

# MakeDataset

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3/24/2020

```
# set pdf files path  
path.files <- "data-files/covid"
```

```
# check store files  
file_vector <- list.files(path = path.files)  
file_vector ##>% head()
```

```
## [1] "15 New Presumptive Positive Cases of COVID-19 Identified by Massachusetts State Public Health Lab  
## [2] "covid-19-case-report-3-10-2020.pdf"  
## [3] "covid-19-case-report-3-11-2020.pdf"  
## [4] "covid-19-case-report-3-12-2020.pdf"  
## [5] "covid-19-case-report-3-13-2020.pdf"  
## [6] "covid-19-case-report-3-14-2020.pdf"  
## [7] "covid-19-case-report-3-15-2020.pdf"  
## [8] "covid-19-case-report-3-16-2020.pdf"  
## [9] "covid-19-case-report-3-17-2020.pdf"  
## [10] "covid-19-case-report-3-18-2020.pdf"  
## [11] "covid-19-case-report-3-19-2020.pdf"  
## [12] "covid-19-case-report-3-20-2020.pdf"  
## [13] "covid-19-case-report-3-21-2020.pdf"  
## [14] "covid-19-case-report-3-22-2020.pdf"  
## [15] "covid-19-case-report-3-23-2020.pdf"  
## [16] "covid-19-case-report-3-24-2020.pdf"  
## [17] "First Presumptive Positive Case of COVID-19 Identified by Massachusetts State Public Health Lab  
## [18] "Five New Presumptive Positive Cases of COVID-19 Identified by Massachusetts State Public Health  
## [19] "Five New Presumptive Positive Cases of COVID-19 Identified by Massachusetts State Public Health  
## [20] "Second Presumptive Positive Case of COVID-19 Identified by Massachusetts State Public Health Lab"
```

```
# return the relevant files  
pdf_list <- file_vector[grep("covid-19-case-report", file_vector)]  
pdf_list
```

```
## [1] "covid-19-case-report-3-10-2020.pdf" "covid-19-case-report-3-11-2020.pdf"  
## [3] "covid-19-case-report-3-12-2020.pdf" "covid-19-case-report-3-13-2020.pdf"  
## [5] "covid-19-case-report-3-14-2020.pdf" "covid-19-case-report-3-15-2020.pdf"  
## [7] "covid-19-case-report-3-16-2020.pdf" "covid-19-case-report-3-17-2020.pdf"  
## [9] "covid-19-case-report-3-18-2020.pdf" "covid-19-case-report-3-19-2020.pdf"  
## [11] "covid-19-case-report-3-20-2020.pdf" "covid-19-case-report-3-21-2020.pdf"  
## [13] "covid-19-case-report-3-22-2020.pdf" "covid-19-case-report-3-23-2020.pdf"  
## [15] "covid-19-case-report-3-24-2020.pdf"
```

```
# read the pdf text
pdf_text("data-files/covid/covid-19-case-report-3-10-2020.pdf") %>% strsplit(split = "\n")
```

```
## [[1]]
## [1] "MASSACHUSETTS DEPARTMENT OF PUBLIC HEALTH"
## [2] "Coronavirus Disease 2019 (COVID-19) Cases in MA"
## [3] "As of March 10, 2020"
## [4] "Cases reported"
## [5] "Total confirmed and presumptive positive cases = 92"
## [6] "          Confirmed          1"
## [7] "          Presumptive        91"
## [8] "          Total              92"
## [9] "Statistics"
## [10] "Statistics based on above confirmed and presumptive cases:"
## [11] "          NUMBER OF CONFIRMED"
## [12] "          CATEGORY          AND PRESUMPTIVE CASES"
## [13] "          County"
## [14] "          Berkshire          7"
## [15] "          Essex              1"
## [16] "          Middlesex          41"
## [17] "          Norfolk            22"
## [18] "          Suffolk            20"
## [19] "          Worcester          1"
## [20] "          Sex"
## [21] "          Female            40"
## [22] "          Male              52"
## [23] "          Exposure"
## [24] "          Biogen employees/contacts 70"
## [25] "          Travel related      4"
## [26] "          Under investigation 18"
## [27] "          Hospitalization"
## [28] "          Patient was hospitalized 6"
## [29] "          Patient was not hospitalized 62"
## [30] "          Under investigation 24"
## [31] "This chart will be updated daily by 4pm."
```

```
corpus_raw <- data.frame("file" = c(NULL), "text" = c(NULL))

for (i in 1:length(pdf_list))
{
  document_text <- pdf_text(paste(path.files, "/", pdf_list[i], sep = "")) %>% readr::read_lines()

  document <- data.frame("file" = rep(gsub(x = pdf_list[i], pattern = ".pdf", replacement = ""), length(pdf_list)))
  corpus_raw <- rbind(corpus_raw, document)
}
```

```
head(corpus_raw)
```

```
##               file
## 1 covid-19-case-report-3-10-2020
## 2 covid-19-case-report-3-10-2020
```

```
## 3 covid-19-case-report-3-10-2020
## 4 covid-19-case-report-3-10-2020
## 5 covid-19-case-report-3-10-2020
## 6 covid-19-case-report-3-10-2020
##
##                                     text
## 1      MASSACHUSETTS DEPARTMENT OF PUBLIC HEALTH
## 2      Coronavirus Disease 2019 (COVID-19) Cases in MA
## 3                                     As of March 10, 2020
## 4                                     Cases reported
## 5 Total confirmed and presumptive positive cases = 92
## 6                                     Confirmed          1
```

```
data.init <- corpus_raw %>% filter(
  grepl(("As of"), text, ignore.case = FALSE)|
  grepl(("Total confirmed and presumptive positive cases"),text, ignore.case = FALSE)|
  grepl(("Confirmed"),text, ignore.case = TRUE)|
  grepl(("Presumptive"), text, ignore.case = TRUE)|
  grepl(("Total"), text, ignore.case = FALSE)|
  grepl(("Patient was hospitalized"), text, ignore.case = FALSE)|
  grepl(("Patient was not hospitalized"), text, ignore.case = FALSE)|
  grepl(("Under investigation"), text, ignore.case = FALSE)
)
```

```
data.init$text <- as.character(data.init$text)
(data.init)
```

```
##
##                                     file
## 1 covid-19-case-report-3-10-2020
## 2 covid-19-case-report-3-10-2020
## 3 covid-19-case-report-3-10-2020
## 4 covid-19-case-report-3-10-2020
## 5 covid-19-case-report-3-10-2020
## 6 covid-19-case-report-3-10-2020
## 7 covid-19-case-report-3-10-2020
## 8 covid-19-case-report-3-10-2020
## 9 covid-19-case-report-3-10-2020
## 10 covid-19-case-report-3-10-2020
## 11 covid-19-case-report-3-10-2020
## 12 covid-19-case-report-3-10-2020
## 13 covid-19-case-report-3-11-2020
## 14 covid-19-case-report-3-11-2020
## 15 covid-19-case-report-3-11-2020
## 16 covid-19-case-report-3-11-2020
## 17 covid-19-case-report-3-11-2020
## 18 covid-19-case-report-3-11-2020
## 19 covid-19-case-report-3-11-2020
## 20 covid-19-case-report-3-11-2020
## 21 covid-19-case-report-3-11-2020
## 22 covid-19-case-report-3-11-2020
## 23 covid-19-case-report-3-11-2020
## 24 covid-19-case-report-3-12-2020
```

