```
## Warning: package 'knitr' was built under R version 3.2.3
```

```
## Warning: package 'ape' was built under R version 3.2.3
```

```
## [1] "Load the data from the National Ambulatory Care Survey **insert link**"
```

```r
urgentCareOnly.df <- subset(NAMCS.work, NAMCS.work$TYPE4CLASS == "Urgent Care Center/Freestanding Clini

# fixing NAs/blanks
urgentCareOnly.df[c("VYEAR")][is.na(urgentCareOnly.df[c("VYEAR")])] <- 2011 # 2011's got entered blank
urgentCareOnly.df[urgentCareOnly.df == "Blank"] <- NA
urgentCareOnly.df[urgentCareOnly.df == "Missing Data"] <- NA
urgentCareOnly.df[urgentCareOnly.df == "Missing data"] <- NA

# making (maybe not sure this works*) names shorter for visualization
revalue(urgentCareOnly.df$PCTPOVR, c("Missing data"="Missing",
                              "Quartile 1 (Less than 5.00 percent)"="Q1: <5%",
                              "Quartile 2 (5.00-9.99 percent)" = "Q2: 5-10%",
                              "Quartile 3 (10.00-19.99 percent)" = "Q3: 10-20%",
                              "Quartile 4 (20.00 percent or more)" = "Q4: >20%"))
```

```
##    [1] Q3: 10-20% Q2: 5-10%  Q3: 10-20% Q3: 10-20% Q2: 5-10%  Q2: 5-10%
##    [7] Q2: 5-10%  <NA>       <NA>       Q1: <5%    Q3: 10-20% Q1: <5%
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##   [19] Q1: <5%    Q2: 5-10%  Q4: >20%   Q2: 5-10%  Q3: 10-20% Q3: 10-20%
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## Levels: Missing Q1: <5% Q2: 5-10% Q3: 10-20% Q4: >20%
```

```r
revalue(urgentCareOnly.df$PAYTYPER, c("All sources of payment are blank"="Missing", "Worker's compensat
```

```
##    [1] Medicare          Medicaid          Medicaid
##    [4] Medicare          Private insurance Medicare
##    [7] Medicaid          Medicare          Unknown
##   [10] Private insurance Self-pay          Private insurance
##   [13] Other             Medicaid          Medicaid
##   [16] Self-pay          Private insurance Medicaid
##   [19] Medicare          Medicaid          Medicare
##   [22] Private insurance Private insurance Medicare
##   [25] Medicare          Medicare          Private insurance
##   [28] Unknown           Private insurance Private insurance
##   [31] Unknown           Private insurance Private insurance
##   [34] Private insurance Medicare          Other
##   [37] Private insurance Private insurance Medicare
##   [40] Unknown           Worker's Comp     Medicare
##   [43] Private insurance Medicaid          Medicare
##   [46] Medicare          Private insurance Other
##   [49] Medicaid          Private insurance Other
##   [52] Private insurance Private insurance Private insurance
##   [55] Private insurance Private insurance Medicare
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##  [61] Unknown           Other            Private insurance
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##  [70] Private insurance Private insurance Private insurance
##  [73] No charge         Private insurance Private insurance
##  [76] Medicare          Private insurance Private insurance
##  [79] Medicare          Private insurance Private insurance
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##  [85] Private insurance Medicaid         Worker's Comp
##  [88] Medicaid          Private insurance Private insurance
##  [91] Private insurance Other            Medicare
##  [94] Private insurance Private insurance Private insurance
##  [97] Private insurance Unknown          Medicaid
## [100] Medicaid          Private insurance Private insurance
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## [109] Self-pay          Medicare         Medicare
## [112] Private insurance Private insurance Unknown
## [115] Medicaid          Medicare         Private insurance
## [118] Private insurance Private insurance Private insurance
## [121] Private insurance Medicare         Private insurance
## [124] Private insurance Private insurance Other
## [127] Private insurance Private insurance Worker's Comp
## [130] Private insurance Medicare         Medicare
## [133] Unknown           Medicare         Medicare
## [136] Medicaid          Medicare         Private insurance
## [139] Private insurance Private insurance Private insurance
## [142] Medicaid          Private insurance Medicare
## [145] Private insurance Private insurance Private insurance
## [148] Medicare          Medicaid         Medicare
## [151] Medicare          Private insurance Medicare
## [154] Private insurance Medicare         Private insurance
## [157] Private insurance Private insurance Worker's Comp
## [160] Medicare          Medicaid         Medicaid
## [163] Medicare          Medicaid         Private insurance
## [166] Medicaid          Medicaid         Medicaid
## [169] Private insurance Medicare         Medicare
## [172] Medicare          Medicare         Private insurance
## [175] Private insurance Private insurance Medicare
## [178] Private insurance Private insurance Private insurance
## [181] Unknown           Private insurance Unknown
## [184] Unknown           Private insurance Worker's Comp
```

```
## [187] Private insurance Medicare         Medicare
## [190] Medicaid          Medicare         Unknown
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## [196] Private insurance Medicaid         Medicare
## [199] Medicare          Private insurance Private insurance
## [202] Medicare          Private insurance Medicare
## [205] Medicare          Private insurance Private insurance
## [208] Worker's Comp     Private insurance Private insurance
## [211] Medicare          Worker's Comp    Worker's Comp
## [214] Private insurance Private insurance Medicare
## [217] Private insurance Private insurance Medicaid
## [220] Self-pay          Medicare         Worker's Comp
## [223] Medicare          Medicare         Unknown
## [226] Medicare          Private insurance Private insurance
## [229] Medicaid          Private insurance Medicare
## [232] Private insurance Private insurance Private insurance
## [235] Worker's Comp     Private insurance Medicare
## [238] Other             Medicare         Other
## [241] Private insurance Private insurance Private insurance
## [244] Private insurance Private insurance Private insurance
## [247] Medicaid          Medicare         Private insurance
## [250] Private insurance Medicare         Unknown
## [253] Private insurance Private insurance Medicare
## [256] Private insurance Medicare         Private insurance
## [259] Medicaid          Private insurance Self-pay
## [262] Private insurance Private insurance Unknown
## [265] Private insurance Private insurance Worker's Comp
## [268] Private insurance Private insurance Unknown
## [271] Private insurance Medicaid         Private insurance
## [274] Private insurance Private insurance Private insurance
## [277] Private insurance Private insurance Medicare
## [280] Medicaid          Medicare         Medicare
## [283] Medicare          Medicare         Medicare
## [286] Medicare          Private insurance Medicare
## [289] Private insurance Unknown          Medicare
## [292] Private insurance Private insurance Private insurance
## [295] Medicare          Medicare         Private insurance
## [298] Medicare          Private insurance Private insurance
## [301] Medicare          Private insurance Medicare
## [304] Private insurance Medicare         Medicare
## [307] No charge         Private insurance Worker's Comp
## [310] Private insurance Medicare         Private insurance
## [313] Private insurance Private insurance Private insurance
```

```
##  [316] Unknown           Private insurance Medicaid
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##  [322] Medicaid          Private insurance Private insurance
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##  [334] Self-pay          Medicare          Medicare
##  [337] Medicare          Medicaid          Private insurance
##  [340] Private insurance Other             Private insurance
##  [343] Medicare          Medicare          Medicare
##  [346] Other             Medicaid          Private insurance
##  [349] Unknown           Private insurance Medicare
##  [352] Private insurance Worker's Comp     Worker's Comp
##  [355] Private insurance Worker's Comp     Worker's Comp
##  [358] Worker's Comp     Worker's Comp     Medicare
##  [361] Medicaid          Medicare          Unknown
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##  [367] Private insurance Private insurance Private insurance
##  [370] Private insurance Private insurance Private insurance
##  [373] Private insurance Private insurance Private insurance
##  [376] Medicaid          Medicare          Medicaid
##  [379] Medicaid          Worker's Comp     Other
##  [382] Self-pay          Private insurance Private insurance
##  [385] Unknown           Private insurance Private insurance
##  [388] Private insurance Self-pay          Private insurance
##  [391] Self-pay          Private insurance Private insurance
##  [394] Medicare          Medicare          Medicaid
##  [397] Medicare          Medicare          Worker's Comp
##  [400] Medicare          Private insurance Medicaid
##  [403] Private insurance Private insurance Private insurance
##  [406] Private insurance Medicaid          Private insurance
##  [409] Private insurance Private insurance Private insurance
##  [412] Medicare          Private insurance Private insurance
##  [415] Private insurance Medicare          Medicare
##  [418] Private insurance Private insurance Medicaid
##  [421] Worker's Comp     Private insurance Private insurance
##  [424] Private insurance Missing           Medicaid
##  [427] Medicare          Worker's Comp     Medicaid
##  [430] Medicare          No charge         Private insurance
##  [433] Worker's Comp     Medicare          Self-pay
##  [436] Other             Private insurance Medicare
##  [439] Medicare          Other             Medicaid
##  [442] Medicare          Private insurance Medicaid
```

```
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##  [448] Private insurance Medicaid         Private insurance
##  [451] Medicaid          Medicaid         Unknown
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##  [457] Private insurance Unknown          Self-pay
##  [460] Medicare          Private insurance Private insurance
##  [463] Private insurance Medicare         Medicare
##  [466] Medicaid          Medicare         Medicaid
##  [469] Private insurance Private insurance Private insurance
##  [472] Worker's Comp     Worker's Comp    Medicare
##  [475] Private insurance Worker's Comp    Worker's Comp
##  [478] Self-pay          Private insurance Private insurance
##  [481] Private insurance Private insurance Private insurance
##  [484] Medicare          Private insurance Worker's Comp
##  [487] Private insurance Private insurance Private insurance
##  [490] Private insurance Medicare         Medicare
##  [493] Worker's Comp     Private insurance Private insurance
##  [496] Medicare          Medicare         Private insurance
##  [499] Medicare          Private insurance Medicare
##  [502] Private insurance Medicare         Private insurance
##  [505] Medicaid          Medicaid         Private insurance
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##  [511] Missing           Medicaid         Medicare
##  [514] Private insurance Self-pay         Medicare
##  [517] Private insurance Medicaid         Private insurance
##  [520] Self-pay          Self-pay         Self-pay
##  [523] Self-pay          Self-pay         Worker's Comp
##  [526] Medicare          Private insurance Medicare
##  [529] Medicare          Worker's Comp    Private insurance
##  [532] Private insurance Medicare         Self-pay
##  [535] Medicare          Medicaid         Medicare
##  [538] Medicare          Self-pay         Private insurance
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##  [544] Private insurance Medicaid         Private insurance
##  [547] Private insurance Medicare         Medicaid
##  [550] Private insurance Other            Worker's Comp
##  [553] Medicare          Private insurance Medicare
##  [556] Medicare          Private insurance Private insurance
##  [559] Private insurance Medicare         Medicaid
##  [562] Private insurance Private insurance Private insurance
##  [565] Medicare          Private insurance Medicare
##  [568] Medicare          Unknown          Self-pay
##  [571] Medicaid          Private insurance Private insurance
```

```
## [574] Medicaid          Medicaid          Medicaid
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## [580] Worker's Comp     Private insurance Private insurance
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## [604] Medicare          Medicaid          Medicare
## [607] Private insurance No charge         Private insurance
## [610] Other             Private insurance Self-pay
## [613] Private insurance Medicare          Medicare
## [616] Medicare          Worker's Comp     Medicare
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## [622] Self-pay          Private insurance Private insurance
## [625] Private insurance Private insurance Private insurance
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## [634] Private insurance Self-pay          Medicaid
## [637] Private insurance Other             Self-pay
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## [649] Medicare          Medicare          Self-pay
## [652] Private insurance Medicaid          Medicare
## [655] Worker's Comp     Private insurance Medicare
## [658] Private insurance Self-pay          Private insurance
## [661] Medicare          Private insurance Private insurance
## [664] Private insurance Worker's Comp     Private insurance
## [667] Private insurance Medicare          Medicare
## [670] Medicare          Worker's Comp     Medicare
## [673] Private insurance Medicaid          Medicare
## [676] Medicare          Private insurance Private insurance
## [679] Self-pay          Self-pay          Self-pay
## [682] Medicare          Worker's Comp     Private insurance
## [685] Private insurance Private insurance Private insurance
## [688] Private insurance Medicare          Private insurance
## [691] Medicare          Medicare          Medicare
## [694] Medicare          Private insurance Private insurance
## [697] Unknown           Private insurance Private insurance
## [700] Other             Private insurance Unknown
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```
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## [715] Private insurance Medicare          Medicare
## [718] Medicare          Medicaid          Private insurance
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## [724] Self-pay          Private insurance Medicaid
## [727] Medicare          Private insurance Medicare
## [730] Private insurance Worker's Comp     Private insurance
## [733] Private insurance Self-pay          Private insurance
## [736] Private insurance Private insurance Medicare
## [739] Private insurance Private insurance Private insurance
## [742] Self-pay          Private insurance Medicare
## [745] Self-pay          Private insurance Medicare
## [748] Unknown           Private insurance Missing
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## [766] Private insurance Missing           Medicare
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## [781] Private insurance Private insurance Private insurance
## [784] Unknown           Missing           Private insurance
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## [790] Worker's Comp     Medicare          Private insurance
## [793] Worker's Comp     Private insurance Medicaid
## [796] Medicaid          Private insurance Private insurance
## [799] Private insurance Private insurance Medicaid
## [802] Private insurance Private insurance Medicaid
## [805] Private insurance Private insurance Private insurance
## [808] Private insurance Medicare          Private insurance
## [811] Private insurance Worker's Comp     Medicaid
## [814] Private insurance Medicare          Other
## [817] Worker's Comp     Other             Worker's Comp
## [820] Worker's Comp     Medicare          Private insurance
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## [826] Medicare          Medicare          Private insurance
## [829] Self-pay          Private insurance Private insurance
```

```
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## [844] Private insurance Medicare         Missing
## [847] Private insurance Medicare         Medicare
## [850] Private insurance Unknown          Worker's Comp
## [853] Medicaid          Private insurance Private insurance
## [856] Medicare          Medicare         Medicare
## [859] Medicare          Private insurance Self-pay
## [862] Other             Medicare         Self-pay
## [865] Medicare          Private insurance Medicare
## [868] Private insurance Private insurance Other
## [871] Private insurance Medicare         Private insurance
## [874] Medicare          Private insurance Medicare
## [877] Private insurance Medicare         Worker's Comp
## [880] Private insurance Private insurance Medicaid
## [883] Private insurance Private insurance Medicare
## [886] Missing           Medicare         No charge
## [889] Private insurance Other            Private insurance
## [892] Medicaid          Medicare         Medicare
## [895] Medicaid          Medicare         Other
## [898] Private insurance Medicare         Medicaid
## [901] Private insurance Self-pay         Unknown
## [904] Medicare          Medicare         No charge
## [907] Other             Private insurance Self-pay
## [910] Medicare          Medicare         Private insurance
## [913] Self-pay          Private insurance Unknown
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## [919] Private insurance Medicaid         Medicare
## [922] Medicare          Private insurance Medicaid
## [925] Medicaid          Medicare         Medicare
## [928] Medicare          Private insurance Private insurance
## [931] Medicaid          Medicaid         Private insurance
## [934] Private insurance Private insurance Private insurance
## [937] Private insurance Medicare         Private insurance
## [940] Private insurance Private insurance Private insurance
## [943] Medicare          Private insurance Medicare
## [946] Medicare          Private insurance Private insurance
## [949] Medicare          Private insurance Private insurance
## [952] Medicare          Private insurance Other
## [955] Private insurance Private insurance Medicare
## [958] Medicare          Medicaid         Other
```

```
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##  [964] Medicare          Medicare          Unknown
##  [967] Private insurance Private insurance Medicare
##  [970] Medicare          Medicare          Private insurance
##  [973] Private insurance Medicare          Private insurance
##  [976] Worker's Comp     Private insurance Medicare
##  [979] Medicaid          Private insurance Self-pay
##  [982] Medicaid          Medicare          Private insurance
##  [985] Medicare          Private insurance Private insurance
##  [988] Private insurance Private insurance Medicare
##  [991] Medicare          Medicare          Private insurance
##  [994] Private insurance Private insurance Private insurance
##  [997] Medicaid          Worker's Comp     Private insurance
## [1000] Private insurance Private insurance Private insurance
## [1003] Medicare          Medicare          Private insurance
## [1006] Medicaid          Private insurance Private insurance
## [1009] Private insurance Missing           Medicare
## [1012] Private insurance Private insurance Unknown
## [1015] Unknown           Private insurance Medicare
## [1018] Private insurance Private insurance Medicare
## [1021] Private insurance Worker's Comp     Medicare
## [1024] Medicare          Medicare          Medicaid
## [1027] Unknown           Worker's Comp     Other
## [1030] Private insurance Private insurance Private insurance
## [1033] Self-pay          Self-pay          Self-pay
## [1036] Self-pay          Self-pay          Medicare
## [1039] Private insurance Private insurance Medicare
## [1042] Private insurance Private insurance Worker's Comp
## [1045] Medicaid          Medicare          Medicaid
## [1048] Worker's Comp     Private insurance Private insurance
## [1051] Private insurance Private insurance Self-pay
## [1054] Unknown           Other             Other
## [1057] Medicare          Medicare          Medicaid
## [1060] Medicare          Worker's Comp     Other
## [1063] Medicare          Private insurance Medicare
## [1066] Private insurance Medicaid          Private insurance
## [1069] Medicare          Medicare          Self-pay
## [1072] Private insurance Private insurance Private insurance
## [1075] Private insurance Medicare          Unknown
## [1078] Medicaid          Self-pay          Medicare
## [1081] Worker's Comp     Medicare          Private insurance
## [1084] Private insurance Medicare          Private insurance
## [1087] Private insurance Medicare          Medicaid
```

