**Codebook**

DETECT MedStar EMS Data

February 2017 - February 2018

|  |  |
| --- | --- |
| **Dataset name:** | ms\_data |
| **Dataset size:** | 18.4 Mb |
| **Column count:** | 68 |
| **Row count:** | 28,228 |
| **Updated date:** | 2023-05-22 |

**Description:**

In collaboration with MedStar Mobile Healthcare (https://www.medstar911.org/).

Data was originally collected during the course of MedStar operations from February 2017 - February 2018 as part of the Detection of Elder abuse Through Emergency Care Technicans (DETECT) screening tool pilot project (doi: 10.1080/08946566.2018.1564104).

Both MedStar electronic Patient Care Record (ePCR) data and MedStar Compliance data was utilized for this data set.

The DETECT screening tool, made available on MedStar ePCR systems when MedStar EMS personnel encountered patients 65 years of age or older. MedStar Mobile Healthcare operations covered both 911 and interfacility calls for service within the Dallas-Fort Worth Metroplex in the State of Texas, with primary coverage in the Fort Worth region.

**Column Attributes:**

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| **1** | **Column name:** | | | **ms\_id** | | | |
|  | Column description: | | | Unique subject ID created from probabilistic matching using fastLink, manual cleaning | | | |
|  | Source information: | | | MedStar ePCR Data | | | |
|  | Column type: | | | Unique Subject ID | | | |
|  | Data type: | | | Integer | | | |
|  | Unique non-missing value count: | | | 16,578 | | | |
|  | Missing value count: | | | 0 | | | |
| Min | | Mean | Median | | Max | SD |
| 1.00 | | 6594.34 | 5750.00 | | 16724.00 | 4868.35 |

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| **2** | **Column name:** | | | **ms\_epcr\_row** | | | |
|  | Column description: | | | Identifies row number of the observation in original MedStar ePCR data set | | | |
|  | Source information: | | | MedStar ePCR Data | | | |
|  | Column type: | | | Record Number | | | |
|  | Data type: | | | Integer | | | |
|  | Unique non-missing value count: | | | 28,228 | | | |
|  | Missing value count: | | | 0 | | | |
| Min | | Mean | Median | | Max | SD |
| 1.00 | | 17834.33 | 17641.00 | | 36304.00 | 10575.48 |

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| **3** | **Column name:** | | | **ms\_comp\_row** | | | |
|  | Column description: | | | Identifies row number of the observation in the original MedStar Compliance data set | | | |
|  | Source information: | | | MedStar Compliance Data | | | |
|  | Column type: | | | Record Number | | | |
|  | Data type: | | | Integer | | | |
|  | Unique non-missing value count: | | | 110 | | | |
|  | Missing value count: | | | 28,118 | | | |
|  | Skip pattern: | | | Missing values indicate that data for a given observation did not match any value in the Compliance data set | | | |
| Min | | Mean | Median | | Max | SD |
| 2.00 | | 105.62 | 107.50 | | 216.00 | 61.62 |

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| **4** | **Column name:** | **pt\_name\_full** |
|  | Column description: | Patient's full name (First Middle Last) |
|  | Source information: | MedStar ePCR Data |
|  | Column type: | Name |
|  | Data type: | Character |
|  | Unique non-missing value count: | 17,925 |
|  | Missing value count: | 16 |

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| **5** | **Column name:** | **pt\_name\_first** |
|  | Column description: | Patient's first name as entered by EMS |
|  | Source information: | MedStar ePCR Data |
|  | Column type: | Name |
|  | Data type: | Character |
|  | Unique non-missing value count: | 3,546 |
|  | Missing value count: | 16 |

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| **6** | **Column name:** | **pt\_name\_middle** |
|  | Column description: | Patient's middle name as entered by EMS |
|  | Source information: | MedStar ePCR Data |
|  | Column type: | Name |
|  | Data type: | Character |
|  | Unique non-missing value count: | 430 |
|  | Missing value count: | 24,288 |