## 25 covid-19-case-report-3-12-2020  
## 26 covid-19-case-report-3-12-2020  
## 27 covid-19-case-report-3-12-2020  
## 28 covid-19-case-report-3-12-2020  
## 29 covid-19-case-report-3-12-2020  
## 30 covid-19-case-report-3-12-2020  
## 31 covid-19-case-report-3-12-2020  
## 32 covid-19-case-report-3-12-2020  
## 33 covid-19-case-report-3-12-2020  
## 34 covid-19-case-report-3-12-2020  
## 35 covid-19-case-report-3-13-2020  
## 36 covid-19-case-report-3-13-2020  
## 37 covid-19-case-report-3-13-2020  
## 38 covid-19-case-report-3-13-2020  
## 39 covid-19-case-report-3-13-2020  
## 40 covid-19-case-report-3-13-2020  
## 41 covid-19-case-report-3-13-2020  
## 42 covid-19-case-report-3-13-2020  
## 43 covid-19-case-report-3-13-2020  
## 44 covid-19-case-report-3-13-2020  
## 45 covid-19-case-report-3-13-2020  
## 46 covid-19-case-report-3-14-2020  
## 47 covid-19-case-report-3-14-2020  
## 48 covid-19-case-report-3-14-2020  
## 49 covid-19-case-report-3-14-2020  
## 50 covid-19-case-report-3-14-2020  
## 51 covid-19-case-report-3-14-2020  
## 52 covid-19-case-report-3-14-2020  
## 53 covid-19-case-report-3-14-2020  
## 54 covid-19-case-report-3-14-2020  
## 55 covid-19-case-report-3-14-2020  
## 56 covid-19-case-report-3-14-2020  
## 57 covid-19-case-report-3-15-2020  
## 58 covid-19-case-report-3-15-2020  
## 59 covid-19-case-report-3-15-2020  
## 60 covid-19-case-report-3-15-2020  
## 61 covid-19-case-report-3-15-2020  
## 62 covid-19-case-report-3-15-2020  
## 63 covid-19-case-report-3-15-2020  
## 64 covid-19-case-report-3-15-2020  
## 65 covid-19-case-report-3-15-2020  
## 66 covid-19-case-report-3-15-2020  
## 67 covid-19-case-report-3-15-2020  
## 68 covid-19-case-report-3-16-2020  
## 69 covid-19-case-report-3-16-2020  
## 70 covid-19-case-report-3-16-2020  
## 71 covid-19-case-report-3-16-2020  
## 72 covid-19-case-report-3-16-2020  
## 73 covid-19-case-report-3-16-2020  
## 74 covid-19-case-report-3-16-2020  
## 75 covid-19-case-report-3-16-2020  
## 76 covid-19-case-report-3-16-2020  
## 77 covid-19-case-report-3-17-2020  
## 78 covid-19-case-report-3-17-2020