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## [1093] Self-pay          Medicare          Private insurance
## [1096] Private insurance Private insurance Medicare
## [1099] Medicaid          Medicare          Private insurance
## [1102] Private insurance Medicaid          Medicare
## [1105] Private insurance Private insurance No charge
## [1108] Private insurance Medicare          Medicare
## [1111] Medicare          Private insurance Medicaid
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## [1129] Medicaid          Self-pay          Private insurance
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## [1138] Medicare          Medicare          Private insurance
## [1141] Self-pay          Private insurance Unknown
## [1144] Private insurance Medicaid          Private insurance
## [1147] Medicare          Medicare          Medicare
## [1150] Medicare          Medicare          Private insurance
## [1153] Medicare          Medicare          Medicare
## [1156] Private insurance Private insurance Private insurance
## [1159] Private insurance Unknown           Private insurance
## [1162] Medicaid          Private insurance Private insurance
## [1165] Private insurance Private insurance Private insurance
## [1168] No charge         Unknown           Private insurance
## [1171] Private insurance Medicare          Private insurance
## [1174] Private insurance Private insurance Private insurance
## [1177] Medicare          Self-pay          Private insurance
## [1180] Medicare          Private insurance Other
## [1183] Private insurance Unknown           Medicare
## [1186] Private insurance Private insurance Unknown
## [1189] Private insurance Unknown           Worker's Comp
## [1192] Private insurance Medicare          Private insurance
## [1195] Unknown           Private insurance Private insurance
## [1198] Private insurance Worker's Comp     Medicaid
## [1201] Private insurance Worker's Comp     Medicare
## [1204] Unknown           Medicaid          Self-pay
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## [1210] Medicare          Private insurance Private insurance
## [1213] Medicaid          Private insurance Private insurance
## [1216] Private insurance Unknown           Private insurance
```

```
## [1219] Private insurance Medicare         Medicare
## [1222] Private insurance Medicare         Private insurance
## [1225] Medicaid          Worker's Comp    Private insurance
## [1228] Medicare          Private insurance Medicare
## [1231] Medicare          Medicare         Medicare
## [1234] Private insurance Medicare         Medicare
## [1237] Medicare          Medicare         Private insurance
## [1240] Medicaid          Medicare         Private insurance
## [1243] Private insurance Medicare         Self-pay
## [1246] Medicaid          Medicare         Private insurance
## [1249] Private insurance Unknown          Medicare
## [1252] Medicare          Medicare         Medicare
## [1255] Private insurance Other            Private insurance
## [1258] Private insurance Self-pay         Other
## [1261] Private insurance Medicaid         Private insurance
## [1264] Private insurance Other            Medicare
## [1267] Private insurance Private insurance Private insurance
## [1270] Private insurance Private insurance Private insurance
## [1273] Private insurance Private insurance Medicare
## [1276] Medicare          Medicaid         Private insurance
## [1279] Medicare          Medicare         Private insurance
## [1282] Private insurance Unknown          Private insurance
## [1285] Medicare          Private insurance Private insurance
## [1288] Private insurance Private insurance Private insurance
## [1291] Medicare          Medicaid         Medicare
## [1294] Medicare          Medicare         Unknown
## [1297] Private insurance Private insurance Private insurance
## [1300] Self-pay          Medicaid         Private insurance
## [1303] Self-pay          Worker's Comp    Private insurance
## [1306] Private insurance Private insurance Worker's Comp
## [1309] Private insurance Private insurance Private insurance
## [1312] Private insurance Medicaid         Medicare
## [1315] Medicare          Private insurance Other
## [1318] Private insurance Private insurance Private insurance
## [1321] Medicare          Medicare         Medicare
## [1324] Self-pay          Self-pay         Private insurance
## [1327] Private insurance Private insurance Private insurance
## [1330] Unknown           Unknown          Medicaid
## [1333] Medicaid          Private insurance Unknown
## [1336] Medicare          Private insurance Private insurance
## [1339] Medicare          Medicaid         Unknown
## [1342] Private insurance Medicare         Medicare
## [1345] Medicare          Private insurance Other
```

```
## [1348] Worker's Comp    Medicaid         Medicare
## [1351] Unknown          Medicare         Medicare
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## [1357] Private insurance Private insurance Private insurance
## [1360] Private insurance Self-pay         Private insurance
## [1363] Private insurance Self-pay         Private insurance
## [1366] Other            Self-pay         Private insurance
## [1369] Medicare         Medicare         Worker's Comp
## [1372] Unknown          Private insurance Private insurance
## [1375] Private insurance Private insurance Medicare
## [1378] Private insurance Private insurance Private insurance
## [1381] Private insurance Private insurance Medicare
## [1384] Self-pay         Medicare         Worker's Comp
## [1387] Medicaid         Medicare         Medicare
## [1390] Unknown          Medicare         Unknown
## [1393] Medicaid         Other            Private insurance
## [1396] Private insurance Unknown          Worker's Comp
## [1399] Medicare         Private insurance Worker's Comp
## [1402] Private insurance Private insurance Unknown
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## [1408] Medicaid         Worker's Comp     Private insurance
## [1411] Private insurance Private insurance Private insurance
## [1414] Private insurance Worker's Comp     Private insurance
## [1417] Private insurance Medicare         Medicare
## [1420] Medicare         Medicare         Medicare
## [1423] Private insurance Private insurance Private insurance
## [1426] Private insurance Medicare         Medicare
## [1429] Private insurance Private insurance Medicare
## [1432] Private insurance Medicare         Worker's Comp
## [1435] Medicare         Private insurance Private insurance
## [1438] Other            Private insurance Private insurance
## [1441] Worker's Comp    Medicare         Medicare
## [1444] Medicaid         Private insurance Medicare
## [1447] Medicare         Medicare         Private insurance
## [1450] Medicare         Medicare         Private insurance
## [1453] Medicare         Medicare         Self-pay
## [1456] Private insurance Medicare         Medicare
## [1459] Private insurance Medicare         Private insurance
## [1462] Private insurance Medicare         Unknown
## [1465] Medicare         Private insurance Private insurance
## [1468] Medicaid         Medicare         Medicare
## [1471] Medicaid         Medicare         Worker's Comp
## [1474] Private insurance Private insurance Unknown
```

