right Ventricle wi
## 1825                                    Replacement of Right V
## 1826                             Replacement of Right Vent
## 1827                          Replacement of Right Ventricle with
## 1828                                           Replacement o
## 1829                                                       Re
## 1830                                                   Repla
## 1831                                       Replacement of l
## 1832                          Replacement of Left Ventricle wi
## 1833                                    Replacement of Left V
## 1834                             Replacement of Left Vent
## 1835                          Replacement of Left Ventricle with
## 1836                                           Replacement of Ve
## 1837                                                     Replac
## 1838                                                 Replaceme
## 1839                                       Replacement of Venti
## 1840                          Replacement of Ventricular Septum wi
## 1841                             Replacement of Ventricula
## 1842                          Replacement of Ventricular S
## 1843                          Replacement of Ventricular Septum with
## 1844                                               Replacemer
## 1845
## 1846                                                      Re
## 1847                                    Replacement o
## 1848                          Replacement of Pericardium wi
## 1849                                    Replacement of Pei
## 1850                             Replacement of Perica
## 1851                          Replacement of Pericardium with
## 1852
## 1853
## 1854
## 1855
## 1856                                                      Re
## 1857
## 1858
## 1859
## 1860
## 1861
```

```
## 1862
## 1863
## 1864
## 1865
## 1866
## 1867                                                                    Suppleme
## 1868
## 1869
## 1870                                                        Supplement
## 1871                                        Supplement Atrial Septum wi
## 1872                                               Supplement Atria
## 1873                                           Supplement Atrial S
## 1874                                   Supplement Atrial Septum with
## 1875                                                          Suppler
## 1876
## 1877
## 1878                                                       Supplement
## 1879                                       Supplement Right Atrium wi
## 1880                                              Supplement Righ
## 1881                                          Supplement Right A
## 1882                                  Supplement Right Atrium with
## 1883                                                         Supple
## 1884
## 1885
## 1886                                                      Supplemer
## 1887                                      Supplement Left Atrium wi
## 1888                                             Supplement Le
## 1889                                         Supplement Left A
## 1890                                 Supplement Left Atrium with
## 1891                                            Supplement C
## 1892                                                         S
## 1893                                                     Supp
## 1894                                      Supplement Cho
## 1895                              Supplement Chordae Tendineae wi
## 1896                                      Supplement Chordae T
## 1897                                  Supplement Chordae Ten
## 1898                          Supplement Chordae Tendineae with
## 1899
## 1900
## 1901
## 1902                                                        Sup
## 1903                                        Supplement Heart wi
## 1904                                              Suppleme
## 1905                                          Supplement
## 1906                                  Supplement Heart with
## 1907                                          Supplement
## 1908
## 1909                                                        Sup
## 1910                                        Supplement Pap
## 1911                                Supplement Papillary Muscle wi
## 1912                                        Supplement Papilla
## 1913                                    Supplement Papillary
## 1914                            Supplement Papillary Muscle with
## 1915                            Supplement Aortic Valve created f
```

1916   Suppler
1917   Supplement Aortic Valve
1918
1919   Supplement Aortic Valve c:
1920
1921   Supplement Aortic Valve created from
1922   Supplement
1923   Supplement Aortic Valve created from Truncal Valve w:
1924   Supplement Aortic Valve w:
1925   Supplement Aortic Valve created from Trunc
1926   Supplement Aor
1927   Supplement Aortic Valve created from Truncal
1928   Supplement Aortic
1929   Supplement Aortic Valve created from Truncal Valve with
1930   Supplement Aortic Valve with
1931   Supplement Mitral Valve created from Left Atriov
1932   Suppler
1933   Supplement Mitral Valve created from
1934
1935   Supplement Mitral Valve created from Le:
1936
1937   Supplement Mitral Valve created from Left Atrioven
1938   Supplement
1939   Supplement Mitral Valve created from Left Atrioventricular Valve w:
1940   Supplement Mitral Valve w:
1941   Supplement Mitral Valve created from Left Atrioventricul
1942   Supplement Mit:
1943   Supplement Mitral Valve created from Left Atrioventricular
1944   Supplement Mitral
1945   Supplement Mitral Valve created from Left Atrioventricular Valve with
1946   Supplement Mitral Valve with
1947   Supplement
1948
1949   Su
1950   Supplement Pu
1951   Supplement Pulmonary Valve w:
1952   Supplement Pulmona
1953   Supplement Pulmonary
1954   Supplement Pulmonary Valve with
1955   Supplement Tricuspid Valve created from Right Atriov
1956   Supplement
1957   Supplement Tricuspid Valve created from 1
1958
1959   Supplement Tricuspid Valve created from Rigl
1960   Su
1961   Supplement Tricuspid Valve created from Right Atrioven
1962   Supplement T:
1963   Supplement Tricuspid Valve created from Right Atrioventricular Valve w:
1964   Supplement Tricuspid Valve w:
1965   Supplement Tricuspid Valve created from Right Atrioventricul
1966   Supplement Tricus]
1967   Supplement Tricuspid Valve created from Right Atrioventricular
1968   Supplement Tricuspid
1969   Supplement Tricuspid Valve created from Right Atrioventricular Valve with

```
## 1970                                       Supplement Tricuspid Valve with
## 1971                                              Supplement
## 1972
## 1973                                                    Su
## 1974                                       Supplement Ri
## 1975                       Supplement Right Ventricle wi
## 1976                             Supplement Right V
## 1977                             Supplement Right Ven
## 1978                       Supplement Right Ventricle with
## 1979                                        Supplemer
## 1980
## 1981                                                    S
## 1982                                       Supplement L
## 1983                        Supplement Left Ventricle wi
## 1984                               Supplement Left V
## 1985                             Supplement Left Ven
## 1986                        Supplement Left Ventricle with
## 1987                                 Supplement Ve
## 1988                                                    Su
## 1989                                              Suppl
## 1990                                       Supplement Venti
## 1991               Supplement Ventricular Septum wi
## 1992                             Supplement Ventricula
## 1993                          Supplement Ventricular S
## 1994         Supplement Ventricular Septum with
## 1995                                             Supple
## 1996
## 1997
## 1998                                        Supplemer
## 1999                     Supplement Pericardium wi
## 2000                            Supplement Pe
## 2001                         Supplement Perica
## 2002            Supplement Pericardium with
## 2003
## 2004
## 2005                                      Restriction o
## 2006
## 2007
## 2008
## 2009                                              Re
## 2010                                              Re
## 2011
## 2012                     Retriction of Left Ver
## 2013                     Retriction of Left Ver
## 2014
## 2015
## 2016                              Revision of Synthe
## 2017
## 2018
## 2019
## 2020
## 2021
## 2022
## 2023
```

2024   Re
2025   Re
2026   Revision of Biventricula
2027   Revision o
2028
2029   Revisio
2030   Revis
2031   Revision of Autolo
2032   Revisio
2033   Revision
2034   Revision
2035   Revision o
2036   Revision of Nonautolo
2037   Revision of Implantab
2038   Revision of Biventricular Short-term Exter
2039   Revision of Short-term Exter
2040   Re
2041   I
2042
2043   Drainage of Pericar
2044
2045
2046   Extirpation o
2047
2048   Fra
2049   Inser
2050   I
2051
2052   Insertion of Radioactive
2053   Insertion of Infusio
2054   Insertion of Othe
2055
2056   Rem
2057
2058
2059   Removal of Drainag
2060   Removal of Radioactive
2061   Removal of Infusio
2062   Removal of Othe
2063
2064   Rev
2065
2066
2067   Revision of Drain
2068   Revision of Radioactiv
2069   Revision of Infusi
2070   Revision of Oth
2071   Replacement of Aortic Valve using Zooplastic Tissue, Rapid Deployment Te
2072   Bypass Coronary Artery, One A
2073   Bypass Coronary Artery, One Artery
2074   Bypass Coronary Artery, One Artery from Ri
2075   Bypass Coronary Artery, One Artery from
2076   Bypass Coronary Artery, One Artery
2077   Bypass Coronary Artery, One Artery

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```
## 2078                                             Bypass Coronary Artery, (
## 2079                                     Bypass Coronary Artery, One Artery f:
## 2080                             Bypass Coronary Artery, One Artery from Rig
## 2081                               Bypass Coronary Artery, One Artery from Le:
## 2082                               Bypass Coronary Artery, One Artery f:
## 2083                               Bypass Coronary Artery, One Artery fro
## 2084                                     Bypass Coronary Artery, One
## 2085                                   Bypass Coronary Artery, One Arte
## 2086                             Bypass Coronary Artery, One Artery from Abo
## 2087                                                              Bypass
## 2088                       Bypass Coronary Artery, One Artery from Abdomina
## 2089                     Bypass Coronary Artery, One Artery from Coronary Arte:
## 2090             Bypass Coronary Artery, One Artery from Right Internal Mamma:
## 2091             Bypass Coronary Artery, One Artery from Left Internal Mamma:
## 2092                 Bypass Coronary Artery, One Artery from Thoracic Arte:
## 2093               Bypass Coronary Artery, One Artery from Abdominal Arte:
## 2094                           Bypass Coronary Artery, One Artery from Aor
## 2095                     Bypass Coronary Artery, One Artery from Coronary Artery
## 2096             Bypass Coronary Artery, One Artery from Right Internal Mammary
## 2097             Bypass Coronary Artery, One Artery from Left Internal Mammary
## 2098                 Bypass Coronary Artery, One Artery from Thoracic Artery
## 2099               Bypass Coronary Artery, One Artery from Abdominal Artery
## 2100                         Bypass Coronary Artery, One Artery from Aorta
## 2101                     Bypass Coronary Artery, One Artery from Abdominal
## 2102         Bypass Coronary Artery, One Artery from Abdominal Artery with
## 2103                                     Bypass Coronary Artery, (
## 2104                                   Bypass Coronary Artery, Two Ar
## 2105                                 Bypass Coronary Artery, Two Arteries
## 2106                             Bypass Coronary Artery, Two Arteries from R:
## 2107                               Bypass Coronary Artery, Two Arteries from 1
## 2108                               Bypass Coronary Artery, Two Arteries
## 2109                               Bypass Coronary Artery, Two Arteries :
## 2110                                     Bypass Coronary Artery, Two
## 2111                                   Bypass Coronary Artery, Two Arteries f:
## 2112                           Bypass Coronary Artery, Two Arteries from Rig
## 2113                             Bypass Coronary Artery, Two Arteries from Le:
## 2114                               Bypass Coronary Artery, Two Arteries f:
## 2115                             Bypass Coronary Artery, Two Arteries fro
## 2116                                 Bypass Coronary Artery, Two
## 2117                                   Bypass Coronary Artery, Two Arter:
## 2118                           Bypass Coronary Artery, Two Arteries from Abo
## 2119                                                              Bypass (
## 2120                       Bypass Coronary Artery, Two Arteries from Abdomina
## 2121                     Bypass Coronary Artery, Two Arteries from Coronary Arte:
## 2122             Bypass Coronary Artery, Two Arteries from Right Internal Mammai
## 2123             Bypass Coronary Artery, Two Arteries from Left Internal Mammai
## 2124                 Bypass Coronary Artery, Two Arteries from Thoracic Arte:
## 2125               Bypass Coronary Artery, Two Arteries from Abdominal Arte:
## 2126                           Bypass Coronary Artery, Two Arteries from Aor
## 2127                     Bypass Coronary Artery, Two Arteries from Coronary Artery
## 2128             Bypass Coronary Artery, Two Arteries from Right Internal Mammary
## 2129             Bypass Coronary Artery, Two Arteries from Left Internal Mammary
## 2130                 Bypass Coronary Artery, Two Arteries from Thoracic Artery
## 2131               Bypass Coronary Artery, Two Arteries from Abdominal Artery
```

## 2132	Bypass Coronary Artery, Two Arteries from Aorta
## 2133	Bypass Coronary Artery, Two Arteries from Abdominal
## 2134	Bypass Coronary Artery, Two Arteries from Abdominal Artery with
## 2135	Bypass Coronary Artery, Tw
## 2136	Bypass Coronary Artery, Three Ar
## 2137	Bypass Coronary Artery, Three Arteries
## 2138	Bypass Coronary Artery, Three Arteries from R
## 2139	Bypass Coronary Artery, Three Arteries from
## 2140	Bypass Coronary Artery, Three Arteries
## 2141	Bypass Coronary Artery, Three Arteries
## 2142	Bypass Coronary Artery, Three
## 2143	Bypass Coronary Artery, Three Arteries f
## 2144	Bypass Coronary Artery, Three Arteries from Rig
## 2145	Bypass Coronary Artery, Three Arteries from Le
## 2146	Bypass Coronary Artery, Three Arteries f
## 2147	Bypass Coronary Artery, Three Arteries fr
## 2148	Bypass Coronary Artery, Three
## 2149	Bypass Coronary Artery, Three Arter
## 2150	Bypass Coronary Artery, Three Arteries from Ab
## 2151	Bypass Co
## 2152	Bypass Coronary Artery, Three Arteries from Abdomina
## 2153	Bypass Coronary Artery, Three Arteries from Coronary Arte
## 2154	Bypass Coronary Artery, Three Arteries from Right Internal Mammar
## 2155	Bypass Coronary Artery, Three Arteries from Left Internal Mammar
## 2156	Bypass Coronary Artery, Three Arteries from Thoracic Arte
## 2157	Bypass Coronary Artery, Three Arteries from Abdominal Arte
## 2158	Bypass Coronary Artery, Three Arteries from Aor
## 2159	Bypass Coronary Artery, Three Arteries from Coronary Artery
## 2160	Bypass Coronary Artery, Three Arteries from Right Internal Mammary
## 2161	Bypass Coronary Artery, Three Arteries from Left Internal Mammary
## 2162	Bypass Coronary Artery, Three Arteries from Thoracic Artery
## 2163	Bypass Coronary Artery, Three Arteries from Abdominal Artery
## 2164	Bypass Coronary Artery, Three Arteries from Aorta
## 2165	Bypass Coronary Artery, Three Arteries from Abdominal
## 2166	Bypass Coronary Artery, Three Arteries from Abdominal Artery with
## 2167	Bypass Coronary Artery, Three
## 2168	Bypass Coronary Artery, Four or More Ar
## 2169	Bypass Coronary Artery, Four or More Arteries
## 2170	Bypass Coronary Artery, Four or More Arteries from R
## 2171	Bypass Coronary Artery, Four or More Arteries from
## 2172	Bypass Coronary Artery, Four or More Arteries
## 2173	Bypass Coronary Artery, Four or More Arteries
## 2174	Bypass Coronary Artery, Four or More
## 2175	Bypass Coronary Artery, Four or More Arteries f
## 2176	Bypass Coronary Artery, Four or More Arteries from Rig
## 2177	Bypass Coronary Artery, Four or More Arteries from Le
## 2178	Bypass Coronary Artery, Four or More Arteries f
## 2179	Bypass Coronary Artery, Four or More Arteries fr
## 2180	Bypass Coronary Artery, Four or More
## 2181	Bypass Coronary Artery, Four or More Arter
## 2182	Bypass Coronary Artery, Four or More Arteries from Ab
## 2183	Bypass Coronary
## 2184	Bypass Coronary Artery, Four or More Arteries from Abdomina
## 2185	Bypass Coronary Artery, Four or More Arteries from Coronary Arte

```
## 2186                Bypass Coronary Artery, Four or More Arteries from Right Internal Mamma
## 2187                 Bypass Coronary Artery, Four or More Arteries from Left Internal Mamma
## 2188                   Bypass Coronary Artery, Four or More Arteries from Thoracic Arte
## 2189                 Bypass Coronary Artery, Four or More Arteries from Abdominal Arte
## 2190                      Bypass Coronary Artery, Four or More Arteries from Aor
## 2191                 Bypass Coronary Artery, Four or More Arteries from Coronary Artery
## 2192      Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary
## 2193       Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary
## 2194                 Bypass Coronary Artery, Four or More Arteries from Thoracic Artery
## 2195                Bypass Coronary Artery, Four or More Arteries from Abdominal Artery
## 2196                      Bypass Coronary Artery, Four or More Arteries from Aorta
## 2197                  Bypass Coronary Artery, Four or More Arteries from Abdominal A
## 2198       Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with
## 2199                         Bypass Coronary Artery, Four or Mor
## 2200                            Bypass Coronary Artery, One
## 2201                       Bypass Coronary Artery, One Artery
## 2202                        Bypass Coronary Artery, One Artery
## 2203                        Bypass Coronary Artery, One
## 2204                             Bypass Coronary A
## 2205                       Bypass Coronary Artery, One Ar
## 2206                      Bypass Coronary Artery, One Artery fr
## 2207                       Bypass Coronary Artery, One Artery f
## 2208                       Bypass Coronary Artery, One Ar
## 2209                           Bypass Coronary Arte
## 2210                  Bypass Coronary Artery, One Artery from C
## 2211              Bypass Coronary Artery, One Artery from Right In
## 2212               Bypass Coronary Artery, One Artery from Left In
## 2213                 Bypass Coronary Artery, One Artery from T
## 2214                   Bypass Coronary Artery, One Arte
## 2215                                   Bypas
## 2216                            Bypass Coron
## 2217                             Bypass Cor
## 2218                                 Bypas
## 2219       Bypass Coronary Artery, One Artery from Coronary Vein with
## 2220                 Bypass Coronary Artery, One Artery from Coronar
## 2221            Bypass Coronary Artery, One Artery from Right Internal
## 2222             Bypass Coronary Artery, One Artery from Left Internal
## 2223                 Bypass Coronary Artery, One Artery from Thoraci
## 2224                     Bypass Coronary Artery, One Artery f
## 2225                 Bypass Coronary Artery, One Artery from Coronar
## 2226               Bypass Coronary Artery, One Artery from Coronary A
## 2227         Bypass Coronary Artery, One Artery from Right Internal Ma
## 2228          Bypass Coronary Artery, One Artery from Left Internal Ma
## 2229               Bypass Coronary Artery, One Artery from Thoracic A
## 2230                    Bypass Coronary Artery, One Artery from
## 2231        Bypass Coronary Artery, One Artery from Coronary Artery with
## 2232      Bypass Coronary Artery, One Artery from Right Internal Mammary with
## 2233       Bypass Coronary Artery, One Artery from Left Internal Mammary with
## 2234            Bypass Coronary Artery, One Artery from Thoracic Artery with
## 2235              Bypass Coronary Artery, One Artery from Aorta with
## 2236                            Bypass Coronary Artery,
## 2237                      Bypass Coronary Artery, One Ar
## 2238                        Bypass Coronary Artery, One A
## 2239                         Bypass Coronary Artery,
```

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## 2240                                                                                        Bypass Coronary Artery, Two A
## 2241                                                                                Bypass Coronary Artery, Two Arteries
## 2242                                                                            Bypass Coronary Artery, Two Arterie
## 2243                                                                                Bypass Coronary Artery, Two A
## 2244                                                                                        Bypass Coronary Arte
## 2245                                                                        Bypass Coronary Artery, Two Arter
## 2246                                                                Bypass Coronary Artery, Two Arteries fr
## 2247                                                                Bypass Coronary Artery, Two Arteries fi
## 2248                                                                Bypass Coronary Artery, Two Arter
## 2249                                                                        Bypass Coronary Artery
## 2250                                                        Bypass Coronary Artery, Two Arteries from C
## 2251                                                Bypass Coronary Artery, Two Arteries from Right Int
## 2252                                                Bypass Coronary Artery, Two Arteries from Left Int
## 2253                                                Bypass Coronary Artery, Two Arteries from T
## 2254                                                        Bypass Coronary Artery, Two Arter
## 2255                                                                                Bypass
## 2256                                                                        Bypass Corona
## 2257                                                                        Bypass Corona
## 2258                                                                                Bypass
## 2259        Bypass Coronary Artery, Two Arteries from Coronary Vein with
## 2260                                        Bypass Coronary Artery, Two Arteries from Corona
## 2261                                Bypass Coronary Artery, Two Arteries from Right Internal
## 2262                                Bypass Coronary Artery, Two Arteries from Left Internal
## 2263                                        Bypass Coronary Artery, Two Arteries from Thoraci
## 2264                                                Bypass Coronary Artery, Two Arteries fi
## 2265                                        Bypass Coronary Artery, Two Arteries from Corona
## 2266                                        Bypass Coronary Artery, Two Arteries from Coronary A
## 2267                        Bypass Coronary Artery, Two Arteries from Right Internal Ma
## 2268                                Bypass Coronary Artery, Two Arteries from Left Internal Ma
## 2269                                        Bypass Coronary Artery, Two Arteries from Thoracic A
## 2270                                        Bypass Coronary Artery, Two Arteries from
## 2271        Bypass Coronary Artery, Two Arteries from Coronary Artery with
## 2272    Bypass Coronary Artery, Two Arteries from Right Internal Mammary with
## 2273    Bypass Coronary Artery, Two Arteries from Left Internal Mammary with
## 2274                Bypass Coronary Artery, Two Arteries from Thoracic Artery with
## 2275                        Bypass Coronary Artery, Two Arteries from Aorta with
## 2276                                                Bypass Coronary Artery, Tu
## 2277                                                Bypass Coronary Artery, Two Arter
## 2278                                                Bypass Coronary Artery, Two Arte
## 2279                                                Bypass Coronary Artery, Tu
## 2280                                                Bypass Coronary Artery, Three A
## 2281                                        Bypass Coronary Artery, Three Arteries
## 2282                                        Bypass Coronary Artery, Three Arterie
## 2283                                        Bypass Coronary Artery, Three A
## 2284                                                Bypass Coronary Artery
## 2285                                        Bypass Coronary Artery, Three Arter
## 2286                                Bypass Coronary Artery, Three Arteries fr
## 2287                                Bypass Coronary Artery, Three Arteries fi
## 2288                                Bypass Coronary Artery, Three Arter
## 2289                                        Bypass Coronary Artery, T
## 2290                                Bypass Coronary Artery, Three Arteries from C
## 2291                        Bypass Coronary Artery, Three Arteries from Right Int
## 2292                        Bypass Coronary Artery, Three Arteries from Left Int
## 2293                                Bypass Coronary Artery, Three Arteries from T
```

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## 2294	Bypass Coronary Artery, Three Arteri
## 2295	Bypass Co
## 2296	Bypass Coronary
## 2297	Bypass Coronary
## 2298	Bypass Co
## 2299	Bypass Coronary Artery, Three Arteries from Coronary Vein with
## 2300	Bypass Coronary Artery, Three Arteries from Coronar
## 2301	Bypass Coronary Artery, Three Arteries from Right Internal
## 2302	Bypass Coronary Artery, Three Arteries from Left Internal
## 2303	Bypass Coronary Artery, Three Arteries from Thoraci
## 2304	Bypass Coronary Artery, Three Arteries f
## 2305	Bypass Coronary Artery, Three Arteries from Coronar
## 2306	Bypass Coronary Artery, Three Arteries from Coronary
## 2307	Bypass Coronary Artery, Three Arteries from Right Internal Ma
## 2308	Bypass Coronary Artery, Three Arteries from Left Internal Ma
## 2309	Bypass Coronary Artery, Three Arteries from Thoracic
## 2310	Bypass Coronary Artery, Three Arteries from
## 2311	Bypass Coronary Artery, Three Arteries from Coronary Artery with
## 2312	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with
## 2313	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with
## 2314	Bypass Coronary Artery, Three Arteries from Thoracic Artery with
## 2315	Bypass Coronary Artery, Three Arteries from Aorta with
## 2316	Bypass Coronary Artery, Thre
## 2317	Bypass Coronary Artery, Three Arter
## 2318	Bypass Coronary Artery, Three Arte
## 2319	Bypass Coronary Artery, Thre
## 2320	Bypass Coronary Artery, Four or More Ar
## 2321	Bypass Coronary Artery, Four or More Arteries
## 2322	Bypass Coronary Artery, Four or More Arteries
## 2323	Bypass Coronary Artery, Four or More Ar
## 2324	Bypass Coronary Artery, Four
## 2325	Bypass Coronary Artery, Four or More Arte
## 2326	Bypass Coronary Artery, Four or More Arteries fr
## 2327	Bypass Coronary Artery, Four or More Arteries f
## 2328	Bypass Coronary Artery, Four or More Arte
## 2329	Bypass Coronary Artery, Four or
## 2330	Bypass Coronary Artery, Four or More Arteries from Co
## 2331	Bypass Coronary Artery, Four or More Arteries from Right In
## 2332	Bypass Coronary Artery, Four or More Arteries from Left In
## 2333	Bypass Coronary Artery, Four or More Arteries from T
## 2334	Bypass Coronary Artery, Four or More Arter
## 2335	Bypass Coronary
## 2336	Bypass Coronary Artery
## 2337	Bypass Coronary Artery
## 2338	Bypass Coronary
## 2339	Bypass Coronary Artery, Four or More Arteries from Coronary Vein with
## 2340	Bypass Coronary Artery, Four or More Arteries from Coronar
## 2341	Bypass Coronary Artery, Four or More Arteries from Right Internal
## 2342	Bypass Coronary Artery, Four or More Arteries from Left Internal
## 2343	Bypass Coronary Artery, Four or More Arteries from Thoraci
## 2344	Bypass Coronary Artery, Four or More Arteries f
## 2345	Bypass Coronary Artery, Four or More Arteries from Coronar
## 2346	Bypass Coronary Artery, Four or More Arteries from Coronary
## 2347	Bypass Coronary Artery, Four or More Arteries from Right Internal Ma

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## 2348                                                    Bypass Coronary Artery, Four or More Arteries from Left Internal Ma
## 2349                                               Bypass Coronary Artery, Four or More Arteries from Thoracic A
## 2350                                                         Bypass Coronary Artery, Four or More Arteries from
## 2351                              Bypass Coronary Artery, Four or More Arteries from Coronary Artery with
## 2352                     Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with
## 2353                     Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with
## 2354                               Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with
## 2355                                        Bypass Coronary Artery, Four or More Arteries from Aorta with
## 2356                                                          Bypass Coronary Artery, Four or Mo
## 2357                                                   Bypass Coronary Artery, Four or More Arte
## 2358                                                   Bypass Coronary Artery, Four or More Arte
## 2359                                                         Bypass Coronary Artery, Four or Mo
## 2360                                                                               Ext
## 2361                                                         Extirpation of Matter
## 2362                                                                             Ext
## 2363                                                     Extirpation of Matter
## 2364                                                               Extirp
## 2365                                               Extirpation of Matter fr
## 2366                                                               Exti
## 2367                                               Extirpation of Matter f
## 2368                                                             Extirp
## 2369                                               Extirpation of Matter fr
## 2370                                                               Exti
## 2371                                               Extirpation of Matter f
## 2372
## 2373                                                  Extirpation of Ma
## 2374
## 2375                                                  Extirpation of Ma
## 2376                                                              Bypa
## 2377                                                              Byp
## 2378                                                   Bypass Gallbla
## 2379                                                   Bypass Gallbla
## 2380                                               Bypass Gallbladd
## 2381                                                       Bypass G
## 2382                                                 Bypass Gallbl
## 2383                                                 Bypass Gall
## 2384
## 2385
## 2386
## 2387
## 2388
## 2389
## 2390
## 2391
## 2392                                               Bypass Gallbladder to Du
## 2393                                                 Bypass Gallbladder to S
## 2394                                         Bypass Gallbladder to Right Hepat
## 2395                                          Bypass Gallbladder to Left Hepat
## 2396                                     Bypass Gallbladder to Caudate Hepat
## 2397                                              Bypass Gallbladder to Cyst
## 2398                                          Bypass Gallbladder to Common Bil
## 2399                                          Bypass Gallbladder to Small In
## 2400
## 2401
```

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```
## 2402                                                      Bypass Ga
## 2403                                                     Bypass (
## 2404                                                 Bypass Gall
## 2405                                                          By
## 2406                                                   Bypass
## 2407                                                    Bypass
## 2408
## 2409
## 2410
## 2411
## 2412                                             Drainage of (
## 2413
## 2414
## 2415
## 2416
## 2417                                               Extirpa
## 2418
## 2419
## 2420
## 2421
## 2422
## 2423                                        Insertion of Mo
## 2424                                         Insertion of
## 2425                                          Insertion c
## 2426
## 2427
## 2428
## 2429
## 2430
## 2431
## 2432
## 2433                                             Removal of
## 2434                                        Removal of Mo
## 2435                                           Removal of
## 2436                                    Removal of Intra
## 2437                                           Removal c
## 2438
## 2439
## 2440
## 2441
## 2442
## 2443
## 2444
## 2445
## 2446
## 2447
## 2448
## 2449                                            Revision o
## 2450                                        Revision of
## 2451                                            Revision o
## 2452                                     Revision of In
## 2453                                            Revision
## 2454                              Bypass Stomach to
## 2455                                          Bypass St
```