## 79 covid-19-case-report-3-17-2020  
## 80 covid-19-case-report-3-17-2020  
## 81 covid-19-case-report-3-17-2020  
## 82 covid-19-case-report-3-17-2020  
## 83 covid-19-case-report-3-17-2020  
## 84 covid-19-case-report-3-17-2020  
## 85 covid-19-case-report-3-17-2020  
## 86 covid-19-case-report-3-18-2020  
## 87 covid-19-case-report-3-18-2020  
## 88 covid-19-case-report-3-18-2020  
## 89 covid-19-case-report-3-18-2020  
## 90 covid-19-case-report-3-18-2020  
## 91 covid-19-case-report-3-18-2020  
## 92 covid-19-case-report-3-18-2020  
## 93 covid-19-case-report-3-18-2020  
## 94 covid-19-case-report-3-18-2020  
## 95 covid-19-case-report-3-19-2020  
## 96 covid-19-case-report-3-19-2020  
## 97 covid-19-case-report-3-19-2020  
## 98 covid-19-case-report-3-19-2020  
## 99 covid-19-case-report-3-19-2020  
## 100 covid-19-case-report-3-19-2020  
## 101 covid-19-case-report-3-19-2020  
## 102 covid-19-case-report-3-19-2020  
## 103 covid-19-case-report-3-19-2020  
## 104 covid-19-case-report-3-20-2020  
## 105 covid-19-case-report-3-20-2020  
## 106 covid-19-case-report-3-20-2020  
## 107 covid-19-case-report-3-20-2020  
## 108 covid-19-case-report-3-20-2020  
## 109 covid-19-case-report-3-20-2020  
## 110 covid-19-case-report-3-20-2020  
## 111 covid-19-case-report-3-20-2020  
## 112 covid-19-case-report-3-20-2020  
## 113 covid-19-case-report-3-21-2020  
## 114 covid-19-case-report-3-21-2020  
## 115 covid-19-case-report-3-21-2020  
## 116 covid-19-case-report-3-21-2020  
## 117 covid-19-case-report-3-21-2020  
## 118 covid-19-case-report-3-21-2020  
## 119 covid-19-case-report-3-21-2020  
## 120 covid-19-case-report-3-21-2020  
## 121 covid-19-case-report-3-21-2020  
## 122 covid-19-case-report-3-22-2020  
## 123 covid-19-case-report-3-22-2020  
## 124 covid-19-case-report-3-22-2020  
## 125 covid-19-case-report-3-22-2020  
## 126 covid-19-case-report-3-22-2020  
## 127 covid-19-case-report-3-22-2020  
## 128 covid-19-case-report-3-22-2020  
## 129 covid-19-case-report-3-22-2020  
## 130 covid-19-case-report-3-22-2020  
## 131 covid-19-case-report-3-23-2020  
## 132 covid-19-case-report-3-23-2020