```
## [1477] Unknown           Private insurance Unknown
## [1480] Private insurance Worker's Comp     Private insurance
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## [1486] Private insurance Private insurance Self-pay
## [1489] Medicare          Private insurance Worker's Comp
## [1492] Private insurance Medicare          Medicare
## [1495] Medicare          Medicare          Private insurance
## [1498] Private insurance Medicare          Private insurance
## [1501] Private insurance Unknown           Private insurance
## [1504] Worker's Comp     Unknown           Self-pay
## [1507] Self-pay          Self-pay          Self-pay
## [1510] Medicare          Medicare          Worker's Comp
## [1513] Medicare          Worker's Comp     Medicaid
## [1516] Medicare          Medicare          No charge
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## [1525] Self-pay          Private insurance Medicare
## [1528] Medicare          Private insurance Private insurance
## [1531] Private insurance Private insurance Private insurance
## [1534] Medicaid          Medicare          Private insurance
## [1537] Medicaid          Private insurance Private insurance
## [1540] Medicaid          Medicare          Medicare
## [1543] Private insurance Worker's Comp     Medicare
## [1546] Medicare          Medicare          Medicare
## [1549] Medicare          Medicare          Medicaid
## [1552] Medicare          Private insurance Medicare
## [1555] Unknown           Medicare          Medicare
## [1558] Medicare          Private insurance Medicare
## [1561] Self-pay          Private insurance Private insurance
## [1564] Worker's Comp     Private insurance Private insurance
## [1567] Medicare          Private insurance Private insurance
## [1570] Private insurance Medicare          Worker's Comp
## [1573] Medicare          Private insurance Unknown
## [1576] Private insurance Private insurance Self-pay
## [1579] Self-pay          Self-pay          Medicaid
## [1582] Private insurance Private insurance Private insurance
## [1585] Private insurance Self-pay          Medicare
## [1588] Private insurance Medicare          Private insurance
## [1591] Private insurance Private insurance Private insurance
## [1594] Private insurance Private insurance Private insurance
## [1597] Private insurance Medicaid          Medicare
## [1600] Private insurance Medicare          Self-pay
## [1603] Private insurance Other             Unknown
```

```
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## [1609] Private insurance Medicare         Private insurance
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## [1618] Missing           Private insurance Private insurance
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## [1624] Private insurance Medicare          Medicare
## [1627] Private insurance Medicare          Unknown
## [1630] Private insurance Medicaid          Private insurance
## [1633] Medicare          Private insurance Private insurance
## [1636] Medicaid          Private insurance Private insurance
## [1639] Other             Private insurance Private insurance
## [1642] Medicaid          Private insurance Private insurance
## [1645] Unknown           Private insurance Private insurance
## [1648] Medicare          Medicare          Private insurance
## [1651] Unknown           Medicare          Medicaid
## [1654] Medicare          Private insurance Worker's Comp
## [1657] Medicare          Private insurance Private insurance
## [1660] Private insurance Medicaid          Medicare
## [1663] Private insurance Private insurance Medicare
## [1666] Other             Other             Medicare
## [1669] Private insurance Private insurance Private insurance
## [1672] Private insurance Unknown           Other
## [1675] Medicaid          Private insurance Medicare
## [1678] Medicare          Worker's Comp     Medicaid
## [1681] Other             Other             Other
## [1684] Worker's Comp     No charge         Other
## [1687] Other             Medicare          Medicaid
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## [1693] Medicare          Private insurance Medicare
## [1696] Medicare          Private insurance Private insurance
## [1699] Medicare          Medicaid          Medicare
## [1702] Unknown           Private insurance Other
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## [1708] Private insurance Private insurance Private insurance
## [1711] Medicare          Worker's Comp     Medicare
## [1714] Private insurance Private insurance Medicare
## [1717] Medicare          Medicaid          Private insurance
## [1720] Private insurance Self-pay          Worker's Comp
## [1723] Unknown           Private insurance Unknown
## [1726] Worker's Comp     Private insurance Medicare
## [1729] Private insurance Medicaid          Private insurance
## [1732] Private insurance Private insurance Medicaid
```

```
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## [1747] Private insurance Private insurance Medicaid
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## [1759] Self-pay          Medicaid          Private insurance
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## [1765] Private insurance Self-pay          Worker's Comp
## [1768] Private insurance Medicare          Private insurance
## [1771] Medicare          Worker's Comp     Private insurance
## [1774] Private insurance Medicaid          Private insurance
## [1777] Medicaid          Medicare          Private insurance
## [1780] Medicare          Medicare          Medicaid
## [1783] Private insurance Private insurance Private insurance
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## [1789] Medicare          Unknown           Private insurance
## [1792] Private insurance Unknown           Private insurance
## [1795] Private insurance Self-pay          Medicare
## [1798] Private insurance Medicare          Medicare
## [1801] Unknown           Worker's Comp     Private insurance
## [1804] Other             Medicare          Private insurance
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## [1810] Medicaid          Private insurance Private insurance
## [1813] Private insurance Private insurance Worker's Comp
## [1816] Private insurance Private insurance Medicare
## [1819] Medicare          Private insurance Private insurance
## [1822] Private insurance Self-pay          Self-pay
## [1825] Worker's Comp     Self-pay          Private insurance
## [1828] Medicare          Worker's Comp     Worker's Comp
## [1831] Medicare          Private insurance Private insurance
## [1834] Private insurance Medicare          Private insurance
## [1837] Private insurance Medicare          Unknown
## [1840] Private insurance Private insurance Medicare
## [1843] Missing           Medicare          Worker's Comp
## [1846] Self-pay          Private insurance Private insurance
## [1849] Private insurance Medicare          Private insurance
## [1852] Private insurance Private insurance Private insurance
## [1855] Private insurance Medicaid          Medicare
## [1858] Medicare          Private insurance Private insurance
## [1861] Medicare          Private insurance Medicare
```

```
## [1864] Medicaid           Medicare          Missing
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## [1882] Medicare           Private insurance Private insurance
## [1885] Private insurance Other             Medicare
## [1888] Medicare           Medicare          Private insurance
## [1891] Self-pay           Medicare          Private insurance
## [1894] Private insurance Private insurance Private insurance
## [1897] Private insurance Medicare          Missing
## [1900] Private insurance Private insurance Private insurance
## [1903] Private insurance Self-pay          No charge
## [1906] Medicare           Medicare          Private insurance
## [1909] Medicare           Private insurance Medicaid
## [1912] Private insurance Medicare          Private insurance
## [1915] Medicare           Unknown           Private insurance
## [1918] Worker's Comp      Medicaid          Medicaid
## [1921] Medicare           Private insurance Unknown
## [1924] Private insurance Private insurance Other
## [1927] Private insurance Self-pay          Private insurance
## [1930] Other              Self-pay          No charge
## [1933] Medicare           Self-pay          Unknown
## [1936] Medicaid           Medicaid          Medicaid
## [1939] Private insurance Private insurance Private insurance
## [1942] Private insurance Self-pay          Private insurance
## [1945] Worker's Comp      Private insurance Medicaid
## [1948] Medicaid           Medicare          Medicare
## [1951] Medicare           Private insurance Private insurance
## [1954] Private insurance Medicaid          Private insurance
## [1957] Private insurance Private insurance Private insurance
## [1960] Missing            Private insurance Medicare
## [1963] Medicaid           Private insurance Other
## [1966] Unknown            Medicaid          Private insurance
## [1969] Medicare           Medicare          Medicaid
## [1972] Medicare           Private insurance Medicare
## [1975] Unknown            Private insurance Private insurance
## [1978] Private insurance Medicare          Private insurance
## [1981] Private insurance Medicaid          Medicare
## [1984] Medicare           Private insurance Medicare
## [1987] Medicare           Private insurance Private insurance
## [1990] Self-pay           Private insurance Worker's Comp
```

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## [1993] Medicaid          Private insurance Medicare
## [1996] Medicare          Worker's Comp    Worker's Comp
## [1999] Medicare          Medicare         Missing
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## [2005] Self-pay          Private insurance Private insurance
## [2008] Private insurance Private insurance Private insurance
## [2011] Private insurance Private insurance Medicare
## [2014] Private insurance Self-pay         Private insurance
## [2017] Private insurance Medicare         Unknown
## [2020] Private insurance Private insurance Medicaid
## [2023] Private insurance Private insurance Private insurance
## [2026] Medicaid          Medicaid         Self-pay
## [2029] Medicare          Private insurance Medicare
## [2032] Private insurance Other            Medicare
## [2035] Medicare          Missing          Private insurance
## [2038] Private insurance Other            Medicare
## [2041] Private insurance Medicaid         Medicare
## [2044] Private insurance Worker's Comp    Medicare
## [2047] Private insurance Medicare         Private insurance
## [2050] Self-pay          No charge        Unknown
## [2053] Private insurance Worker's Comp    Private insurance
## [2056] Other             Private insurance Medicare
## [2059] Private insurance Medicare         Medicare
## [2062] Medicare          Private insurance Private insurance
## [2065] Private insurance Medicare         Self-pay
## [2068] Medicare          Self-pay         Private insurance
## [2071] Unknown           Medicare         Private insurance
## [2074] Private insurance Medicare         Medicare
## [2077] Private insurance Unknown          Private insurance
## [2080] Medicare          Private insurance Medicaid
## [2083] Medicare          Unknown          Private insurance
## [2086] Private insurance Medicare         Medicaid
## [2089] Private insurance Self-pay         Self-pay
## [2092] Private insurance Medicaid         Medicare
## [2095] Medicare          Medicare         Other
## [2098] Worker's Comp     Worker's Comp    Worker's Comp
## [2101] Other             Private insurance Medicaid
## [2104] Medicaid          Medicare         Other
## [2107] Private insurance Private insurance Medicare
## [2110] Medicare          Private insurance Medicaid
## [2113] Medicare          Medicaid         Private insurance
## [2116] Medicare          Private insurance Other
## [2119] Other             Private insurance Medicare
```

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## [2122] Private insurance Medicaid          Medicaid
## [2125] Medicare          Private insurance Medicare
## [2128] Private insurance Private insurance Medicare
## [2131] Self-pay          Private insurance Private insurance
## [2134] Private insurance Medicare          Medicare
## [2137] Medicare          Medicare          Private insurance
## [2140] Medicare          Medicaid          Private insurance
## [2143] Medicare          Private insurance Medicare
## [2146] Private insurance Medicaid          Private insurance
## [2149] Medicare          Medicare          Private insurance
## [2152] Private insurance Medicaid          Private insurance
## [2155] Private insurance Private insurance Medicare
## [2158] Medicare          Medicare          Private insurance
## [2161] Medicare          Medicare          Unknown
## [2164] Private insurance Private insurance Medicaid
## [2167] Unknown           Private insurance Medicare
## [2170] Medicare          Private insurance Private insurance
## [2173] Missing           Private insurance Private insurance
## [2176] Self-pay          Worker's Comp     Medicaid
## [2179] Private insurance Medicaid          Private insurance
## [2182] Private insurance Medicaid          Unknown
## [2185] Private insurance Private insurance Private insurance
## [2188] Private insurance Private insurance Private insurance
## [2191] Private insurance Medicaid          Medicare
## [2194] Private insurance Other             Private insurance
## [2197] Medicare          Private insurance Private insurance
## [2200] Self-pay          Private insurance Worker's Comp
## [2203] Medicare          Medicare          Medicare
## [2206] Private insurance Medicaid          Other
## [2209] Private insurance Self-pay          Private insurance
## [2212] Medicare          Self-pay          Self-pay
## [2215] Self-pay          Private insurance Medicaid
## [2218] Private insurance Medicare          Private insurance
## [2221] Private insurance Other             Private insurance
## [2224] Private insurance Private insurance Medicaid
## [2227] Private insurance Private insurance Unknown
## [2230] Private insurance Medicaid          Private insurance
## [2233] Self-pay          Medicare          Private insurance
## [2236] Private insurance Private insurance Unknown
## [2239] Private insurance Private insurance Private insurance
## [2242] Other             Medicaid          Unknown
## [2245] Medicare          Medicare          Private insurance
## [2248] Private insurance Worker's Comp     Private insurance
```