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| **7** | **Column name:** | **pt\_name\_last** |
|  | Column description: | Patient's last name as entered by EMS |
|  | Source information: | MedStar ePCR Data |
|  | Column type: | Name |
|  | Data type: | Character |
|  | Unique non-missing value count: | 7,304 |
|  | Missing value count: | 16 |

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| **8** | **Column name:** | | | **pt\_age** | | | |
|  | Column description: | | | Patient's Age as entered by EMS | | | |
|  | Source information: | | | MedStar ePCR Data | | | |
|  | Column type: | | | Age | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 48 | | | |
|  | Missing value count: | | | 0 | | | |
| Min | | Mean | Median | | Max | SD |
| 65.00 | | 76.48 | 75.00 | | 119.00 | 8.44 |

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| **9** | **Column name:** | **pt\_dob** |
|  | Column description: | Patient's date of birth as entered by EMS |
|  | Source information: | MedStar ePCR Data |
|  | Column type: | Date of Birth |
|  | Data type: | Character |
|  | Unique non-missing value count: | 8,524 |
|  | Missing value count: | 103 |

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| **10** | **Column name:** | | | **pt\_dob\_year** | | | |
|  | Column description: | | | Patient's year of birth as entered by EMS | | | |
|  | Source information: | | | MedStar ePCR Data | | | |
|  | Column type: | | | Year | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 64 | | | |
|  | Missing value count: | | | 103 | | | |
| Min | | Mean | Median | | Max | SD |
| 1900.00 | | 1940.21 | 1941.00 | | 2017.00 | 8.57 |

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| **11** | **Column name:** | | | **pt\_dob\_month** | | | |
|  | Column description: | | | Patient's month of birth as entered by EMS | | | |
|  | Source information: | | | MedStar ePCR Data | | | |
|  | Column type: | | | Month | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 12 | | | |
|  | Missing value count: | | | 103 | | | |
| Min | | Mean | Median | | Max | SD |
| 1.00 | | 6.54 | 7.00 | | 12.00 | 3.47 |

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| **12** | **Column name:** | | | **pt\_dob\_day** | | | |
|  | Column description: | | | Patient's day of birth as entered by EMS | | | |
|  | Source information: | | | MedStar ePCR Data | | | |
|  | Column type: | | | Day | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 31 | | | |
|  | Missing value count: | | | 103 | | | |
| Min | | Mean | Median | | Max | SD |
| 1.00 | | 15.53 | 15.00 | | 31.00 | 8.95 |

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| **13** | **Column name:** | | **pt\_race** | | | |
|  | Column description: | | Patient's race as entered by EMS | | | |
|  | Source information: | | MedStar ePCR Data | | | |
|  | Column type: | | Single Choice, Multiple Options | | | |
|  | Data type: | | Ordered, factor | | | |
|  | Unique non-missing value count: | | 7 | | | |
|  | Missing value count: | | 676 | | | |
| Categories | | Frequency | | Cumulative Frequency | Percent |
| White | | 17,406 | | 17,406 | 61.66 |
| Black or African American | | 6,563 | | 23,969 | 23.25 |
| American Indian or Alaska Native | | 15 | | 23,984 | 0.05 |
| Asian | | 348 | | 24,332 | 1.23 |
| Native Hawaiian or Other Pacific Islander | | 29 | | 24,361 | 0.10 |
| Multiracial | | 21 | | 24,382 | 0.07 |
| Other Race | | 3,170 | | 27,552 | 11.23 |
| Missing | | 676 | | 28,228 | 2.39 |

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| **14** | **Column name:** | | **pt\_hispanic** | | | |
|  | Column description: | | Patient's ethnic group based on endorsement of Hispanic/Latino heritage in EMS ePCR | | | |
|  | Source information: | | MedStar ePCR Data | | | |
|  | Column type: | | Binary Category | | | |
|  | Data type: | | Ordered, factor | | | |
|  | Unique non-missing value count: | | 2 | | | |
|  | Missing value count: | | 676 | | | |
|  | Skip pattern: | | No value entered if no racial information was provided in EMS ePCR | | | |
| Categories | | Frequency | | Cumulative Frequency | Percent |
| True | | 2,769 | | 2,769 | 9.81 |
| False | | 24,783 | | 27,552 | 87.80 |
| Missing | | 676 | | 28,228 | 2.39 |