## 133 covid-19-case-report-3-23-2020  
 ## 134 covid-19-case-report-3-23-2020  
 ## 135 covid-19-case-report-3-23-2020  
 ## 136 covid-19-case-report-3-23-2020  
 ## 137 covid-19-case-report-3-23-2020  
 ## 138 covid-19-case-report-3-23-2020  
 ## 139 covid-19-case-report-3-23-2020  
 ## 140 covid-19-case-report-3-24-2020  
 ## 141 covid-19-case-report-3-24-2020  
 ## 142 covid-19-case-report-3-24-2020  
 ## 143 covid-19-case-report-3-24-2020  
 ## 144 covid-19-case-report-3-24-2020  
 ## 145 covid-19-case-report-3-24-2020  
 ## 146 covid-19-case-report-3-24-2020  
 ## 147 covid-19-case-report-3-24-2020  
 ## 148 covid-19-case-report-3-24-2020

##  
 ## 1 As of March 10, 2020  
 ## 2 Total confirmed and presumptive positive cases =  
 ## 3 Confirmed  
 ## 4 Presumptive  
 ## 5 Total  
 ## 6 Statistics based on above confirmed and presumptive cases  
 ## 7 NUMBER OF CONFIRMED AND PRESUMPTIVE CASES  
 ## 8 CATEGORY  
 ## 9 Under investigation  
 ## 10 Patient was hospitalized  
 ## 11 Patient was not hospitalized  
 ## 12 Under investigation  
 ## 13 As of March 11, 2020  
 ## 14 Total confirmed and presumptive positive cases =  
 ## 15 Confirmed  
 ## 16 Presumptive  
 ## 17 Total  
 ## 18 Statistics based on above confirmed and presumptive cases  
 ## 19 NUMBER OF CONFIRMED AND PRESUMPTIVE CASES  
 ## 20 CATEGORY  
 ## 21 Under investigation  
 ## 22 Patient was hospitalized  
 ## 23 Patient was not hospitalized  
 ## 24 As of March 12, 2020  
 ## 25 Total confirmed and presumptive positive cases =  
 ## 26 Confirmed  
 ## 27 Presumptive  
 ## 28 Total  
 ## 29 Statistics based on above confirmed and presumptive cases  
 ## 30 NUMBER OF CONFIRMED AND PRESUMPTIVE CASES  
 ## 31 CATEGORY  
 ## 32 Under investigation  
 ## 33 Patient was hospitalized  
 ## 34 Patient was not hospitalized  
 ## 35 As of March 13, 2020  
 ## 36 Total confirmed and presumptive positive cases =  
 ## 37 Confirmed

```

## 38 Presumptive
## 39 Total
## 40 Statistics based on above confirmed and presumptive cases
## 41 NUMBER OF CONFIRMED AND PRESUMPTIVE CASES
## 42 CATEGORY
## 43 Under investigation
## 44 Patient was hospitalized
## 45 Patient was not hospitalized
## 46 As of March 14, 2020
## 47 Total confirmed and presumptive positive cases =
## 48 Confirmed
## 49 Presumptive
## 50 Total
## 51 Statistics based on above confirmed and presumptive cases
## 52 NUMBER OF CONFIRMED AND PRESUMPTIVE CASES
## 53 CATEGORY
## 54 Under investigation
## 55 Patient was hospitalized
## 56 Patient was not hospitalized
## 57 As of March 15, 2020
## 58 Total confirmed and presumptive positive cases =
## 59 Confirmed
## 60 Presumptive
## 61 Total
## 62 Statistics based on above confirmed and presumptive cases
## 63 NUMBER OF CONFIRMED AND PRESUMPTIVE CASES
## 64 CATEGORY
## 65 Under investigation
## 66 Patient was hospitalized
## 67 Patient was not hospitalized
## 68 As of March 16, 2020
## 69 Confirmed Cases Reported =
## 70 CATEGORY CONFIRMED CASES
## 71 Under investigation
## 72 Patient was hospitalized
## 73 Patient was not hospitalized
## 74 MA State Public Health Laboratory Total Positive* Total Tested
## 75 Laboratory** Total Positive Total Tested
## 76 Please note: Totals exclude 8 positive results received from CDC prior to 2/28/20
## 77 As of March 17, 2020
## 78 Confirmed Cases Reported =
## 79 CATEGORY CONFIRMED CASES
## 80 Under investigation
## 81 Patient was hospitalized
## 82 Patient was not hospitalized
## 83 MA State Public Health Laboratory Total Positive* Total Tested
## 84 Laboratory** Total Positive Total Tested
## 85 Please note: Totals exclude 8 positive results received from CDC prior to 2/28/20
## 86 As of March 18, 2020
## 87 Confirmed Cases Reported =
## 88 CATEGORY CONFIRMED CASES
## 89 Under investigation
## 90 Patient was hospitalized
## 91 Patient was not hospitalized