```
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## [2254] Private insurance Private insurance Medicare
## [2257] Medicare          Medicare          Medicare
## [2260] Private insurance Private insurance Medicare
## [2263] Medicare          Private insurance Private insurance
## [2266] Private insurance Private insurance Medicare
## [2269] Private insurance Unknown           Private insurance
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## [2275] Private insurance Medicare          Private insurance
## [2278] Medicare          Private insurance Private insurance
## [2281] Private insurance Medicare          Medicare
## [2284] Medicaid          Private insurance Private insurance
## [2287] No charge         Medicare          Private insurance
## [2290] Private insurance Medicare          Private insurance
## [2293] Medicaid          Private insurance Medicare
## [2296] Private insurance Private insurance Medicare
## [2299] Private insurance Medicaid          Medicaid
## [2302] Private insurance Medicare          Private insurance
## [2305] Private insurance Private insurance Private insurance
## [2308] Private insurance Medicare          Medicare
## [2311] Medicare          Medicare          Medicaid
## [2314] Private insurance Private insurance Medicare
## [2317] Medicaid          Private insurance Private insurance
## [2320] Medicare          Medicare          Unknown
## [2323] Medicare          Private insurance Private insurance
## [2326] Private insurance Private insurance Private insurance
## [2329] Private insurance Private insurance Medicare
## [2332] Private insurance Self-pay          Medicare
## [2335] Worker's Comp     Medicaid          Medicaid
## [2338] Private insurance Private insurance Worker's Comp
## [2341] Medicaid          Medicaid          Self-pay
## [2344] Other             Private insurance Medicaid
## [2347] Private insurance Private insurance Worker's Comp
## [2350] Medicare          Private insurance Private insurance
## [2353] Private insurance Private insurance Private insurance
## [2356] Private insurance Private insurance Private insurance
## [2359] Private insurance Medicare          Private insurance
## [2362] Self-pay          Private insurance Medicaid
## [2365] Other             Private insurance Other
## [2368] Medicare          Medicare          Private insurance
## [2371] Private insurance Medicare          Medicare
## [2374] Private insurance Medicare          Medicare
## [2377] Private insurance Medicaid          Medicare
```

```
## [2380] Worker's Comp      Medicare          Medicare
## [2383] Private insurance Worker's Comp     Medicare
## [2386] Medicaid          Medicaid          Medicare
## [2389] Private insurance Medicare          Medicaid
## [2392] Unknown           Private insurance Medicare
## [2395] Medicare          Unknown           Private insurance
## [2398] Medicaid          Private insurance Medicare
## [2401] Private insurance Medicare          Worker's Comp
## [2404] Private insurance Medicaid          Private insurance
## [2407] Medicaid          Unknown           Private insurance
## [2410] Medicare          Private insurance Worker's Comp
## [2413] Private insurance Medicare          Other
## [2416] Medicare          Private insurance Medicare
## [2419] Medicare          Medicare          Private insurance
## [2422] Private insurance Medicare          Private insurance
## [2425] Medicare          Other             Private insurance
## [2428] Medicare          Private insurance Private insurance
## [2431] Private insurance Medicaid          Unknown
## [2434] Private insurance Medicare          Private insurance
## [2437] Medicare          Unknown           Private insurance
## [2440] Private insurance Medicare          Private insurance
## [2443] Private insurance Medicare          Worker's Comp
## [2446] Private insurance Private insurance Private insurance
## [2449] Unknown           Other             Private insurance
## [2452] Medicare          Medicare          Worker's Comp
## [2455] Medicare          Private insurance Unknown
## [2458] Private insurance Unknown           Medicare
## [2461] Private insurance Medicare          Private insurance
## [2464] Medicaid          Medicaid          Medicaid
## [2467] Private insurance Medicare          Medicaid
## [2470] Self-pay          Unknown           Private insurance
## [2473] Private insurance Medicare          Medicare
## [2476] Private insurance Unknown           Private insurance
## [2479] Medicare          Private insurance Medicaid
## [2482] Private insurance No charge         Unknown
## [2485] Medicaid          Medicare          Medicare
## [2488] Private insurance Medicaid          Self-pay
## [2491] Medicare          Worker's Comp     Private insurance
## [2494] Medicaid          Medicare          Private insurance
## [2497] Private insurance Private insurance Private insurance
## [2500] Unknown           Private insurance Private insurance
## [2503] Self-pay          Medicare          Medicare
## [2506] Self-pay          Unknown           Medicaid
```

```
## [2509] Missing            Medicare         Private insurance
## [2512] Medicaid           Unknown          Medicare
## [2515] Medicare           Private insurance Private insurance
## [2518] Private insurance Worker's Comp     Private insurance
## [2521] Medicare           Medicare         Medicare
## [2524] Private insurance Medicare          Private insurance
## [2527] Medicare           Medicaid         Private insurance
## [2530] Private insurance Private insurance Private insurance
## [2533] Medicaid           Private insurance Private insurance
## [2536] Private insurance Private insurance Private insurance
## [2539] Private insurance Private insurance Medicare
## [2542] Private insurance Medicare          Private insurance
## [2545] Other              Private insurance Private insurance
## [2548] Private insurance Medicare          Private insurance
## [2551] Medicaid           Private insurance Self-pay
## [2554] Private insurance Medicare          Private insurance
## [2557] Medicaid           Private insurance Private insurance
## [2560] Private insurance Private insurance Private insurance
## [2563] Worker's Comp      Medicaid         Medicare
## [2566] Missing            Medicaid         Private insurance
## [2569] Private insurance Worker's Comp     Private insurance
## [2572] Medicare           Self-pay         Worker's Comp
## [2575] Medicaid           Private insurance Private insurance
## [2578] Private insurance Self-pay          Medicaid
## [2581] Private insurance Private insurance Private insurance
## [2584] Medicaid           Private insurance Medicare
## [2587] Private insurance Other             Medicare
## [2590] Private insurance Private insurance Private insurance
## [2593] Medicare           Medicare         Private insurance
## [2596] Private insurance Self-pay          Private insurance
## [2599] Private insurance Medicare          Worker's Comp
## [2602] Medicare           Medicare         Private insurance
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## [2608] Private insurance Private insurance Private insurance
## [2611] Private insurance Medicaid         Private insurance
## [2614] Medicaid           Private insurance Private insurance
## [2617] Medicare           Medicare         Medicare
## [2620] Private insurance Private insurance Private insurance
## [2623] Private insurance Medicaid         Private insurance
## [2626] Self-pay           Private insurance Private insurance
## [2629] Private insurance Private insurance Self-pay
## [2632] Medicare           Medicare         Medicare
## [2635] Private insurance Medicaid         Unknown
```

```
## [2638] Private insurance Unknown           Worker's Comp
## [2641] Private insurance Private insurance Medicare
## [2644] Unknown           Private insurance Medicare
## [2647] Private insurance Worker's Comp     Private insurance
## [2650] Medicare          Private insurance Private insurance
## [2653] Private insurance Private insurance Unknown
## [2656] No charge         Medicare          Private insurance
## [2659] Medicare          Private insurance Medicare
## [2662] Private insurance Medicaid          Medicare
## [2665] Medicare          Medicare          Private insurance
## [2668] Medicare          Private insurance Medicaid
## [2671] Private insurance Medicare          Private insurance
## [2674] Worker's Comp     Private insurance Unknown
## [2677] Private insurance Private insurance Unknown
## [2680] Private insurance Private insurance Medicare
## [2683] Private insurance Self-pay          Medicaid
## [2686] Private insurance Private insurance Medicare
## [2689] Medicare          Other             Medicare
## [2692] Private insurance Private insurance Private insurance
## [2695] Medicare          Other             Private insurance
## [2698] Private insurance Private insurance Private insurance
## [2701] Medicaid          Private insurance Private insurance
## [2704] Private insurance Medicare          Private insurance
## [2707] Medicare          Private insurance Private insurance
## [2710] Medicaid          Private insurance Worker's Comp
## [2713] Medicaid          Medicare          Unknown
## [2716] Private insurance Medicare          Private insurance
## [2719] Medicaid          Private insurance Medicare
## [2722] Medicare          Private insurance Private insurance
## [2725] Private insurance Private insurance Medicare
## [2728] Self-pay          Private insurance Medicaid
## [2731] Medicare          Unknown           Private insurance
## [2734] Medicare          Private insurance Private insurance
## [2737] Worker's Comp     Private insurance Private insurance
## [2740] Medicare          Worker's Comp     Medicare
## [2743] Medicare          Medicare          Worker's Comp
## [2746] Private insurance Worker's Comp     Private insurance
## [2749] Medicaid          Medicare          Private insurance
## [2752] Medicare          Private insurance Private insurance
## [2755] Private insurance Private insurance Private insurance
## [2758] Worker's Comp     Medicare          Private insurance
## [2761] Private insurance Private insurance Worker's Comp
## [2764] Private insurance Medicare          Private insurance
```

```
## [2767] Private insurance Other             Medicare
## [2770] Medicare          Medicare          Medicare
## [2773] Medicare          Private insurance Private insurance
## [2776] Medicare          Private insurance Self-pay
## [2779] Medicare          Medicare          Private insurance
## [2782] Private insurance Private insurance Private insurance
## [2785] Private insurance Private insurance Medicare
## [2788] Self-pay          Medicare          Private insurance
## [2791] Self-pay          Private insurance Private insurance
## [2794] Private insurance Private insurance Medicaid
## [2797] Medicare          Self-pay          Self-pay
## [2800] Unknown           Unknown           Private insurance
## [2803] Private insurance Medicare          Private insurance
## [2806] Unknown           Private insurance Other
## [2809] Private insurance Worker's Comp     Private insurance
## [2812] Other             Medicaid          Medicare
## [2815] Medicare          Medicare          Medicaid
## [2818] Medicare          Private insurance Worker's Comp
## [2821] Worker's Comp     Private insurance Private insurance
## [2824] Private insurance Medicaid          Other
## [2827] Private insurance Private insurance Private insurance
## [2830] Medicaid          Medicare          Medicare
## [2833] Private insurance Worker's Comp     Private insurance
## [2836] Private insurance Medicare          Medicare
## [2839] Private insurance Private insurance Private insurance
## [2842] Self-pay          Medicaid          Private insurance
## [2845] Medicare          Medicare          Medicare
## [2848] Private insurance Medicare          Self-pay
## [2851] Private insurance Private insurance Private insurance
## [2854] Medicare          Medicare          Unknown
## [2857] Medicare          Medicaid          Unknown
## [2860] Private insurance Private insurance Private insurance
## [2863] Private insurance Self-pay          Medicare
## [2866] Private insurance Medicaid          Medicare
## [2869] Medicare          Medicare          Other
## [2872] Medicare          Private insurance Medicaid
## [2875] Self-pay          Medicaid          Private insurance
## [2878] Worker's Comp     Medicaid          Private insurance
## [2881] Medicare          Self-pay          Private insurance
## [2884] Medicare          Unknown           Medicare
## [2887] Medicare          Private insurance Medicaid
## [2890] Medicare          Medicare          Private insurance
## [2893] Private insurance Medicare          Self-pay
```

```
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## [2905] Medicaid          Worker's Comp     Missing
## [2908] Medicaid          Self-pay         Medicare
## [2911] Private insurance Private insurance Private insurance
## [2914] Private insurance Self-pay         Medicaid
## [2917] Unknown           Unknown          Missing
## [2920] Unknown           Self-pay         Unknown
## [2923] Private insurance Private insurance Private insurance
## [2926] Medicare         Worker's Comp     Private insurance
## [2929] Medicare         Private insurance Private insurance
## [2932] Medicare         Private insurance Medicaid
## [2935] Medicare         Private insurance Private insurance
## [2938] Private insurance Medicaid         Missing
## [2941] Private insurance Private insurance Self-pay
## [2944] Medicaid          Private insurance Medicare
## [2947] Private insurance Private insurance Private insurance
## [2950] Medicare         Medicare         Medicare
## [2953] Medicare         Worker's Comp     Private insurance
## [2956] Unknown           Medicare         Medicaid
## [2959] Private insurance Medicaid         Private insurance
## [2962] Medicaid          Medicaid         Private insurance
## [2965] Medicare         Medicaid         Private insurance
## [2968] Private insurance Medicaid         Private insurance
## [2971] Private insurance Private insurance Private insurance
## [2974] Private insurance Private insurance Unknown
## [2977] Medicare         Medicare         Private insurance
## [2980] Unknown           Medicare         Self-pay
## [2983] Private insurance Medicare         Worker's Comp
## [2986] Private insurance Private insurance Medicare
## [2989] Private insurance Private insurance Worker's Comp
## [2992] Other             Medicare         Unknown
## [2995] Other             Private insurance Private insurance
## [2998] Unknown           Private insurance Worker's Comp
## [3001] Private insurance Private insurance Medicare
## [3004] Medicaid          Private insurance Medicare
## [3007] Private insurance Medicare         Private insurance
## [3010] Private insurance Private insurance Medicare
## [3013] Unknown           Medicare         Medicare
## [3016] Private insurance Private insurance Medicaid
## [3019] Private insurance Private insurance Private insurance
## [3022] Private insurance Medicare         Medicare
```