```
## 2456                                                       Bypass Stomach to Tra
## 2457
## 2458                              Bypass Stomach to Transverse Colon w
## 2459                                  Bypass Stomach to Transverse
## 2460                        Bypass Stomach to Transverse Colon with
## 2461                                                          By
## 2462                                      Bypass Small I
## 2463                              Bypass Small Intestine t
## 2464                              Bypass Small Intestine to
## 2465                              Bypass Small Intestine to
## 2466                                Bypass Small Intestine
## 2467                                                  Bypass
## 2468                                Bypass Small Inte
## 2469                                  Bypass Small Inte
## 2470                                  Bypass Small Inte
## 2471                                    Bypass Small I
## 2472                                  Bypass Small Inte
## 2473                          Bypass Small Intestine to A
## 2474                          Bypass Small Intestine to Tr
## 2475                          Bypass Small Intestine to De
## 2476                            Bypass Small Intestine to
## 2477
## 2478
## 2479
## 2480
## 2481
## 2482                          Bypass Small Intestine to Cecum w
## 2483                  Bypass Small Intestine to Ascending Colon w
## 2484                  Bypass Small Intestine to Transverse Colon w
## 2485                  Bypass Small Intestine to Descending Colon w
## 2486                    Bypass Small Intestine to Sigmoid Colon w
## 2487                              Bypass Small Intestine to
## 2488                      Bypass Small Intestine to Ascending
## 2489                      Bypass Small Intestine to Transverse
## 2490                      Bypass Small Intestine to Descending
## 2491                        Bypass Small Intestine to Sigmoid
## 2492                      Bypass Small Intestine to Cecum with
## 2493              Bypass Small Intestine to Ascending Colon with
## 2494              Bypass Small Intestine to Transverse Colon with
## 2495              Bypass Small Intestine to Descending Colon with
## 2496                Bypass Small Intestine to Sigmoid Colon with
## 2497
## 2498                                            Bypass Sma
## 2499                                          Bypass Smal
## 2500                                          Bypass Smal
## 2501                                        Bypass S
## 2502                            Bypass Duodenum to
## 2503                                    Bypass Duo
## 2504                            Bypass Duodenum to Tr
## 2505
## 2506                  Bypass Duodenum to Transverse Colon w
## 2507                      Bypass Duodenum to Transverse
## 2508                  Bypass Duodenum to Transverse Colon with
## 2509                                                      Bypa
```

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```
## 2510                                                                      Bypass
## 2511                                                          Bypass Jejunum to
## 2512                                                          Bypass Jejunum to
## 2513                                                          Bypass Jejunum to
## 2514                                                             Bypass Jejunum
## 2515
## 2516                                                               Bypass J
## 2517                                                             Bypass Je
## 2518                                                             Bypass Je
## 2519                                                                Bypass
## 2520                                                             Bypass Je
## 2521                                                 Bypass Jejunum to A
## 2522                                                 Bypass Jejunum to Tr
## 2523                                                 Bypass Jejunum to De
## 2524                                                    Bypass Jejunum to
## 2525
## 2526
## 2527
## 2528
## 2529
## 2530                                             Bypass Jejunum to Cecum w
## 2531                                   Bypass Jejunum to Ascending Colon w
## 2532                                   Bypass Jejunum to Transverse Colon w
## 2533                                   Bypass Jejunum to Descending Colon w
## 2534                                      Bypass Jejunum to Sigmoid Colon w
## 2535                                               Bypass Jejunum to
## 2536                                     Bypass Jejunum to Ascending
## 2537                                     Bypass Jejunum to Transverse
## 2538                                     Bypass Jejunum to Descending
## 2539                                        Bypass Jejunum to Sigmoid
## 2540                                      Bypass Jejunum to Cecum with
## 2541                            Bypass Jejunum to Ascending Colon with
## 2542                            Bypass Jejunum to Transverse Colon with
## 2543                            Bypass Jejunum to Descending Colon with
## 2544                               Bypass Jejunum to Sigmoid Colon with
## 2545
## 2546                                                                   By
## 2547                                                                  Byp
## 2548                                                                  Byp
## 2549
## 2550                                                               Bypas
## 2551                                                          Bypass Ileum to
## 2552                                                          Bypass Ileum to
## 2553                                                          Bypass Ileum to
## 2554                                                             Bypass Ileum
## 2555
## 2556                                                               Bypass
## 2557                                                             Bypass I
## 2558                                                             Bypass I
## 2559                                                                Bypa
## 2560                                                             Bypass I
## 2561                                                 Bypass Ileum to A
## 2562                                                 Bypass Ileum to Tr
## 2563                                                 Bypass Ileum to De
```

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## 2564                                                                Bypass Ileum to
## 2565
## 2566
## 2567
## 2568
## 2569
## 2570                                                      Bypass Ileum to Cecum w:
## 2571                                           Bypass Ileum to Ascending Colon w:
## 2572                                           Bypass Ileum to Transverse Colon w:
## 2573                                           Bypass Ileum to Descending Colon w:
## 2574                                             Bypass Ileum to Sigmoid Colon w:
## 2575                                                          Bypass Ileum to
## 2576                                            Bypass Ileum to Ascending
## 2577                                            Bypass Ileum to Transverse
## 2578                                            Bypass Ileum to Descending
## 2579                                              Bypass Ileum to Sigmoid
## 2580                                            Bypass Ileum to Cecum with
## 2581                                 Bypass Ileum to Ascending Colon with
## 2582                                 Bypass Ileum to Transverse Colon with
## 2583                                 Bypass Ileum to Descending Colon with
## 2584                                   Bypass Ileum to Sigmoid Colon with
## 2585
## 2586
## 2587                                                                      I
## 2588                                                                      I
## 2589
## 2590                                                  Bypass Large Inte:
## 2591                                          Bypass Large Intestine to
## 2592                                                       Bypass Lar
## 2593                                           Bypass Large Inte
## 2594                                           Bypass Large Intestine
## 2595                                         Bypass Large Intestine to La
## 2596
## 2597
## 2598                                 Bypass Large Intestine to Cutaneous w:
## 2599                         Bypass Large Intestine to Large Intestine w:
## 2600                                   Bypass Large Intestine to Cuta
## 2601                           Bypass Large Intestine to Large Inte
## 2602                         Bypass Large Intestine to Cutaneous with
## 2603                 Bypass Large Intestine to Large Intestine with
## 2604                                                              Bypa
## 2605                                                 Bypass Lar
## 2606                                              Bypass Ce
## 2607                                                   Bypa
## 2608                                          Bypass Cecum to
## 2609                                         Bypass Cecum to
## 2610                                         Bypass Cecum to
## 2611                                           Bypass Cecum
## 2612                                                                      I
## 2613
## 2614                                                   Bypass
## 2615                                               Bypass C
## 2616                                               Bypass C
## 2617                                                    Bypa
```

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```
## 2618                                                            Bypass Cecu
## 2619                                                        Bypass C
## 2620                                              Bypass Cecum to As
## 2621                                              Bypass Cecum to Tra
## 2622                                              Bypass Cecum to Des
## 2623                                                  Bypass Cecum to
## 2624
## 2625
## 2626
## 2627
## 2628
## 2629
## 2630                             Bypass Cecum to Cutaneous wi
## 2631                                  Bypass Cecum to Cecum wi
## 2632                       Bypass Cecum to Ascending Colon wi
## 2633                       Bypass Cecum to Transverse Colon wi
## 2634                       Bypass Cecum to Descending Colon wi
## 2635                          Bypass Cecum to Sigmoid Colon wi
## 2636                                    Bypass Cecum to Cuta
## 2637                                     Bypass Cecum to
## 2638                          Bypass Cecum to Ascending
## 2639                            Bypass Cecum to Transverse
## 2640                            Bypass Cecum to Descending
## 2641                              Bypass Cecum to Sigmoid
## 2642                     Bypass Cecum to Cutaneous with
## 2643                          Bypass Cecum to Cecum with
## 2644               Bypass Cecum to Ascending Colon with
## 2645               Bypass Cecum to Transverse Colon with
## 2646               Bypass Cecum to Descending Colon with
## 2647                  Bypass Cecum to Sigmoid Colon with
## 2648
## 2649
## 2650
## 2651                                                     I
## 2652                                                     I
## 2653
## 2654                           Bypass Ascending Co
## 2655                        Bypass Ascending Colon to
## 2656                        Bypass Ascending Colon to
## 2657                        Bypass Ascending Colon to
## 2658                          Bypass Ascending Colon
## 2659                                 Bypass Asc
## 2660                             Bypass Ascending
## 2661                             Bypass Ascending C
## 2662                             Bypass Ascending C
## 2663                                Bypass Ascendi
## 2664                          Bypass Ascending Color
## 2665                        Bypass Ascending Colon to As
## 2666                        Bypass Ascending Colon to Tra
## 2667                        Bypass Ascending Colon to Des
## 2668                          Bypass Ascending Colon to
## 2669
## 2670
## 2671
```

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```
## 2672
## 2673
## 2674                                                     Bypass Ascending Colon to Cutaneous w:
## 2675                                      Bypass Ascending Colon to Ascending Colon w:
## 2676                                      Bypass Ascending Colon to Transverse Colon w:
## 2677                                      Bypass Ascending Colon to Descending Colon w:
## 2678                                   Bypass Ascending Colon to Sigmoid Colon w:
## 2679                                                 Bypass Ascending Colon to Cuta
## 2680                                      Bypass Ascending Colon to Ascending
## 2681                                      Bypass Ascending Colon to Transverse
## 2682                                      Bypass Ascending Colon to Descending
## 2683                                   Bypass Ascending Colon to Sigmoid
## 2684                               Bypass Ascending Colon to Cutaneous with
## 2685             Bypass Ascending Colon to Ascending Colon with
## 2686             Bypass Ascending Colon to Transverse Colon with
## 2687             Bypass Ascending Colon to Descending Colon with
## 2688                Bypass Ascending Colon to Sigmoid Colon with
## 2689                                                             Bypa
## 2690                                                  Bypass Asc
## 2691                                                  Bypass Ascc
## 2692                                                  Bypass Ascc
## 2693                                                       Bypass A
## 2694                                           Bypass Transverse Cc
## 2695                                  Bypass Transverse Colon to
## 2696                                  Bypass Transverse Colon to
## 2697                               Bypass Transverse Colon
## 2698                                              Bypass Trans
## 2699                                  Bypass Transverse C
## 2700                                  Bypass Transverse C
## 2701                                       Bypass Transver
## 2702                               Bypass Transverse Colon
## 2703                                  Bypass Transverse Colon to Tra
## 2704                                  Bypass Transverse Colon to Des
## 2705                               Bypass Transverse Colon to
## 2706
## 2707
## 2708
## 2709
## 2710                               Bypass Transverse Colon to Cutaneous w:
## 2711                      Bypass Transverse Colon to Transverse Colon w:
## 2712                      Bypass Transverse Colon to Descending Colon w:
## 2713                   Bypass Transverse Colon to Sigmoid Colon w:
## 2714                                              Bypass Transverse Colon to Cuta
## 2715                      Bypass Transverse Colon to Transverse
## 2716                      Bypass Transverse Colon to Descending
## 2717                   Bypass Transverse Colon to Sigmoid
## 2718               Bypass Transverse Colon to Cutaneous with
## 2719     Bypass Transverse Colon to Transverse Colon with
## 2720     Bypass Transverse Colon to Descending Colon with
## 2721        Bypass Transverse Colon to Sigmoid Colon with
## 2722                                                          Bypa
## 2723                                              Bypass Trans
## 2724                                              Bypass Trans
## 2725                                                   Bypass T:
```

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```
## 2726                                                   Bypass Descending Co
## 2727                                        Bypass Descending Colon to
## 2728                                     Bypass Descending Colon
## 2729                                               Bypass Desc
## 2730                                      Bypass Descending C
## 2731                                          Bypass Descendi
## 2732                                    Bypass Descending Colon
## 2733                               Bypass Descending Colon to Des
## 2734                                 Bypass Descending Colon to
## 2735
## 2736
## 2737
## 2738                            Bypass Descending Colon to Cutaneous w
## 2739                    Bypass Descending Colon to Descending Colon w
## 2740                       Bypass Descending Colon to Sigmoid Colon w
## 2741                              Bypass Descending Colon to Cuta
## 2742                       Bypass Descending Colon to Descending
## 2743                          Bypass Descending Colon to Sigmoid
## 2744                       Bypass Descending Colon to Cutaneous with
## 2745               Bypass Descending Colon to Descending Colon with
## 2746                  Bypass Descending Colon to Sigmoid Colon with
## 2747                                                      Bypas
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## 2753                                  Bypass Sigmoi
## 2754                             Bypass Sigmoid Colon
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## 2759                     Bypass Sigmoid Colon to Sigmoid Colon w
## 2760                          Bypass Sigmoid Colon to Cuta
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## 3474      Dilation of Intracranial Artery with Four or More Intraluminal Devices, Percutaneou
## 3475                      Dilation of Intracranial Artery, Percutaneou
## 3476                         Dilation of Intracranial Artery with l
## 3477               Dilation of Intracranial Artery with Two D:
## 3478             Dilation of Intracranial Artery with Three D:
## 3479      Dilation of Intracranial Artery with Four or More D:
## 3480                          Dilation of Intracranial
## 3481                       Dilation of Intracranial Arte:
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3482 Dilation of Intracranial Artery

3483 Dilation of Intracranial Artery with Fo

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3485 D:

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3487 Drainage of Intracranial Artery with Drainage Device, Percutaneou

3488 Drainage of Intracranial Artery, Percutaneou

3489 Drainage of Intracra

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3492 Excision of Intracranial Artery, Percutaneou

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3495 Extirpation of Matter from Intracranial Artery using Stent Retriever, Percutaneou

3496 Extirpation of Matter from Intracranial Artery, Percutaneou

3497 Extirpation of

3498 Occlusion of Int:

3499 Occlus:

3500 Occlus:

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3502 Occlusion of Intracranial Artery with Extraluminal Device, Percutaneou

3503 Occlusion of Intracranial Artery, Percutaneou

3504 Occlusion of Intracranial Artery wit

3505 Occlusion of Intracranial

3506 Occlusion of Intracranial

3507 (

3508 Replacement of In

3509 Replacemer

3510 Replacement of Intra

3511 Replacement of Intracranial Artery wi

3512 Replacement of Intracranial A

3513 Replacement of Intracranial Artery with

3514 Supplement In

3515 Supple

3516 Supplement Intra

3517 Supplement Intracranial Artery with Autologous Tissue Substitute, Percutaneou

3518 Supplement Intracranial Artery with Synthetic Substitute, Percutaneou

3519 Supplement Intracranial Artery with Nonautologous Tissue Substitute, Percutaneou

3520 Supplement Intracranial Artery w:

3521 Supplement Intracranial A

3522 Supplement Intracranial Artery with

3523 Restriction of Int:

3524 Restrict:

3525 Restrict:

3526 Restriction of Intracra

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3528 Restriction of Intracranial Artery with Bioactive Intraluminal Device, Percutaneou

3529 Restriction of Intracranial Artery with Extraluminal Device, Percutaneou

3530 Restriction of Intracranial Artery with Intraluminal Device, Percutaneou

3531 Restriction of Intracranial Artery with Intraluminal Device, Flow Diverter, Percutaneou

3532 Restriction of Intracranial Artery, Percutaneou

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3534 Restriction of Intracranial

3535 Restriction of Intracranial

3536   Restriction of Intracranial Artery with In
3537   Res
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3539   Destruction of Intracranial Vein, Percutaneou
3540   I
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3542   Excision of Intracranial Vein, Percutaneou
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3548   Occlusion of Intracranial Vein, Percutaneou
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3552   Replacement of
3553   Replace
3554   Replacement of Int
3555   Replacement of Intracranial Vein w
3556   Replacement of Intracrania
3557   Replacement of Intracranial Vein with
3558
3559   Destruction of Pituitary Gland, Percutaneou
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3562   Destruction of Pineal Body, Percutaneou
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3565   Division of Pituitary Gland, Percutaneou
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3569   Drainage of Pituitary Gland with Drainage Device, Percutaneou
3570   Drainage of Pituitary Gland, Percutaneou
3571   Drainage of Pitu
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3575   Drainage of Pineal Body with Drainage Device, Percutaneou
3576   Drainage of Pineal Body, Percutaneou
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3580   Excision of Pituitary Gland, Percutaneou
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3583   Excision of Pineal Body, Percutaneou
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3586   Extirpation of Matter from Pituitary Gland, Percutaneou
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## 3590                                                                        Extirpa
## 3591
## 3592                                Inspection of Pituitary Gland, Percutaneou
## 3593
## 3594
## 3595                                   Inspection of Pineal Body, Percutaneou
## 3596
## 3597
## 3598                                  Release Pituitary Gland, Percutaneou
## 3599
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## 3601                                     Release Pineal Body, Percutaneou
## 3602
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## 3604             Removal of Drainage Device from Pituitary Gland, Percutaneou
## 3605                                                           Removal of Drai
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## 3607                Removal of Drainage Device from Pineal Body, Percutaneou
## 3608                                                         Removal of
## 3609
## 3610                                   Repair Pituitary Gland, Percutaneou
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## 3613                                      Repair Pineal Body, Percutaneou
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## 3620              Revision of Drainage Device in Pituitary Gland, Percutaneou
## 3621                                                         Revision of Dr
## 3622
## 3623                 Revision of Drainage Device in Pineal Body, Percutaneou
## 3624                                                          Revision o
## 3625                                                Bypass Cranial Cavit
## 3626                                               Bypass Cranial Cavi
## 3627                                              Bypass Cranial Ca
## 3628                                              Bypass Cranial
## 3629
## 3630
## 3631             Drainage of Cranial Cavity with Drainage Device, Percutaneou
## 3632                                Drainage of Cranial Cavity, Percutaneou
## 3633                                                     Drainage of Cra
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## 3637                                                          Extirpati
## 3638
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3753   Fusion of 2 or more Cervical Vertebral Joints with Interbody...
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3755   Fusion of 2 or more Cervical Vertebral Joints with Synthe...
3756   Fusion of 2 or more Cervical Vertebral Joints with Syntheti...
3757   Fusion of 2 or more Cervical Vertebral Joints with Synthet...
3758   Fusion of 2 or more Cervical Vertebral Joints with Nonautologous Tis...
3759   Fusion of 2 or more Cervical Vertebral Joints with Nonautologous Tissu...
3760   Fusion of 2 or more Cervical Vertebral Joints with Nonautologous Tis...
3761   Fusion of 2 or more Cervical Vertebral Joints with Autologous Tissue Substitute, An...
3762   Fusion of 2 or more Cervical Vertebral Joints with Autologous Tissue Substitute, Post...
3763   Fusion of 2 or more Cervical Vertebral Joints with Autologous Tissue Substitute, Pos...
3764   Fusion of 2 or more Cervical Vertebral Joints with Interbody Fusion Device, An...
3765   Fusion of 2 or more Cervical Vertebral Joints with Interbody Fusion Device, Pos...
3766   Fusion of 2 or more Cervical Vertebral Joints with Synthetic Substitute, An...
3767   Fusion of 2 or more Cervical Vertebral Joints with Synthetic Substitute, Post...
3768   Fusion of 2 or more Cervical Vertebral Joints with Synthetic Substitute, Pos...
3769   Fusion of 2 or more Cervical Vertebral Joints with Nonautologous Tissue Substitute, An...
3770   Fusion of 2 or more Cervical Vertebral Joints with Nonautologous Tissue Substitute, Post...
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3772   Fusion of Cervicothoracic Vertebral Joint with Autologous Tis...
3773   Fusion of Cervicothoracic Vertebral Joint with Autologous Tissu...
3774   Fusion of Cervicothoracic Vertebral Joint with Autologous Tiss...
3775   Fusion of Cervicothoracic Vertebral Joint with Interbody...
3776   Fusion of Cervicothoracic Vertebral Joint with Interbody...
3777   Fusion of Cervicothoracic Vertebral Joint with Synthe...
3778   Fusion of Cervicothoracic Vertebral Joint with Syntheti...
3779   Fusion of Cervicothoracic Vertebral Joint with Synthet...
3780   Fusion of Cervicothoracic Vertebral Joint with Nonautologous Tis...
3781   Fusion of Cervicothoracic Vertebral Joint with Nonautologous Tissu...
3782   Fusion of Cervicothoracic Vertebral Joint with Nonautologous Tiss...
3783   Fusion of Cervicothoracic Vertebral Joint with Autologous Tissue Substitute, An...
3784   Fusion of Cervicothoracic Vertebral Joint with Autologous Tissue Substitute, Post...
3785   Fusion of Cervicothoracic Vertebral Joint with Autologous Tissue Substitute, Pos...
3786   Fusion of Cervicothoracic Vertebral Joint with Interbody Fusion Device, An...
3787   Fusion of Cervicothoracic Vertebral Joint with Interbody Fusion Device, Pos...
3788   Fusion of Cervicothoracic Vertebral Joint with Synthetic Substitute, An...
3789   Fusion of Cervicothoracic Vertebral Joint with Synthetic Substitute, Post...
3790   Fusion of Cervicothoracic Vertebral Joint with Synthetic Substitute, Pos...
3791   Fusion of Cervicothoracic Vertebral Joint with Nonautologous Tissue Substitute, An...
3792   Fusion of Cervicothoracic Vertebral Joint with Nonautologous Tissue Substitute, Post...
3793   Fusion of Cervicothoracic Vertebral Joint with Nonautologous Tissue Substitute, Pos...
3794   Fusion of Thoracic Vertebral Joint with Autologous Tis...
3795   Fusion of Thoracic Vertebral Joint with Autologous Tissu...
3796   Fusion of Thoracic Vertebral Joint with Autologous Tiss...
3797   Fusion of Thoracic Vertebral Joint with Interbody...
3798   Fusion of Thoracic Vertebral Joint with Interbody...
3799   Fusion of Thoracic Vertebral Joint with Synthe...
3800   Fusion of Thoracic Vertebral Joint with Syntheti...
3801   Fusion of Thoracic Vertebral Joint with Synthet...
3802   Fusion of Thoracic Vertebral Joint with Nonautologous Tis...
3803   Fusion of Thoracic Vertebral Joint with Nonautologous Tissu...
3804   Fusion of Thoracic Vertebral Joint with Nonautologous Tiss...
3805   Fusion of Thoracic Vertebral Joint with Autologous Tissue Substitute, An...

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## 3806                    Fusion of Thoracic Vertebral Joint with Autologous Tissue Substitute, Post
## 3807                    Fusion of Thoracic Vertebral Joint with Autologous Tissue Substitute, Pos
## 3808                       Fusion of Thoracic Vertebral Joint with Interbody Fusion Device, An
## 3809                       Fusion of Thoracic Vertebral Joint with Interbody Fusion Device, Pos
## 3810                         Fusion of Thoracic Vertebral Joint with Synthetic Substitute, An
## 3811                         Fusion of Thoracic Vertebral Joint with Synthetic Substitute, Post
## 3812                         Fusion of Thoracic Vertebral Joint with Synthetic Substitute, Pos
## 3813                    Fusion of Thoracic Vertebral Joint with Nonautologous Tissue Substitute, An
## 3814                    Fusion of Thoracic Vertebral Joint with Nonautologous Tissue Substitute, Post
## 3815                    Fusion of Thoracic Vertebral Joint with Nonautologous Tissue Substitute, Pos
## 3816                           Fusion of 2 to 7 Thoracic Vertebral Joints with Autologous Tis
## 3817                           Fusion of 2 to 7 Thoracic Vertebral Joints with Autologous Tissu
## 3818                           Fusion of 2 to 7 Thoracic Vertebral Joints with Autologous Tiss
## 3819                              Fusion of 2 to 7 Thoracic Vertebral Joints with Interbody
## 3820                              Fusion of 2 to 7 Thoracic Vertebral Joints with Interbody
## 3821                                Fusion of 2 to 7 Thoracic Vertebral Joints with Synthe
## 3822                                Fusion of 2 to 7 Thoracic Vertebral Joints with Syntheti
## 3823                                Fusion of 2 to 7 Thoracic Vertebral Joints with Synthe
## 3824                           Fusion of 2 to 7 Thoracic Vertebral Joints with Nonautologous Tis
## 3825                           Fusion of 2 to 7 Thoracic Vertebral Joints with Nonautologous Tissu
## 3826                           Fusion of 2 to 7 Thoracic Vertebral Joints with Nonautologous Tiss
## 3827        Fusion of 2 to 7 Thoracic Vertebral Joints with Autologous Tissue Substitute, An
## 3828        Fusion of 2 to 7 Thoracic Vertebral Joints with Autologous Tissue Substitute, Post
## 3829        Fusion of 2 to 7 Thoracic Vertebral Joints with Autologous Tissue Substitute, Pos
## 3830           Fusion of 2 to 7 Thoracic Vertebral Joints with Interbody Fusion Device, An
## 3831           Fusion of 2 to 7 Thoracic Vertebral Joints with Interbody Fusion Device, Pos
## 3832             Fusion of 2 to 7 Thoracic Vertebral Joints with Synthetic Substitute, An
## 3833             Fusion of 2 to 7 Thoracic Vertebral Joints with Synthetic Substitute, Post
## 3834             Fusion of 2 to 7 Thoracic Vertebral Joints with Synthetic Substitute, Pos
## 3835        Fusion of 2 to 7 Thoracic Vertebral Joints with Nonautologous Tissue Substitute, An
## 3836        Fusion of 2 to 7 Thoracic Vertebral Joints with Nonautologous Tissue Substitute, Post
## 3837        Fusion of 2 to 7 Thoracic Vertebral Joints with Nonautologous Tissue Substitute, Pos
## 3838                        Fusion of 8 or more Thoracic Vertebral Joints with Autologous Tis
## 3839                        Fusion of 8 or more Thoracic Vertebral Joints with Autologous Tissu
## 3840                        Fusion of 8 or more Thoracic Vertebral Joints with Autologous Tiss
## 3841                           Fusion of 8 or more Thoracic Vertebral Joints with Interbody
## 3842                           Fusion of 8 or more Thoracic Vertebral Joints with Interbody
## 3843                             Fusion of 8 or more Thoracic Vertebral Joints with Synthe
## 3844                             Fusion of 8 or more Thoracic Vertebral Joints with Syntheti
## 3845                             Fusion of 8 or more Thoracic Vertebral Joints with Synthe
## 3846                        Fusion of 8 or more Thoracic Vertebral Joints with Nonautologous Tis
## 3847                        Fusion of 8 or more Thoracic Vertebral Joints with Nonautologous Tissu
## 3848                        Fusion of 8 or more Thoracic Vertebral Joints with Nonautologous Tiss
## 3849        Fusion of 8 or more Thoracic Vertebral Joints with Autologous Tissue Substitute, An
## 3850        Fusion of 8 or more Thoracic Vertebral Joints with Autologous Tissue Substitute, Post
## 3851        Fusion of 8 or more Thoracic Vertebral Joints with Autologous Tissue Substitute, Pos
## 3852           Fusion of 8 or more Thoracic Vertebral Joints with Interbody Fusion Device, An
## 3853           Fusion of 8 or more Thoracic Vertebral Joints with Interbody Fusion Device, Pos
## 3854             Fusion of 8 or more Thoracic Vertebral Joints with Synthetic Substitute, An
## 3855             Fusion of 8 or more Thoracic Vertebral Joints with Synthetic Substitute, Post
## 3856             Fusion of 8 or more Thoracic Vertebral Joints with Synthetic Substitute, Pos
## 3857        Fusion of 8 or more Thoracic Vertebral Joints with Nonautologous Tissue Substitute, An
## 3858        Fusion of 8 or more Thoracic Vertebral Joints with Nonautologous Tissue Substitute, Post
## 3859        Fusion of 8 or more Thoracic Vertebral Joints with Nonautologous Tissue Substitute, Pos
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## 3860                                    Fusion of Thoracolumbar Vertebral Joint with Autologous Tis
## 3861                                Fusion of Thoracolumbar Vertebral Joint with Autologous Tissu
## 3862                                Fusion of Thoracolumbar Vertebral Joint with Autologous Tis
## 3863                               Fusion of Thoracolumbar Vertebral Joint with Interbody
## 3864                             Fusion of Thoracolumbar Vertebral Joint with Interbody
## 3865                              Fusion of Thoracolumbar Vertebral Joint with Synthe
## 3866                              Fusion of Thoracolumbar Vertebral Joint with Syntheti
## 3867                              Fusion of Thoracolumbar Vertebral Joint with Synthe
## 3868                           Fusion of Thoracolumbar Vertebral Joint with Nonautologous Tis
## 3869                          Fusion of Thoracolumbar Vertebral Joint with Nonautologous Tissu
## 3870                          Fusion of Thoracolumbar Vertebral Joint with Nonautologous Tis
## 3871            Fusion of Thoracolumbar Vertebral Joint with Autologous Tissue Substitute, An
## 3872          Fusion of Thoracolumbar Vertebral Joint with Autologous Tissue Substitute, Poste
## 3873          Fusion of Thoracolumbar Vertebral Joint with Autologous Tissue Substitute, Pos
## 3874             Fusion of Thoracolumbar Vertebral Joint with Interbody Fusion Device, An
## 3875            Fusion of Thoracolumbar Vertebral Joint with Interbody Fusion Device, Pos
## 3876              Fusion of Thoracolumbar Vertebral Joint with Synthetic Substitute, An
## 3877             Fusion of Thoracolumbar Vertebral Joint with Synthetic Substitute, Poste
## 3878             Fusion of Thoracolumbar Vertebral Joint with Synthetic Substitute, Pos
## 3879          Fusion of Thoracolumbar Vertebral Joint with Nonautologous Tissue Substitute, An
## 3880       Fusion of Thoracolumbar Vertebral Joint with Nonautologous Tissue Substitute, Poste
## 3881        Fusion of Thoracolumbar Vertebral Joint with Nonautologous Tissue Substitute, Pos
## 3882                                    Fusion of Lumbar Vertebral Joint with Autologous Tis
## 3883                                Fusion of Lumbar Vertebral Joint with Autologous Tissu
## 3884                                Fusion of Lumbar Vertebral Joint with Autologous Tis
## 3885                               Fusion of Lumbar Vertebral Joint with Interbody
## 3886                             Fusion of Lumbar Vertebral Joint with Interbody
## 3887                              Fusion of Lumbar Vertebral Joint with Synthe
## 3888                              Fusion of Lumbar Vertebral Joint with Syntheti
## 3889                              Fusion of Lumbar Vertebral Joint with Synthe
## 3890                           Fusion of Lumbar Vertebral Joint with Nonautologous Tis
## 3891                          Fusion of Lumbar Vertebral Joint with Nonautologous Tissu
## 3892                          Fusion of Lumbar Vertebral Joint with Nonautologous Tis
## 3893            Fusion of Lumbar Vertebral Joint with Autologous Tissue Substitute, An
## 3894          Fusion of Lumbar Vertebral Joint with Autologous Tissue Substitute, Poste
## 3895          Fusion of Lumbar Vertebral Joint with Autologous Tissue Substitute, Pos
## 3896             Fusion of Lumbar Vertebral Joint with Interbody Fusion Device, An
## 3897            Fusion of Lumbar Vertebral Joint with Interbody Fusion Device, Pos
## 3898              Fusion of Lumbar Vertebral Joint with Synthetic Substitute, An
## 3899             Fusion of Lumbar Vertebral Joint with Synthetic Substitute, Poste
## 3900             Fusion of Lumbar Vertebral Joint with Synthetic Substitute, Pos
## 3901          Fusion of Lumbar Vertebral Joint with Nonautologous Tissue Substitute, An
## 3902       Fusion of Lumbar Vertebral Joint with Nonautologous Tissue Substitute, Poste
## 3903        Fusion of Lumbar Vertebral Joint with Nonautologous Tissue Substitute, Pos
## 3904                        Fusion of 2 or more Lumbar Vertebral Joints with Autologous Tis
## 3905                    Fusion of 2 or more Lumbar Vertebral Joints with Autologous Tissu
## 3906                    Fusion of 2 or more Lumbar Vertebral Joints with Autologous Tis
## 3907                       Fusion of 2 or more Lumbar Vertebral Joints with Interbody
## 3908                     Fusion of 2 or more Lumbar Vertebral Joints with Interbody
## 3909                      Fusion of 2 or more Lumbar Vertebral Joints with Synthe
## 3910                      Fusion of 2 or more Lumbar Vertebral Joints with Syntheti
## 3911                      Fusion of 2 or more Lumbar Vertebral Joints with Synthe
## 3912                   Fusion of 2 or more Lumbar Vertebral Joints with Nonautologous Tis
## 3913                  Fusion of 2 or more Lumbar Vertebral Joints with Nonautologous Tissu
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3914   Fusion of 2 or more Lumbar Vertebral Joints with Nonautologous Tis
3915   Fusion of 2 or more Lumbar Vertebral Joints with Autologous Tissue Substitute, An
3916   Fusion of 2 or more Lumbar Vertebral Joints with Autologous Tissue Substitute, Post
3917   Fusion of 2 or more Lumbar Vertebral Joints with Autologous Tissue Substitute, Pos
3918   Fusion of 2 or more Lumbar Vertebral Joints with Interbody Fusion Device, An
3919   Fusion of 2 or more Lumbar Vertebral Joints with Interbody Fusion Device, Pos
3920   Fusion of 2 or more Lumbar Vertebral Joints with Synthetic Substitute, An
3921   Fusion of 2 or more Lumbar Vertebral Joints with Synthetic Substitute, Post
3922   Fusion of 2 or more Lumbar Vertebral Joints with Synthetic Substitute, Pos
3923   Fusion of 2 or more Lumbar Vertebral Joints with Nonautologous Tissue Substitute, An
3924   Fusion of 2 or more Lumbar Vertebral Joints with Nonautologous Tissue Substitute, Post
3925   Fusion of 2 or more Lumbar Vertebral Joints with Nonautologous Tissue Substitute, Pos
3926   Fusion of Lumbosacral Joint with Autologous Tis
3927   Fusion of Lumbosacral Joint with Autologous Tissu
3928   Fusion of Lumbosacral Joint with Autologous Tis
3929   Fusion of Lumbosacral Joint with Interbody
3930   Fusion of Lumbosacral Joint with Interbody
3931   Fusion of Lumbosacral Joint with Synthe
3932   Fusion of Lumbosacral Joint with Syntheti
3933   Fusion of Lumbosacral Joint with Synthet
3934   Fusion of Lumbosacral Joint with Nonautologous Tis
3935   Fusion of Lumbosacral Joint with Nonautologous Tissu
3936   Fusion of Lumbosacral Joint with Nonautologous Tis
3937   Fusion of Lumbosacral Joint with Autologous Tissue Substitute, An
3938   Fusion of Lumbosacral Joint with Autologous Tissue Substitute, Post
3939   Fusion of Lumbosacral Joint with Autologous Tissue Substitute, Pos
3940   Fusion of Lumbosacral Joint with Interbody Fusion Device, An
3941   Fusion of Lumbosacral Joint with Interbody Fusion Device, Pos
3942   Fusion of Lumbosacral Joint with Synthetic Substitute, An
3943   Fusion of Lumbosacral Joint with Synthetic Substitute, Post
3944   Fusion of Lumbosacral Joint with Synthetic Substitute, Pos
3945   Fusion of Lumbosacral Joint with Nonautologous Tissue Substitute, An
3946   Fusion of Lumbosacral Joint with Nonautologous Tissue Substitute, Post
3947   Fusion of Lumbosacral Joint with Nonautologous Tissue Substitute, Pos
3948   Fusion of Ri
3949   Fusion of Right
3950   Fusion o
3951   Fusion of Right Sac
3952   Fusion of Right Sacroiliac Joir
3953   Fusion of Right Sacroiliac Joint wi
3954   Fusion of Right Sacroiliac
3955   Fusion of Right Sacroiliac Joint with
3956   Fusion of L
3957   Fusion of Left
3958   Fusion
3959   Fusion of Left Sac
3960   Fusion of Left Sacroiliac Joir
3961   Fusion of Left Sacroiliac Joint wi
3962   Fusion of Left Sacroiliac
3963   Fusion of Left Sacroiliac Joint with
3964   Fusion of Cervical Vertebral Joint using Nanotextured Surfa
3965   Fusion of Cervical Vertebral Joint using Radiolucent Por
3966   Fusion of 2 or more Cervical Vertebral Joints using Nanotextured Surfa
3967   Fusion of 2 or more Cervical Vertebral Joints using Radiolucent Por

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## 3968                    Fusion of Cervicothoracic Vertebral Joint using Nanotextured Surfa
## 3969                 Fusion of Cervicothoracic Vertebral Joint using Radiolucent Porc
## 3970                      Fusion of Thoracic Vertebral Joint using Nanotextured Surfa
## 3971                      Fusion of Thoracic Vertebral Joint using Radiolucent Porc
## 3972               Fusion of 2 to 7 Thoracic Vertebral Joints using Nanotextured Surfa
## 3973               Fusion of 2 to 7 Thoracic Vertebral Joints using Radiolucent Porc
## 3974          Fusion of 8 or more Thoracic Vertebral Joints using Nanotextured Surfa
## 3975          Fusion of 8 or more Thoracic Vertebral Joints using Radiolucent Porc
## 3976               Fusion of Thoracolumbar Vertebral Joint using Nanotextured Surfa
## 3977               Fusion of Thoracolumbar Vertebral Joint using Radiolucent Porc
## 3978                 Fusion of Thoracolumbar Vertebral Joint using Customizak
## 3979       Fusion of Thoracolumbar Vertebral Joint using Customizable Interbody Fusior
## 3980                      Fusion of Lumbar Vertebral Joint using Nanotextured Surfa
## 3981                      Fusion of Lumbar Vertebral Joint using Radiolucent Porc
## 3982                      Fusion of Lumbar Vertebral Joint using Customizak
## 3983            Fusion of Lumbar Vertebral Joint using Customizable Interbody Fusior
## 3984            Fusion of 2 or more Lumbar Vertebral Joints using Nanotextured Surfa
## 3985            Fusion of 2 or more Lumbar Vertebral Joints using Radiolucent Porc
## 3986              Fusion of 2 or more Lumbar Vertebral Joint using Customizak
## 3987      Fusion of 2 or more Lumbar Vertebral Joint using Customizable Interbody Fusior
## 3988                      Fusion of Lumbosacral Joint using Nanotextured Surfa
## 3989                      Fusion of Lumbosacral Joint using Radiolucent Porc
## 3990                        Fusion of Lumbosacral Joint using Customizak
## 3991              Fusion of Lumbosacral Joint using Customizable Interbody Fusior
## 3992                                                       Repositic
## 3993                                                       Repositic
## 3994                            Reposition Right Humeral
## 3995                                Reposition Right Hun
## 3996                                     Reposition Rig
## 3997                            Reposition Right
## 3998
## 3999                                             Repositi
## 4000                                             Repositi
## 4001                            Reposition Left Humeral
## 4002                                Reposition Left Hun
## 4003                                     Reposition Le
## 4004                            Reposition Left
## 4005
## 4006                                             Repositior
## 4007                                             Repositior
## 4008                     Reposition Right Humeral
## 4009                         Reposition Right Hume
## 4010                              Reposition Rigl
## 4011                     Reposition Right
## 4012
## 4013                                             Repositic
## 4014                                             Repositic
## 4015                     Reposition Left Humeral
## 4016                         Reposition Left Hume
## 4017                              Reposition Le
## 4018                     Reposition Left
## 4019
## 4020                                                       Rep
## 4021                                                       Rep
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## 4022                                     Reposition Right |
## 4023                               Reposition Rig
## 4024                                  Reposit
## 4025                               Reposition
## 4026
## 4027                                        R
## 4028                                        R
## 4029                         Reposition Left |
## 4030                            Reposition Le
## 4031                               Reposit
## 4032                            Repos1tio
## 4033
## 4034                                        |
## 4035                                        |
## 4036                         Reposition Righ
## 4037                            Reposition |
## 4038                               Reposi
## 4039                            Reposit
## 4040
## 4041
## 4042
## 4043                         Reposition Lef
## 4044                            Reposition
## 4045                               Repos
## 4046                            Reposi
## 4047
## 4048                            Reposit
## 4049                            Reposit
## 4050               Reposition Right Upper
## 4051                  Reposition Right Up
## 4052                     Reposition Ri
## 4053                  Reposition Righ
## 4054
## 4055                            Reposi
## 4056                            Reposi
## 4057                Reposition Left Upper
## 4058                   Reposition Left Up
## 4059                      Reposition |
## 4060                   Reposition Le:
## 4061
## 4062                         Reposition
## 4063                         Reposition
## 4064           Reposition Right Femoral
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## 4071           Reposition Left Femoral
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## 4080                                                Reposition Ri
## 4081                                             Reposition Rig
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## 4084                                                       Reposi
## 4085                                           Reposition Left Lower
## 4086                                              Reposition Left Lo
## 4087                                                 Reposition I
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## 4089
## 4090                                                            Re
## 4091                                                            Re
## 4092                                               Reposition Right
## 4093                                                  Reposition Ri
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## 4095                                                  Reposiu
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## 4099                                                Reposition Left
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## 4102                                                   Reposiu
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## 4104                                                          Rep
## 4105                                                          Rep
## 4106                                             Reposition Right I
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## 4113                                              Reposition Left I
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## 4122                  Bypass Upper Esophagus to Stomach wi
## 4123                       Bypass Upper Esophagus to S
## 4124         Bypass Upper Esophagus to Stomach with
## 4125                                                          By
## 4126                                         Bypass Middle Esop
## 4127                                            Bypass Mic
## 4128                                    Bypass Middle Esophag
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## 4132                          Bypass Middle Esophagus to Stomach with
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## 4136                                            Bypass Lower Esophag
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## 4429                                      Replacement of Left Hip Joint, Acetabular Surfac
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## 4509                                       Replacement of Right Knee Joint with Oxidized Zirconiu
## 4510                                           Replacement of Right Knee Joint with Oxid
## 4511                                                       Replacement of Ri
## 4512                                                   Replacement of Rigl
## 4513                                                                 Replace
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## 4515                                           Replacement of Right Knee Joint
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## 4519                                             Replacement of Right Knee
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## 4531                                             Replacement of Left Knee
## 4532                                         Replacement of Left Knee Joint with
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## 4844                                               Bypass Right Kidney Pelvis to Colocuta
## 4845                                                   Bypass Right Kidney Pelvis to
## 4846                                                Bypass Right Kidney Pelvis to Bl
## 4847                                              Bypass Right Kidney Pelvis to Ileocuta
## 4848                                              Bypass Right Kidney Pelvis to Cuta
## 4849                               Bypass Right Kidney Pelvis to Right Kidney Pelvis with
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## 4852                                  Bypass Right Kidney Pelvis to Left Ureter with
## 4853                                    Bypass Right Kidney Pelvis to Colon with
## 4854                               Bypass Right Kidney Pelvis to Colocutaneous with
## 4855                                   Bypass Right Kidney Pelvis to Ileum with
## 4856                                  Bypass Right Kidney Pelvis to Bladder with
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## 4859                                                        Bypass Right Kidne
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## 4861                                                           Bypass Righ
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## 4864                                                        Bypass Right
## 4865                                                              Bypa
## 4866                                                           Bypass
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## 4868                                                           Bypass
## 4869                                  Bypass Left Kidney Pelvis to Rig
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## 4875                                       Bypass Left Kidney
## 4876                                      Bypass Left Kidney
## 4877                                    Bypass Left Kidney Pelvis
## 4878                                        Bypass Left Kidney Pel
## 4879                                     Bypass Left Kidney Pelv
## 4880                                     Bypass Left Kidney Pel
## 4881                                        Bypass Left Kidne
## 4882                                         Bypass Left Kidn
## 4883                                            Bypass Le
## 4884                                      Bypass Left Kidney
## 4885                                            Bypass Le
```