```

## 92	MA State Public Health Laboratory	Total Positive	Total Test
## 93	Laboratory	Total Positive	Total Test
## 94		***Totals include positive test results from	
## 95		As of March 19, 2	
## 96		Confirmed Cases Reported =	
## 97	CATEGORY	CONFIRMED C	
## 98	Under investigation		
## 99	Patient was hospitalized		
## 100	Patient was not hospitalized		
## 101	MA State Public Health Laboratory	Total Positive	Total Test
## 102	Laboratory	Total Positive	Total Test
## 103		***Totals include positive test results from	
## 104		As of March 20, 2	
## 105		Confirmed Cases Reported =	
## 106	CATEGORY	CONFIRMED C	
## 107	Under investigation		
## 108	Patient was hospitalized		
## 109	Patient was not hospitalized		
## 110	MA State Public Health Laboratory	Total Positive***	Total Test
## 111	Laboratory	Total Positive	Total Test
## 112		***Totals include positive test results from	
## 113		As of March 21, 2	
## 114		Confirmed Cases Reported =	
## 115	CATEGORY	CONFIRMED C	
## 116	Under investigation		
## 117	Patient was hospitalized		
## 118	Patient was not hospitalized		
## 119	MA State Public Health Laboratory	Total Positive***	Total Test
## 120	Laboratory	Total Positive	Total Test
## 121		***Totals include positive test results from	
## 122		As of March 22, 2	
## 123		Confirmed Cases Reported =	
## 124		NUMBER OF CONFIR	
## 125	Under investigation		
## 126	Patient was hospitalized		
## 127	Patient was not hospitalized		
## 128	MA State Public Health Laboratory	Total Positive***	Total Test
## 129	Laboratory	Total Positive	Total Test
## 130		***Totals include positive test results from	
## 131		As of March 23, 2	
## 132		Confirmed Cases Reported =	
## 133		NUMBER OF CONFIR	
## 134	Under investigation		
## 135	Patient was hospitalized		
## 136	Patient was not hospitalized		
## 137		Total Patients	Total Pati
## 138	Total Patients Tested	777	8
## 139		***Totals include positive test results from	
## 140		As of March 24, 2	
## 141		Confirmed Cases Reported =	
## 142		NUMBER OF CONFIR	
## 143	Under investigation		
## 144	Patient was hospitalized		
## 145	Patient was not hospitalized		



```
## 146          Laboratory          Total Patients          Total Pati
## 147          Total Patients Tested          1159          1
## 148                                     ***Totals include positive test results from (
```

```
# get the unique ids
unique.ids <- unique(data.init$file)

data2 <- data.frame(
  "File" = c("Initial"), "DateChar" = c("Initial"), "DateNum" = c("Initial"),
  "TotalConfirmed" = c(0), "Confirmed" = c(0),
  "Presumptive" = c(0), "Total" = c(0),
  "PatientsHospitalized" = c(0), "PatientsNotHospitalized" = c(0),
  "UnderInvestigation" = c(0), stringsAsFactors = FALSE)

for (id in unique.ids)

{
  sub.set <- data.init[data.init$file==id, ]
  # total confirmed cases
  len.list <- dim(sub.set)[1]
  #print(len.list)
  date.char <- NA; date.num <- NA; tcf <- NA; conf <- NA; pres <- NA
  total <- NA; ph <- NA; pnh <- NA; uinv <- NA;
  #print(len.list)
  for (val in c(1:len.list))
  {
    #char <- gsub("^[:space:]]+", '', gsub("[^[:alpha:]][:space:]]", '', sub.set$text[val]) )
    char <- gsub("[^[:alpha:]][:space:]]", '', sub.set$text[val])
    char <- gsub("^[:space:]]+", '', char)
    char <- gsub("[:space:]]*$", '', char)
    #print(char)

    if (str_detect(char, "As of"))
    {
      date.char <- char
      #print(date.char)
      date.num <- gsub("^[:space:]]+", '', gsub("[^[:digit:]][:space:]]", '', sub.set$text[val]) )
      #print(date.num)
    }
    else if (char == "Total confirmed and presumptive positive cases" | char == "Confirmed Cases Report")
    {
      tcf <- gsub("^[:space:]]+", '', gsub("[^[:digit:]][:space:]]", '', sub.set$text[val]) )
      #print(tcf)
    }
    else if (char == "Confirmed")
    {
      conf <- gsub("^[:space:]]+", '', gsub("[^[:digit:]][:space:]]", '', sub.set$text[val]) )
      #print(conf)
    }
    else if (char == "Presumptive")
    {
      pres <- gsub("^[:space:]]+", '', gsub("[^[:digit:]][:space:]]", '', sub.set$text[val]) )
    }
    else if (char == "Total")
```

```

    {
      total <- gsub("^[:space:]]+", '', gsub("[^[:digit:]][:space:]]", '', sub.set$text[val]) )
    }
  else if (char == "Patient was hospitalized")
  {
    ph <- gsub("^[:space:]]+", '', gsub("[^[:digit:]][:space:]]", '', sub.set$text[val]) )
  }
  else if (char == "Patient was not hospitalized")
  {
    pnh <- gsub("^[:space:]]+", '', gsub("[^[:digit:]][:space:]]", '', data.init$text[val]) )
  }
  else if (char == "Under investigation")
  {
    uinv <- gsub("^[:space:]]+", '', gsub("[^[:digit:]][:space:]]", '', sub.set$text[val]) )
  }
}

vec.vals <- c(id, date.char, date.num, as.double(tcf), as.double(conf), as.double(pres), as.double(

#print(vec.vals)
#print(conf)

data2 <- rbind(data2, vec.vals)
}