```
## [3025] Medicare          Private insurance Medicare
## [3028] Medicaid          Private insurance Private insurance
## [3031] Worker's Comp      Self-pay          Self-pay
## [3034] Private insurance Worker's Comp      Medicare
## [3037] Private insurance Private insurance Private insurance
## [3040] Private insurance Self-pay          Private insurance
## [3043] Medicare          Private insurance Private insurance
## [3046] Private insurance Medicare          Medicaid
## [3049] Medicare          Private insurance Medicare
## [3052] Medicare          Private insurance Private insurance
## [3055] Medicare          Worker's Comp      Medicare
## [3058] Private insurance Private insurance Private insurance
## [3061] Medicare          Private insurance Worker's Comp
## [3064] Other             Private insurance Private insurance
## [3067] Private insurance Medicare          Private insurance
## [3070] Private insurance Medicaid          Medicare
## [3073] Private insurance Unknown           Medicaid
## [3076] Medicare          Medicare          Private insurance
## [3079] Worker's Comp      Private insurance Medicare
## [3082] No charge          Medicaid          Private insurance
## [3085] Private insurance Private insurance Worker's Comp
## [3088] Medicare          Private insurance Private insurance
## [3091] Private insurance Private insurance Medicare
## [3094] Private insurance Private insurance Medicaid
## [3097] Other             Private insurance Private insurance
## [3100] Medicaid          Medicaid          Medicaid
## [3103] Private insurance Medicare          Private insurance
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## [3109] Medicaid          Medicaid          Medicare
## [3112] Medicare          Private insurance Private insurance
## [3115] Medicaid          Medicaid          Medicare
## [3118] Private insurance Medicaid          No charge
## [3121] Medicare          Medicare          Medicaid
## [3124] Medicare          Medicare          Other
## [3127] Self-pay          Private insurance Private insurance
## [3130] Private insurance Private insurance Medicare
## [3133] Private insurance Medicare          Medicaid
## [3136] Medicaid          Private insurance Private insurance
## [3139] Private insurance Private insurance Private insurance
## [3142] Private insurance Private insurance Private insurance
## [3145] Private insurance Medicare          Private insurance
## [3148] Private insurance Private insurance Medicare
## [3151] Private insurance Medicare          Private insurance
```

```
## [3154] Private insurance Worker's Comp     Private insurance
## [3157] Private insurance Private insurance Medicaid
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## [3163] Private insurance Private insurance Private insurance
## [3166] Other             Medicaid          Medicare
## [3169] Medicare          Private insurance Medicare
## [3172] Other             Private insurance Worker's Comp
## [3175] Medicaid          Medicare          Private insurance
## [3178] Private insurance Medicaid          Worker's Comp
## [3181] Private insurance Other             Worker's Comp
## [3184] Private insurance Private insurance Medicare
## [3187] Private insurance Medicare          Private insurance
## [3190] Medicare          Private insurance Medicare
## [3193] Private insurance Self-pay          Medicaid
## [3196] Worker's Comp     Private insurance Unknown
## [3199] Private insurance Medicare          Private insurance
## [3202] Private insurance Private insurance Private insurance
## [3205] Worker's Comp     Private insurance Private insurance
## [3208] Private insurance Medicare          Private insurance
## [3211] Private insurance Private insurance Private insurance
## [3214] Private insurance Worker's Comp     Medicare
## [3217] Medicare          Private insurance Worker's Comp
## [3220] Private insurance Private insurance Medicare
## [3223] Medicare          Private insurance Private insurance
## [3226] Medicaid          Medicaid          Private insurance
## [3229] Private insurance Private insurance Private insurance
## [3232] Medicaid          Private insurance Private insurance
## [3235] Private insurance Private insurance Medicare
## [3238] Medicare          Medicare          Medicaid
## [3241] Medicare          Missing           Unknown
## [3244] Medicare          Private insurance Medicaid
## [3247] Private insurance Medicaid          Private insurance
## [3250] Medicare          Private insurance Medicare
## [3253] Private insurance Medicare          Private insurance
## [3256] Private insurance Private insurance Medicare
## [3259] Medicare          Other             Private insurance
## [3262] Private insurance Private insurance Private insurance
## [3265] Medicare          Private insurance Private insurance
## [3268] Private insurance Medicare          Medicaid
## [3271] Medicaid          Private insurance Other
## [3274] Medicaid          Private insurance Unknown
## [3277] Private insurance Medicare          Unknown
## [3280] Medicare          Private insurance Medicaid
```

```
## [3283] Medicare          Medicare          Worker's Comp
## [3286] Private insurance Medicare          Private insurance
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## [3292] Self-pay          Medicare          Other
## [3295] Medicaid          Private insurance Medicaid
## [3298] Private insurance Private insurance Self-pay
## [3301] Medicaid          Medicaid          Medicare
## [3304] Self-pay          Medicaid          Private insurance
## [3307] Private insurance Private insurance Private insurance
## [3310] Medicaid          Private insurance Medicare
## [3313] Private insurance Medicaid          Other
## [3316] Worker's Comp     Private insurance Medicare
## [3319] Medicaid          Medicare          Private insurance
## [3322] Medicare          Medicare          Private insurance
## [3325] Missing           Medicaid          Medicare
## [3328] Medicare          Self-pay          Private insurance
## [3331] Medicaid          Private insurance Private insurance
## [3334] Private insurance Private insurance Private insurance
## [3337] Private insurance Medicaid          Self-pay
## [3340] Private insurance Medicare          Private insurance
## [3343] Medicare          Private insurance Private insurance
## [3346] Private insurance Private insurance Private insurance
## [3349] Medicaid          Medicare          Other
## [3352] Medicare          Medicare          Medicare
## [3355] Medicaid          Medicare          Medicaid
## [3358] Medicare          Private insurance Medicare
## [3361] Private insurance Private insurance Medicare
## [3364] Medicare          Unknown           Medicare
## [3367] Unknown           Worker's Comp     Private insurance
## [3370] Worker's Comp     Self-pay          Medicare
## [3373] Medicare          Medicare          Medicare
## [3376] Medicare          Private insurance Private insurance
## [3379] Medicare          Private insurance Private insurance
## [3382] Private insurance Private insurance Medicare
## [3385] Medicaid          Medicare          Medicare
## [3388] Medicaid          Unknown           Medicare
## [3391] Private insurance Medicaid          Unknown
## [3394] Private insurance Self-pay          Medicaid
## [3397] Medicaid          Private insurance Medicare
## [3400] Private insurance Self-pay          Private insurance
## [3403] Private insurance Medicare          Medicare
## [3406] Medicaid          Private insurance Medicare
## [3409] Private insurance Medicare          Medicare
```

```
## [3412] Private insurance Private insurance Unknown
## [3415] Private insurance Private insurance Medicare
## [3418] Self-pay          Private insurance Worker's Comp
## [3421] Private insurance Private insurance Medicaid
## [3424] Medicare          Medicaid          Private insurance
## [3427] Medicare          Missing           Private insurance
## [3430] Medicare          Self-pay          Medicare
## [3433] Private insurance Medicare          Private insurance
## [3436] Medicare          Medicaid          Medicare
## [3439] Private insurance Private insurance Private insurance
## [3442] Medicare          Private insurance Private insurance
## [3445] Unknown           Medicare          Missing
## [3448] Worker's Comp     Medicaid          Private insurance
## [3451] Medicaid          Private insurance Unknown
## [3454] Private insurance Private insurance Medicare
## [3457] Medicare          Private insurance Private insurance
## [3460] Private insurance Private insurance Private insurance
## [3463] Medicare          Private insurance Medicaid
## [3466] Medicare          Medicare          Medicare
## [3469] Private insurance Medicaid          Worker's Comp
## [3472] Unknown           Medicare          Medicare
## [3475] Medicare          Medicaid          Private insurance
## [3478] Medicare          Private insurance Private insurance
## [3481] Private insurance Private insurance Medicare
## [3484] Medicare          Other             Unknown
## [3487] Private insurance Private insurance Medicare
## [3490] Unknown           Medicare          Other
## [3493] Other             Medicare          Private insurance
## [3496] Unknown           Medicare          Private insurance
## [3499] No charge         Medicare          Private insurance
## [3502] Medicaid          Other             Medicaid
## [3505] Self-pay          Private insurance Worker's Comp
## [3508] Private insurance Private insurance Private insurance
## [3511] Medicaid          Private insurance Medicare
## [3514] Private insurance Private insurance Private insurance
## [3517] Private insurance Medicaid          Medicare
## [3520] Medicare          Other             Private insurance
## [3523] Medicaid          Medicare          Private insurance
## [3526] Private insurance Medicaid          Medicare
## [3529] Other             Worker's Comp     Other
## [3532] Private insurance Medicare          Private insurance
## [3535] Private insurance Private insurance Private insurance
## [3538] Private insurance Private insurance Private insurance
```

```
## [3541] Medicare          Medicare          Private insurance
## [3544] Private insurance Medicare          Private insurance
## [3547] Private insurance Private insurance Self-pay
## [3550] Private insurance Private insurance Private insurance
## [3553] Medicare          Private insurance Medicaid
## [3556] Unknown           Private insurance Medicare
## [3559] Private insurance Private insurance Private insurance
## [3562] Medicare          Self-pay          Medicare
## [3565] Private insurance Private insurance Private insurance
## [3568] Private insurance Medicaid          Private insurance
## [3571] Medicare          Private insurance Medicaid
## [3574] Private insurance Private insurance Private insurance
## [3577] Medicare          Medicare          Private insurance
## [3580] Private insurance Private insurance Medicare
## [3583] Private insurance Medicare          Private insurance
## [3586] Medicare          Private insurance Medicare
## [3589] Self-pay          Worker's Comp     Medicaid
## [3592] Unknown           Worker's Comp     Medicare
## [3595] Private insurance Medicare          Private insurance
## [3598] Medicare          Medicare          Private insurance
## [3601] Medicaid          Private insurance Medicare
## [3604] Self-pay          Private insurance Private insurance
## [3607] Private insurance Private insurance Medicare
## [3610] Private insurance Private insurance Private insurance
## [3613] Private insurance Private insurance Medicaid
## [3616] Private insurance Medicare          Self-pay
## [3619] Private insurance Private insurance Self-pay
## [3622] Medicaid          Medicaid          Private insurance
## [3625] Private insurance Private insurance Private insurance
## [3628] Private insurance Private insurance Private insurance
## [3631] Private insurance Unknown           Private insurance
## [3634] Other             Medicare          Worker's Comp
## [3637] Worker's Comp     Worker's Comp     Worker's Comp
## [3640] Worker's Comp     Worker's Comp     Other
## [3643] Worker's Comp     Worker's Comp     Private insurance
## [3646] Worker's Comp     Medicare          Medicare
## [3649] Medicare          Medicaid          Medicare
## [3652] Private insurance Private insurance Medicaid
## [3655] Private insurance Medicare          Worker's Comp
## [3658] Private insurance Medicare          Private insurance
## [3661] Medicare          Self-pay          Self-pay
## [3664] Other             Private insurance Private insurance
## [3667] Worker's Comp     Self-pay          Worker's Comp
```