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```
## 4886                                                          Bypass Left
## 4887                                                    Bypass Left Kidney
## 4888                                                      Bypass Left K
## 4889                                   Bypass Left Kidney Pelvis to Right
## 4890                                   Bypass Left Kidney Pelvis to Left
## 4891                                        Bypass Left Kidney Pelvis t
## 4892                                       Bypass Left Kidney Pelvis
## 4893                                          Bypass Left Kidney P
## 4894                                   Bypass Left Kidney Pelvis to
## 4895                                          Bypass Left Kidney P
## 4896                                       Bypass Left Kidney Pel
## 4897                                   Bypass Left Kidney Pelvis to
## 4898                                        Bypass Left Kidney Pelvis
## 4899
## 4900
## 4901
## 4902
## 4903
## 4904
## 4905
## 4906
## 4907
## 4908
## 4909               Bypass Left Kidney Pelvis to Right Kidney Pelvis w
## 4910               Bypass Left Kidney Pelvis to Left Kidney Pelvis w
## 4911                    Bypass Left Kidney Pelvis to Right Ureter w
## 4912                     Bypass Left Kidney Pelvis to Left Ureter w
## 4913                          Bypass Left Kidney Pelvis to Colon w
## 4914                 Bypass Left Kidney Pelvis to Colocutaneous w
## 4915                          Bypass Left Kidney Pelvis to Ileum w
## 4916                      Bypass Left Kidney Pelvis to Bladder w
## 4917                 Bypass Left Kidney Pelvis to Ileocutaneous w
## 4918                     Bypass Left Kidney Pelvis to Cutaneous w
## 4919                   Bypass Left Kidney Pelvis to Right Kidney
## 4920                    Bypass Left Kidney Pelvis to Left Kidney
## 4921                       Bypass Left Kidney Pelvis to Right U
## 4922                        Bypass Left Kidney Pelvis to Left U
## 4923                           Bypass Left Kidney Pelvis to
## 4924                   Bypass Left Kidney Pelvis to Colocuta
## 4925                           Bypass Left Kidney Pelvis to
## 4926                        Bypass Left Kidney Pelvis to Bl
## 4927                   Bypass Left Kidney Pelvis to Ileocut
## 4928                          Bypass Left Kidney Pelvis to Cut
## 4929       Bypass Left Kidney Pelvis to Right Kidney Pelvis with
## 4930       Bypass Left Kidney Pelvis to Left Kidney Pelvis with
## 4931             Bypass Left Kidney Pelvis to Right Ureter with
## 4932              Bypass Left Kidney Pelvis to Left Ureter with
## 4933                   Bypass Left Kidney Pelvis to Colon with
## 4934          Bypass Left Kidney Pelvis to Colocutaneous with
## 4935               Bypass Left Kidney Pelvis to Ileum with
## 4936              Bypass Left Kidney Pelvis to Bladder with
## 4937          Bypass Left Kidney Pelvis to Ileocutaneous with
## 4938               Bypass Left Kidney Pelvis to Cutaneous with
## 4939                                      Bypass Left Kidn
```

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## 4940                                                              Bypass Left Kidn
## 4941                                                         Bypass Le
## 4942                                                       Bypass L
## 4943                                                              By
## 4944                                                         Bypass Lef
## 4945                                                              By
## 4946                                                         Bypa
## 4947                                                       Bypass Lef
## 4948                                                         Bypass
## 4949
## 4950
## 4951
## 4952
## 4953
## 4954                                                              De
## 4955
## 4956                                                              D
## 4957                                                       Dilat
## 4958
## 4959                                       Dilation of Right Kidney
## 4960
## 4961                                                         Dila
## 4962
## 4963                                       Dilation of Left Kidney
## 4964
## 4965
## 4966
## 4967
## 4968                                                  Drainage of R
## 4969
## 4970
## 4971
## 4972
## 4973                                                  Drainage of
## 4974
## 4975                                                              D
## 4976
## 4977
## 4978                                              Drainage of Right Ki
## 4979
## 4980                                                              D
## 4981
## 4982
## 4983                                              Drainage of Left Ki
## 4984
## 4985
## 4986
## 4987                                                       Exci
## 4988
## 4989
## 4990
## 4991                                                       Exc
## 4992
## 4993
```

```
## 4994                                                                    
## 4995                                                    Excision of 
## 4996                                                                    
## 4997                                                                    
## 4998                                                                    
## 4999                                                    Excision o
## 5000                                                                    
## 5001                                                                    
## 5002                                                     Extirpa
## 5003                                                                    
## 5004                                                    Extirp
## 5005                                                                    
## 5006                                             Extirpation of 
## 5007                                                                    
## 5008                                             Extirpation o
## 5009                                                                    
## 5010                                                                    
## 5011                                                                    
## 5012                                                                    
## 5013                                                                    
## 5014                                                        Fragr
## 5015                                                                    
## 5016                                                        Frag
## 5017                                                                    
## 5018                                                       Insert
## 5019                                                                    
## 5020                                                                    
## 5021                                                                    
## 5022                                                            I
## 5023                                                                    
## 5024                                                                    
## 5025                                                                    
## 5026                                                        Remo
## 5027                                                                    
## 5028                                                   Removal 
## 5029                                            Removal o
## 5030                                                   Removal
## 5031                             Removal of Autologou
## 5032                                      Removal of 
## 5033                                      Removal of 
## 5034                                    Removal of S
## 5035                      Removal of Nonautologou
## 5036                                            Remo
## 5037                                                                    
## 5038                                                                    
## 5039                                                                    
## 5040                                                                    
## 5041                                                                    
## 5042                                                                    
## 5043                                                                    
## 5044                                                            I
## 5045                                                                    
## 5046                                                                    
## 5047                                                                    
```

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```
## 5048                                                                    Rev
## 5049
## 5050
## 5051
## 5052
## 5053
## 5054                                                                      I
## 5055
## 5056
## 5057
## 5058
## 5059
## 5060
## 5061
## 5062
## 5063
## 5064                                                       Drainage of I
## 5065                                                            Drai
## 5066
## 5067
## 5068
## 5069
## 5070                                                       Drainage of
## 5071                                                            Dra
## 5072
## 5073
## 5074
## 5075
## 5076                                             Drainage of Bilater
## 5077                                                  Drainage o
## 5078
## 5079
## 5080
## 5081                                                            Exc
## 5082
## 5083
## 5084
## 5085                                                            Exc
## 5086
## 5087
## 5088
## 5089                                                  Excision o
## 5090
## 5091
## 5092                                                       Extirpa
## 5093
## 5094                                                       Extirp
## 5095
## 5096                                             Extirpation o
## 5097
## 5098                                                       Inser
## 5099
## 5100
## 5101
```

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```
## 5102                                                                          Re
## 5103
## 5104                                                                          R
## 5105
## 5106
## 5107
## 5108
## 5109
## 5110
## 5111
## 5112                                                                         Rem
## 5113
## 5114
## 5115
## 5116
## 5117
## 5118
## 5119
## 5120
## 5121
## 5122
## 5123
## 5124
## 5125
## 5126
## 5127                                            Resection of Right Ovary, Via Natu
## 5128
## 5129
## 5130                                             Resection of Left Ovary, Via Natu
## 5131
## 5132
## 5133                                        Resection of Bilateral Ovaries, Via Natu
## 5134
## 5135                                                                         Re
## 5136
## 5137
## 5138
## 5139
## 5140
## 5141
## 5142
## 5143
## 5144
## 5145                                                                        Inse
## 5146                                                        Insertion of Pa
## 5147                                                      Insertion of Defibr
## 5148                                                          Insertion of
## 5149                                                 Insertion of Intracardi
## 5150
## 5151
## 5152
## 5153                                                                         Ins
## 5154                                                        Insertion of I
## 5155                                                      Insertion of Defil
```

```
## 5156                                                                  Insertion o
## 5157                                                   Insertion of Intracar
## 5158
## 5159
## 5160
## 5161                                                                        I
## 5162                                                     Insertion of
## 5163                                                     Insertion of Def
## 5164                                                       Insertion o
## 5165                                                   Insertion of Intraca
## 5166
## 5167                                                                       In
## 5168
## 5169                                                              Insert
## 5170                                                     Insertion of Pac
## 5171                                                   Insertion of Defibril
## 5172                                                       Insertion of Ca
## 5173                                                 Insertion of Intracardia
## 5174
## 5175                                                                        I
## 5176
## 5177                                                              Inser
## 5178                                                     Insertion of Pac
## 5179                                                   Insertion of Defibri
## 5180                                                       Insertion of C
## 5181                                                 Insertion of Intracardi
## 5182
## 5183
## 5184
## 5185                                                     Insertion of
## 5186                                                   Insertion of Def
## 5187                                                       Insertion o
## 5188
## 5189
## 5190                                                                      Rem
## 5191                                                     Removal of Ir
## 5192
## 5193
## 5194                                                                       Re
## 5195                                                     Revision of
## 5196                                             Insertion of Pacemaker, Singl
## 5197                              Insertion of Pacemaker, Single Chamber Rate R
## 5198                                             Insertion of Pacemaker, Dua
## 5199             Insertion of Cardiac Resynchronization Pacemaker Pulse (
## 5200                                             Insertion of Defibrillator (
## 5201         Insertion of Cardiac Resynchronization Defibrillator Pulse (
## 5202                                     Insertion of Contractility Modulati
## 5203                                     Insertion of Subcutaneous Defibrilla
## 5204                                       Insertion of Cardiac Rhythm Relat
## 5205                                         Insertion of Pacemaker, Single (
## 5206                              Insertion of Pacemaker, Single Chamber Rate Resp
## 5207                                             Insertion of Pacemaker, Dual (
## 5208             Insertion of Cardiac Resynchronization Pacemaker Pulse Ger
## 5209                                             Insertion of Defibrillator Ger
```

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5210   Insertion of Cardiac Resynchronization Defibrillator Pulse Gen
5211   Insertion of Contractility Modulation
5212   Insertion of Cardiac Rhythm Related
5213   Removal of Subcutaneous Defibrilla
5214   Removal of Cardiac Rhythm Relate
5215   Revision of Subcutaneous Defibril
5216   Revision of Cardiac Rhythm Rela
5217
5218
5219   Drainage o
5220
5221
5222
5223
5224
5225   Bypass Pulmonary T
5226   Bypass Pulm
5227   Bypass P
5228   Bypass Pulmonary Trunk fr
5229   Bypass Pulmonary T
5230   Bypass Pulmonar
5231   Bypass Pulmonary Trunk from
5232   Bypass Pulmonary Tru
5233   Bypass Pulmonary
5234   Bypass Pulmonary Trun
5235   Bypass Pulmona
5236   Bypass Pulm
5237   Bypass Pulmonary Trunk from Inne
5238   Bypass Pulmonary Trunk f
5239   Bypass Pulmonary Trunk
5240   Bypass Pul
5241   Byp
5242
5243   Bypass Pulmonary Trunk from Innomina
5244   Bypass Pulmonary Trunk from Su
5245   Bypass Pulmonary Trunk from
5246   Bypass Pulmonary Trunk from Innominate Arter
5247   Bypass Pulmonary Trunk from Subclavia
5248   Bypass Pulmonary Trunk from Caroti
5249   Bypass Pulmonary Trunk from Innominate Artery
5250   Bypass Pulmonary Trunk from Subclavian
5251   Bypass Pulmonary Trunk from Carotid
5252   Bypass Pulmonary Trunk from Innominate A
5253   Bypass Pulmonary Trunk from Subcl
5254   Bypass Pulmonary Trunk from Ca
5255   Bypass Pulmonary Trunk from Innominate Artery with
5256   Bypass Pulmonary Trunk from Subclavian with
5257   Bypass Pulmonary Trunk from Carotid with
5258   Bypass Pulmonary Trunk from
5259   Bypass Pulmonary Trunk
5260   Bypass Pulmonary T
5261   Bypass Right Pulmonary A
5262   Bypass Right Pulmo
5263   Bypass Right Pu