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| **15** | **Column name:** | | **pt\_gender** | | | |
|  | Column description: | | Patient's gender as entered by EMS, based on binary 'MALE/FEMALE' classification | | | |
|  | Source information: | | MedStar ePCR Data | | | |
|  | Column type: | | Binary Category | | | |
|  | Data type: | | Character | | | |
|  | Unique non-missing value count: | | 2 | | | |
|  | Missing value count: | | 332 | | | |
| Categories | | Frequency | | Cumulative Frequency | Percent |
| Female | | 16,608 | | 16,608 | 58.84 |
| Male | | 11,288 | | 27,896 | 39.99 |
| Missing | | 332 | | 28,228 | 1.18 |

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| **16** | **Column name:** | | **pt\_homeless** | | | |
|  | Column description: | | Indicates if the data in original values for Patient's Address or Comments entered by EMS staff in the Report Number field of the ePCR indicated that patient was 'Homeless' or 'Transient' | | | |
|  | Source information: | | MedStar ePCR Data | | | |
|  | Column type: | | Binary Category | | | |
|  | Data type: | | Ordered, factor | | | |
|  | Unique non-missing value count: | | 2 | | | |
|  | Missing value count: | | 27,750 | | | |
|  | Skip pattern: | | No value entered if there was not information for patient address or report comments in ePCR | | | |
| Categories | | Frequency | | Cumulative Frequency | Percent |
| True | | 5 | | 5 | 0.02 |
| False | | 473 | | 478 | 1.68 |
| Missing | | 27,750 | | 28,228 | 98.31 |

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| **17** | **Column name:** | **pt\_address\_pobox** |
|  | Column description: | PO BOX information that was provided as the patient's address in the ePCR |
|  | Source information: | MedStar ePCR Data |
|  | Column type: | Address |
|  | Data type: | Character |
|  | Unique non-missing value count: | 55 |
|  | Missing value count: | 28,159 |

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| **18** | **Column name:** | **pt\_address\_num** |
|  | Column description: | Street number of Patient Address, contains letters and numbers  For an address of 123 Example St #45, City, TX, 77054 the Address Number would be '123' |
|  | Source information: | MedStar ePCR Data |
|  | Column type: | Address |
|  | Data type: | Character |
|  | Unique non-missing value count: | 4,425 |
|  | Missing value count: | 583 |

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| **19** | **Column name:** | **pt\_address\_street** |
|  | Column description: | Street Name of Patient Address  For an address of 123 Example St #45, City, TX, 77054 the Street Name would be 'Example St' |
|  | Source information: | MedStar ePCR Data |
|  | Column type: | Address |
|  | Data type: | Character |
|  | Unique non-missing value count: | 7,382 |
|  | Missing value count: | 562 |
|  | Skip pattern: | Intersections and values relating to either an 'Unknown' address or that the patient was Homeless/Transient were converted to missing values |

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| **20** | **Column name:** | **pt\_address\_unit** |
|  | Column description: | Unit Number of Patient Address  For an address of 123 Example St #45, City, TX, 77054 the Unit Number would be '45' |
|  | Source information: | MedStar ePCR Data |
|  | Column type: | Address |
|  | Data type: | Character |
|  | Unique non-missing value count: | 192 |
|  | Missing value count: | 27,936 |

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| **21** | **Column name:** | **pt\_address\_city** |
|  | Column description: | City of Patient Address  For an address of 123 Example St #45, City, TX, 77054 the City would be 'City' |
|  | Source information: | MedStar ePCR Data |
|  | Column type: | Address |
|  | Data type: | Factor |
|  | Unique non-missing value count: | 342 |
|  | Missing value count: | 247 |