```
## [3670] Worker's Comp      Private insurance Unknown
## [3673] Medicare           Private insurance Medicaid
## [3676] No charge          Medicaid          Private insurance
## [3679] Private insurance Medicare           Private insurance
## [3682] Private insurance Private insurance Private insurance
## [3685] Private insurance Medicare           Unknown
## [3688] Unknown            Private insurance Unknown
## [3691] Private insurance Medicaid           Unknown
## [3694] Private insurance Medicaid           Self-pay
## [3697] Other              Medicare          Private insurance
## [3700] Unknown            Medicare          Unknown
## [3703] Private insurance Private insurance Private insurance
## [3706] Private insurance Medicare           Private insurance
## [3709] Medicare           Private insurance Private insurance
## [3712] Worker's Comp      Private insurance Private insurance
## [3715] Private insurance Private insurance Self-pay
## [3718] Private insurance Medicaid           Medicaid
## [3721] Medicare           Private insurance Medicaid
## [3724] Medicare           Medicare          Medicare
## [3727] Private insurance Private insurance Private insurance
## [3730] Private insurance Private insurance Medicare
## [3733] Medicaid           Private insurance Private insurance
## [3736] Worker's Comp      Medicare          Private insurance
## [3739] Private insurance Medicare           Private insurance
## [3742] Private insurance Medicare           Private insurance
## [3745] Medicaid           Private insurance Private insurance
## [3748] Medicare           No charge          Worker's Comp
## [3751] Private insurance Private insurance Private insurance
## [3754] Medicare           Private insurance Medicare
## [3757] Medicare           Private insurance Private insurance
## [3760] Medicare           Private insurance Worker's Comp
## [3763] Medicare           Private insurance Medicare
## [3766] Private insurance Private insurance Medicaid
## [3769] Medicare           Medicaid          Medicare
## [3772] Other              Private insurance Medicare
## [3775] Private insurance Medicare           Private insurance
## [3778] Medicaid           Medicare          Medicare
## [3781] Medicare           Medicare          Other
## [3784] Private insurance Private insurance Private insurance
## [3787] Medicare           Self-pay          Other
## [3790] Private insurance Private insurance Private insurance
## [3793] Medicare           Private insurance Private insurance
## [3796] Private insurance Private insurance Medicare
```

```
## [3799] Private insurance Private insurance Private insurance
## [3802] Private insurance Private insurance Medicare
## [3805] Private insurance Medicaid        Medicare
## [3808] Worker's Comp    Private insurance Private insurance
## [3811] Private insurance Private insurance Medicare
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## [3817] Medicare         Medicare         Medicare
## [3820] Private insurance Worker's Comp    Private insurance
## [3823] Private insurance Medicare         Private insurance
## [3826] Unknown          Private insurance Medicaid
## [3829] Private insurance Private insurance Worker's Comp
## [3832] Private insurance Unknown          Medicare
## [3835] Private insurance Other            Medicaid
## [3838] Private insurance Medicare         Private insurance
## [3841] Private insurance Private insurance Medicare
## [3844] Self-pay         Medicaid         Self-pay
## [3847] Self-pay         Medicare         Medicare
## [3850] Worker's Comp    Medicare         Unknown
## [3853] Medicare         Medicaid         Worker's Comp
## [3856] Private insurance Medicare         Private insurance
## [3859] Medicare         Private insurance Private insurance
## [3862] Medicare         Private insurance
## 9 Levels: Missing Medicaid Medicare No charge Other ... Worker's Comp
```

```r
revalue(urgentCareOnly.df$URBANRUR, c("Micropolitan/noncore (nonmetro)"= "Rural", "Missing data" = "Miss
```