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```
## 5264                                         Bypass Right Pulmonary Artery f
## 5265                                     Bypass Right Pulmonary Ar
## 5266                                 Bypass Right Pulmonary
## 5267                       Bypass Right Pulmonary Artery fror
## 5268                            Bypass Right Pulmonary Arte
## 5269                              Bypass Right Pulmonary A
## 5270                          Bypass Right Pulmonary Arter
## 5271                            Bypass Right Pulmonar
## 5272                             Bypass Right Pulmo
## 5273                    Bypass Right Pulmonary Artery from Inno
## 5274                        Bypass Right Pulmonary Artery fr
## 5275                      Bypass Right Pulmonary Artery
## 5276                            Bypass Right Puln
## 5277                                Bypass Rig
## 5278                                  Bypass
## 5279                    Bypass Right Pulmonary Artery from Innominat
## 5280                       Bypass Right Pulmonary Artery from Su
## 5281                        Bypass Right Pulmonary Artery fror
## 5282              Bypass Right Pulmonary Artery from Innominate Arter
## 5283                  Bypass Right Pulmonary Artery from Subclavia
## 5284                 Bypass Right Pulmonary Artery from Caroti
## 5285        Bypass Right Pulmonary Artery from Innominate Artery
## 5286               Bypass Right Pulmonary Artery from Subclavian
## 5287                Bypass Right Pulmonary Artery from Carotid
## 5288               Bypass Right Pulmonary Artery from Innominate A
## 5289                  Bypass Right Pulmonary Artery from Subcl
## 5290                  Bypass Right Pulmonary Artery from Ca
## 5291   Bypass Right Pulmonary Artery from Innominate Artery with
## 5292          Bypass Right Pulmonary Artery from Subclavian with
## 5293            Bypass Right Pulmonary Artery from Carotid with
## 5294                    Bypass Right Pulmonary Artery from l
## 5295                      Bypass Right Pulmonary Artery
## 5296                        Bypass Right Pulmonary Ar
## 5297                       Bypass Left Pulmonary Ar
## 5298                           Bypass Left Pulmo
## 5299                             Bypass Left Pu
## 5300                    Bypass Left Pulmonary Artery f
## 5301                      Bypass Left Pulmonary Ar
## 5302                        Bypass Left Pulmonary
## 5303                  Bypass Left Pulmonary Artery fror
## 5304                       Bypass Left Pulmonary Arte
## 5305                         Bypass Left Pulmonary A
## 5306                       Bypass Left Pulmonary Arter
## 5307                         Bypass Left Pulmonar
## 5308                           Bypass Left Pulmo
## 5309                  Bypass Left Pulmonary Artery from Inno
## 5310                      Bypass Left Pulmonary Artery fr
## 5311                    Bypass Left Pulmonary Artery
## 5312                          Bypass Left Puln
## 5313                            Bypass Le
## 5314                              Bypass
## 5315                  Bypass Left Pulmonary Artery from Innominat
## 5316                     Bypass Left Pulmonary Artery from Su
## 5317                      Bypass Left Pulmonary Artery fror
```

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## 5318                                                                 Bypass Left Pulmonary Artery from Innominate Arter
## 5319                                                                  Bypass Left Pulmonary Artery from Subclavia
## 5320                                                                    Bypass Left Pulmonary Artery from Caroti
## 5321                                             Bypass Left Pulmonary Artery from Innominate Artery
## 5322                                                 Bypass Left Pulmonary Artery from Subclavian
## 5323                                                  Bypass Left Pulmonary Artery from Carotid
## 5324                                                 Bypass Left Pulmonary Artery from Innominate A
## 5325                                                    Bypass Left Pulmonary Artery from Subcl
## 5326                                                      Bypass Left Pulmonary Artery from Ca
## 5327                                    Bypass Left Pulmonary Artery from Innominate Artery with
## 5328                                         Bypass Left Pulmonary Artery from Subclavian with
## 5329                                          Bypass Left Pulmonary Artery from Carotid with
## 5330                                                      Bypass Left Pulmonary Artery from I
## 5331                                                        Bypass Left Pulmonary Artery
## 5332                                                       Bypass Left Pulmonary Ar
## 5333                                                               Bypass Superior V
## 5334                                                         Bypass Superior Vena Cav
## 5335                                                          Bypass Superior Vena Ca
## 5336                                                           Bypass Superior Vena C
## 5337                                                         Bypass Superior Vena
## 5338                                                    Bypass Superior Vena Cava t
## 5339                                                       Bypass Superior Vena Cav
## 5340                                                 Bypass Superior Vena Cava to Ri
## 5341                                                  Bypass Superior Vena Cava to L
## 5342                                                   Bypass Superior Vena Cava to
## 5343                                                   Bypass Superior Vena Cava t
## 5344                                             Bypass Superior Vena Cava to Pulmo
## 5345                                                    Bypass Superior Vena Cava
## 5346                                             Bypass Superior Vena Cava to Righ
## 5347                                               Bypass Superior Vena Cava to Le
## 5348                                                Bypass Superior Vena Cava to Ri
## 5349                                                 Bypass Superior Vena Cava to L
## 5350                                            Bypass Superior Vena Cava to Pulmona
## 5351                                                         Bypass Superior Ven
## 5352                                                    Bypass Superior Vena Cava t
## 5353                                                     Bypass Superior Vena Cava
## 5354                                                      Bypass Superior Vena Cav
## 5355                                                       Bypass Superior Vena Ca
## 5356                                                 Bypass Superior Vena Cava to L
## 5357                                                  Bypass Superior Vena Cava to Pu
## 5358                                           Bypass Superior Vena Cava to Right Pul
## 5359                                           Bypass Superior Vena Cava to Left Pul
## 5360                                             Bypass Superior Vena Cava to Right L
## 5361                                               Bypass Superior Vena Cava to Left L
## 5362                                         Bypass Superior Vena Cava to Pulmonary Ve
## 5363
## 5364                                                                              L
## 5365
## 5366
## 5367
## 5368                                                                          Bypa
## 5369                                         Bypass Superior Vena Cava to Pulmona
## 5370                                       Bypass Superior Vena Cava to Right Pulmona
## 5371                                         Bypass Superior Vena Cava to Left Pulmona
```

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```
## 5372                                 Bypass Superior Vena Cava to Right Pulmor
## 5373                                  Bypass Superior Vena Cava to Left Pulmor
## 5374                          Bypass Superior Vena Cava to Pulmonary Vein Co
## 5375                             Bypass Superior Vena Cava to Pulmonary Trur
## 5376                      Bypass Superior Vena Cava to Right Pulmonary Arter
## 5377                       Bypass Superior Vena Cava to Left Pulmonary Arter
## 5378                         Bypass Superior Vena Cava to Right Pulmonary Ve
## 5379                          Bypass Superior Vena Cava to Left Pulmonary Ve
## 5380                  Bypass Superior Vena Cava to Pulmonary Vein Confluen
## 5381                          Bypass Superior Vena Cava to Pulmonary Trunk
## 5382                     Bypass Superior Vena Cava to Right Pulmonary Artery
## 5383                      Bypass Superior Vena Cava to Left Pulmonary Artery
## 5384                        Bypass Superior Vena Cava to Right Pulmonary Vein
## 5385                         Bypass Superior Vena Cava to Left Pulmonary Vein
## 5386                 Bypass Superior Vena Cava to Pulmonary Vein Confluence
## 5387                             Bypass Superior Vena Cava to Pulmonary
## 5388                     Bypass Superior Vena Cava to Right Pulmonary A
## 5389                      Bypass Superior Vena Cava to Left Pulmonary A
## 5390                        Bypass Superior Vena Cava to Right Pulmonary
## 5391                         Bypass Superior Vena Cava to Left Pulmonary
## 5392                 Bypass Superior Vena Cava to Pulmonary Vein Confl
## 5393                 Bypass Superior Vena Cava to Pulmonary Trunk with
## 5394         Bypass Superior Vena Cava to Right Pulmonary Artery with
## 5395          Bypass Superior Vena Cava to Left Pulmonary Artery with
## 5396           Bypass Superior Vena Cava to Right Pulmonary Vein with
## 5397            Bypass Superior Vena Cava to Left Pulmonary Vein with
## 5398  Bypass Superior Vena Cava to Pulmonary Vein Confluence with
## 5399                                             Bypass Super
## 5400                                        Bypass Superior Ven
## 5401                                         Bypass Superior Ve
## 5402                                          Bypass Superior Ve
## 5403                                           Bypass Superior V
## 5404                                      Bypass Superior Vena Ca
## 5405                           Bypass Thoracic Aorta, Desc
## 5406                                     Bypass Thoracic Aort
## 5407                                       Bypass Thoracic A
## 5408                           Bypass Thoracic Aorta, Des
## 5409                             Bypass Thoracic Aorta, Do
## 5410                             Bypass Thoracic Aorta, Do
## 5411                             Bypass Thoracic Aorta, Do
## 5412                       Bypass Thoracic Aorta, Descendir
## 5413                         Bypass Thoracic Aorta, Descendi
## 5414                       Bypass Thoracic Aorta, Descendir
## 5415                     Bypass Thoracic Aorta, Descending
## 5416                         Bypass Thoracic Aorta, Desc
## 5417                            Bypass Thoracic Aorta, I
## 5418                       Bypass Thoracic Aorta, Descending
## 5419                         Bypass Thoracic Aorta, Descendir
## 5420                         Bypass Thoracic Aorta, Descendir
## 5421                         Bypass Thoracic Aorta, Descendir
## 5422                   Bypass Thoracic Aorta, Descending to Ri
## 5423                     Bypass Thoracic Aorta, Descending to I
## 5424                    Bypass Thoracic Aorta, Descending to Lo
## 5425                      Bypass Thoracic Aorta, Descending to
```

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```
## 5426                                                   Bypass Thoracic Aorta, Descen
## 5427                                                     Bypass Thoracic Aorta, Des
## 5428                                             Bypass Thoracic Aorta, Descending
## 5429                                                 Bypass Thoracic Aorta, Descending
## 5430                                                 Bypass Thoracic Aorta, Descending
## 5431                                                 Bypass Thoracic Aorta, Descending
## 5432                                         Bypass Thoracic Aorta, Descending to Rig
## 5433                                             Bypass Thoracic Aorta, Descending to Le
## 5434                                         Bypass Thoracic Aorta, Descending to Low
## 5435                                                 Bypass Thoracic Aorta, Descen
## 5436                                                     Bypass Thoracic Aorta,
## 5437                                                         Bypass Thoracic Aor
## 5438                                             Bypass Thoracic Aorta, Descen
## 5439                                                 Bypass Thoracic Aorta, Desc
## 5440                                                 Bypass Thoracic Aorta, Desc
## 5441                                                 Bypass Thoracic Aorta, Desc
## 5442                                             Bypass Thoracic Aorta, Descending
## 5443                                                 Bypass Thoracic Aorta, Descending
## 5444                                                 Bypass Thoracic Aorta, Descending
## 5445                                         Bypass Thoracic Aorta, Descending to Inn
## 5446                                                 Bypass Thoracic Aorta, Descending
## 5447                                                     Bypass Thoracic Aorta, Descend
## 5448                                         Bypass Thoracic Aorta, Descending to Ab
## 5449                                             Bypass Thoracic Aorta, Descending to A
## 5450                                             Bypass Thoracic Aorta, Descending to B
## 5451                                             Bypass Thoracic Aorta, Descending to Pu
## 5452                                     Bypass Thoracic Aorta, Descending to Right Pul
## 5453                                     Bypass Thoracic Aorta, Descending to Left Pul
## 5454                                     Bypass Thoracic Aorta, Descending to Lower Ext
## 5455                                                                 Byp
## 5456
## 5457
## 5458                                                                         B
## 5459                                                             Bypass T
## 5460                                                             Bypass T
## 5461                                     Bypass Thoracic Aorta, Descending to Innomina
## 5462                                         Bypass Thoracic Aorta, Descending to Su
## 5463                                             Bypass Thoracic Aorta, Descending to
## 5464                                     Bypass Thoracic Aorta, Descending to Pulmona
## 5465                                 Bypass Thoracic Aorta, Descending to Right Pulmona
## 5466                                 Bypass Thoracic Aorta, Descending to Left Pulmona
## 5467                             Bypass Thoracic Aorta, Descending to Innominate Arte
## 5468                                     Bypass Thoracic Aorta, Descending to Subclavia
## 5469                                     Bypass Thoracic Aorta, Descending to Caroti
## 5470                                 Bypass Thoracic Aorta, Descending to Pulmonary Tru
## 5471                         Bypass Thoracic Aorta, Descending to Right Pulmonary Arte
## 5472                         Bypass Thoracic Aorta, Descending to Left Pulmonary Arte
## 5473                             Bypass Thoracic Aorta, Descending to Innominate Artery
## 5474                                 Bypass Thoracic Aorta, Descending to Subclavian
## 5475                                 Bypass Thoracic Aorta, Descending to Carotid
## 5476                             Bypass Thoracic Aorta, Descending to Pulmonary Trunk
## 5477                     Bypass Thoracic Aorta, Descending to Right Pulmonary Artery
## 5478                     Bypass Thoracic Aorta, Descending to Left Pulmonary Artery
## 5479                             Bypass Thoracic Aorta, Descending to Innominate A
```

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```
## 5480                                     Bypass Thoracic Aorta, Descending to Subcl
## 5481                                 Bypass Thoracic Aorta, Descending to Ca
## 5482                     Bypass Thoracic Aorta, Descending to Pulmonary
## 5483           Bypass Thoracic Aorta, Descending to Right Pulmonary A
## 5484             Bypass Thoracic Aorta, Descending to Left Pulmonary A
## 5485   Bypass Thoracic Aorta, Descending to Innominate Artery with
## 5486             Bypass Thoracic Aorta, Descending to Subclavian with
## 5487               Bypass Thoracic Aorta, Descending to Carotid with
## 5488       Bypass Thoracic Aorta, Descending to Pulmonary Trunk with
## 5489   Bypass Thoracic Aorta, Descending to Right Pulmonary Artery with
## 5490   Bypass Thoracic Aorta, Descending to Left Pulmonary Artery with
## 5491                                   Bypass Thoracic Aorta,
## 5492                                       Bypass Thoracic
## 5493                                         Bypass Thorac
## 5494                                   Bypass Thoracic Aorta
## 5495                             Bypass Thoracic Aorta, Desc
## 5496                             Bypass Thoracic Aorta, Des
## 5497                         Bypass Thoracic Aorta, Ascendi
## 5498                             Bypass Thoracic Aorta, A
## 5499                               Bypass Thoracic Aorta
## 5500                         Bypass Thoracic Aorta, Ascend
## 5501                 Bypass Thoracic Aorta, Ascending/Arc
## 5502                   Bypass Thoracic Aorta, Ascending/A
## 5503               Bypass Thoracic Aorta, Ascending/Arch
## 5504                   Bypass Thoracic Aorta, Ascendi
## 5505                     Bypass Thoracic Aorta, Ascen
## 5506               Bypass Thoracic Aorta, Ascending/Arc
## 5507         Bypass Thoracic Aorta, Ascending/Arch to Ri
## 5508         Bypass Thoracic Aorta, Ascending/Arch to L
## 5509           Bypass Thoracic Aorta, Ascending/Arch to
## 5510               Bypass Thoracic Aorta, Ascending,
## 5511                 Bypass Thoracic Aorta, Ascendi
## 5512           Bypass Thoracic Aorta, Ascending/Arch
## 5513         Bypass Thoracic Aorta, Ascending/Arch to Rig
## 5514         Bypass Thoracic Aorta, Ascending/Arch to Le
## 5515               Bypass Thoracic Aorta, Ascending/
## 5516                   Bypass Thoracic Aorta, Asc
## 5517                     Bypass Thoracic Aorta, A
## 5518               Bypass Thoracic Aorta, Ascending
## 5519         Bypass Thoracic Aorta, Ascending/Arch t
## 5520             Bypass Thoracic Aorta, Ascending/Arch
## 5521       Bypass Thoracic Aorta, Ascending/Arch to Inn
## 5522               Bypass Thoracic Aorta, Ascending/Arch
## 5523                 Bypass Thoracic Aorta, Ascending/A
## 5524         Bypass Thoracic Aorta, Ascending/Arch to Pu
## 5525     Bypass Thoracic Aorta, Ascending/Arch to Right Pul
## 5526       Bypass Thoracic Aorta, Ascending/Arch to Left Pul
## 5527                                       Bypass T
## 5528                                             B
## 5529
## 5530                                         Bypass
## 5531                               Bypass Thorac
## 5532                                 Bypass Thora
## 5533       Bypass Thoracic Aorta, Ascending/Arch to Innominat
```

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## 5534                                        Bypass Thoracic Aorta, Ascending/Arch to Su
## 5535                                          Bypass Thoracic Aorta, Ascending/Arch to
## 5536                                    Bypass Thoracic Aorta, Ascending/Arch to Pulmona
## 5537                            Bypass Thoracic Aorta, Ascending/Arch to Right Pulmonar
## 5538                            Bypass Thoracic Aorta, Ascending/Arch to Left Pulmonar
## 5539                          Bypass Thoracic Aorta, Ascending/Arch to Innominate Arte
## 5540                              Bypass Thoracic Aorta, Ascending/Arch to Subclavia
## 5541                                Bypass Thoracic Aorta, Ascending/Arch to Caroti
## 5542                            Bypass Thoracic Aorta, Ascending/Arch to Pulmonary Trun
## 5543                  Bypass Thoracic Aorta, Ascending/Arch to Right Pulmonary Arte
## 5544                    Bypass Thoracic Aorta, Ascending/Arch to Left Pulmonary Arte
## 5545                  Bypass Thoracic Aorta, Ascending/Arch to Innominate Artery
## 5546                        Bypass Thoracic Aorta, Ascending/Arch to Subclavian
## 5547                          Bypass Thoracic Aorta, Ascending/Arch to Carotid
## 5548                  Bypass Thoracic Aorta, Ascending/Arch to Pulmonary Trunk
## 5549          Bypass Thoracic Aorta, Ascending/Arch to Right Pulmonary Artery
## 5550        Bypass Thoracic Aorta, Ascending/Arch to Left Pulmonary Artery
## 5551              Bypass Thoracic Aorta, Ascending/Arch to Innominate A
## 5552                    Bypass Thoracic Aorta, Ascending/Arch to Subcl
## 5553                      Bypass Thoracic Aorta, Ascending/Arch to Ca
## 5554                  Bypass Thoracic Aorta, Ascending/Arch to Pulmonary
## 5555          Bypass Thoracic Aorta, Ascending/Arch to Right Pulmonary A
## 5556            Bypass Thoracic Aorta, Ascending/Arch to Left Pulmonary A
## 5557    Bypass Thoracic Aorta, Ascending/Arch to Innominate Artery with
## 5558            Bypass Thoracic Aorta, Ascending/Arch to Subclavian with
## 5559          Bypass Thoracic Aorta, Ascending/Arch to Carotid with
## 5560        Bypass Thoracic Aorta, Ascending/Arch to Pulmonary Trunk with
## 5561  Bypass Thoracic Aorta, Ascending/Arch to Right Pulmonary Artery with
## 5562  Bypass Thoracic Aorta, Ascending/Arch to Left Pulmonary Artery with
## 5563                                      Bypass Thoracic Aorta, Asc
## 5564                                          Bypass Thoracic Aor
## 5565                                            Bypass Thoracic A
## 5566                                        Bypass Thoracic Aorta, As
## 5567                                Bypass Thoracic Aorta, Ascending
## 5568                                Bypass Thoracic Aorta, Ascendin
## 5569                                Bypass Innominate Artery to Ri
## 5570                                Bypass Innominate Artery to L
## 5571                            Bypass Innominate Artery to Bilat
## 5572                                Bypass Innominate Artery to Ri
## 5573                                Bypass Innominate Artery to L
## 5574                            Bypass Innominate Artery to Bilat
## 5575                                Bypass Innominate Artery to Ri
## 5576                                Bypass Innominate Artery to L
## 5577                            Bypass Innominate Artery to Bilat
## 5578                                Bypass Innominate Artery to Ri
## 5579                                Bypass Innominate Artery to L
## 5580                            Bypass Innominate Artery to Bilat
## 5581                              Bypass Innominate Artery to Righ
## 5582                              Bypass Innominate Artery to Lef
## 5583                              Bypass Innominate Artery to Rig
## 5584                              Bypass Innominate Artery to Le
## 5585                          Bypass Innominate Artery to Bilatera
## 5586                              Bypass Innominate Artery to Rig
## 5587                              Bypass Innominate Artery to Le
```

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```
## 5588                                                        Bypass Innominate Artery to Bilatera
## 5589                                                   Bypass Innominate Artery to Rig
## 5590                                                    Bypass Innominate Artery to Le
## 5591                                                        Bypass Innominate Artery to Bilatera
## 5592                                                   Bypass Innominate Artery to Rig
## 5593                                                    Bypass Innominate Artery to Le
## 5594                                                        Bypass Innominate Artery to Bilatera
## 5595                                                 Bypass Innominate Artery to Right
## 5596                                                  Bypass Innominate Artery to Left
## 5597                                                        Bypass Innominate Artery
## 5598                                                          Bypass Innominate Artery
## 5599                                                    Bypass Innominate Artery to B
## 5600                                                        Bypass Innominate Artery
## 5601                                                          Bypass Innominate Artery
## 5602                                                    Bypass Innominate Artery to B
## 5603                                                        Bypass Innominate Artery
## 5604                                                          Bypass Innominate Artery
## 5605                                                    Bypass Innominate Artery to B
## 5606                                                        Bypass Innominate Artery
## 5607                                                          Bypass Innominate Artery
## 5608                                                    Bypass Innominate Artery to B
## 5609                                                   Bypass Innominate Artery to
## 5610                                                     Bypass Innominate Artery to
## 5611                                                 Bypass Innominate Artery to Right Up
## 5612                                                  Bypass Innominate Artery to Left Up
## 5613                                             Bypass Innominate Artery to Bilateral Up
## 5614                                                  Bypass Innominate Artery to Right Lo
## 5615                                                   Bypass Innominate Artery to Left Lo
## 5616                                              Bypass Innominate Artery to Bilateral Lo
## 5617                                                  Bypass Innominate Artery to Right Up
## 5618                                                   Bypass Innominate Artery to Left Up
## 5619                                             Bypass Innominate Artery to Bilateral Up
## 5620                                                  Bypass Innominate Artery to Right Lo
## 5621                                                   Bypass Innominate Artery to Left Lo
## 5622                                             Bypass Innominate Artery to Bilateral Lo
## 5623                                                Bypass Innominate Artery to Right Extra
## 5624                                                 Bypass Innominate Artery to Left Extra
## 5625
## 5626
## 5627                                                                           Byp
## 5628
## 5629
## 5630                                                                           Byp
## 5631
## 5632
## 5633                                                                           Byp
## 5634
## 5635
## 5636                                                                           Byp
## 5637                                                               By
## 5638                                                                 B
## 5639                                                 Bypass Right Subclavian Artery to R
## 5640                                                  Bypass Right Subclavian Artery to
## 5641                                             Bypass Right Subclavian Artery to Bilat
```

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```
## 5642                                             Bypass Right Subclavian Artery to R
## 5643                                           Bypass Right Subclavian Artery to I
## 5644                                        Bypass Right Subclavian Artery to Bilate
## 5645                                           Bypass Right Subclavian Artery to R
## 5646                                           Bypass Right Subclavian Artery to I
## 5647                                        Bypass Right Subclavian Artery to Bilate
## 5648                                           Bypass Right Subclavian Artery to R
## 5649                                           Bypass Right Subclavian Artery to I
## 5650                                        Bypass Right Subclavian Artery to Bilate
## 5651                                          Bypass Right Subclavian Artery to Righ
## 5652                                          Bypass Right Subclavian Artery to Lef
## 5653                                           Bypass Right Subclavian Artery to R
## 5654                                           Bypass Right Subclavian Artery to I
## 5655                                         Bypass Right Subclavian Artery to Rigl
## 5656                                         Bypass Right Subclavian Artery to Le
## 5657                                       Bypass Right Subclavian Artery to Bilatera
## 5658                                         Bypass Right Subclavian Artery to Rigl
## 5659                                         Bypass Right Subclavian Artery to Le
## 5660                                       Bypass Right Subclavian Artery to Bilatera
## 5661                                         Bypass Right Subclavian Artery to Rigl
## 5662                                         Bypass Right Subclavian Artery to Le
## 5663                                       Bypass Right Subclavian Artery to Bilatera
## 5664                                         Bypass Right Subclavian Artery to Rigl
## 5665                                         Bypass Right Subclavian Artery to Le
## 5666                                       Bypass Right Subclavian Artery to Bilatera
## 5667                                        Bypass Right Subclavian Artery to Right I
## 5668                                        Bypass Right Subclavian Artery to Left I
## 5669                                         Bypass Right Subclavian Artery to Rigl
## 5670                                         Bypass Right Subclavian Artery to Le
## 5671                                            Bypass Right Subclavian Artery
## 5672                                             Bypass Right Subclavian Artery
## 5673                                          Bypass Right Subclavian Artery to B
## 5674                                            Bypass Right Subclavian Artery
## 5675                                            Bypass Right Subclavian Artery
## 5676                                          Bypass Right Subclavian Artery to B
## 5677                                            Bypass Right Subclavian Artery
## 5678                                            Bypass Right Subclavian Artery
## 5679                                          Bypass Right Subclavian Artery to B
## 5680                                            Bypass Right Subclavian Artery
## 5681                                            Bypass Right Subclavian Artery
## 5682                                          Bypass Right Subclavian Artery to B
## 5683                                           Bypass Right Subclavian Artery to I
## 5684                                           Bypass Right Subclavian Artery to
## 5685                                            Bypass Right Subclavian Artery
## 5686                                             Bypass Right Subclavian Artery
## 5687                                     Bypass Right Subclavian Artery to Right Upp
## 5688                                     Bypass Right Subclavian Artery to Left Upp
## 5689                                  Bypass Right Subclavian Artery to Bilateral Upp
## 5690                                     Bypass Right Subclavian Artery to Right Lov
## 5691                                     Bypass Right Subclavian Artery to Left Lov
## 5692                                  Bypass Right Subclavian Artery to Bilateral Lov
## 5693                                     Bypass Right Subclavian Artery to Right Upp
## 5694                                     Bypass Right Subclavian Artery to Left Upp
## 5695                                  Bypass Right Subclavian Artery to Bilateral Upp
```

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```
## 5696                                        Bypass Right Subclavian Artery to Right Lo…
## 5697                                         Bypass Right Subclavian Artery to Left Lo…
## 5698                                     Bypass Right Subclavian Artery to Bilateral Lo…
## 5699                                       Bypass Right Subclavian Artery to Right Extra…
## 5700                                        Bypass Right Subclavian Artery to Left Extra…
## 5701                                         Bypass Right Subclavian Artery to Right Pul…
## 5702                                          Bypass Right Subclavian Artery to Left Pul…
## 5703                                                                               Bypass…
## 5704                                                                               Bypa…
## 5705                                                                     Bypass Rig…
## 5706                                                                           Bypass…
## 5707                                                                             Bypa…
## 5708                                                                   Bypass Rig…
## 5709                                                                         Bypass…
## 5710                                                                           Bypa…
## 5711                                                                 Bypass Rig…
## 5712                                                                       Bypass…
## 5713                                                                         Bypa…
## 5714                                                               Bypass Rig…
## 5715                                                                 Bypass Ri…
## 5716                                                                   Bypass …
## 5717                                                                     Bypass…
## 5718                                                                       Bypa…
## 5719                                      Bypass Left Subclavian Artery to Ri…
## 5720                                       Bypass Left Subclavian Artery to …
## 5721                                   Bypass Left Subclavian Artery to Bilat…
## 5722                                       Bypass Left Subclavian Artery to Ri…
## 5723                                        Bypass Left Subclavian Artery to …
## 5724                                   Bypass Left Subclavian Artery to Bilat…
## 5725                                       Bypass Left Subclavian Artery to Ri…
## 5726                                        Bypass Left Subclavian Artery to …
## 5727                                   Bypass Left Subclavian Artery to Bilat…
## 5728                                       Bypass Left Subclavian Artery to Ri…
## 5729                                        Bypass Left Subclavian Artery to …
## 5730                                   Bypass Left Subclavian Artery to Bilat…
## 5731                                     Bypass Left Subclavian Artery to Right…
## 5732                                      Bypass Left Subclavian Artery to Lef…
## 5733                                        Bypass Left Subclavian Artery to Ri…
## 5734                                         Bypass Left Subclavian Artery to …
## 5735                                     Bypass Left Subclavian Artery to Righ…
## 5736                                      Bypass Left Subclavian Artery to Le…
## 5737                                  Bypass Left Subclavian Artery to Bilatera…
## 5738                                     Bypass Left Subclavian Artery to Righ…
## 5739                                      Bypass Left Subclavian Artery to Le…
## 5740                                  Bypass Left Subclavian Artery to Bilatera…
## 5741                                     Bypass Left Subclavian Artery to Righ…
## 5742                                      Bypass Left Subclavian Artery to Le…
## 5743                                  Bypass Left Subclavian Artery to Bilatera…
## 5744                                     Bypass Left Subclavian Artery to Righ…
## 5745                                      Bypass Left Subclavian Artery to Le…
## 5746                                  Bypass Left Subclavian Artery to Bilatera…
## 5747                                    Bypass Left Subclavian Artery to Right …
## 5748                                     Bypass Left Subclavian Artery to Left …
## 5749                                    Bypass Left Subclavian Artery to Righ…
```

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```
## 5750                                                    Bypass Left Subclavian Artery to Le
## 5751                                                Bypass Left Subclavian Artery 
## 5752                                                Bypass Left Subclavian Artery 
## 5753                                            Bypass Left Subclavian Artery to B
## 5754                                                Bypass Left Subclavian Artery 
## 5755                                                Bypass Left Subclavian Artery 
## 5756                                            Bypass Left Subclavian Artery to B
## 5757                                                Bypass Left Subclavian Artery 
## 5758                                                Bypass Left Subclavian Artery 
## 5759                                            Bypass Left Subclavian Artery to B
## 5760                                                Bypass Left Subclavian Artery 
## 5761                                                Bypass Left Subclavian Artery 
## 5762                                            Bypass Left Subclavian Artery to B
## 5763                                              Bypass Left Subclavian Artery to 
## 5764                                             Bypass Left Subclavian Artery to 
## 5765                                                Bypass Left Subclavian Artery 
## 5766                                                Bypass Left Subclavian Artery 
## 5767                                        Bypass Left Subclavian Artery to Right Up
## 5768                                         Bypass Left Subclavian Artery to Left Up
## 5769                                    Bypass Left Subclavian Artery to Bilateral Up
## 5770                                         Bypass Left Subclavian Artery to Right Lo
## 5771                                          Bypass Left Subclavian Artery to Left Lo
## 5772                                     Bypass Left Subclavian Artery to Bilateral Lo
## 5773                                         Bypass Left Subclavian Artery to Right Up
## 5774                                          Bypass Left Subclavian Artery to Left Up
## 5775                                     Bypass Left Subclavian Artery to Bilateral Up
## 5776                                         Bypass Left Subclavian Artery to Right Lo
## 5777                                          Bypass Left Subclavian Artery to Left Lo
## 5778                                     Bypass Left Subclavian Artery to Bilateral Lo
## 5779                                       Bypass Left Subclavian Artery to Right Extra
## 5780                                        Bypass Left Subclavian Artery to Left Extra
## 5781                                        Bypass Left Subclavian Artery to Right Pul
## 5782                                         Bypass Left Subclavian Artery to Left Pul
## 5783                                                                          Bypas
## 5784                                                                          Bypa
## 5785                                                                 Bypass Le
## 5786                                                                          Bypas
## 5787                                                                          Bypa
## 5788                                                                 Bypass Le
## 5789                                                                          Bypas
## 5790                                                                          Bypa
## 5791                                                                 Bypass Le
## 5792                                                                          Bypas
## 5793                                                                          Bypa
## 5794                                                                 Bypass Le
## 5795                                                                       Bypass 
## 5796                                                                    Bypass 
## 5797                                                                          Bypas
## 5798                                                                          Bypa
## 5799                                        Bypass Right Axillary Artery to R
## 5800                                       Bypass Right Axillary Artery to 
## 5801                                  Bypass Right Axillary Artery to Bilate
## 5802                                        Bypass Right Axillary Artery to R
## 5803                                        Bypass Right Axillary Artery to 
```