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| **22** | **Column name:** | | **pt\_address\_state** | | | |
|  | Column description: | | Two-letter state abbreviation of the State of Patient Address, with two-letter country prefix  For an address of 123 Example St #45, City, TX, 77054 the City would be 'US-TX' | | | |
|  | Source information: | | MedStar ePCR Data | | | |
|  | Column type: | | Address | | | |
|  | Data type: | | Character | | | |
|  | Unique non-missing value count: | | 41 | | | |
|  | Missing value count: | | 246 | | | |
| Categories with Smallest Values | | Frequency | | Categories with Largest Values | Frequency |
| CA-QC | | 1 | | US-FL | 13 |
| MX-CH | | 1 | | US-OK | 14 |
| MX-CI | | 1 | | US-CA | 18 |
| MX-MX | | 1 | | Missing | 246 |
| US-GA | | 1 | | US-TX | 27822 |

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| **23** | **Column name:** | **pt\_address\_zip** |
|  | Column description: | Zip Code of Patient Address  For an address of 123 Example St #45, City, TX, 77054 the City would be '77054' |
|  | Source information: | MedStar ePCR Data |
|  | Column type: | Address |
|  | Data type: | Factor |
|  | Unique non-missing value count: | 465 |
|  | Missing value count: | 251 |

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| **24** | **Column name:** | | **detect\_cond\_anxious** | | | |
|  | Column description: | | Does the patient or older adult appear depressed, anxious, or emotionally distressed for reasons other than their immediate medical condition? | | | |
|  | Source information: | | DETECT Tool Questionnaire (MedStar ePCR Data) | | | |
|  | Column type: | | Single Choice, Multiple Options | | | |
|  | Data type: | | Ordered, factor | | | |
|  | Unique non-missing value count: | | 2 | | | |
|  | Missing value count: | | 4,232 | | | |
| Categories | | Frequency | | Cumulative Frequency | Percent |
| YES | | 136 | | 136 | 0.48 |
| NO | | 23,860 | | 23,996 | 84.53 |
| Missing | | 4,232 | | 28,228 | 14.99 |

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| **25** | **Column name:** | | **detect\_cond\_hygiene** | | | |
|  | Column description: | | Does the patient or older adult have poor personal hygiene (including soiled in urine or feces)? | | | |
|  | Source information: | | DETECT Tool Questionnaire (MedStar ePCR Data) | | | |
|  | Column type: | | Single Choice, Multiple Options | | | |
|  | Data type: | | Ordered, factor | | | |
|  | Unique non-missing value count: | | 2 | | | |
|  | Missing value count: | | 4,233 | | | |
| Categories | | Frequency | | Cumulative Frequency | Percent |
| YES | | 349 | | 349 | 1.24 |
| NO | | 23,646 | | 23,995 | 83.77 |
| Missing | | 4,233 | | 28,228 | 15.00 |

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| **26** | **Column name:** | | **detect\_cond\_needs** | | | |
|  | Column description: | | Does the patient or older adult have unmet needs for assistance with eating, toileting, transferring, dressing, or bathing? | | | |
|  | Source information: | | DETECT Tool Questionnaire (MedStar ePCR Data) | | | |
|  | Column type: | | Single Choice, Multiple Options | | | |
|  | Data type: | | Ordered, factor | | | |
|  | Unique non-missing value count: | | 2 | | | |
|  | Missing value count: | | 4,240 | | | |
| Categories | | Frequency | | Cumulative Frequency | Percent |
| YES | | 303 | | 303 | 1.07 |
| NO | | 23,685 | | 23,988 | 83.91 |
| Missing | | 4,240 | | 28,228 | 15.02 |

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| **27** | **Column name:** | | **detect\_cond\_clothes** | | | |
|  | Column description: | | Is the patient or older adult inadequately clothed or wearing dirty, torn, or soiled clothing? | | | |
|  | Source information: | | DETECT Tool Questionnaire (MedStar ePCR Data) | | | |
|  | Column type: | | Single Choice, Multiple Options | | | |
|  | Data type: | | Ordered, factor | | | |
|  | Unique non-missing value count: | | 2 | | | |
|  | Missing value count: | | 4,237 | | | |
| Categories | | Frequency | | Cumulative Frequency | Percent |
| YES | | 281 | | 281 | 1.00 |
| NO | | 23,710 | | 23,991 | 83.99 |
| Missing | | 4,237 | | 28,228 | 15.01 |