```
##    [1] Medium metro        Rural               Small metro
##    [4] Large central metro Large fringe metro  Medium metro
##    [7] Medium metro        <NA>                <NA>
##   [10] Medium metro        Rural               Large central metro
##   [13] Medium metro        Medium metro        Large central metro
##   [16] Medium metro        Rural               Medium metro
##   [19] Large fringe metro  Medium metro        Rural
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##   [49] Medium metro        Medium metro        Large central metro
```

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##  [79] Small metro          Large central metro Large central metro
##  [82] Medium metro         Medium metro        Rural
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##  [94] Large fringe metro   Medium metro        Large central metro
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## [112] Large central metro  Large fringe metro  Large central metro
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## [178] Small metro          Large fringe metro  Rural
```

```
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## [283] Rural               Rural              Rural
## [286] Rural               Rural              Rural
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## [301] Rural               Large fringe metro Large fringe metro
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## [307] Medium metro        Medium metro       Small metro
```

```
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##  [325] Large central metro Rural               Medium metro
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##  [334] Large central metro Medium metro        Large central metro
##  [337] Rural               Rural               Rural
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##  [373] Large central metro Large fringe metro  Large fringe metro
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##  [385] Large central metro Medium metro        Medium metro
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##  [394] Medium metro        Medium metro        Large fringe metro
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##  [409] Small metro         Rural               Rural
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##  [421] Large central metro Medium metro        Small metro
##  [424] Large central metro Large fringe metro  Large central metro
##  [427] Rural               Small metro         Medium metro
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##  [433] Small metro         Large fringe metro  Rural
##  [436] Small metro         Large central metro Medium metro
```

```
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## [442] Medium metro        Large fringe metro Large fringe metro
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## [451] Large central metro Medium metro       Large fringe metro
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## [472] Large central metro Medium metro       Medium metro
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## [484] Medium metro        Medium metro       Small metro
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## [565] Large fringe metro  Medium metro       Small metro
```

```
## [568] Medium metro        <NA>                 Small metro
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## [580] Small metro         Medium metro         Small metro
## [583] Large central metro Medium metro         Medium metro
## [586] Large central metro Medium metro         Medium metro
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## [601] Large central metro Medium metro         Large fringe metro
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## [610] Rural               Large fringe metro   Large central metro
## [613] Large fringe metro  Medium metro         Large fringe metro
## [616] Large central metro Large fringe metro   Small metro
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## [694] Rural               Large central metro  Large central metro
```

```
## [697] <NA>               Large central metro Rural
## [700] Large central metro Medium metro        <NA>
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## [706] Medium metro        Large central metro Large fringe metro
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## [730] Large fringe metro  Large fringe metro  Medium metro
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## [802] Large central metro Medium metro        Rural
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## [823] Large central metro Medium metro        Rural
```

```
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##   [916] Rural               Medium metro        Rural
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##   [949] Large central metro Small metro         Large fringe metro
##   [952] Rural               Medium metro        Rural
```

```
##  [955] Large central metro Large central metro Medium metro
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##  [967] Large central metro Large central metro Large central metro
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## [1081] Large central metro Large central metro Large central metro
```

```
## [1084] Medium metro        Large central metro Medium metro
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## [1093] Large central metro Large central metro Rural
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## [1210] Large central metro Medium metro        Large central metro
```

```
## [1213] Large central metro Large central metro Medium metro
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## [1219] Large fringe metro Medium metro       Rural
## [1222] Medium metro      Large central metro Rural
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## [1228] Medium metro      Rural              Rural
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## [1234] Large fringe metro Rural              Medium metro
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## [1243] Large fringe metro Small metro        Small metro
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## [1249] Rural             Rural              Rural
## [1252] Rural             Medium metro       Rural
## [1255] Large fringe metro Rural              Rural
## [1258] Large central metro Small metro       Small metro
## [1261] Medium metro      <NA>               Medium metro
## [1264] Large central metro Medium metro      Large central metro
## [1267] Large fringe metro Large fringe metro Medium metro
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## [1273] Large fringe metro Large central metro Large fringe metro
## [1276] Large fringe metro Small metro        Rural
## [1279] Large central metro Medium metro      Rural
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## [1285] Large central metro Large central metro Large central metro
## [1288] Large central metro Large central metro Small metro
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## [1294] Large central metro Rural             <NA>
## [1297] Large central metro Large central metro Small metro
## [1300] Rural             Large fringe metro  Large central metro
## [1303] Rural             Large central metro Rural
## [1306] Rural             Large central metro Large central metro
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## [1315] Rural             Large central metro Rural
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## [1330] Small metro       <NA>               Medium metro
## [1333] Medium metro      Medium metro       <NA>
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## [1339] Medium metro      Medium metro       Medium metro
```

```
## [1342] Small metro         Medium metro       Medium metro
## [1345] Small metro         Large fringe metro Rural
## [1348] Large central metro Medium metro       Rural
## [1351] Large central metro Large central metro Medium metro
## [1354] Medium metro        Medium metro       Large central metro
## [1357] Large fringe metro  Medium metro       Large central metro
## [1360] Rural               Small metro        Medium metro
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## [1366] Large central metro Rural              Medium metro
## [1369] <NA>                Medium metro       Large central metro
## [1372] <NA>                Large fringe metro Large fringe metro
## [1375] Large fringe metro  Large central metro Medium metro
## [1378] Large fringe metro  Large central metro Medium metro
## [1381] Large central metro Large fringe metro Medium metro
## [1384] Small metro         Small metro        Medium metro
## [1387] Medium metro        Medium metro       Large central metro
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## [2962] Rural                Rural               <NA>
## [2965] Medium metro         Large central metro Large central metro
## [2968] Small metro          Medium metro        Medium metro
## [2971] Medium metro         Large central metro Large central metro
## [2974] Small metro          Large fringe metro  <NA>
## [2977] Medium metro         Large central metro Medium metro
## [2980] Large central metro  Medium metro        Small metro
## [2983] Small metro          Rural               Large central metro
## [2986] Large fringe metro   Medium metro        Small metro
## [2989] Large fringe metro   Medium metro        Small metro
## [2992] Large central metro  Rural               <NA>
## [2995] Large central metro  Large central metro Large central metro
## [2998] <NA>                 Large fringe metro  Rural
## [3001] Large central metro  Medium metro        Large central metro
## [3004] Large central metro  Large fringe metro  Medium metro
## [3007] Large central metro  Medium metro        Small metro
## [3010] Medium metro         Medium metro        Rural
## [3013] Large central metro  Large fringe metro  Medium metro
## [3016] Rural                Small metro         Rural
```

```
## [3019] Small metro          Medium metro        Medium metro
## [3022] Large central metro Medium metro        Medium metro
## [3025] Rural                Medium metro        Medium metro
## [3028] Medium metro         Medium metro        Medium metro
## [3031] Rural                Rural               Medium metro
## [3034] Medium metro         Large fringe metro  Medium metro
## [3037] Large central metro Rural                Medium metro
## [3040] Medium metro         Rural               Large fringe metro
## [3043] Large central metro Large central metro Large central metro
## [3046] Large fringe metro  Large fringe metro  Rural
## [3049] Large central metro Large central metro Large central metro
## [3052] <NA>                 Large fringe metro  Large central metro
## [3055] Medium metro         Small metro         Small metro
## [3058] Large fringe metro  Medium metro        Small metro
## [3061] Large central metro Rural                Large central metro
## [3064] Rural                Large central metro Large central metro
## [3067] Medium metro         Large fringe metro  Small metro
## [3070] Rural                Rural               Medium metro
## [3073] Large central metro <NA>                 Small metro
## [3076] Medium metro         Medium metro        Medium metro
## [3079] Large central metro Small metro         Small metro
## [3082] Medium metro         Medium metro        Rural
## [3085] Small metro          Medium metro        Small metro
## [3088] Medium metro         Large fringe metro  Medium metro
## [3091] Large central metro Large central metro Large fringe metro
## [3094] Rural                Medium metro        Medium metro
## [3097] Rural                Large central metro Large fringe metro
## [3100] Large central metro Small metro         Small metro
## [3103] Medium metro         Medium metro        Large fringe metro
## [3106] Small metro          Small metro         Rural
## [3109] Medium metro         Rural               Medium metro
## [3112] Large fringe metro  Large fringe metro  Rural
## [3115] Rural                Rural               Large fringe metro
## [3118] Small metro          Medium metro        Rural
## [3121] Medium metro         Medium metro        Rural
## [3124] Rural                Medium metro        Large central metro
## [3127] Large central metro Rural                Medium metro
## [3130] Rural                Large central metro Large central metro
## [3133] Medium metro         Rural               Medium metro
## [3136] Large central metro Small metro         Medium metro
## [3139] Medium metro         Medium metro        Medium metro
## [3142] Large central metro Medium metro        Large central metro
## [3145] Medium metro         Rural               Medium metro
```

```
## [3148] Medium metro          Rural                Medium metro
## [3151] Large central metro Medium metro          Medium metro
## [3154] Medium metro          Large central metro Rural
## [3157] Rural                Large central metro Large central metro
## [3160] Small metro          Large central metro Large fringe metro
## [3163] Medium metro          Medium metro          Large central metro
## [3166] Rural                Medium metro          Large central metro
## [3169] Rural                Medium metro          Medium metro
## [3172] Large central metro Medium metro          Large central metro
## [3175] Small metro          Medium metro          Large central metro
## [3178] Medium metro          Large fringe metro  Large central metro
## [3181] Medium metro          Rural                Small metro
## [3184] Large central metro Large central metro Large central metro
## [3187] Medium metro          Medium metro          Rural
## [3190] Medium metro          Small metro          Medium metro
## [3193] Large central metro Large fringe metro  Large central metro
## [3196] Large central metro Medium metro          Large central metro
## [3199] Large central metro Small metro          Rural
## [3202] Medium metro          Large fringe metro  Medium metro
## [3205] Large central metro Large central metro Large fringe metro
## [3208] Rural                Medium metro          Large fringe metro
## [3211] Large central metro Medium metro          Large central metro
## [3214] Large fringe metro  Small metro          Small metro
## [3217] Rural                Rural                Small metro
## [3220] Medium metro          Large fringe metro  Large central metro
## [3223] Medium metro          Medium metro          Large fringe metro
## [3226] Large central metro Large fringe metro  Large fringe metro
## [3229] Large central metro Medium metro          Large central metro
## [3232] Rural                Large central metro Medium metro
## [3235] Large central metro Medium metro          Rural
## [3238] Rural                Large fringe metro  <NA>
## [3241] Rural                Large fringe metro  Large fringe metro
## [3244] Medium metro          Medium metro          Rural
## [3247] Large central metro Medium metro          Large fringe metro
## [3250] Large central metro Rural                Large central metro
## [3253] Small metro          Large fringe metro  Medium metro
## [3256] Large central metro Large central metro Small metro
## [3259] Medium metro          Rural                Large fringe metro
## [3262] Large fringe metro  Large fringe metro  Small metro
## [3265] Large central metro Large fringe metro  Large central metro
## [3268] Medium metro          Large fringe metro  Medium metro
## [3271] Medium metro          Medium metro          Small metro
## [3274] Medium metro          Medium metro          Large central metro
```

```
## [3277] Medium metro          <NA>                 <NA>
## [3280] Medium metro          Small metro          Large central metro
## [3283] Large central metro Large fringe metro  Small metro
## [3286] Large fringe metro  Large fringe metro  Medium metro
## [3289] Rural                Large central metro Large central metro
## [3292] Small metro          Medium metro         Medium metro
## [3295] Medium metro          Large fringe metro  Large central metro
## [3298] Medium metro          Medium metro         Medium metro
## [3301] Rural                Medium metro         Medium metro
## [3304] Small metro          Medium metro         Medium metro
## [3307] Large fringe metro  Large fringe metro  Large fringe metro
## [3310] Medium metro          Large fringe metro  Medium metro
## [3313] Large central metro Medium metro         Rural
## [3316] Small metro          Large fringe metro  Large fringe metro
## [3319] Rural                Large central metro Large central metro
## [3322] Large central metro Rural                Large central metro
## [3325] Large fringe metro  Large fringe metro  Small metro
## [3328] Medium metro          Medium metro         Medium metro
## [3331] Large fringe metro  Large central metro Medium metro
## [3334] Medium metro          Medium metro         Medium metro
## [3337] Medium metro          Medium metro         Large central metro
## [3340] Rural                Large central metro Rural
## [3343] Medium metro          Rural                Medium metro
## [3346] Medium metro          Large central metro Medium metro
## [3349] Large fringe metro  Small metro          Rural
## [3352] Rural                Rural                Small metro
## [3355] Medium metro          Rural                Small metro
## [3358] Large central metro Medium metro         Rural
## [3361] Large central metro Large central metro Large fringe metro
## [3364] Large fringe metro  Large fringe metro  <NA>
## [3367] Large fringe metro  Rural                Medium metro
## [3370] Large central metro Large central metro Rural
## [3373] Small metro          Small metro          Small metro
## [3376] <NA>                 Large central metro Large central metro
## [3379] Large fringe metro  Large fringe metro  Large central metro
## [3382] Large central metro Medium metro         Small metro
## [3385] Medium metro          Medium metro         Rural
## [3388] Rural                Large fringe metro  Medium metro
## [3391] Large central metro Rural                <NA>
## [3394] Medium metro          Large fringe metro  Rural
## [3397] Small metro          Medium metro         Medium metro
## [3400] Large central metro Rural                Small metro
## [3403] Medium metro          Large central metro Medium metro
```

```
## [3406] Rural               Medium metro        Rural
## [3409] Rural               Large central metro Medium metro
## [3412] Large fringe metro  Large fringe metro  Large central metro
## [3415] Large fringe metro  Large central metro Large central metro
## [3418] <NA>                Medium metro        Small metro
## [3421] Medium metro        Rural               Large fringe metro
## [3424] Rural               Large fringe metro  Large fringe metro
## [3427] Rural               Medium metro        Large central metro
## [3430] Large central metro Small metro         Rural
## [3433] Medium metro        Large fringe metro  Medium metro
## [3436] Medium metro        Large central metro Medium metro
## [3439] Large central metro Medium metro        Small metro
## [3442] Medium metro        Small metro         Large central metro
## [3445] <NA>                Medium metro        <NA>
## [3448] Rural               Large central metro Large central metro
## [3451] Large fringe metro  Small metro         Large central metro
## [3454] Medium metro        Medium metro        Medium metro
## [3457] Large central metro Medium metro        Medium metro
## [3460] Medium metro        Medium metro        Medium metro
## [3463] Medium metro        Medium metro        Medium metro
## [3466] Medium metro        Medium metro        Medium metro
## [3469] Medium metro        Rural               Small metro
## [3472] Large central metro Medium metro        Rural
## [3475] Rural               Large central metro Large central metro
## [3478] Medium metro        Large central metro Small metro
## [3481] Medium metro        Small metro         Medium metro
## [3484] Rural               Medium metro        Large fringe metro
## [3487] Large fringe metro  Large fringe metro  Small metro
## [3490] <NA>                Medium metro        Large central metro
## [3493] Rural               Large fringe metro  Large fringe metro
## [3496] <NA>                Rural               Medium metro
## [3499] Medium metro        Rural               Medium metro
## [3502] Medium metro        Medium metro        Medium metro
## [3505] Medium metro        <NA>                Large fringe metro
## [3508] Large central metro Medium metro        Rural
## [3511] Large central metro Large central metro Medium metro
## [3514] Large fringe metro  Large fringe metro  Large central metro
## [3517] Large central metro Large central metro Large fringe metro
## [3520] Large central metro Medium metro        Large central metro
## [3523] Large fringe metro  Large fringe metro  Large fringe metro
## [3526] Small metro         <NA>                Medium metro
## [3529] Large central metro Rural               Large fringe metro
## [3532] Large central metro Rural               Large fringe metro
```

```
## [3535] Large fringe metro   Small metro          Rural
## [3538] Rural                 Large fringe metro   Rural
## [3541] Medium metro          Large central metro  Large central metro
## [3544] Medium metro          Medium metro         Small metro
## [3547] Medium metro          Small metro          Large central metro
## [3550] Medium metro          <NA>                 Large fringe metro
## [3553] Large central metro   Large fringe metro   Medium metro
## [3556] <NA>                   <NA>                 Large fringe metro
## [3559] Medium metro          Large fringe metro   Large fringe metro
## [3562] Medium metro          Small metro          Medium metro
## [3565] Large central metro   Large fringe metro   Small metro
## [3568] Small metro           Large central metro  Medium metro
## [3571] Large central metro   Large central metro  Medium metro
## [3574] Large fringe metro    Large fringe metro   Large central metro
## [3577] Large central metro   Large central metro  Large fringe metro
## [3580] Medium metro          Medium metro         Rural
## [3583] Small metro           Small metro          Small metro
## [3586] Small metro           Medium metro         Medium metro
## [3589] Large fringe metro    <NA>                 Medium metro
## [3592] Medium metro          Large central metro  Large central metro
## [3595] Rural                 Small metro          <NA>
## [3598] Rural                 Medium metro         Large central metro
## [3601] Medium metro          Medium metro         Medium metro
## [3604] Rural                 Large fringe metro   Large fringe metro
## [3607] Medium metro          Large fringe metro   Rural
## [3610] Large fringe metro    Large central metro  Large fringe metro
## [3613] Large central metro   Large fringe metro   Rural
## [3616] Large central metro   Rural                Rural
## [3619] Large fringe metro    Medium metro         Large central metro
## [3622] Large fringe metro    Large central metro  Large central metro
## [3625] Large central metro   Large central metro  Large central metro
## [3628] Large central metro   Large central metro  Large central metro
## [3631] Large central metro   <NA>                 Medium metro
## [3634] Large central metro   Rural                Small metro
## [3637] Small metro           Small metro          Small metro
## [3640] Small metro           Small metro          Small metro
## [3643] Small metro           Small metro          <NA>
## [3646] Rural                 Rural                Rural
## [3649] Rural                 Large fringe metro   Medium metro
## [3652] Large fringe metro    Rural                Medium metro
## [3655] Large fringe metro    Large fringe metro   Large central metro
## [3658] Large fringe metro    Large central metro  Medium metro
## [3661] Medium metro          Medium metro         Large central metro
```

```
## [3664] Medium metro        Large fringe metro  Large central metro
## [3667] Large central metro Small metro         Small metro
## [3670] Small metro         Large fringe metro  <NA>
## [3673] Rural               Large central metro Rural
## [3676] Rural               Large central metro Large fringe metro
## [3679] Large fringe metro  Large fringe metro  Large central metro
## [3682] Large fringe metro  Large fringe metro  Large fringe metro
## [3685] Medium metro        Large central metro Large fringe metro
## [3688] Large central metro Large central metro Large central metro
## [3691] Large central metro Large fringe metro  <NA>
## [3694] Medium metro        Medium metro        Large central metro
## [3697] Rural               Medium metro        Large central metro
## [3700] Medium metro        Medium metro        <NA>
## [3703] Large central metro Large central metro Large central metro
## [3706] Large central metro Large central metro Medium metro
## [3709] Rural               Medium metro        Large central metro
## [3712] Rural               Rural               Large fringe metro
## [3715] Small metro         Medium metro        Medium metro
## [3718] Small metro         Large central metro Small metro
## [3721] Large fringe metro  Medium metro        Large fringe metro
## [3724] Medium metro        Medium metro        Medium metro
## [3727] Large fringe metro  Rural               Large central metro
## [3730] Medium metro        Large central metro Large fringe metro
## [3733] Medium metro        Medium metro        Large central metro
## [3736] Small metro         Rural               Large fringe metro
## [3739] Rural               Small metro         Large fringe metro
## [3742] Large central metro Large central metro Large fringe metro
## [3745] Large central metro Medium metro        Medium metro
## [3748] Large fringe metro  Rural               Large central metro
## [3751] Large central metro Medium metro        Large central metro
## [3754] Small metro         Large central metro Small metro
## [3757] Large fringe metro  Large central metro Large central metro
## [3760] Large central metro Large fringe metro  Large central metro
## [3763] Rural               <NA>                Rural
## [3766] Medium metro        Medium metro        Rural
## [3769] Small metro         Medium metro        Medium metro
## [3772] Small metro         Medium metro        Rural
## [3775] Large central metro Medium metro        Medium metro
## [3778] Large central metro Medium metro        Small metro
## [3781] Large central metro Medium metro        Large central metro
## [3784] Medium metro        Medium metro        <NA>
## [3787] <NA>                Medium metro        Rural
## [3790] Medium metro        Medium metro        Large central metro
```

```
## [3793] Large central metro Rural              Rural
## [3796] Large central metro Medium metro       Rural
## [3799] Rural               Large central metro Medium metro
## [3802] Medium metro        Large fringe metro  Large central metro
## [3805] Rural               Medium metro        Rural
## [3808] Small metro         Medium metro        Large central metro
## [3811] Large fringe metro  Large central metro Medium metro
## [3814] Large fringe metro  Large fringe metro  Large fringe metro
## [3817] Medium metro        Small metro         Medium metro
## [3820] Medium metro        Large central metro Rural
## [3823] Small metro         Medium metro        Rural
## [3826] <NA>                Large fringe metro  Large central metro
## [3829] Medium metro        Large fringe metro  Rural
## [3832] Large central metro <NA>                Small metro
## [3835] Large fringe metro  Medium metro        Medium metro
## [3838] Large central metro Medium metro        Large central metro
## [3841] Large central metro Small metro         Rural
## [3844] Large central metro Large central metro Rural
## [3847] Large central metro Large central metro Small metro
## [3850] Small metro         Medium metro        <NA>
## [3853] Rural               Large central metro Rural
## [3856] Rural               Rural               Medium metro
## [3859] Medium metro        Medium metro        Medium metro
## [3862] Large fringe metro  Large fringe metro
## 6 Levels: Large central metro Large fringe metro Medium metro ... Small metro
```

```r
dim(urgentCareOnly.df)
```

```
## [1] 3863  411
```

```r
continuous.vars <- c("PCTPOVR", "PBAMORER", "URBANRUR", "AGER", "RACER", "SEX", "PAYTYPER")
continuous.varset <- urgentCareOnly.df[continuous.vars]
continuous.varset <- na.omit(continuous.varset)
dim(continuous.varset)
```

```
## [1] 3618    7
```

```r
behavioral.vars <- c("URBANRUR","PAYTYPER","INJURY", "PRIMCARE", "SENBEFOR", "PASTVIS", "MAJOR", "WEEKE
behavioral.varset <- urgentCareOnly.df[behavioral.vars]
bahavioral.varset <- na.omit(behavioral.vars)
dim(behavioral.varset)
```

```
## [1] 3863    8
```

```
demographic.vars <- c("PCTPOVR", "HINCOMER", "PBAMORER", "URBANRUR", "RACEETH", "WEEKEND", "AGER", "SEX
demographic.varset <- urgentCareOnly.df[demographic.vars]
demographic.varset <- na.omit(demographic.varset)
dim(demographic.varset)
```

```
## [1] 3618     8
```

```
full.vars <- c("PCTPOVR", "HINCOMER", "PBAMORER", "URBANRUR", "RACEETH", "WEEKEND", "AGER", "SEX", "URB
full.varset <- urgentCareOnly.df[full.vars]
full.varset <- na.omit(full.varset)
dim(full.varset)
```

```
## [1] 3488    16
```

```
sample <- create_sample.func(behavioral.varset, 250)
sample <- na.omit(sample)
dim(sample)
```

```
## [1] 231     8
```

```
cluster.func <- function (sample) {
  #distance matrix
  summary(sample.dist <- daisy(sample, metric = "gower"))
  sample.dist <- sample.dist^2

  # Investigate further z vs h differences
  sample.clust <- hclust(sample.dist, method = "ward.D")
  sample.agnes <- agnes(sample.dist, method = "ward")
  par(mfrow=c(1,1))
  temp <- sample.clust
  temp$height <- sqrt(sample.clust$height)
  plot(temp, labels = FALSE, main="X.hclust -- sqrt(height)")
  plot(sample.agnes, which.plots=2, labels = FALSE, main="X.agnes.wardD2")


  # Find number of clusters, need better way
  # sample.heights <- sample.clust$height # height values
  # sample.heights2 <- c( 0, sample.heights[ -length(sample.heights) ])     # finds height values at me
  # sample.max <- max(round(sample.heights - sample.heights2, 4))      # finds largest height value
  # optimal <- which.max(round(sample.heights - sample.heights2, 4))   # Determines the location of fir

  sample.clust
```
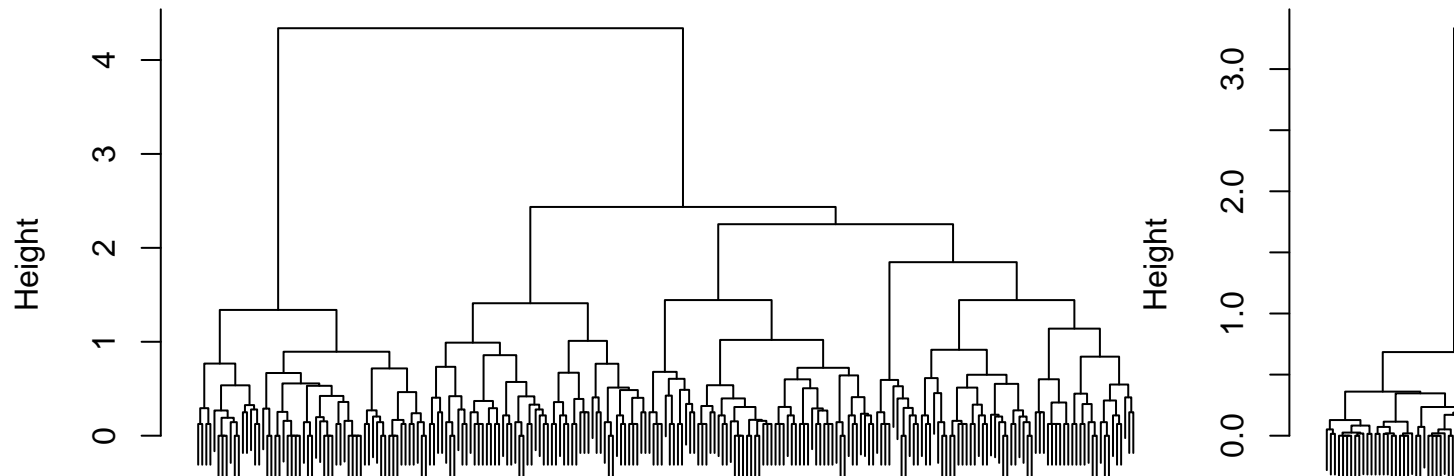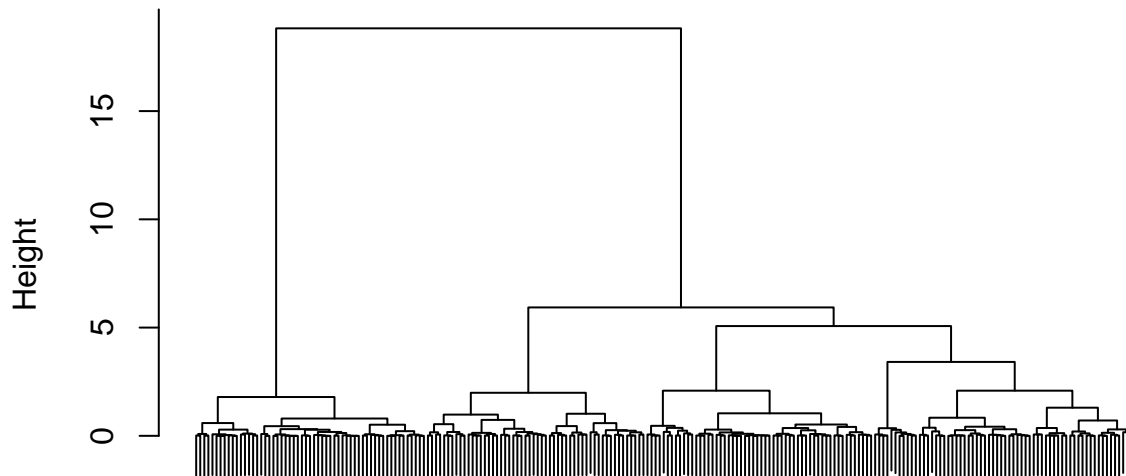
```
}

sample.clust <- cluster.func(sample)
```