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## 5804                                            Bypass Right Axillary Artery to Bilate
## 5805                                              Bypass Right Axillary Artery to Ri
## 5806                                              Bypass Right Axillary Artery to L
## 5807                                            Bypass Right Axillary Artery to Bilate
## 5808                                              Bypass Right Axillary Artery to Ri
## 5809                                              Bypass Right Axillary Artery to L
## 5810                                            Bypass Right Axillary Artery to Bilate
## 5811                                            Bypass Right Axillary Artery to Right
## 5812                                            Bypass Right Axillary Artery to Left
## 5813                                                Bypass Right Axillary Artery
## 5814                                                Bypass Right Axillary Artery
## 5815                                            Bypass Right Axillary Artery to Righ
## 5816                                            Bypass Right Axillary Artery to Lei
## 5817                                          Bypass Right Axillary Artery to Bilatera
## 5818                                            Bypass Right Axillary Artery to Righ
## 5819                                            Bypass Right Axillary Artery to Lei
## 5820                                          Bypass Right Axillary Artery to Bilatera
## 5821                                            Bypass Right Axillary Artery to Righ
## 5822                                            Bypass Right Axillary Artery to Lei
## 5823                                          Bypass Right Axillary Artery to Bilatera
## 5824                                            Bypass Right Axillary Artery to Righ
## 5825                                            Bypass Right Axillary Artery to Lei
## 5826                                          Bypass Right Axillary Artery to Bilatera
## 5827                                            Bypass Right Axillary Artery to Right
## 5828                                            Bypass Right Axillary Artery to Left
## 5829                                                Bypass Right Axillary Artery
## 5830                                              Bypass Right Axillary Artery to
## 5831                                                Bypass Right Axillary Artery
## 5832                                                Bypass Right Axillary Artery
## 5833                                            Bypass Right Axillary Artery to B
## 5834                                                Bypass Right Axillary Artery
## 5835                                                Bypass Right Axillary Artery
## 5836                                            Bypass Right Axillary Artery to B
## 5837                                                Bypass Right Axillary Artery
## 5838                                                Bypass Right Axillary Artery
## 5839                                            Bypass Right Axillary Artery to B
## 5840                                                Bypass Right Axillary Artery
## 5841                                                Bypass Right Axillary Artery
## 5842                                            Bypass Right Axillary Artery to B
## 5843                                            Bypass Right Axillary Artery to L
## 5844                                              Bypass Right Axillary Artery to
## 5845                                                  Bypass Right Axillary A
## 5846                                                  Bypass Right Axillary Arte
## 5847                                          Bypass Right Axillary Artery to Right Upp
## 5848                                          Bypass Right Axillary Artery to Left Upp
## 5849                                        Bypass Right Axillary Artery to Bilateral Upp
## 5850                                          Bypass Right Axillary Artery to Right Low
## 5851                                          Bypass Right Axillary Artery to Left Low
## 5852                                        Bypass Right Axillary Artery to Bilateral Low
## 5853                                          Bypass Right Axillary Artery to Right Upp
## 5854                                          Bypass Right Axillary Artery to Left Upp
## 5855                                        Bypass Right Axillary Artery to Bilateral Upp
## 5856                                          Bypass Right Axillary Artery to Right Low
## 5857                                          Bypass Right Axillary Artery to Left Low
```

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```
## 5858                                         Bypass Right Axillary Artery to Bilateral Lo...
## 5859                                         Bypass Right Axillary Artery to Right Extra...
## 5860                                         Bypass Right Axillary Artery to Left Extra...
## 5861                                             Bypass Right Axillary Artery to Abd...
## 5862                                           Bypass Right Axillary Artery to Super...
## 5863                                                                          Bypa...
## 5864                                                                           By...
## 5865                                                                   Bypass ...
## 5866                                                                        Bypa...
## 5867                                                                          By...
## 5868                                                                   Bypass ...
## 5869                                                                        Bypa...
## 5870                                                                          By...
## 5871                                                                   Bypass ...
## 5872                                                                        Bypa...
## 5873                                                                          By...
## 5874                                                                   Bypass ...
## 5875                                                                 Bypass ...
## 5876                                                                  Bypass...
## 5877
## 5878
## 5879                                              Bypass Left Axillary Artery to R...
## 5880                                               Bypass Left Axillary Artery to ...
## 5881                                         Bypass Left Axillary Artery to Bilat...
## 5882                                              Bypass Left Axillary Artery to R...
## 5883                                               Bypass Left Axillary Artery to ...
## 5884                                         Bypass Left Axillary Artery to Bilat...
## 5885                                              Bypass Left Axillary Artery to R...
## 5886                                               Bypass Left Axillary Artery to ...
## 5887                                         Bypass Left Axillary Artery to Bilat...
## 5888                                              Bypass Left Axillary Artery to R...
## 5889                                               Bypass Left Axillary Artery to ...
## 5890                                         Bypass Left Axillary Artery to Bilat...
## 5891                                          Bypass Left Axillary Artery to Righ...
## 5892                                           Bypass Left Axillary Artery to Lef...
## 5893                                                     Bypass Left Axillary Artery...
## 5894                                                  Bypass Left Axillary Artery ...
## 5895                                            Bypass Left Axillary Artery to Righ...
## 5896                                             Bypass Left Axillary Artery to Le...
## 5897                                       Bypass Left Axillary Artery to Bilatera...
## 5898                                            Bypass Left Axillary Artery to Righ...
## 5899                                             Bypass Left Axillary Artery to Le...
## 5900                                       Bypass Left Axillary Artery to Bilatera...
## 5901                                            Bypass Left Axillary Artery to Righ...
## 5902                                             Bypass Left Axillary Artery to Le...
## 5903                                       Bypass Left Axillary Artery to Bilatera...
## 5904                                            Bypass Left Axillary Artery to Righ...
## 5905                                             Bypass Left Axillary Artery to Le...
## 5906                                       Bypass Left Axillary Artery to Bilatera...
## 5907                                          Bypass Left Axillary Artery to Right ...
## 5908                                           Bypass Left Axillary Artery to Left ...
## 5909                                                     Bypass Left Axillary Artery ...
## 5910                                                Bypass Left Axillary Artery to ...
## 5911                                                  Bypass Left Axillary Artery ...
```

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## 5912                                                           Bypass Left Axillary Artery
## 5913                                                     Bypass Left Axillary Artery to B
## 5914                                                       Bypass Left Axillary Artery
## 5915                                                       Bypass Left Axillary Artery
## 5916                                                     Bypass Left Axillary Artery to B
## 5917                                                       Bypass Left Axillary Artery
## 5918                                                       Bypass Left Axillary Artery
## 5919                                                     Bypass Left Axillary Artery to B
## 5920                                                       Bypass Left Axillary Artery
## 5921                                                       Bypass Left Axillary Artery
## 5922                                                     Bypass Left Axillary Artery to B
## 5923                                                     Bypass Left Axillary Artery to
## 5924                                                   Bypass Left Axillary Artery to
## 5925                                                          Bypass Left Axillary A
## 5926                                       Bypass Left Axillary Artery to Right Up
## 5927                                         Bypass Left Axillary Artery to Left Up
## 5928                                Bypass Left Axillary Artery to Bilateral Up
## 5929                                     Bypass Left Axillary Artery to Right Lo
## 5930                                       Bypass Left Axillary Artery to Left Lo
## 5931                                Bypass Left Axillary Artery to Bilateral Lo
## 5932                                     Bypass Left Axillary Artery to Right Up
## 5933                                       Bypass Left Axillary Artery to Left Up
## 5934                                Bypass Left Axillary Artery to Bilateral Up
## 5935                                     Bypass Left Axillary Artery to Right Lo
## 5936                                       Bypass Left Axillary Artery to Left Lo
## 5937                                Bypass Left Axillary Artery to Bilateral Lo
## 5938                                   Bypass Left Axillary Artery to Right Extra
## 5939                                     Bypass Left Axillary Artery to Left Extra
## 5940                                         Bypass Left Axillary Artery to Abo
## 5941                                                                           By
## 5942                                                                            B
## 5943                                                                     Bypass
## 5944                                                                           By
## 5945                                                                            B
## 5946                                                                     Bypass
## 5947                                                                           By
## 5948                                                                            B
## 5949                                                                     Bypass
## 5950                                                                           By
## 5951                                                                            B
## 5952                                                                     Bypass
## 5953                                                                      Bypass
## 5954                                                                      Bypa
## 5955
## 5956                                              Bypass Right Brachial Artery to R
## 5957                                              Bypass Right Brachial Artery to R
## 5958                                            Bypass Right Brachial Artery to Righ
## 5959                                                Bypass Right Brachial Artery
## 5960                                                Bypass Right Brachial Artery
## 5961                                      Bypass Right Brachial Artery to Right Up
## 5962                                      Bypass Right Brachial Artery to Right Lo
## 5963                                                                          Bypa
## 5964                                                                          Bypa
## 5965                                              Bypass Left Brachial Artery to
```

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## 5966                                              Bypass Left Brachial Artery to 
## 5967                                         Bypass Left Brachial Artery to Le
## 5968                                         Bypass Left Brachial Artery to Le
## 5969                                             Bypass Left Brachial Artery 
## 5970                                             Bypass Left Brachial Artery 
## 5971                                   Bypass Left Brachial Artery to Left Up
## 5972                                   Bypass Left Brachial Artery to Left Lo
## 5973                                                                      B
## 5974                                                                      B
## 5975                                         Bypass Right Ulnar Artery to R
## 5976                                    Bypass Right Ulnar Artery to Rig
## 5977                                      Bypass Right Ulnar Artery 
## 5978                                   Bypass Right Ulnar Artery to Right Lo
## 5979                                                                     
## 5980                                          Bypass Left Ulnar Artery to 
## 5981                                     Bypass Left Ulnar Artery to Le
## 5982                                       Bypass Left Ulnar Artery 
## 5983                                   Bypass Left Ulnar Artery to Left Lo
## 5984 
## 5985                                          Bypass Right Radial Artery to R
## 5986                                     Bypass Right Radial Artery to Rig
## 5987                                       Bypass Right Radial Artery 
## 5988                                   Bypass Right Radial Artery to Right Lo
## 5989                                                                      B
## 5990                                          Bypass Left Radial Artery to 
## 5991                                     Bypass Left Radial Artery to Le
## 5992                                       Bypass Left Radial Artery 
## 5993                                   Bypass Left Radial Artery to Left Lo
## 5994 
## 5995                                     Bypass Right Common Carotid Artery t
## 5996                              Bypass Right Common Carotid Artery to Right
## 5997                               Bypass Right Common Carotid Artery to Lef
## 5998                                    Bypass Right Common Carotid A
## 5999                                Bypass Right Common Carotid Artery to 
## 6000                            Bypass Right Common Carotid Artery to Right 
## 6001                            Bypass Right Common Carotid Artery to Left 
## 6002                                 Bypass Right Common Carotid Arte
## 6003                                 Bypass Right Common Carotid Arte
## 6004                             Bypass Right Common Carotid Artery to 
## 6005                              Bypass Right Common Carotid Artery to 
## 6006                                  Bypass Right Common Caroti
## 6007                            Bypass Right Common Carotid Artery to Intra
## 6008            Bypass Right Common Carotid Artery to Right Extra
## 6009             Bypass Right Common Carotid Artery to Left Extra
## 6010                             Bypass Right Common Carotid Artery t
## 6011                                                           Bypass 
## 6012                                              Bypass Right 
## 6013                                              Bypass Righ
## 6014 
## 6015                                     Bypass Left Common Carotid Artery t
## 6016                              Bypass Left Common Carotid Artery to Righ
## 6017                               Bypass Left Common Carotid Artery to Lef
## 6018                                    Bypass Left Common Carotid A
## 6019                                Bypass Left Common Carotid Artery to 
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## 6020                                              Bypass Left Common Carotid Artery to Right
## 6021                                               Bypass Left Common Carotid Artery to Left
## 6022                                                        Bypass Left Common Carotid Arte
## 6023                                                       Bypass Left Common Carotid Arter
## 6024                                                  Bypass Left Common Carotid Artery to
## 6025                                                 Bypass Left Common Carotid Artery to
## 6026                                                         Bypass Left Common Caroti
## 6027                                           Bypass Left Common Carotid Artery to Intra
## 6028                                     Bypass Left Common Carotid Artery to Right Extra
## 6029                                      Bypass Left Common Carotid Artery to Left Extra
## 6030                                              Bypass Left Common Carotid Artery t
## 6031                                                                           Bypas
## 6032                                                              Bypass Left
## 6033                                                              Bypass Left
## 6034
## 6035                                                 Bypass Right Internal Carotid Artery to Right
## 6036                                                 Bypass Right Internal Carotid Artery to Lef
## 6037                                            Bypass Right Internal Carotid Artery to Right
## 6038                                             Bypass Right Internal Carotid Artery to Left
## 6039                                                 Bypass Right Internal Carotid Artery to
## 6040                                                Bypass Right Internal Carotid Artery to
## 6041                                     Bypass Right Internal Carotid Artery to Right Extra
## 6042                                      Bypass Right Internal Carotid Artery to Left Extra
## 6043                                                              Bypass Right In
## 6044                                                              Bypass Right
## 6045                                                 Bypass Left Internal Carotid Artery to Right
## 6046                                                 Bypass Left Internal Carotid Artery to Lef
## 6047                                            Bypass Left Internal Carotid Artery to Right
## 6048                                             Bypass Left Internal Carotid Artery to Left
## 6049                                                 Bypass Left Internal Carotid Artery to
## 6050                                                Bypass Left Internal Carotid Artery to
## 6051                                     Bypass Left Internal Carotid Artery to Right Extra
## 6052                                      Bypass Left Internal Carotid Artery to Left Extra
## 6053                                                              Bypass Left In
## 6054                                                              Bypass Left
## 6055                                                 Bypass Right External Carotid Artery to Right
## 6056                                                 Bypass Right External Carotid Artery to Lef
## 6057                                            Bypass Right External Carotid Artery to Right
## 6058                                             Bypass Right External Carotid Artery to Left
## 6059                                                 Bypass Right External Carotid Artery to
## 6060                                                Bypass Right External Carotid Artery to
## 6061                                     Bypass Right External Carotid Artery to Right Extra
## 6062                                      Bypass Right External Carotid Artery to Left Extra
## 6063                                                              Bypass Right Ex
## 6064                                                              Bypass Right
## 6065                                                 Bypass Left External Carotid Artery to Right
## 6066                                                 Bypass Left External Carotid Artery to Lef
## 6067                                            Bypass Left External Carotid Artery to Right
## 6068                                             Bypass Left External Carotid Artery to Left
## 6069                                                 Bypass Left External Carotid Artery to
## 6070                                                Bypass Left External Carotid Artery to
## 6071                                     Bypass Left External Carotid Artery to Right Extra
## 6072                                      Bypass Left External Carotid Artery to Left Extra
## 6073                                                              Bypass Left Ex
```

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## 6074                                                                   Bypass Left
## 6075                                           Bypass Right Common Iliac Artery to
## 6076                                           Bypass Right Common Iliac Artery t
## 6077                                     Bypass Right Common Iliac Artery to Bilat
## 6078                                       Bypass Right Common Iliac Artery to L
## 6079                                                 Bypass Right Common Iliac A
## 6080             Bypass Left Internal Iliac Artery to Right Femoral Artery with
## 6081             Bypass Left Internal Iliac Artery to Left Femoral Artery with
## 6082       Bypass Left Internal Iliac Artery to Bilateral Femoral Arteries with
## 6083       Bypass Left Internal Iliac Artery to Lower Extremity Artery with
## 6084                                           Bypass Right Femoral Artery to
## 6085                                           Bypass Right Femoral Artery t
## 6086                                     Bypass Right Femoral Artery to Bilat
## 6087                                             Bypass Right Femoral Artery
## 6088                                             Bypass Right Femoral Arte
## 6089                                     Bypass Right Femoral Artery to Po
## 6090                                               Bypass Right Femoral A
## 6091                                       Bypass Right Femoral Artery to L
## 6092                                       Bypass Right Femoral Artery to R
## 6093                                       Bypass Right Femoral Artery to
## 6094                                 Bypass Right Femoral Artery to Bilatera
## 6095                                         Bypass Right Femoral Artery
## 6096                                         Bypass Right Femoral Artery
## 6097                                 Bypass Right Femoral Artery to Poste
## 6098                                               Bypass Right Femoral Ar
## 6099                                 Bypass Right Femoral Artery to Low
## 6100                                         Bypass Right Femoral Artery
## 6101                                         Bypass Right Femoral Arte
## 6102                                 Bypass Right Femoral Artery to B
## 6103                                             Bypass Right Femoral A
## 6104                                             Bypass Right Femoral A
## 6105                                     Bypass Right Femoral Artery t
## 6106                                               Bypass Right Femo
## 6107                                         Bypass Right Femoral Artery
## 6108                                   Bypass Right Femoral Artery to Right
## 6109                                   Bypass Right Femoral Artery to Left
## 6110                           Bypass Right Femoral Artery to Bilateral Fe
## 6111                                 Bypass Right Femoral Artery to Po
## 6112                                 Bypass Right Femoral Artery to Po
## 6113                       Bypass Right Femoral Artery to Posterior
## 6114                                         Bypass Right Femoral Artery
## 6115                           Bypass Right Femoral Artery to Lower Ex
## 6116                                                                     
## 6117                                                                     
## 6118                                                           Bypass
## 6119                                                                     
## 6120                                                                     
## 6121                                                               Byp
## 6122                                                                     
## 6123                                                                 By
## 6124                                   Bypass Right Femoral Artery to Right Femoral Arte
## 6125                                   Bypass Right Femoral Artery to Left Femoral Arte
## 6126                           Bypass Right Femoral Artery to Bilateral Femoral Arteri
## 6127                                 Bypass Right Femoral Artery to Popliteal Arte
```

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## 6128                              Bypass Right Femoral Artery to Peroneal Arter
## 6129                     Bypass Right Femoral Artery to Posterior Tibial Arte
## 6130                            Bypass Right Femoral Artery to Foot Arte
## 6131                     Bypass Right Femoral Artery to Lower Extremity Arte
## 6132                     Bypass Right Femoral Artery to Right Femoral Artery
## 6133                       Bypass Right Femoral Artery to Left Femoral Artery
## 6134            Bypass Right Femoral Artery to Bilateral Femoral Arteries
## 6135                       Bypass Right Femoral Artery to Popliteal Artery
## 6136                       Bypass Right Femoral Artery to Peroneal Artery
## 6137              Bypass Right Femoral Artery to Posterior Tibial Artery
## 6138                         Bypass Right Femoral Artery to Foot Artery
## 6139              Bypass Right Femoral Artery to Lower Extremity Artery
## 6140                      Bypass Right Femoral Artery to Right Femoral A
## 6141                        Bypass Right Femoral Artery to Left Femoral A
## 6142              Bypass Right Femoral Artery to Bilateral Femoral Ar
## 6143                        Bypass Right Femoral Artery to Popliteal A
## 6144                         Bypass Right Femoral Artery to Peroneal A
## 6145                Bypass Right Femoral Artery to Posterior Tibial A
## 6146                           Bypass Right Femoral Artery to Foot A
## 6147                Bypass Right Femoral Artery to Lower Extremity A
## 6148            Bypass Right Femoral Artery to Right Femoral Artery with
## 6149            Bypass Right Femoral Artery to Left Femoral Artery with
## 6150     Bypass Right Femoral Artery to Bilateral Femoral Arteries with
## 6151              Bypass Right Femoral Artery to Popliteal Artery with
## 6152              Bypass Right Femoral Artery to Peroneal Artery with
## 6153        Bypass Right Femoral Artery to Posterior Tibial Artery with
## 6154                Bypass Right Femoral Artery to Foot Artery with
## 6155        Bypass Right Femoral Artery to Lower Extremity Artery with
## 6156                                       Bypass Right Femoral
## 6157                                       Bypass Right Femora
## 6158                                 Bypass Right Femoral Arter
## 6159                                   Bypass Right Fer
## 6160                                     Bypass Right Fe
## 6161                              Bypass Right Femoral An
## 6162                                        Bypass Righ
## 6163                              Bypass Right Femoral A
## 6164                     Bypass Left Femoral Artery to
## 6165                     Bypass Left Femoral Artery to
## 6166                 Bypass Left Femoral Artery to Bilate
## 6167                       Bypass Left Femoral Artery
## 6168                        Bypass Left Femoral Arter
## 6169                 Bypass Left Femoral Artery to Pos
## 6170                           Bypass Left Femoral A
## 6171                 Bypass Left Femoral Artery to Le
## 6172                 Bypass Left Femoral Artery to Ri
## 6173                   Bypass Left Femoral Artery to F
## 6174            Bypass Left Femoral Artery to Bilatera
## 6175                     Bypass Left Femoral Artery t
## 6176                     Bypass Left Femoral Artery
## 6177                Bypass Left Femoral Artery to Poste
## 6178                         Bypass Left Femoral Ar
## 6179                Bypass Left Femoral Artery to Lowe
## 6180                     Bypass Left Femoral Artery
## 6181                       Bypass Left Femoral Arter
```