```

```

data2["Date"] <- paste(data2$DateChar, data2$DateNum)
data2

```

```

##           File      DateChar DateNum TotalConfirmed Confirmed
## 1           Initial      Initial Initial              0         0
## 2 covid-19-case-report-3-10-2020 As of March 10 2020          92         1
## 3 covid-19-case-report-3-11-2020 As of March 11 2020          95         6
## 4 covid-19-case-report-3-12-2020 As of March 12 2020         108         6
## 5 covid-19-case-report-3-13-2020 As of March 13 2020         123        18
## 6 covid-19-case-report-3-14-2020 As of March 14 2020         138        19
## 7 covid-19-case-report-3-15-2020 As of March 15 2020         164        45
## 8 covid-19-case-report-3-16-2020 As of March 16 2020         197       <NA>
## 9 covid-19-case-report-3-17-2020 As of March 17 2020         218       <NA>
## 10 covid-19-case-report-3-18-2020 As of March 18 2020         256       <NA>
## 11 covid-19-case-report-3-19-2020 As of March 19 2020         328       <NA>
## 12 covid-19-case-report-3-20-2020 As of March 20 2020         413       <NA>
## 13 covid-19-case-report-3-21-2020 As of March 21 2020         525       <NA>
## 14 covid-19-case-report-3-22-2020 As of March 22 2020         646       <NA>
## 15 covid-19-case-report-3-23-2020 As of March 23 2020         777       <NA>
## 16 covid-19-case-report-3-24-2020 As of March 24 2020        1159       <NA>
## Presumptive Total PatientsHospitalized PatientsNotHospitalized
## 1           0         0              0              0
## 2          91        92              6             62
## 3          89        95              8             62
## 4         102       108             10             62
## 5         105       123             10             62
## 6         119       138             11             62

```

## 7	119	164	13	62
## 8	<NA>	<NA>	14	<NA>
## 9	<NA>	<NA>	21	<NA>
## 10	<NA>	<NA>	27	<NA>
## 11	<NA>	<NA>	43	<NA>
## 12	<NA>	<NA>	58	<NA>
## 13	<NA>	<NA>	61	<NA>
## 14	<NA>	<NA>	71	<NA>
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## 16	<NA>	<NA>	94	<NA>

##	UnderInvestigation	Date
## 1	0	Initial Initial
## 2	24 As of March 10 2020	
## 3	14 As of March 11 2020	
## 4	13 As of March 12 2020	
## 5	16 As of March 13 2020	
## 6	21 As of March 14 2020	
## 7	35 As of March 15 2020	
## 8	51 As of March 16 2020	
## 9	59 As of March 17 2020	
## 10	95 As of March 18 2020	
## 11	151 As of March 19 2020	
## 12	204 As of March 20 2020	
## 13	306 As of March 21 2020	
## 14	396 As of March 22 2020	
## 15	499 As of March 23 2020	
## 16	854 As of March 24 2020	