X.hclust −− sqrt(height)

sample.dist
hclust (*, "ward.D")

```
plot(sample.clust, labels = FALSE)
```

Cluster Dendrogram

sample.dist
hclust (*, "ward.D")

```
#cutree(sample.clust, k = 6:18) #k = 1 is trivial
## Compare the 2 and 4 grouping:
#g24 <- cutree(sample.clust, k = c(16,17))
#table(grp2 = g24[,"16"], grp4 = g24[,"17"])

k <- 10
table(cutree(sample.clust, 10))
```

```
##
##  1  2  3  4  5  6  7  8  9 10
## 41 30 24 16 44 28 16  9 12 11
```

```
sample.kmode <- kmodes(sample, modes = k, iter.max = 5)

Kmodes.func <- function (cluster, k){
  table(cutree(cluster, k))
  sample.kmode <- kmodes(sample, modes = k, iter.max = 10, weighted = FALSE)
}

#table(sample.kmode$modes)
cluster.tbl <- as.data.frame(sample.kmode$modes)
cluster.tbl
```

```
##                          URBANRUR           PAYTYPER INJURY PRIMCARE
## 1                    Medium metro Private insurance     No       No
## 2              Large central metro           Medicare     No       No
## 3                    Medium metro Private insurance    Yes       No
## 4                    Medium metro           Medicare     No       No
## 5              Large fringe metro Private insurance     No       No
## 6             Large central metro Private insurance     No      Yes
## 7  Micropolitan/noncore (nonmetro)          Medicaid     No      Yes
## 8                    Medium metro           Medicare     No      Yes
## 9                    Medium metro Private insurance     No       No
## 10 Micropolitan/noncore (nonmetro)          Medicaid     No       No
##                     SENBEFOR        PASTVIS
## 1          No, new patient Not applicable
## 2  Yes, established patient              4
## 3  Yes, established patient              2
## 4  Yes, established patient              2
## 5  Yes, established patient              1
## 6  Yes, established patient              5
## 7  Yes, established patient              4
## 8  Yes, established patient              0
## 9  Yes, established patient              3
## 10 Yes, established patient              0
##                                 MAJOR WEEKEND
## 1  New problem (less than 3 mos. onset)      No
## 2              Chronic problem, routine      No
## 3  New problem (less than 3 mos. onset)      No
## 4              Chronic problem, routine      No
## 5  New problem (less than 3 mos. onset)      No
## 6              Chronic problem, routine      No
## 7              Chronic problem, routine      No
## 8  New problem (less than 3 mos. onset)      No
## 9                      Pre-/Post-surgery      No
## 10             Chronic problem, routine      No
```

```r
#sample.kmode$modes




#sample.dist2   <- sample.dist^2
#sk2   <- silhouette(sample.kmode$cluster, sample.dist2)
#plot(sk2)
```

```
#sample1 <- data.matrix(sample)
#sample1 <- model.matrix(sample1)
library(mclust)
```

```
## Package 'mclust' version 5.1
```

```
## Type 'citation("mclust")' for citing this R package in publications.
```

```
#View(sample)
#d_clust <- Mclust(as.matrix(sample), G=1:20)
```

```
kable(cluster.tbl, col.names = c("Urban/Rural", "Pay Type", "Injury", "Primary Care", "Seen Before", "P
      caption = "Clustering Table \\label{tab:clust}")
```

Table 1: Clustering Table

Urban/Rural	Pay Type	Injury	Primary Care	Seen Before	Past Visits
Medium metro	Private insurance	No	No	No, new patient	Not applicable
Large central metro	Medicare	No	No	Yes, established patient	4
Medium metro	Private insurance	Yes	No	Yes, established patient	2
Medium metro	Medicare	No	No	Yes, established patient	2
Large fringe metro	Private insurance	No	No	Yes, established patient	1
Large central metro	Private insurance	No	Yes	Yes, established patient	5
Micropolitan/noncore (nonmetro)	Medicaid	No	Yes	Yes, established patient	4
Medium metro	Medicare	No	Yes	Yes, established patient	0
Medium metro	Private insurance	No	No	Yes, established patient	3
Micropolitan/noncore (nonmetro)	Medicaid	No	No	Yes, established patient	0