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## 6182                                                          Bypass Left Femoral Artery to B:
## 6183                                                       Bypass Left Femoral A:
## 6184                                                        Bypass Left Femoral /
## 6185                                                  Bypass Left Femoral Artery t
## 6186                                                          Bypass Left Femo:
## 6187                                                    Bypass Left Femoral Artery
## 6188                                            Bypass Left Femoral Artery to Right
## 6189                                             Bypass Left Femoral Artery to Left
## 6190                                       Bypass Left Femoral Artery to Bilateral Fe:
## 6191                                                Bypass Left Femoral Artery to Po
## 6192                                                 Bypass Left Femoral Artery to Po
## 6193                                       Bypass Left Femoral Artery to Posterior
## 6194                                                    Bypass Left Femoral Artery
## 6195                                         Bypass Left Femoral Artery to Lower Ex
## 6196
## 6197
## 6198                                                                    Bypass
## 6199
## 6200
## 6201                                                                    By
## 6202
## 6203                                                                    B:
## 6204                                      Bypass Left Femoral Artery to Right Femoral Arte:
## 6205                                       Bypass Left Femoral Artery to Left Femoral Arte:
## 6206                              Bypass Left Femoral Artery to Bilateral Femoral Arteri
## 6207                                       Bypass Left Femoral Artery to Popliteal Arte:
## 6208                                        Bypass Left Femoral Artery to Peroneal Arte:
## 6209                               Bypass Left Femoral Artery to Posterior Tibial Arte:
## 6210                                          Bypass Left Femoral Artery to Foot Arte:
## 6211                               Bypass Left Femoral Artery to Lower Extremity Arte:
## 6212                               Bypass Left Femoral Artery to Right Femoral Artery
## 6213                                Bypass Left Femoral Artery to Left Femoral Artery
## 6214                       Bypass Left Femoral Artery to Bilateral Femoral Arteries
## 6215                                Bypass Left Femoral Artery to Popliteal Artery
## 6216                                 Bypass Left Femoral Artery to Peroneal Artery
## 6217                        Bypass Left Femoral Artery to Posterior Tibial Artery
## 6218                                   Bypass Left Femoral Artery to Foot Artery
## 6219                        Bypass Left Femoral Artery to Lower Extremity Artery
## 6220                                Bypass Left Femoral Artery to Right Femoral /
## 6221                                 Bypass Left Femoral Artery to Left Femoral /
## 6222                        Bypass Left Femoral Artery to Bilateral Femoral Ar:
## 6223                                 Bypass Left Femoral Artery to Popliteal /
## 6224                                  Bypass Left Femoral Artery to Peroneal /
## 6225                         Bypass Left Femoral Artery to Posterior Tibial /
## 6226                                    Bypass Left Femoral Artery to Foot /
## 6227                         Bypass Left Femoral Artery to Lower Extremity /
## 6228                      Bypass Left Femoral Artery to Right Femoral Artery with
## 6229                       Bypass Left Femoral Artery to Left Femoral Artery with
## 6230              Bypass Left Femoral Artery to Bilateral Femoral Arteries with
## 6231                       Bypass Left Femoral Artery to Popliteal Artery with
## 6232                        Bypass Left Femoral Artery to Peroneal Artery with
## 6233               Bypass Left Femoral Artery to Posterior Tibial Artery with
## 6234                          Bypass Left Femoral Artery to Foot Artery with
## 6235               Bypass Left Femoral Artery to Lower Extremity Artery with
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## 6236                                                               Bypass Left Femoral
## 6237                                                             Bypass Left Femora
## 6238                                                    Bypass Left Femoral Arte
## 6239                                                        Bypass Left Fem
## 6240                                                         Bypass Left Fe
## 6241                                                  Bypass Left Femoral A
## 6242                                                               Bypass Le
## 6243                                                 Bypass Left Femoral A
## 6244                                             Bypass Right Popliteal Artery
## 6245                                            Bypass Right Popliteal Arte
## 6246                                               Bypass Right Popliteal A
## 6247                                      Bypass Right Popliteal Artery to L
## 6248                                          Bypass Right Popliteal Artery
## 6249                                           Bypass Right Popliteal Artery
## 6250                                             Bypass Right Popliteal Ar
## 6251                                      Bypass Right Popliteal Artery to Low
## 6252                                           Bypass Right Popliteal A
## 6253                                            Bypass Right Popliteal A
## 6254                                               Bypass Right Poplite
## 6255                                          Bypass Right Popliteal Artery
## 6256                                     Bypass Right Popliteal Artery to Pop
## 6257                                       Bypass Right Popliteal Artery to Pe
## 6258                                         Bypass Right Popliteal Artery
## 6259                                 Bypass Right Popliteal Artery to Lower Ex
## 6260
## 6261
## 6262
## 6263                                                               Bypas
## 6264                                Bypass Right Popliteal Artery to Popliteal Arte
## 6265                                 Bypass Right Popliteal Artery to Peroneal Arte
## 6266                                  Bypass Right Popliteal Artery to Foot Arte
## 6267                          Bypass Right Popliteal Artery to Lower Extremity Arte
## 6268                             Bypass Right Popliteal Artery to Popliteal Artery
## 6269                             Bypass Right Popliteal Artery to Peroneal Artery
## 6270                               Bypass Right Popliteal Artery to Foot Artery
## 6271                       Bypass Right Popliteal Artery to Lower Extremity Artery
## 6272                                Bypass Right Popliteal Artery to Popliteal A
## 6273                                 Bypass Right Popliteal Artery to Peroneal A
## 6274                                  Bypass Right Popliteal Artery to Foot A
## 6275                          Bypass Right Popliteal Artery to Lower Extremity A
## 6276                    Bypass Right Popliteal Artery to Popliteal Artery with
## 6277                     Bypass Right Popliteal Artery to Peroneal Artery with
## 6278                       Bypass Right Popliteal Artery to Foot Artery with
## 6279            Bypass Right Popliteal Artery to Lower Extremity Artery with
## 6280                                               Bypass Right Popli
## 6281                                              Bypass Right Popl
## 6282                                                 Bypass Right
## 6283                                            Bypass Right Popliteal A
## 6284                                            Bypass Left Popliteal Artery
## 6285                                             Bypass Left Popliteal Arte
## 6286                                               Bypass Left Popliteal A
## 6287                                      Bypass Left Popliteal Artery to L
## 6288                                          Bypass Left Popliteal Artery
## 6289                                           Bypass Left Popliteal Artery
```

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## 6290                                                          Bypass Left Popliteal Ar
## 6291                                         Bypass Left Popliteal Artery to Lowe
## 6292                                                Bypass Left Popliteal A
## 6293                                              Bypass Left Popliteal
## 6294                                               Bypass Left Poplite
## 6295                                      Bypass Left Popliteal Artery
## 6296                                   Bypass Left Popliteal Artery to Pop
## 6297                                    Bypass Left Popliteal Artery to Pe
## 6298                                     Bypass Left Popliteal Artery
## 6299                                 Bypass Left Popliteal Artery to Lower Ext
## 6300
## 6301
## 6302
## 6303                                                                     Byp
## 6304                                Bypass Left Popliteal Artery to Popliteal Arter
## 6305                                 Bypass Left Popliteal Artery to Peroneal Arter
## 6306                                  Bypass Left Popliteal Artery to Foot Arter
## 6307                            Bypass Left Popliteal Artery to Lower Extremity Arter
## 6308                                Bypass Left Popliteal Artery to Popliteal Artery
## 6309                                 Bypass Left Popliteal Artery to Peroneal Artery
## 6310                                  Bypass Left Popliteal Artery to Foot Artery
## 6311                            Bypass Left Popliteal Artery to Lower Extremity Artery
## 6312                                  Bypass Left Popliteal Artery to Popliteal
## 6313                                   Bypass Left Popliteal Artery to Peroneal
## 6314                                    Bypass Left Popliteal Artery to Foot
## 6315                                Bypass Left Popliteal Artery to Lower Extremity
## 6316                              Bypass Left Popliteal Artery to Popliteal Artery with
## 6317                               Bypass Left Popliteal Artery to Peroneal Artery with
## 6318                                 Bypass Left Popliteal Artery to Foot Artery with
## 6319                           Bypass Left Popliteal Artery to Lower Extremity Artery with
## 6320                                                    Bypass Left Popl
## 6321                                                     Bypass Left Popl
## 6322                                                       Bypass Left
## 6323                                              Bypass Left Popliteal
## 6324                                    Bypass Right Anterior Tibial Artery
## 6325                            Bypass Right Anterior Tibial Artery to Lower Extremity
## 6326                                     Bypass Left Anterior Tibial Artery
## 6327                             Bypass Left Anterior Tibial Artery to Lower Extremity
## 6328                                    Bypass Right Posterior Tibial Artery
## 6329                            Bypass Right Posterior Tibial Artery to Lower Extremity
## 6330                                     Bypass Left Posterior Tibial Artery
## 6331                             Bypass Left Posterior Tibial Artery to Lower Extremity
## 6332                                         Bypass Right Peroneal
## 6333                                   Bypass Right Peroneal Artery to Le
## 6334                                       Bypass Right Peroneal Ar
## 6335                                  Bypass Right Peroneal Artery to Lowe
## 6336                                           Bypass Right Perone
## 6337                                    Bypass Right Peroneal Artery
## 6338                                    Bypass Right Peroneal Artery
## 6339                                Bypass Right Peroneal Artery to Lower Ex
## 6340
## 6341                                                                     Byp
## 6342                                 Bypass Right Peroneal Artery to Foot Arter
## 6343                            Bypass Right Peroneal Artery to Lower Extremity Arter
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## 6344                                          Bypass Right Peroneal Artery to Foot Artery
## 6345                              Bypass Right Peroneal Artery to Lower Extremity Artery
## 6346                                        Bypass Right Peroneal Artery to Foot A
## 6347                              Bypass Right Peroneal Artery to Lower Extremity A
## 6348                              Bypass Right Peroneal Artery to Foot Artery with
## 6349                  Bypass Right Peroneal Artery to Lower Extremity Artery with
## 6350                                                               Bypass Righ
## 6351                                          Bypass Right Peroneal A
## 6352                                          Bypass Left Peroneal A
## 6353                              Bypass Left Peroneal Artery to Le
## 6354                                          Bypass Left Peroneal Ar
## 6355                              Bypass Left Peroneal Artery to Lowe
## 6356                                                Bypass Left Perone
## 6357                                  Bypass Left Peroneal Artery
## 6358                                  Bypass Left Peroneal Artery
## 6359                              Bypass Left Peroneal Artery to Lower Ex
## 6360
## 6361                                                                    By
## 6362                              Bypass Left Peroneal Artery to Foot Arte
## 6363                  Bypass Left Peroneal Artery to Lower Extremity Arte
## 6364                              Bypass Left Peroneal Artery to Foot Artery
## 6365                  Bypass Left Peroneal Artery to Lower Extremity Artery
## 6366                                          Bypass Left Peroneal Artery to Foot A
## 6367                              Bypass Left Peroneal Artery to Lower Extremity A
## 6368                              Bypass Left Peroneal Artery to Foot Artery with
## 6369                  Bypass Left Peroneal Artery to Lower Extremity Artery with
## 6370                                                               Bypass Lef
## 6371                                          Bypass Left Peroneal A
## 6372                                          Bypass Right Foot A
## 6373                              Bypass Right Foot Artery to Le
## 6374                                          Bypass Right Foot Ar
## 6375                              Bypass Right Foot Artery to Lowe
## 6376                                                Bypass Right Fo
## 6377                                  Bypass Right Foot Artery
## 6378                                  Bypass Right Foot Artery
## 6379                              Bypass Right Foot Artery to Lower Ex
## 6380
## 6381
## 6382                              Bypass Right Foot Artery to Foot Arte
## 6383                  Bypass Right Foot Artery to Lower Extremity Arte
## 6384                              Bypass Right Foot Artery to Foot Artery
## 6385                  Bypass Right Foot Artery to Lower Extremity Artery
## 6386                                          Bypass Right Foot Artery to Foot A
## 6387                              Bypass Right Foot Artery to Lower Extremity A
## 6388                              Bypass Right Foot Artery to Foot Artery with
## 6389                  Bypass Right Foot Artery to Lower Extremity Artery with
## 6390                                                               Bypass L
## 6391                                          Bypass Right Foot A
## 6392                                          Bypass Left Foot A
## 6393                              Bypass Left Foot Artery to Le
## 6394                                          Bypass Left Foot Ar
## 6395                              Bypass Left Foot Artery to Lowe
## 6396                                                Bypass Left Fo
## 6397                                  Bypass Left Foot Artery
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## 6398                                                          Bypass Left Foot Artery
## 6399                                          Bypass Left Foot Artery to Lower Ex
## 6400
## 6401
## 6402                                          Bypass Left Foot Artery to Foot Arter
## 6403                                Bypass Left Foot Artery to Lower Extremity Arte
## 6404                                          Bypass Left Foot Artery to Foot Artery
## 6405                                Bypass Left Foot Artery to Lower Extremity Artery
## 6406                                          Bypass Left Foot Artery to Foot A
## 6407                                Bypass Left Foot Artery to Lower Extremity A
## 6408                                Bypass Left Foot Artery to Foot Artery with
## 6409                      Bypass Left Foot Artery to Lower Extremity Artery with
## 6410                                                                     Bypass
## 6411                                                        Bypass Left Foot A
## 6412                                                Bypass Right Axillary Ve
## 6413                                                  Bypass Right Axillar
## 6414                                                Bypass Right Axillary
## 6415                                                   Bypass Right Ax
## 6416                                                Bypass Right Axillary Vein
## 6417
## 6418                                Bypass Right Axillary Vein to Upper Vein w
## 6419                                  Bypass Right Axillary Vein to Upper Ve
## 6420                                Bypass Right Axillary Vein to Upper Vein
## 6421                                  Bypass Right Axillary Vein to Upper
## 6422                      Bypass Right Axillary Vein to Upper Vein with
## 6423                                                              Bypass R
## 6424                                                Bypass Left Axillary Ve
## 6425                                                  Bypass Left Axillar
## 6426                                                Bypass Left Axillary
## 6427                                                   Bypass Left Ax
## 6428                                                Bypass Left Axillary Vein
## 6429
## 6430                                Bypass Left Axillary Vein to Upper Vein w
## 6431                                  Bypass Left Axillary Vein to Upper Ve
## 6432                                Bypass Left Axillary Vein to Upper Vein
## 6433                                  Bypass Left Axillary Vein to Upper
## 6434                      Bypass Left Axillary Vein to Upper Vein with
## 6435                                                              Bypass
## 6436                                                Bypass Right Brachial Ve
## 6437                                                  Bypass Right Brachia
## 6438                                                Bypass Right Brachial
## 6439                                                   Bypass Right Bra
## 6440                                                Bypass Right Brachial Vein
## 6441
## 6442                                Bypass Right Brachial Vein to Upper Vein w
## 6443                                  Bypass Right Brachial Vein to Upper Ve
## 6444                                Bypass Right Brachial Vein to Upper Vein
## 6445                                  Bypass Right Brachial Vein to Upper
## 6446                      Bypass Right Brachial Vein to Upper Vein with
## 6447                                                              Bypass R
## 6448                                                Bypass Left Brachial Ve
## 6449                                                  Bypass Left Brachia
## 6450                                                Bypass Left Brachial
## 6451                                                   Bypass Left Bra
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## 6452                                                 Bypass Left Brachial Vein
## 6453
## 6454                               Bypass Left Brachial Vein to Upper Vein w
## 6455                                 Bypass Left Brachial Vein to Upper Ve
## 6456                               Bypass Left Brachial Vein to Upper Vein
## 6457                                  Bypass Left Brachial Vein to Uppe
## 6458                        Bypass Left Brachial Vein to Upper Vein with
## 6459                                                           Bypass
## 6460                                      Bypass Right Basilic Ve
## 6461                                        Bypass Right Basili
## 6462                                      Bypass Right Basilic
## 6463                                          Bypass Right Ba
## 6464                                    Bypass Right Basilic Vein
## 6465
## 6466                               Bypass Right Basilic Vein to Upper Vein w
## 6467                                 Bypass Right Basilic Vein to Upper Ve
## 6468                               Bypass Right Basilic Vein to Upper Vein
## 6469                                  Bypass Right Basilic Vein to Uppe
## 6470                        Bypass Right Basilic Vein to Upper Vein with
## 6471                                                           Bypass
## 6472                                       Bypass Left Basilic Ve
## 6473                                         Bypass Left Basili
## 6474                                       Bypass Left Basilic
## 6475                                           Bypass Left Ba
## 6476                                     Bypass Left Basilic Vein
## 6477
## 6478                                Bypass Left Basilic Vein to Upper Vein w
## 6479                                  Bypass Left Basilic Vein to Upper Ve
## 6480                                Bypass Left Basilic Vein to Upper Vein
## 6481                                   Bypass Left Basilic Vein to Uppe
## 6482                         Bypass Left Basilic Vein to Upper Vein with
## 6483                                                            Bypass
## 6484                                      Bypass Right Cephalic Ve
## 6485                                        Bypass Right Cephali
## 6486                                      Bypass Right Cephalic
## 6487                                          Bypass Right Cep
## 6488                                    Bypass Right Cephalic Vein
## 6489
## 6490                               Bypass Right Cephalic Vein to Upper Vein w
## 6491                                 Bypass Right Cephalic Vein to Upper Ve
## 6492                               Bypass Right Cephalic Vein to Upper Vein
## 6493                                  Bypass Right Cephalic Vein to Uppe
## 6494                        Bypass Right Cephalic Vein to Upper Vein with
## 6495                                                           Bypass R
## 6496                                      Bypass Left Cephalic Ve
## 6497                                        Bypass Left Cephali
## 6498                                      Bypass Left Cephalic
## 6499                                          Bypass Left Cep
## 6500                                    Bypass Left Cephalic Vein
## 6501
## 6502                                Bypass Left Cephalic Vein to Upper Vein w
## 6503                                  Bypass Left Cephalic Vein to Upper Ve
## 6504                                Bypass Left Cephalic Vein to Upper Vein
## 6505                                   Bypass Left Cephalic Vein to Uppe
```

## 6506	Bypass Left Cephalic Vein to Upper Vein with
## 6507	Bypass
## 6508	Bypass Right Hand V
## 6509	Bypass Right Han
## 6510	Bypass Right Hand
## 6511	Bypass Right
## 6512	Bypass Right Hand Vein
## 6513	
## 6514	Bypass Right Hand Vein to Upper Vein w
## 6515	Bypass Right Hand Vein to Upper Ve
## 6516	Bypass Right Hand Vein to Upper Vein
## 6517	Bypass Right Hand Vein to Upper
## 6518	Bypass Right Hand Vein to Upper Vein with
## 6519	Bypa
## 6520	Bypass Left Hand V
## 6521	Bypass Left Han
## 6522	Bypass Left Hand
## 6523	Bypass Left
## 6524	Bypass Left Hand Vein
## 6525	
## 6526	Bypass Left Hand Vein to Upper Vein w
## 6527	Bypass Left Hand Vein to Upper Ve
## 6528	Bypass Left Hand Vein to Upper Vein
## 6529	Bypass Left Hand Vein to Upper
## 6530	Bypass Left Hand Vein to Upper Vein with
## 6531	Bypa
## 6532	Bypass Intracranial V
## 6533	Bypass Intracrani
## 6534	Bypass Intracranial
## 6535	Bypass Intrac
## 6536	Bypass Intracranial Vein
## 6537	
## 6538	Bypass Intracranial Vein to Upper Vein w
## 6539	Bypass Intracranial Vein to Upper Ve
## 6540	Bypass Intracranial Vein to Upper Vein
## 6541	Bypass Intracranial Vein to Upper
## 6542	Bypass Intracranial Vein to Upper Vein with
## 6543	Bypass
## 6544	Bypass Right Internal Jugular V
## 6545	Bypass Right Internal Jugula
## 6546	Bypass Right Internal Jugular
## 6547	Bypass Right Internal Ju
## 6548	Bypass Right Internal Jugular Vein
## 6549	
## 6550	Bypass Right Internal Jugular Vein to Upper Vein w
## 6551	Bypass Right Internal Jugular Vein to Upper Ve
## 6552	Bypass Right Internal Jugular Vein to Upper Vein
## 6553	Bypass Right Internal Jugular Vein to Upper
## 6554	Bypass Right Internal Jugular Vein to Upper Vein with
## 6555	Bypass Right Inte
## 6556	Bypass Left Internal Jugular V
## 6557	Bypass Left Internal Jugula
## 6558	Bypass Left Internal Jugular
## 6559	Bypass Left Internal Ju

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```
## 6560                                                    Bypass Left Internal Jugular Vein
## 6561
## 6562                                    Bypass Left Internal Jugular Vein to Upper Vein w
## 6563                                   Bypass Left Internal Jugular Vein to Upper Ve
## 6564                                   Bypass Left Internal Jugular Vein to Upper Vein
## 6565                                     Bypass Left Internal Jugular Vein to Uppe
## 6566                       Bypass Left Internal Jugular Vein to Upper Vein with
## 6567                                                          Bypass Left Inte
## 6568                                      Bypass Right External Jugular Ve
## 6569                                        Bypass Right External Jugula
## 6570                                       Bypass Right External Jugular
## 6571                                         Bypass Right External Ju
## 6572                                    Bypass Right External Jugular Vein
## 6573
## 6574                                   Bypass Right External Jugular Vein to Upper Vein w
## 6575                                  Bypass Right External Jugular Vein to Upper Ve
## 6576                                  Bypass Right External Jugular Vein to Upper Vein
## 6577                                    Bypass Right External Jugular Vein to Uppe
## 6578                      Bypass Right External Jugular Vein to Upper Vein with
## 6579                                                        Bypass Right Exte
## 6580                                       Bypass Left External Jugular Ve
## 6581                                         Bypass Left External Jugula
## 6582                                        Bypass Left External Jugular
## 6583                                          Bypass Left External Ju
## 6584                                     Bypass Left External Jugular Vein
## 6585
## 6586                                    Bypass Left External Jugular Vein to Upper Vein w
## 6587                                   Bypass Left External Jugular Vein to Upper Ve
## 6588                                   Bypass Left External Jugular Vein to Upper Vein
## 6589                                     Bypass Left External Jugular Vein to Uppe
## 6590                       Bypass Left External Jugular Vein to Upper Vein with
## 6591                                                          Bypass Left Exte
## 6592                                         Bypass Right Vertebral Ve
## 6593                                           Bypass Right Vertebra
## 6594                                          Bypass Right Vertebral
## 6595                                            Bypass Right Ver
## 6596                                       Bypass Right Vertebral Vein
## 6597
## 6598                                      Bypass Right Vertebral Vein to Upper Vein w
## 6599                                     Bypass Right Vertebral Vein to Upper Ve
## 6600                                     Bypass Right Vertebral Vein to Upper Vein
## 6601                                       Bypass Right Vertebral Vein to Uppe
## 6602                         Bypass Right Vertebral Vein to Upper Vein with
## 6603                                                            Bypass Rig
## 6604                                        Bypass Left Vertebral Ve
## 6605                                          Bypass Left Vertebra
## 6606                                         Bypass Left Vertebral
## 6607                                           Bypass Left Ver
## 6608                                      Bypass Left Vertebral Vein
## 6609
## 6610                                     Bypass Left Vertebral Vein to Upper Vein w
## 6611                                    Bypass Left Vertebral Vein to Upper Ve
## 6612                                    Bypass Left Vertebral Vein to Upper Vein
## 6613                                      Bypass Left Vertebral Vein to Uppe
```

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```
## 6614                            Bypass Left Vertebral Vein to Upper Vein with
## 6615                                                Bypass Le
## 6616                                    Bypass Right Face Ve
## 6617                                        Bypass Right Fac
## 6618                                    Bypass Right Face
## 6619                                          Bypass Righ
## 6620                                Bypass Right Face Vein
## 6621
## 6622                       Bypass Right Face Vein to Upper Vein w
## 6623                          Bypass Right Face Vein to Upper Vei
## 6624                       Bypass Right Face Vein to Upper Vein
## 6625                             Bypass Right Face Vein to Uppe
## 6626                    Bypass Right Face Vein to Upper Vein with
## 6627                                               Bypa
## 6628                               Bypass Left Face Ve
## 6629                                  Bypass Left Fac
## 6630                              Bypass Left Face
## 6631                                   Bypass Lef
## 6632                           Bypass Left Face Vein
## 6633
## 6634                         Bypass Left Face Vein to Upper Vein w
## 6635                            Bypass Left Face Vein to Upper Vei
## 6636                         Bypass Left Face Vein to Upper Vein
## 6637                             Bypass Left Face Vein to Uppe
## 6638                      Bypass Left Face Vein to Upper Vein with
## 6639                                               Bypa
## 6640                           Bypass Inferior Vena Cava t
## 6641                        Bypass Inferior Vena Cava to Right
## 6642                        Bypass Inferior Vena Cava to Left
## 6643                           Bypass Inferior Vena Ca
## 6644                          Bypass Inferior Vena Cava to R
## 6645                          Bypass Inferior Vena Cava to
## 6646                           Bypass Inferior Vena Cava
## 6647                        Bypass Inferior Vena Cava to Righ
## 6648                        Bypass Inferior Vena Cava to Le
## 6649                           Bypass Inferior Vena
## 6650                        Bypass Inferior Vena Cava
## 6651                           Bypass Inferior Vena Cava
## 6652                        Bypass Inferior Vena Cava to Pu
## 6653                    Bypass Inferior Vena Cava to Right Pul
## 6654                     Bypass Inferior Vena Cava to Left Pul
## 6655
## 6656                                                          I
## 6657
## 6658                  Bypass Inferior Vena Cava to Pulmonary Trunk w
## 6659            Bypass Inferior Vena Cava to Right Pulmonary Artery w
## 6660             Bypass Inferior Vena Cava to Left Pulmonary Artery w
## 6661                       Bypass Inferior Vena Cava to Pulmonary Trun
## 6662              Bypass Inferior Vena Cava to Right Pulmonary Arte
## 6663               Bypass Inferior Vena Cava to Left Pulmonary Arte
## 6664                    Bypass Inferior Vena Cava to Pulmonary Trunk
## 6665             Bypass Inferior Vena Cava to Right Pulmonary Artery
## 6666              Bypass Inferior Vena Cava to Left Pulmonary Artery
## 6667                      Bypass Inferior Vena Cava to Pulmonary
```

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```
## 6668                                      Bypass Inferior Vena Cava to Right Pulmonary /
## 6669                                       Bypass Inferior Vena Cava to Left Pulmonary /
## 6670                             Bypass Inferior Vena Cava to Pulmonary Trunk with
## 6671              Bypass Inferior Vena Cava to Right Pulmonary Artery with
## 6672               Bypass Inferior Vena Cava to Left Pulmonary Artery with
## 6673                                                      Bypass Inferi
## 6674                                               Bypass Inferior Vena
## 6675                                                Bypass Inferior Ver
## 6676                                                Bypass Esophageal Vo
## 6677                                                 Bypass Esophagea
## 6678                                             Bypass Esophageal
## 6679                                                  Bypass Esop]
## 6680                                          Bypass Esophageal Vein
## 6681
## 6682                             Bypass Esophageal Vein to Lower Vein wi
## 6683                               Bypass Esophageal Vein to Lower Ve
## 6684                            Bypass Esophageal Vein to Lower Vein
## 6685                                Bypass Esophageal Vein to Lower
## 6686                            Bypass Esophageal Vein to Lower Vein with
## 6687                                                              Bypas
## 6688                                    Bypass Portal Vein to Hepatio
## 6689                                    Bypass Right Common Iliac Vo
## 6690                                       Bypass Right Common Ilia
## 6691                                     Bypass Right Common Iliac
## 6692                                          Bypass Right Common
## 6693                                 Bypass Right Common Iliac Vein
## 6694
## 6695                          Bypass Right Common Iliac Vein to Lower Vein wi
## 6696                            Bypass Right Common Iliac Vein to Lower Ve
## 6697                          Bypass Right Common Iliac Vein to Lower Vein
## 6698                              Bypass Right Common Iliac Vein to Lower
## 6699                          Bypass Right Common Iliac Vein to Lower Vein with
## 6700                                                      Bypass Right
## 6701                                    Bypass Left Common Iliac Vo
## 6702                                       Bypass Left Common Ilia
## 6703                                     Bypass Left Common Iliac
## 6704                                          Bypass Left Common
## 6705                                 Bypass Left Common Iliac Vein
## 6706
## 6707                          Bypass Left Common Iliac Vein to Lower Vein wi
## 6708                            Bypass Left Common Iliac Vein to Lower Ve
## 6709                          Bypass Left Common Iliac Vein to Lower Vein
## 6710                              Bypass Left Common Iliac Vein to Lower
## 6711                          Bypass Left Common Iliac Vein to Lower Vein with
## 6712                                                      Bypass Left
## 6713                                    Bypass Right External Iliac Vo
## 6714                                       Bypass Right External Ilia
## 6715                                     Bypass Right External Iliac
## 6716                                          Bypass Right External
## 6717                                 Bypass Right External Iliac Vein
## 6718
## 6719                          Bypass Right External Iliac Vein to Lower Vein wi
## 6720                            Bypass Right External Iliac Vein to Lower Ve
## 6721                          Bypass Right External Iliac Vein to Lower Vein
```

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```
## 6722                                            Bypass Right External Iliac Vein to Lower
## 6723                          Bypass Right External Iliac Vein to Lower Vein with
## 6724                                                       Bypass Right E
## 6725                                   Bypass Left External Iliac Ve
## 6726                                      Bypass Left External Ilia
## 6727                                   Bypass Left External Iliac
## 6728                                       Bypass Left External
## 6729                                   Bypass Left External Iliac Vein
## 6730
## 6731                          Bypass Left External Iliac Vein to Lower Vein wi
## 6732                             Bypass Left External Iliac Vein to Lower Vei
## 6733                          Bypass Left External Iliac Vein to Lower Vein
## 6734                             Bypass Left External Iliac Vein to Lower
## 6735                    Bypass Left External Iliac Vein to Lower Vein with
## 6736                                                   Bypass Left E
## 6737                                   Bypass Right Hypogastric Ve
## 6738                                      Bypass Right Hypogastri
## 6739                                   Bypass Right Hypogastric
## 6740                                       Bypass Right Hypoga
## 6741                                   Bypass Right Hypogastric Vein
## 6742
## 6743                          Bypass Right Hypogastric Vein to Lower Vein wi
## 6744                             Bypass Right Hypogastric Vein to Lower Vei
## 6745                          Bypass Right Hypogastric Vein to Lower Vein
## 6746                             Bypass Right Hypogastric Vein to Lower
## 6747                    Bypass Right Hypogastric Vein to Lower Vein with
## 6748                                                   Bypass Righ
## 6749                                   Bypass Right Femoral Ve
## 6750                                       Bypass Right Femora
## 6751                                   Bypass Right Femoral
## 6752                                       Bypass Right Fe
## 6753                                   Bypass Right Femoral Vein
## 6754
## 6755                          Bypass Right Femoral Vein to Lower Vein wi
## 6756                             Bypass Right Femoral Vein to Lower Vei
## 6757                          Bypass Right Femoral Vein to Lower Vein
## 6758                             Bypass Right Femoral Vein to Lower
## 6759                    Bypass Right Femoral Vein to Lower Vein with
## 6760                                                   Bypass L
## 6761                                   Bypass Left Femoral Ve
## 6762                                       Bypass Left Femora
## 6763                                   Bypass Left Femoral
## 6764                                       Bypass Left Fe
## 6765                                   Bypass Left Femoral Vein
## 6766
## 6767                          Bypass Left Femoral Vein to Lower Vein wi
## 6768                             Bypass Left Femoral Vein to Lower Vei
## 6769                          Bypass Left Femoral Vein to Lower Vein
## 6770                             Bypass Left Femoral Vein to Lower
## 6771                    Bypass Left Femoral Vein to Lower Vein with
## 6772                                                   Bypass
## 6773                                   Bypass Right Saphenous Ve
## 6774                                       Bypass Right Saphenou
## 6775                                   Bypass Right Saphenous
```

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```
## 6776                                              Bypass Right Sapl
## 6777                            Bypass Right Saphenous Vein
## 6778
## 6779              Bypass Right Saphenous Vein to Lower Vein w:
## 6780                 Bypass Right Saphenous Vein to Lower Ve:
## 6781              Bypass Right Saphenous Vein to Lower Vein
## 6782                 Bypass Right Saphenous Vein to Lowe:
## 6783     Bypass Right Saphenous Vein to Lower Vein with
## 6784                                          Bypass Ri
## 6785                    Bypass Left Saphenous V
## 6786                       Bypass Left Saphenou
## 6787                    Bypass Left Saphenous
## 6788                       Bypass Left Sapl
## 6789                    Bypass Left Saphenous Vein
## 6790
## 6791              Bypass Left Saphenous Vein to Lower Vein w:
## 6792                 Bypass Left Saphenous Vein to Lower Ve:
## 6793              Bypass Left Saphenous Vein to Lower Vein
## 6794                 Bypass Left Saphenous Vein to Lowe:
## 6795     Bypass Left Saphenous Vein to Lower Vein with
## 6796                                          Bypass L
## 6797                    Bypass Right Foot V
## 6798                       Bypass Right Foo
## 6799                    Bypass Right Foot
## 6800                       Bypass Righ
## 6801                    Bypass Right Foot Vein
## 6802
## 6803              Bypass Right Foot Vein to Lower Vein w:
## 6804                 Bypass Right Foot Vein to Lower Ve:
## 6805              Bypass Right Foot Vein to Lower Vein
## 6806                 Bypass Right Foot Vein to Lowe:
## 6807     Bypass Right Foot Vein to Lower Vein with
## 6808                                          Bypa:
## 6809                    Bypass Left Foot V
## 6810                       Bypass Left Foo
## 6811                    Bypass Left Foot
## 6812                       Bypass Lef
## 6813                    Bypass Left Foot Vein
## 6814
## 6815              Bypass Left Foot Vein to Lower Vein w:
## 6816                 Bypass Left Foot Vein to Lower Ve:
## 6817              Bypass Left Foot Vein to Lower Vein
## 6818                 Bypass Left Foot Vein to Lowe:
## 6819     Bypass Left Foot Vein to Lower Vein with
## 6820                                          Byp:
## 6821                    Bypass Small In
## 6822                       Bypass Small
## 6823                          Bypass S
## 6824                             Bypas:
## 6825                    Bypass Small Intes
## 6826                       Bypass Small Inte
## 6827
## 6828
## 6829              Bypass Small Intestine to Rectum w:
```

```
## 6830                                                      Bypass Small Intestine to Anus w
## 6831                                                Bypass Small Intestine to
## 6832                                                  Bypass Small Intestine t
## 6833                          Bypass Small Intestine to Rectum with
## 6834                           Bypass Small Intestine to Anus with
## 6835                                                                        
## 6836
## 6837                                                       Bypass
## 6838                                                     Bypass
## 6839
## 6840
## 6841                                                   Bypass Jeju
## 6842                                                 Bypass Je
## 6843
## 6844
## 6845                                             Bypass Jejunum to Rectum w
## 6846                                               Bypass Jejunum to Anus w
## 6847                                                 Bypass Jejunum to
## 6848                                                   Bypass Jejunum t
## 6849                                    Bypass Jejunum to Rectum with
## 6850                                      Bypass Jejunum to Anus with
## 6851
## 6852
## 6853                                                       Bypass
## 6854                                                     Bypa
## 6855
## 6856
## 6857                                                   Bypass Il
## 6858                                                 Bypass
## 6859
## 6860
## 6861                                             Bypass Ileum to Rectum w
## 6862                                               Bypass Ileum to Anus w
## 6863                                                 Bypass Ileum to
## 6864                                                   Bypass Ileum t
## 6865                                       Bypass Ileum to Rectum with
## 6866                                         Bypass Ileum to Anus with
## 6867
## 6868
## 6869                                                  Bypass Large In
## 6870                                                        Bypass
## 6871                                                  Bypass Large Intest
## 6872
## 6873                          Bypass Large Intestine to Rectum w
## 6874                               Bypass Large Intestine to
## 6875                       Bypass Large Intestine to Rectum with
## 6876                                                                        
## 6877                                                     Bypass
## 6878
## 6879                                                   Bypass Ce
## 6880
## 6881                                             Bypass Cecum to Rectum w
## 6882                                               Bypass Cecum to
## 6883                                         Bypass Cecum to Rectum with
```

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```
## 6884
## 6885                                                          Bypass Ascending
## 6886                                                        Bypass A
## 6887                                                    Bypass Ascending C
## 6888
## 6889                                     Bypass Ascending Colon to Rectum w:
## 6890                                            Bypass Ascending Colon to l
## 6891                                 Bypass Ascending Colon to Rectum with
## 6892                                                                      l
## 6893                                               Bypass Transverse
## 6894                                                        Bypass T:
## 6895                                             Bypass Transverse Co
## 6896
## 6897                                    Bypass Transverse Colon to Rectum w:
## 6898                                           Bypass Transverse Colon to l
## 6899                                Bypass Transverse Colon to Rectum with
## 6900                                                                   B:
## 6901                                              Bypass Descending
## 6902                                                      Bypass De
## 6903                                            Bypass Descending Co
## 6904
## 6905                                   Bypass Descending Colon to Rectum w:
## 6906                                          Bypass Descending Colon to l
## 6907                               Bypass Descending Colon to Rectum with
## 6908                                                                   B:
## 6909                                              Bypass Sigmoi
## 6910                                                       Bypass
## 6911                                            Bypass Sigmoid Co
## 6912
## 6913                                      Bypass Sigmoid Colon to Rectum w:
## 6914                                             Bypass Sigmoid Colon to l
## 6915                                  Bypass Sigmoid Colon to Rectum with
## 6916
## 6917
## 6918
## 6919                                                            Drainag
## 6920
## 6921
## 6922
## 6923
## 6924
## 6925
## 6926
## 6927
## 6928
## 6929
## 6930
## 6931
## 6932
## 6933
## 6934
## 6935
## 6936
## 6937
```

```
## 6938
## 6939                                              Bypass Upper Esopl
## 6940                                             Bypass Upper Esop
## 6941                                            Bypass Upper E:
## 6942                                              Bypass Up
## 6943                                               Bypass U
## 6944                                                Bypass
## 6945                                          Bypass Upper Esophagu
## 6946                                          Bypass Upper Esophag
## 6947                                          Bypass Upper Esopl
## 6948
## 6949
## 6950
## 6951                   Bypass Upper Esophagus to Duodenum w
## 6952                    Bypass Upper Esophagus to Jejunum w
## 6953                     Bypass Upper Esophagus to Ileum w
## 6954                       Bypass Upper Esophagus to Du
## 6955                        Bypass Upper Esophagus to J
## 6956                         Bypass Upper Esophagus to
## 6957             Bypass Upper Esophagus to Duodenum with
## 6958             Bypass Upper Esophagus to Jejunum with
## 6959             Bypass Upper Esophagus to Ileum with
## 6960                                                 Byp
## 6961                                                  By
## 6962
## 6963                             Bypass Middle Esopl
## 6964                            Bypass Middle Esop
## 6965                           Bypass Middle E:
## 6966                             Bypass Mid
## 6967                              Bypass Mic
## 6968                               Bypass l
## 6969                         Bypass Middle Esophagu
## 6970                         Bypass Middle Esophag
## 6971                         Bypass Middle Esopl
## 6972
## 6973
## 6974
## 6975                  Bypass Middle Esophagus to Duodenum w
## 6976                   Bypass Middle Esophagus to Jejunum w
## 6977                    Bypass Middle Esophagus to Ileum w
## 6978                      Bypass Middle Esophagus to Du
## 6979                       Bypass Middle Esophagus to J
## 6980                        Bypass Middle Esophagus to
## 6981            Bypass Middle Esophagus to Duodenum with
## 6982            Bypass Middle Esophagus to Jejunum with
## 6983             Bypass Middle Esophagus to Ileum with
## 6984                                                Bypa
## 6985                                                 Byp
## 6986                                                  l
## 6987                            Bypass Lower Esopl
## 6988                           Bypass Lower Esop
## 6989                          Bypass Lower E:
## 6990                            Bypass Lo
## 6991                             Bypass Le
```

```
## 6992                                                                  Bypass
## 6993                                            Bypass Lower Esophagu
## 6994                                            Bypass Lower Esophag
## 6995                                            Bypass Lower Esoph
## 6996
## 6997
## 6998
## 6999                        Bypass Lower Esophagus to Duodenum wi
## 7000                        Bypass Lower Esophagus to Jejunum wi
## 7001                        Bypass Lower Esophagus to Ileum wi
## 7002                            Bypass Lower Esophagus to Duo
## 7003                            Bypass Lower Esophagus to Je
## 7004                                Bypass Lower Esophagus to
## 7005               Bypass Lower Esophagus to Duodenum with
## 7006               Bypass Lower Esophagus to Jejunum with
## 7007               Bypass Lower Esophagus to Ileum with
## 7008                                                      Byp
## 7009                                                       By
## 7010
## 7011                                          Bypass Esoph
## 7012                                          Bypass Esop
## 7013                                           Bypass Es
## 7014                                               Bypa
## 7015                                                By
## 7016                                                  E
## 7017                                        Bypass Esophagu
## 7018                                        Bypass Esophag
## 7019                                        Bypass Esoph
## 7020
## 7021
## 7022
## 7023                          Bypass Esophagus to Duodenum wi
## 7024                          Bypass Esophagus to Jejunum wi
## 7025                           Bypass Esophagus to Ileum wi
## 7026                              Bypass Esophagus to Duo
## 7027                              Bypass Esophagus to Je
## 7028                                 Bypass Esophagus to
## 7029               Bypass Esophagus to Duodenum with
## 7030               Bypass Esophagus to Jejunum with
## 7031               Bypass Esophagus to Ileum with
## 7032
## 7033
## 7034
## 7035                                          Bypass Sto
## 7036                                          Bypass St
## 7037                                           Bypass
## 7038                                              By
## 7039                                                E
## 7040
## 7041                                     Bypass Stomac
## 7042                                     Bypass Stoma
## 7043                                      Bypass Sto
## 7044
## 7045
```

```
## 7046
## 7047                                    Bypass Stomach to Duodenum wi
## 7048                                  Bypass Stomach to Jejunum wi
## 7049                                Bypass Stomach to Ileum wi
## 7050                                 Bypass Stomach to Duo
## 7051                                  Bypass Stomach to Je
## 7052                                  Bypass Stomach to
## 7053                            Bypass Stomach to Duodenum with
## 7054                           Bypass Stomach to Jejunum with
## 7055                            Bypass Stomach to Ileum with
## 7056
## 7057
## 7058
## 7059                                Bypass Small Intest
## 7060                              Bypass Small Intestine to
## 7061                                      Bypass Smal
## 7062                               Bypass Small Inte
## 7063                            Bypass Small Intestine
## 7064                           Bypass Small Intestine to Sm
## 7065
## 7066
## 7067                       Bypass Small Intestine to Cutaneous wi
## 7068             Bypass Small Intestine to Small Intestine wi
## 7069                           Bypass Small Intestine to Cuta
## 7070                      Bypass Small Intestine to Small Inte
## 7071                  Bypass Small Intestine to Cutaneous with
## 7072        Bypass Small Intestine to Small Intestine with
## 7073                                                   Bypa
## 7074                                   Bypass Sma
## 7075                             Bypass Duode
## 7076                              Bypass Duo
## 7077                              Bypass Duo
## 7078                               Bypass I
## 7079                                 Bypa
## 7080                                 Byp
## 7081                                  By
## 7082
## 7083                            Bypass Duodenu
## 7084                           Bypass Duoden
## 7085                            Bypass Duoder
## 7086                             Bypass Duo
## 7087
## 7088
## 7089
## 7090
## 7091                           Bypass Duodenum to Cutaneous wi
## 7092                           Bypass Duodenum to Duodenum wi
## 7093                           Bypass Duodenum to Jejunum wi
## 7094                             Bypass Duodenum to Ileum wi
## 7095                               Bypass Duodenum to Cuta
## 7096                              Bypass Duodenum to Duo
## 7097                              Bypass Duodenum to Je
## 7098                                Bypass Duodenum to
## 7099                         Bypass Duodenum to Cutaneous with
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## 7100                                                                          Bypass Duodenum to Duodenum with
## 7101                                                                          Bypass Duodenum to Jejunum with
## 7102                                                                          Bypass Duodenum to Ileum with
## 7103
## 7104
## 7105
## 7106
## 7107                                                                 Bypass Jeju
## 7108                                                                   Bypass Je
## 7109                                                                     Bypass
## 7110                                                                        Byp
## 7111                                                                          B
## 7112
## 7113                                                                 Bypass Jejunum
## 7114                                                                   Bypass Jeju
## 7115                                                                     Bypass Je
## 7116
## 7117
## 7118
## 7119                                                        Bypass Jejunum to Cutaneous wi
## 7120                                                          Bypass Jejunum to Jejunum wi
## 7121                                                            Bypass Jejunum to Ileum wi
## 7122                                                              Bypass Jejunum to Cuta
## 7123                                                                Bypass Jejunum to Je
## 7124                                                                  Bypass Jejunum to
## 7125                                                        Bypass Jejunum to Cutaneous with
## 7126                                                          Bypass Jejunum to Jejunum with
## 7127                                                            Bypass Jejunum to Ileum with
## 7128
## 7129
## 7130
## 7131                                                                       Bypass Il
## 7132                                                                         Bypas
## 7133                                                                            B
## 7134
## 7135                                                                 Bypass Ileum
## 7136                                                                   Bypass I
## 7137
## 7138
## 7139                                                        Bypass Ileum to Cutaneous wi
## 7140                                                          Bypass Ileum to Ileum wi
## 7141                                                            Bypass Ileum to Cuta
## 7142                                                              Bypass Ileum to
## 7143                                                        Bypass Ileum to Cutaneous with
## 7144                                                          Bypass Ileum to Ileum with
## 7145
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## 7154
## 7155
## 7156
## 7157                                                     Drainage of Small
## 7158
## 7159
## 7160
## 7161                                                      Drainage
## 7162
## 7163
## 7164
## 7165                                                    Drainage
## 7166
## 7167
## 7168
## 7169                                                 Drainag
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## 7172
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## 7176
## 7177
## 7178
## 7179                                                             I
## 7180
## 7181                                                       Ins
## 7182
## 7183                                Insertion of Monitor
## 7184                                Insertion of Infus
## 7185                          Insertion of Intralum
## 7186                                Insertion of Fee
## 7187
## 7188
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## 7190
## 7191                                Insertion of
## 7192                                  Insertion
## 7193                          Insertion of In
## 7194                                Insertion
## 7195
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## 7198
## 7199                                Insertion o
## 7200                                  Insertion
## 7201                          Insertion of I
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## 7205
## 7206                                Insertion
## 7207                                  Inserti
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## 7208                                                       Insertion o
## 7209                                                          Inserti
## 7210                                                             Remo
## 7211                                                          Remova
## 7212                                                            Remo
## 7213                                          Removal of Autolo
## 7214                                                    Removal
## 7215                                                  Removal o
## 7216                                     Removal of Nonautolo
## 7217                                                        Rer
## 7218                                                          R
## 7219                                    Removal of Drainage Dev
## 7220                                  Removal of Monitoring Dev
## 7221                                    Removal of Infusion Dev
## 7222                      Removal of Autologous Tissue Substit
## 7223                                Removal of Intraluminal Dev
## 7224                              Removal of Synthetic Substit
## 7225                Removal of Nonautologous Tissue Substit
## 7226                                    Removal of Feeding Dev
## 7227                                      Removal of Other Dev
## 7228                                  Removal of Drainage Devi
## 7229                                Removal of Monitoring Devi
## 7230                                  Removal of Infusion Devi
## 7231
## 7232
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## 7254
## 7255                                                          Rev
## 7256                                                        Revis
## 7257                                                          Rev
## 7258                                         Revision of Aut
## 7259                                                  Revisi
## 7260                                                Revisior
## 7261                                   Revision of Nonauto
```

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## 7262                                                           Re
## 7263
## 7264                                   Revision of Drainage
## 7265                                  Revision of Monitoring
## 7266                                    Revision of Infusion
## 7267                 Revision of Autologous Tissue Subst
## 7268                              Revision of Intraluminal
## 7269                           Revision of Synthetic Subst
## 7270          Revision of Nonautologous Tissue Subst
## 7271                                     Revision of Feeding
## 7272                                       Revision of Other
## 7273
## 7274
## 7275
## 7276
## 7277                                             Drainag
## 7278
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## 7280
## 7281
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## 7283
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## 7287
## 7288                                               Removal
## 7289                                               Removal
## 7290                                            Rem
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## 7298
## 7299                                               Revis
## 7300                                              Revis
## 7301                                            Rev
## 7302
## 7303
## 7304
## 7305                                             Excisi
## 7306                        Extraction of Right Interna
## 7307                        Extraction of Left Interna
## 7308
## 7309
## 7310                            Insertion of In
## 7311                              Insertion of
## 7312
## 7313
## 7314                                Insertion
## 7315                                 Insert
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## 7316                                                                         
## 7317                                                                         
## 7318                                                                         
## 7319                                                                         
## 7320                                                                         
## 7321                                                                         
## 7322                                                          Removal         
## 7323                                                                         
## 7324                                                                         
## 7325                                                                         
## 7326                                                    Removal of           
## 7327                                                                         
## 7328                                              Removal of Dra             
## 7329                                              Removal of In              
## 7330                        Removal of Autologous Tiss                       
## 7331                                  Removal of Extralu                     
## 7332                                  Removal of Intralu                     
## 7333                                  Removal of Synthet                     
## 7334                    Removal of Nonautologous Tiss                        
## 7335                                        Removal of                       
## 7336                                                                         
## 7337                                                                         
## 7338                                                                         
## 7339                                          Removal                        
## 7340                                          Removal                        
## 7341                                              Remo                       
## 7342                                                                         
## 7343                                                                         
## 7344                                          Revisi                         
## 7345                                                                         
## 7346                                                                         
## 7347                                                                         
## 7348                                          Revision                       
## 7349                                                                         
## 7350                                  Revision of                            
## 7351                                  Revision of                            
## 7352                      Revision of Autologous Tis                         
## 7353                                  Revision of Extra                      
## 7354                                  Revision of Intra                      
## 7355                                  Revision of Synthe                     
## 7356                  Revision of Nonautologous Tis                          
## 7357                                      Revision                           
## 7358                                                                         
## 7359                                                                         
## 7360                                                                         
## 7361                                          Revisi                         
## 7362                                          Revisi                         
## 7363                                              Rev                        
## 7364                                                                         
## 7365                                              De                         
## 7366                                                                         
## 7367                                          Destructi                      
## 7368                                                                         
## 7369                                          Destructio                     
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## 7370
## 7371                                                               Destructi
## 7372
## 7373                                                                       Do
## 7374
## 7375                                                               Destruct
## 7376
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## 7402
## 7403
## 7404
## 7405
## 7406                                                          Drainage
## 7407
## 7408                                                                  Di
## 7409
## 7410                                            Drainage of Right Ma
## 7411
## 7412                                                          Drainage
## 7413
## 7414                              Drainage of Right Upper Lob
## 7415                                                 Draina
## 7416                                               Drainage
## 7417
## 7418                             Drainage of Right Middle Lob
## 7419                                                Drainag
## 7420                                               Drainage
## 7421
## 7422                              Drainage of Right Lower Lob
## 7423                                                Draina
```

7424   I

7425

7426   Drainage of Left Ma

7427

7428   Drainag

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7430   Drainage of Left Upper Lo

7431   Drai

7432

7433

7434   Drainage of Lingul

7435

7436   Drainag

7437

7438   Drainage of Left Lower Lol

7439   Drai

7440   Dra

7441

7442   Drainage of Right Uppe

7443   D

7444   Drai

7445

7446   Drainage of Right Middl

7447   Dra

7448   Dra

7449

7450   Drainage of Right Lowe

7451   D

7452   Dra

7453

7454   Drainage of Left Uppe

7455   I

7456

7457

7458   Drainage of Lu

7459

7460   Dra

7461

7462   Drainage of Left Lowe

7463   I

7464

7465

7466   Drainage of

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7470   Drainage o

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7473

7474   Drainage of Bila

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## 7478                                                                Drainage of R
## 7479
## 7480
## 7481
## 7482                                                                Drainage of
## 7483
## 7484
## 7485
## 7486                                                                Drainage o
## 7487
## 7488
## 7489
## 7490
## 7491                                                                     Excis
## 7492
## 7493                                                                     Excis
## 7494
## 7495                                                                     Excis
## 7496
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## 7499                                                                     Exci
## 7500
## 7501
## 7502
## 7503                                                                     Exci
## 7504
## 7505                                                                        E
## 7506
## 7507                                                                     Exc
## 7508
## 7509                                                                        E
## 7510
## 7511                                                                        
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## 7527
## 7528
## 7529                                                            Extirpation of
## 7530                                                                        E
## 7531                                                            Extirpation of Matte
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```
## 7532                                                                                        Ex
## 7533                                                                 Extirpation of Matter
## 7534                                                                                        E
## 7535                                                                 Extirpation of Matte
## 7536
## 7537                                                                     Extirpation o
## 7538                                                                                  E
## 7539                                                                 Extirpation of Matt
## 7540
## 7541                                                                     Extirpation
## 7542                                                                                  E
## 7543                                                                 Extirpation of Matt
## 7544
## 7545                                                                   Extirpation of M
## 7546
## 7547                                                                   Extirpation of Ma
## 7548
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## 7550
## 7551                                                                   Extirpation of
## 7552
## 7553                                                                       Extirpa
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## 7556
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## 7571
## 7572
## 7573                                                                         Frag
## 7574
## 7575                                                                     Fragmenta
## 7576
## 7577                                                                   Fragmentatio
## 7578
## 7579                                                                   Fragmentati
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## 7581                                                                       Fra
## 7582
## 7583                                                                   Fragmenta
## 7584
## 7585                                                                           F
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## 7586
## 7587                                                              Fragmenta
## 7588                                                                     In
## 7589                                     Insertion of Other D
## 7590                                                                Inserti
## 7591                               Insertion of Endobronchial
## 7592                                                    Insertion of
## 7593                           Insertion of Endobronchial Valv
## 7594                                                 Insertion of
## 7595                           Insertion of Endobronchial Valve
## 7596                                                 Insertion of
## 7597                           Insertion of Endobronchial Valve
## 7598                                                          Insert
## 7599                              Insertion of Endobronchia
## 7600                                                 Insertion o
## 7601                           Insertion of Endobronchial Valv
## 7602                                                             Inse
## 7603                             Insertion of Endobronch
## 7604                                                 Insertion o
## 7605                           Insertion of Endobronchial Valv
## 7606
## 7607                                                    Insertion
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## 7610                                                 Insertion
## 7611                                                    Insert
## 7612
## 7613                                                    Insert
## 7614
## 7615                                       Insertion of
## 7616                           Insertion of Diaphragmat
## 7617                                                 Insertion
## 7618                                                    Occlusi
## 7619                                                    Occlusi
## 7620
## 7621                              Occlusion of Right Main B
## 7622                              Occlusion of Right Main B
## 7623                                                          
## 7624                                       Occlusion of
## 7625                                       Occlusion of
## 7626
## 7627                           Occlusion of Right Upper Lobe B
## 7628                           Occlusion of Right Upper Lobe B
## 7629                                                    Occlus
## 7630                                       Occlusion of
## 7631                                       Occlusion of
## 7632
## 7633                           Occlusion of Right Middle Lobe B
## 7634                           Occlusion of Right Middle Lobe B
## 7635                                                    Occlusi
## 7636                                       Occlusion of
## 7637                                       Occlusion of
## 7638
## 7639                           Occlusion of Right Lower Lobe B
```

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## 7640                                                  Occlusion of Right Lower Lobe B:
## 7641                                                                          Occlus:
## 7642                                                                             Occlu:
## 7643                                                                             Occlu:
## 7644
## 7645                                                  Occlusion of Left Main B:
## 7646                                                  Occlusion of Left Main B:
## 7647
## 7648                                                         Occlusion o:
## 7649                                                         Occlusion o:
## 7650
## 7651                                          Occlusion of Left Upper Lobe B:
## 7652                                          Occlusion of Left Upper Lobe B:
## 7653                                                                          Occlu:
## 7654                                                                             Occl:
## 7655                                                                             Occl:
## 7656
## 7657                                              Occlusion of Lingula B:
## 7658                                              Occlusion of Lingula B:
## 7659
## 7660                                                         Occlusion o:
## 7661                                                         Occlusion o:
## 7662
## 7663                                          Occlusion of Left Lower Lobe B:
## 7664                                          Occlusion of Left Lower Lobe B:
## 7665                                                                          Occlu:
## 7666
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## 7683
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## 7685
## 7686                                                                     Re
## 7687
## 7688                                                                    Rel
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## 7694                                                                                      I
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## 7721
## 7722
## 7723                                                             Rer
## 7724                                                        Removal
## 7725                                                          Remov
## 7726                                                            Rer
## 7727                                             Removal of Autol
## 7728                                                       Removal
## 7729                                                       Removal
## 7730                                                     Removal
## 7731                                           Removal of Nonautol
## 7732
## 7733                                   Removal of Drainage De
## 7734                            Removal of Radioactive Ele
## 7735                             Removal of Monitoring De
## 7736                               Removal of Infusion De
## 7737             Removal of Autologous Tissue Substi
## 7738                          Removal of Extraluminal De
## 7739                          Removal of Intraluminal De
## 7740                        Removal of Synthetic Substi
## 7741        Removal of Nonautologous Tissue Substi
## 7742                           Removal of Other De
## 7743
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## 7748                                                                Removal of
## 7749                                                         Removal of Radi
## 7750                                                        Removal of M
## 7751                                                         Removal of
## 7752                                                             Removal
## 7753
## 7754
## 7755
## 7756
## 7757
## 7758                                                          Removal o
## 7759                                                    Removal of Ra
## 7760                                                        Removal of
## 7761                                                         Removal o
## 7762                                                            Removal
## 7763
## 7764                                                             Rem
## 7765
## 7766
## 7767                                                             Rem
## 7768
## 7769                                                          Removal
## 7770                                                            Rem
## 7771
## 7772                                                          Removal o
## 7773                                                    Removal of
## 7774                                          Removal of Autologous
## 7775                                              Removal of Syn
## 7776                              Removal of Nonautologous
## 7777                                    Removal of Diaphragmat
## 7778                                                            Removal
## 7779
## 7780
## 7781
## 7782                                                             R
## 7783
## 7784                                                            R
## 7785
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## 7802
## 7803
## 7804
## 7805
## 7806
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## 7808
## 7809
## 7810
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## 7816
## 7817
## 7818
## 7819                                                              Repla
## 7820
## 7821                                                       Replacem
## 7822                                      Replacement of Carina wi
## 7823                                            Replacement of C
## 7824                                   Replacement of Carina with
## 7825                                          Replacement of Rig
## 7826                                                Replacemen
## 7827                                    Replacement of Right
## 7828                      Replacement of Right Main Bronchus wi
## 7829                           Replacement of Right Main Bro
## 7830                  Replacement of Right Main Bronchus with
## 7831                                 Replacement of Right Upp
## 7832                                       Replacement of L
## 7833                           Replacement of Right Upper
## 7834             Replacement of Right Upper Lobe Bronchus wi
## 7835                  Replacement of Right Upper Lobe Bro
## 7836         Replacement of Right Upper Lobe Bronchus with
## 7837                                 Replacement of Right Mid
## 7838                                      Replacement of Ri
## 7839                          Replacement of Right Middle
## 7840             Replacement of Right Middle Lobe Bronchus wi
## 7841                  Replacement of Right Middle Lobe Bro
## 7842         Replacement of Right Middle Lobe Bronchus with
## 7843                                 Replacement of Right Lo
## 7844                                       Replacement of L
## 7845                          Replacement of Right Lower
## 7846             Replacement of Right Lower Lobe Bronchus wi
## 7847                  Replacement of Right Lower Lobe Bro
## 7848         Replacement of Right Lower Lobe Bronchus with
## 7849                                 Replacement of Le
## 7850                                       Replaceme
## 7851                          Replacement of Left
## 7852                  Replacement of Left Main Bronchus wi
## 7853                       Replacement of Left Main Bro
## 7854              Replacement of Left Main Bronchus with
## 7855                          Replacement of Left Up
```

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## 7856                                                            Replacement of
## 7857                                             Replacement of Left Upper
## 7858                              Replacement of Left Upper Lobe Bronchus wi
## 7859                                  Replacement of Left Upper Lobe Bro
## 7860                     Replacement of Left Upper Lobe Bronchus with
## 7861                                                   Replacement of
## 7862                                                         Replace
## 7863                                              Replacement of Lin
## 7864                              Replacement of Lingula Bronchus wi
## 7865                                 Replacement of Lingula Bro
## 7866                    Replacement of Lingula Bronchus with
## 7867                                    Replacement of Left Lou
## 7868                                            Replacement of
## 7869                              Replacement of Left Lower
## 7870              Replacement of Left Lower Lobe Bronchus wi
## 7871                     Replacement of Left Lower Lobe Bro
## 7872        Replacement of Left Lower Lobe Bronchus with
## 7873                                              Replacen
## 7874
## 7875                                              Replacemen
## 7876                              Replacement of Diaphragm wi
## 7877                                 Replacement of Diap
## 7878                    Replacement of Diaphragm with
## 7879
## 7880
## 7881
## 7882
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## 7897                                                            F
## 7898
## 7899                                                   Resecti
## 7900
## 7901                                                 Resectio
## 7902
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## 7904
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## 7907                                                 Resect
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## 7910
## 7911                                                              Resect
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## 7914
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## 7916
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## 7927
## 7928
## 7929
## 7930
## 7931
## 7932                                        Supplement Rig
## 7933                                               Supple
## 7934                                    Supplement Right
## 7935               Supplement Right Main Bronchus wi
## 7936                          Supplement Right Main Bro
## 7937             Supplement Right Main Bronchus with
## 7938                            Supplement Right Upp
## 7939                                   Supplement
## 7940                      Supplement Right Upper
## 7941          Supplement Right Upper Lobe Bronchus wi
## 7942                     Supplement Right Upper Lobe Bro
## 7943        Supplement Right Upper Lobe Bronchus with
## 7944                         Supplement Right Midd
## 7945                                Supplement Ri
## 7946                    Supplement Right Middle
## 7947        Supplement Right Middle Lobe Bronchus wi
## 7948                   Supplement Right Middle Lobe Bro
## 7949      Supplement Right Middle Lobe Bronchus with
## 7950                        Supplement Right Lov
## 7951                               Supplement
## 7952                   Supplement Right Lower
## 7953        Supplement Right Lower Lobe Bronchus wi
## 7954                  Supplement Right Lower Lobe Bro
## 7955      Supplement Right Lower Lobe Bronchus with
## 7956                        Supplement Le
## 7957                               Suppl
## 7958                   Supplement Left
## 7959        Supplement Left Main Bronchus wi
## 7960                  Supplement Left Main Bro
## 7961      Supplement Left Main Bronchus with
## 7962                        Supplement Left Upp
## 7963                               Supplement
```

```
## 7964                                                      Supplement Left Upper
## 7965                                 Supplement Left Upper Lobe Bronchus wi
## 7966                                       Supplement Left Upper Lobe Bro
## 7967                         Supplement Left Upper Lobe Bronchus with
## 7968                                                      Supplement
## 7969                                                            Sup
## 7970                                             Supplement Li
## 7971                                Supplement Lingula Bronchus wi
## 7972                                      Supplement Lingula Bro
## 7973                        Supplement Lingula Bronchus with
## 7974                                         Supplement Left Lo
## 7975                                                      Supplement
## 7976                                 Supplement Left Lower
## 7977                        Supplement Left Lower Lobe Bronchus wi
## 7978                                Supplement Left Lower Lobe Bro
## 7979                Supplement Left Lower Lobe Bronchus with
## 7980                                                            Sup
## 7981
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## 7984                                       Supplement Dia
## 7985                         Supplement Diaphragm with
## 7986                                         Restricti
## 7987                                         Restricti
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## 7989                Restriction of Right Main B
## 7990                Restriction of Right Main B
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## 7993                                Restriction of
## 7994
## 7995                Restriction of Right Upper Lobe B
## 7996                Restriction of Right Upper Lobe B
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## 7998                        Restriction of
## 7999                        Restriction of
## 8000
## 8001                Restriction of Right Middle Lobe B
## 8002                Restriction of Right Middle Lobe B
## 8003                                         Restrictic
## 8004                                Restriction of
## 8005                                Restriction of
## 8006
## 8007                Restriction of Right Lower Lobe B
## 8008                Restriction of Right Lower Lobe B
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## 8010                                         Restric
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## 8013                Restriction of Left Main B
## 8014                Restriction of Left Main B
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## 8019                                          Restriction of Left Upper Lobe B:
## 8020                                          Restriction of Left Upper Lobe B:
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## 8031                                          Restriction of Left Lower Lobe B:
## 8032                                          Restriction of Left Lower Lobe B:
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## 8071                                    Bypass Right Pleural Cavi
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## 8078                                Bypass Right Pleural Cavity to Left Pleural C
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## 8082                                    Bypass Right Pleural Cavity to Lower
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## 8092                                 Bypass Left Pleural Cavity to Left Pleural C
## 8093                                  Bypass Left Pleural Cavity to Peritoneal C
## 8094                                   Bypass Left Pleural Cavity to Pelvic C
## 8095                                     Bypass Left Pleural Cavity to Upper
## 8096                                    Bypass Left Pleural Cavity to Lower
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## 8288                                    Drainage of Right Superior Parathy
## 8289                                            Drainage of
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## 8292                                     Drainage of Left Superior Parathy
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## 8294                                         Drainage of Rig
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## 8296                                     Drainage of Right Inferior Parathy
## 8297                                            Drainage of
## 8298                                         Drainage of Le
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## 8300                                      Drainage of Left Inferior Parathy
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## 8483          Bypass Cerebral Ventricle to Nasopharynx with Autologous Tissue Substitute, Percutaneou
## 8484          Bypass Cerebral Ventricle to Mastoid Sinus with Autologous Tissue Substitute, Percutaneou
## 8485             Bypass Cerebral Ventricle to Atrium with Autologous Tissue Substitute, Percutaneou
## 8486          Bypass Cerebral Ventricle to Blood Vessel with Autologous Tissue Substitute, Percutaneou
## 8487         Bypass Cerebral Ventricle to Pleural Cavity with Autologous Tissue Substitute, Percutaneou
## 8488            Bypass Cerebral Ventricle to Intestine with Autologous Tissue Substitute, Percutaneou
## 8489     Bypass Cerebral Ventricle to Peritoneal Cavity with Autologous Tissue Substitute, Percutaneou
## 8490        Bypass Cerebral Ventricle to Urinary Tract with Autologous Tissue Substitute, Percutaneou
## 8491          Bypass Cerebral Ventricle to Bone Marrow with Autologous Tissue Substitute, Percutaneou
## 8492                                                      Bypass Cerebral Ventricle to Subgal
## 8493     Bypass Cerebral Ventricle to Cerebral Cisterns with Autologous Tissue Substitute, Percutaneou
## 8494              Bypass Cerebral Ventricle to Nasopharynx with Synthetic Substitute, Percutaneou
## 8495            Bypass Cerebral Ventricle to Mastoid Sinus with Synthetic Substitute, Percutaneou
## 8496                  Bypass Cerebral Ventricle to Atrium with Synthetic Substitute, Percutaneou
## 8497              Bypass Cerebral Ventricle to Blood Vessel with Synthetic Substitute, Percutaneou
## 8498             Bypass Cerebral Ventricle to Pleural Cavity with Synthetic Substitute, Percutaneou
## 8499                 Bypass Cerebral Ventricle to Intestine with Synthetic Substitute, Percutaneou
## 8500         Bypass Cerebral Ventricle to Peritoneal Cavity with Synthetic Substitute, Percutaneou
## 8501            Bypass Cerebral Ventricle to Urinary Tract with Synthetic Substitute, Percutaneou
## 8502             Bypass Cerebral Ventricle to Bone Marrow with Synthetic Substitute, Percutaneou
## 8503                                                      Bypass Cerebral Ventricle to
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## 8504          Bypass Cerebral Ventricle to Cerebral Cisterns with Synthetic Substitute, Percutaneo
## 8505       Bypass Cerebral Ventricle to Nasopharynx with Nonautologous Tissue Substitute, Percutaneo
## 8506      Bypass Cerebral Ventricle to Mastoid Sinus with Nonautologous Tissue Substitute, Percutaneo
## 8507          Bypass Cerebral Ventricle to Atrium with Nonautologous Tissue Substitute, Percutaneo
## 8508       Bypass Cerebral Ventricle to Blood Vessel with Nonautologous Tissue Substitute, Percutaneo
## 8509     Bypass Cerebral Ventricle to Pleural Cavity with Nonautologous Tissue Substitute, Percutaneo
## 8510         Bypass Cerebral Ventricle to Intestine with Nonautologous Tissue Substitute, Percutaneo
## 8511 Bypass Cerebral Ventricle to Peritoneal Cavity with Nonautologous Tissue Substitute, Percutaneo
## 8512     Bypass Cerebral Ventricle to Urinary Tract with Nonautologous Tissue Substitute, Percutaneo
## 8513      Bypass Cerebral Ventricle to Bone Marrow with Nonautologous Tissue Substitute, Percutaneo
## 8514                                                          Bypass Cerebral Ventricle to Subgaleal
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## 8547                                           Bypass Cerebral Ventricle to Cerebral Cisterns with
## 8548                                                                                         Remov
## 8549            Removal of Synthetic Substitute from Cerebral Ventricle, Percutaneo
## 8550                                                            Removal of Synthetic Sul
## 8551                                                                               Rev
## 8552            Revision of Synthetic Substitute in Cerebral Ventricle, Percutaneo
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## 8810                                      Bypass Peritoneal Cavity to Cuta
## 8811                         Bypass Peritoneal Cavity to Right Pleural (
## 8812                          Bypass Peritoneal Cavity to Left Pleural (
## 8813                           Bypass Peritoneal Cavity to Peritoneal (
## 8814                             Bypass Peritoneal Cavity to Pelvic (
## 8815                               Bypass Peritoneal Cavity to Upper
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## 8818                                             Bypass Pelvic Cavity
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## 8825                          Bypass Pelvic Cavity to Right Pleural (
## 8826                           Bypass Pelvic Cavity to Left Pleural (
## 8827                            Bypass Pelvic Cavity to Peritoneal (
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## 8828                                      Bypass Pelvic Cavity to Pelvic C
## 8829                                      Bypass Pelvic Cavity to Upper
## 8830                                      Bypass Pelvic Cavity to Lower
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## 8936                                                         Removal of Infus
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## 8989                                                     Revision of I
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```

```r
#a dataframe print method is being utilized.
```

```r
#defining new generic function 'nUnique'.
nUnique <- function(x) {
    UseMethod('nUnique')
}
```

```r
#6.
#writing a dafault method for 'nUnique' to count number of unique values/ element.
nUnique.default <- function(x) {
  unique_values <- unique(x)
  num_unique <- length(unique_values)
  cat("Number of unique values:", num_unique, "\n")
  return(num_unique)
}
```

```r
#7.
#checking function.
nUnique(letters) # should return 26
```

```
## Number of unique values: 26

## [1] 26
```

```r
nUnique(sample(10, 100, replace = TRUE)) # should return 10 (probably)
```

```
## Number of unique values: 10

## [1] 10
```

```r
#function appears to be working properly

#8.
#writing a data.frame method for 'nUnique' to operate on data.frame objects. Returning counts for each
nUnique.data.frame <- function(x) {
  num_unique <- sapply(x, function(col) length(unique(col)))
  cat("number of unique values for each column:\n")
  print(num_unique)
  return(num_unique)
}

#9.
#checking function with dat.
nUnique(dat)
```

```
## number of unique values for each column:
##     Procedure Code Category          ICD-10-PCS Codes
##                          39                      8993
## Procedure Code Descriptions               Code Status
##                        8993                         6

##     Procedure Code Category          ICD-10-PCS Codes
##                          39                      8993
## Procedure Code Descriptions               Code Status
##                        8993                         6
```

Question 2

15 points

```r
#Question 2, 1.

#Setting RNG seed.
set.seed(8)

# Defining the makePatient function.
makePatient <- function() {
  vowel <- grep("[aeiou]", letters)
  cons <- grep("[^aeiou]", letters)
  name <- paste(sample(LETTERS[cons], 1), sample(letters[vowel], 1), sample(letters[cons], 1), sep='')
```

```r
  gender <- factor(sample(0:1, 1), levels=0:1, labels=c('female','male'))
  dob <- as.Date(sample(7500, 1), origin="1970-01-01")
  n <- sample(6, 1)
  doa <- as.Date(sample(1500, n), origin="2010-01-01")
  pulse <- round(rnorm(n, 80, 10))
  temp <- round(rnorm(n, 98.4, 0.3), 2)
  fluid <- round(runif(n), 2)
  list(name, gender, dob, doa, pulse, temp, fluid)
}

# Defining the medicalRecord class.
medicalRecord <- function(name, gender, dob, doa, pulse, temp, fluid) {
  structure(
    list(
      name = name,
      gender = gender,
      dob = dob,
      doa = doa,
      pulse = pulse,
      temp = temp,
      fluid = fluid
    ),
    class = "medicalRecord"
  )
}

# Defining a print method for the medicalRecord class.
print.medicalRecord <- function(x) {
  cat("Medical Record:\n")
  cat("Name:", x$name, "\n")
  cat("Gender:", levels(x$gender)[x$gender], "\n")
  cat("Date of Birth:", x$dob, "\n")
  cat("Date of Admission:", x$doa, "\n")
  cat("Pulse:", x$pulse, "\n")
  cat("Temperature:", x$temp, "\n")
  cat("Fluid Intake:", x$fluid, "\n")
}

# Generating a medical record using makePatient.
patient_data <- makePatient()
medical_record <- medicalRecord(
  name = patient_data[[1]],
  gender = patient_data[[2]],
  dob = patient_data[[3]],
  doa = patient_data[[4]],
  pulse = patient_data[[5]],
  temp = patient_data[[6]],
  fluid = patient_data[[7]]
)

# Printing the medical record.
print(medical_record)
```

```
## Medical Record:
## Name: Yes
## Gender: male
## Date of Birth: 2679
## Date of Admission: 15865 15888
## Pulse: 79 78
## Temperature: 98.07 97.5
## Fluid Intake: 0.28 0.52
```

```r
# Printing the class of the medical record.
cat("Class of the medical record:", class(medical_record), "\n")
```

```
## Class of the medical record: medicalRecord
```

```r
#2.

# Defining a method for the generic function 'mean' for medicalRecord objects.
mean.medicalRecord <- function(x) {
  # Calculating means for pulse, temperature, and fluid
  pulse_mean <- mean(x$pulse)
  temp_mean <- mean(x$temp)
  fluid_mean <- mean(x$fluid)

  # Returning a named list of means
  list(
    pulse = pulse_mean,
    temperature = temp_mean,
    fluid_intake = fluid_mean
  )
}

# Defining a method for the generic function 'print' for medicalRecord objects.
print.medicalRecord <- function(x) {
  cat("Medical Record:\n")
  cat("Name:", x$name, "\n")
  cat("Gender:", levels(x$gender)[x$gender], "\n")
  cat("Date of Birth:", x$dob, "\n")
  cat("Date of Admission:", x$doa, "\n")
  cat("Pulse:", x$pulse, "\n")
  cat("Temperature:", x$temp, "\n")
  cat("Fluid Intake:", x$fluid, "\n")
}

# Defining a method for the generic function 'plot' for medicalRecord objects.
plot.medicalRecord <- function(x, ...) {
  par(mfrow = c(3, 1), mar = c(4, 4, 2, 1))

  # Plotting pulse over time.
  plot(x$doa, x$pulse, type = "o", main = "Pulse Over Time", xlab = "Date of Admission", ylab = "Pulse"

  # Plotting temperature over time.
  plot(x$doa, x$temp, type = "o", main = "Temperature Over Time", xlab = "Date of Admission", ylab = "T
```

```r
  # Plotting fluid intake over time.
  plot(x$doa, x$fluid, type = "o", main = "Fluid Intake Over Time", xlab = "Date of Admission", ylab =

  par(mfrow = c(1, 1), mar = c(5, 4, 4, 2) + 0.1)
}
```

```r
# Calling the 'mean' method for the medical record.
means <- mean(medical_record)
cat("Means:\n")
```

```
## Means:
```

```r
print(means)
```

```
## $pulse
## [1] 78.5
##
## $temperature
## [1] 97.785
##
## $fluid_intake
## [1] 0.4
```

```r
# Calling the 'print' method for the medical record.
print(medical_record)
```

```
## Medical Record:
## Name: Yes
## Gender: male
## Date of Birth: 2679
## Date of Admission: 15865 15888
## Pulse: 79 78
## Temperature: 98.07 97.5
## Fluid Intake: 0.28 0.52
```

```r
# Calling the 'plot' method for the medical record.
plot(medical_record)
```

Pulse Over Time

Pulse

Date of Admission

Temperature Over Time

Temperature

Date of Admission

Fluid Intake Over Time

Fluid Intake

Date of Admission
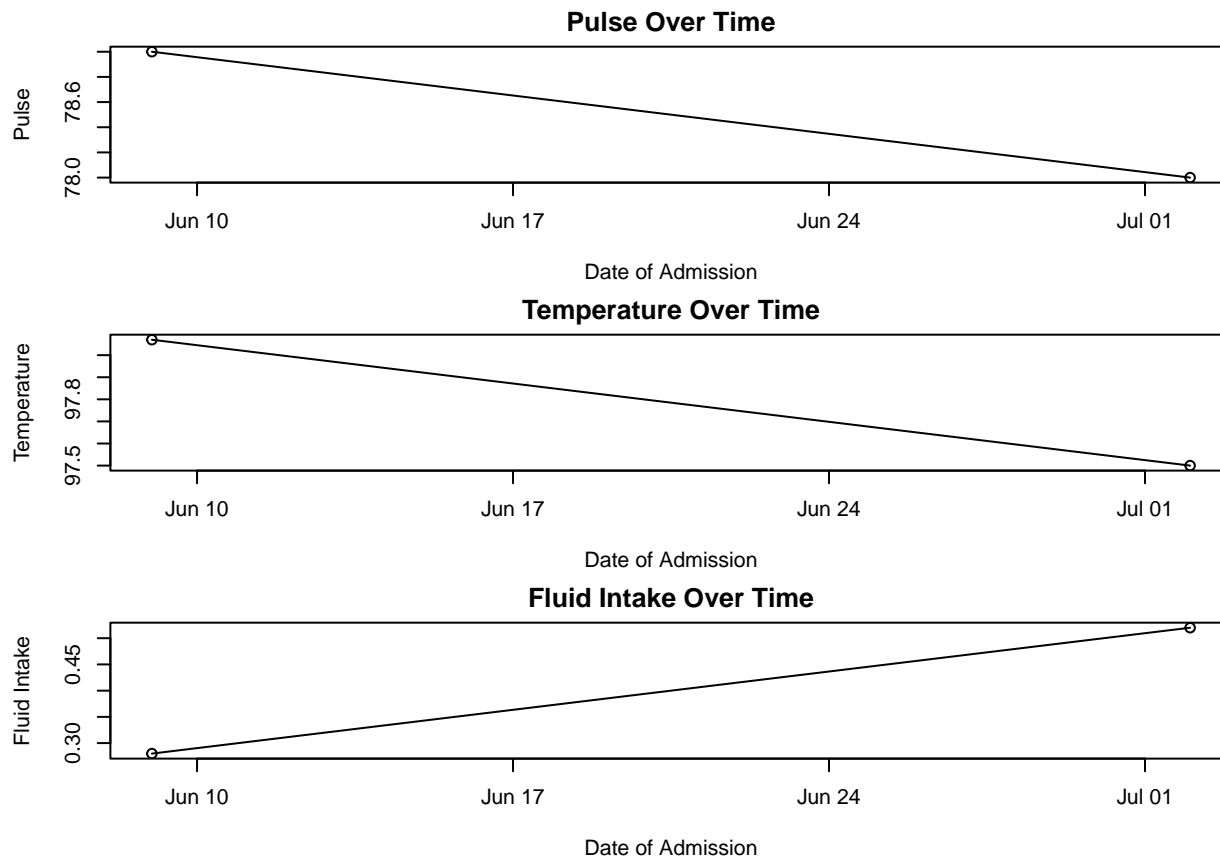
```r
#3.
# Resetting RNG seed to 8
set.seed(8)

# Defining the patientCohort class
patientCohort <- function(patients) {
  structure(
    list(patients = patients),
    class = "patientCohort"
  )
}

# Defining a method for the generic function 'mean' for patientCohort objects
mean.patientCohort <- function(x) {
  # Apply the 'mean' method to each patient in the cohort
  patient_means <- lapply(x$patients, function(patient) {
    numeric_data <- Filter(is.numeric, patient)
    if (length(numeric_data) > 0) {
      means <- sapply(numeric_data, mean)
      names(means) <- names(numeric_data)
      return(means)
    } else {
      return(NULL)
    }
  })
  return(patient_means)
```

```
}

# Defining a method for the generic function 'print' for patientCohort objects
print.patientCohort <- function(x) {
  cat("Patient Cohort:\n")
  # Apply the 'print' method to each patient in the cohort
  lapply(x$patients, print)
}

# Creating a cohort of ten patients
patient_cohort <- patientCohort(replicate(10, makePatient(), simplify = FALSE))

# Showing the output for 'mean' and 'print' for the patient cohort
cat("Means for Patient Cohort:\n")
```

```
## Means for Patient Cohort:
```

```
print(mean(patient_cohort))
```

```
## [[1]]
## [1] 78.500 97.785  0.400
##
## [[2]]
## [1] 86.3333333 98.3966667  0.4133333
##
## [[3]]
## [1] 77.0000 98.6475  0.5200
##
## [[4]]
## [1] 83.1666667 98.4850000  0.2966667
##
## [[5]]
## [1] 83.5000 98.4500  0.4525
##
## [[6]]
## [1] 84.400 98.484  0.522
##
## [[7]]
## [1] 76.5000 98.3800  0.3975
##
## [[8]]
## [1] 75.0000 98.3675  0.5225
##
## [[9]]
## [1] 73.00 98.36  0.15
##
## [[10]]
## [1] 77.00 98.54  0.15
```

```
cat("\nPrint for Patient Cohort:\n")
```

```
##
## Print for Patient Cohort:
```

```
print(patient_cohort)
```

```
## Patient Cohort:
## [[1]]
## [1] "Yes"
##
## [[2]]
## [1] male
## Levels: female male
##
## [[3]]
## [1] "1977-05-03"
##
## [[4]]
## [1] "2013-06-09" "2013-07-02"
##
## [[5]]
## [1] 79 78
##
## [[6]]
## [1] 98.07 97.50
##
## [[7]]
## [1] 0.28 0.52
##
## [[1]]
## [1] "Fal"
##
## [[2]]
## [1] male
## Levels: female male
##
## [[3]]
## [1] "1988-05-24"
##
## [[4]]
## [1] "2010-11-16" "2013-09-12" "2013-03-24"
##
## [[5]]
## [1] 76 96 87
##
## [[6]]
## [1] 98.23 98.75 98.21
##
## [[7]]
## [1] 0.18 0.96 0.10
##
## [[1]]
## [1] "Zog"
##
## [[2]]
## [1] male
## Levels: female male
```

```
## 
## [[3]]
## [1] "1988-12-14"
## 
## [[4]]
## [1] "2013-03-25" "2013-07-29" "2013-10-27" "2010-02-24"
## 
## [[5]]
## [1] 69 75 80 84
## 
## [[6]]
## [1] 98.49 98.82 98.74 98.54
## 
## [[7]]
## [1] 0.81 0.59 0.28 0.40
## 
## [[1]]
## [1] "Yol"
## 
## [[2]]
## [1] male
## Levels: female male
## 
## [[3]]
## [1] "1986-03-11"
## 
## [[4]]
## [1] "2014-01-28" "2013-03-24" "2012-03-10" "2010-02-22" "2011-12-27"
## [6] "2012-11-26"
## 
## [[5]]
## [1] 69 78 87 84 89 92
## 
## [[6]]
## [1] 98.29 98.44 98.78 98.87 98.27 98.26
## 
## [[7]]
## [1] 0.03 0.13 0.12 0.39 0.97 0.14
## 
## [[1]]
## [1] "Yak"
## 
## [[2]]
## [1] female
## Levels: female male
## 
## [[3]]
## [1] "1983-09-15"
## 
## [[4]]
## [1] "2012-08-30" "2012-04-07" "2011-07-19" "2012-07-11"
## 
## [[5]]
## [1] 90 88 75 81
```

```
##
## [[6]]
## [1] 98.58 97.53 98.58 99.11
##
## [[7]]
## [1] 0.26 0.29 0.60 0.66
##
## [[1]]
## [1] "Gaf"
##
## [[2]]
## [1] female
## Levels: female male
##
## [[3]]
## [1] "1978-04-27"
##
## [[4]]
## [1] "2012-04-24" "2010-07-19" "2012-08-06" "2013-08-21" "2011-05-03"
##
## [[5]]
## [1] 89 91 77 75 90
##
## [[6]]
## [1] 98.32 98.01 98.96 98.52 98.61
##
## [[7]]
## [1] 0.42 0.47 0.74 0.62 0.36
##
## [[1]]
## [1] "Kuw"
##
## [[2]]
## [1] female
## Levels: female male
##
## [[3]]
## [1] "1980-11-07"
##
## [[4]]
## [1] "2011-09-16" "2010-10-29" "2012-07-10" "2010-10-03"
##
## [[5]]
## [1] 72 81 71 82
##
## [[6]]
## [1] 98.21 98.17 98.65 98.49
##
## [[7]]
## [1] 0.29 0.93 0.25 0.12
##
## [[1]]
## [1] "Mav"
##
```

```
## [[2]]
## [1] female
## Levels: female male
##
## [[3]]
## [1] "1989-07-16"
##
## [[4]]
## [1] "2012-03-02" "2010-06-11" "2010-02-08" "2010-04-19"
##
## [[5]]
## [1] 63 83 66 88
##
## [[6]]
## [1] 99.07 98.45 97.95 98.00
##
## [[7]]
## [1] 0.01 0.79 0.79 0.50
##
## [[1]]
## [1] "Fel"
##
## [[2]]
## [1] male
## Levels: female male
##
## [[3]]
## [1] "1985-08-16"
##
## [[4]]
## [1] "2012-06-24" "2010-09-26"
##
## [[5]]
## [1] 65 81
##
## [[6]]
## [1] 98.21 98.51
##
## [[7]]
## [1] 0.06 0.24
##
## [[1]]
## [1] "Say"
##
## [[2]]
## [1] female
## Levels: female male
##
## [[3]]
## [1] "1974-09-22"
##
## [[4]]
## [1] "2010-03-14"
##
```

```
## [[5]]
## [1] 77
##
## [[6]]
## [1] 98.54
##
## [[7]]
## [1] 0.15


## [[1]]
## [[1]][[1]]
## [1] "Yes"
##
## [[1]][[2]]
## [1] male
## Levels: female male
##
## [[1]][[3]]
## [1] "1977-05-03"
##
## [[1]][[4]]
## [1] "2013-06-09" "2013-07-02"
##
## [[1]][[5]]
## [1] 79 78
##
## [[1]][[6]]
## [1] 98.07 97.50
##
## [[1]][[7]]
## [1] 0.28 0.52
##
##
## [[2]]
## [[2]][[1]]
## [1] "Fal"
##
## [[2]][[2]]
## [1] male
## Levels: female male
##
## [[2]][[3]]
## [1] "1988-05-24"
##
## [[2]][[4]]
## [1] "2010-11-16" "2013-09-12" "2013-03-24"
##
## [[2]][[5]]
## [1] 76 96 87
##
## [[2]][[6]]
## [1] 98.23 98.75 98.21
##
## [[2]][[7]]
```

```
## [1] 0.18 0.96 0.10
##
##
## [[3]]
## [[3]][[1]]
## [1] "Zog"
##
## [[3]][[2]]
## [1] male
## Levels: female male
##
## [[3]][[3]]
## [1] "1988-12-14"
##
## [[3]][[4]]
## [1] "2013-03-25" "2013-07-29" "2013-10-27" "2010-02-24"
##
## [[3]][[5]]
## [1] 69 75 80 84
##
## [[3]][[6]]
## [1] 98.49 98.82 98.74 98.54
##
## [[3]][[7]]
## [1] 0.81 0.59 0.28 0.40
##
##
## [[4]]
## [[4]][[1]]
## [1] "Yol"
##
## [[4]][[2]]
## [1] male
## Levels: female male
##
## [[4]][[3]]
## [1] "1986-03-11"
##
## [[4]][[4]]
## [1] "2014-01-28" "2013-03-24" "2012-03-10" "2010-02-22" "2011-12-27"
## [6] "2012-11-26"
##
## [[4]][[5]]
## [1] 69 78 87 84 89 92
##
## [[4]][[6]]
## [1] 98.29 98.44 98.78 98.87 98.27 98.26
##
## [[4]][[7]]
## [1] 0.03 0.13 0.12 0.39 0.97 0.14
##
##
## [[5]]
## [[5]][[1]]
```

```
## [1] "Yak"
##
## [[5]][[2]]
## [1] female
## Levels: female male
##
## [[5]][[3]]
## [1] "1983-09-15"
##
## [[5]][[4]]
## [1] "2012-08-30" "2012-04-07" "2011-07-19" "2012-07-11"
##
## [[5]][[5]]
## [1] 90 88 75 81
##
## [[5]][[6]]
## [1] 98.58 97.53 98.58 99.11
##
## [[5]][[7]]
## [1] 0.26 0.29 0.60 0.66
##
##
## [[6]]
## [[6]][[1]]
## [1] "Gaf"
##
## [[6]][[2]]
## [1] female
## Levels: female male
##
## [[6]][[3]]
## [1] "1978-04-27"
##
## [[6]][[4]]
## [1] "2012-04-24" "2010-07-19" "2012-08-06" "2013-08-21" "2011-05-03"
##
## [[6]][[5]]
## [1] 89 91 77 75 90
##
## [[6]][[6]]
## [1] 98.32 98.01 98.96 98.52 98.61
##
## [[6]][[7]]
## [1] 0.42 0.47 0.74 0.62 0.36
##
##
## [[7]]
## [[7]][[1]]
## [1] "Kuw"
##
## [[7]][[2]]
## [1] female
## Levels: female male
##
```

```
## [[7]][[3]]
## [1] "1980-11-07"
##
## [[7]][[4]]
## [1] "2011-09-16" "2010-10-29" "2012-07-10" "2010-10-03"
##
## [[7]][[5]]
## [1] 72 81 71 82
##
## [[7]][[6]]
## [1] 98.21 98.17 98.65 98.49
##
## [[7]][[7]]
## [1] 0.29 0.93 0.25 0.12
##
##
## [[8]]
## [[8]][[1]]
## [1] "Mav"
##
## [[8]][[2]]
## [1] female
## Levels: female male
##
## [[8]][[3]]
## [1] "1989-07-16"
##
## [[8]][[4]]
## [1] "2012-03-02" "2010-06-11" "2010-02-08" "2010-04-19"
##
## [[8]][[5]]
## [1] 63 83 66 88
##
## [[8]][[6]]
## [1] 99.07 98.45 97.95 98.00
##
## [[8]][[7]]
## [1] 0.01 0.79 0.79 0.50
##
##
## [[9]]
## [[9]][[1]]
## [1] "Fel"
##
## [[9]][[2]]
## [1] male
## Levels: female male
##
## [[9]][[3]]
## [1] "1985-08-16"
##
## [[9]][[4]]
## [1] "2012-06-24" "2010-09-26"
##
```

```
## [[9]][[5]]
## [1] 65 81
##
## [[9]][[6]]
## [1] 98.21 98.51
##
## [[9]][[7]]
## [1] 0.06 0.24
##
##
## [[10]]
## [[10]][[1]]
## [1] "Say"
##
## [[10]][[2]]
## [1] female
## Levels: female male
##
## [[10]][[3]]
## [1] "1974-09-22"
##
## [[10]][[4]]
## [1] "2010-03-14"
##
## [[10]][[5]]
## [1] 77
##
## [[10]][[6]]
## [1] 98.54
##
## [[10]][[7]]
## [1] 0.15
```