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| **28** | **Column name:** | | **detect\_meds\_difficulty** | | | |
|  | Column description: | | Does the patient or older adult have difficulties taking their prescribed medications as directed? | | | |
|  | Source information: | | DETECT Tool Questionnaire (MedStar ePCR Data) | | | |
|  | Column type: | | Single Choice, Multiple Options | | | |
|  | Data type: | | Ordered, factor | | | |
|  | Unique non-missing value count: | | 2 | | | |
|  | Missing value count: | | 4,238 | | | |
| Categories | | Frequency | | Cumulative Frequency | Percent |
| YES | | 243 | | 243 | 0.86 |
| NO | | 23,747 | | 23,990 | 84.13 |
| Missing | | 4,238 | | 28,228 | 15.01 |

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| **29** | **Column name:** | | **detect\_meds\_hoarding** | | | |
|  | Column description: | | Does the patient or older adult appear to be hoarding or saving old medications? | | | |
|  | Source information: | | DETECT Tool Questionnaire (MedStar ePCR Data) | | | |
|  | Column type: | | Single Choice, Multiple Options | | | |
|  | Data type: | | Ordered, factor | | | |
|  | Unique non-missing value count: | | 3 | | | |
|  | Missing value count: | | 4,239 | | | |
| Categories | | Frequency | | Cumulative Frequency | Percent |
| YES | | 71 | | 71 | 0.25 |
| NO | | 20,884 | | 20,955 | 73.98 |
| UNABLE TO ASSESS | | 3,034 | | 23,989 | 10.75 |
| Missing | | 4,239 | | 28,228 | 15.02 |

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| **30** | **Column name:** | | **detect\_caregiver\_anxious** | | | |
|  | Column description: | | If a caregiver is present, they appear overly concerned (eg, anxious, hovering) | | | |
|  | Source information: | | DETECT Tool Questionnaire (MedStar ePCR Data) | | | |
|  | Column type: | | Single Choice, Multiple Options | | | |
|  | Data type: | | Ordered, factor | | | |
|  | Unique non-missing value count: | | 2 | | | |
|  | Missing value count: | | 14,321 | | | |
| Categories | | Frequency | | Cumulative Frequency | Percent |
| YES | | 53 | | 53 | 0.19 |
| NO | | 13,854 | | 13,907 | 49.08 |
| Missing | | 14,321 | | 28,228 | 50.73 |

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| --- | --- | --- | --- | --- | --- | --- |
| **31** | **Column name:** | | **detect\_caregiver\_frustrated** | | | |
|  | Column description: | | If a caregiver is present, they appear frustrated, tired, angry, or burdened by the patient or older adult | | | |
|  | Source information: | | DETECT Tool Questionnaire (MedStar ePCR Data) | | | |
|  | Column type: | | Single Choice, Multiple Options | | | |
|  | Data type: | | Ordered, factor | | | |
|  | Unique non-missing value count: | | 2 | | | |
|  | Missing value count: | | 14,338 | | | |
| Categories | | Frequency | | Cumulative Frequency | Percent |
| YES | | 91 | | 91 | 0.32 |
| NO | | 13,799 | | 13,890 | 48.88 |
| Missing | | 14,338 | | 28,228 | 50.79 |

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| --- | --- | --- | --- | --- | --- | --- |
| **32** | **Column name:** | | **detect\_caregiver\_lack** | | | |
|  | Column description: | | If caregiver present, they appear to lack knowledge of the patient or older adult's medical needs | | | |
|  | Source information: | | DETECT Tool Questionnaire (MedStar ePCR Data) | | | |
|  | Column type: | | Single Choice, Multiple Options | | | |
|  | Data type: | | Ordered, factor | | | |
|  | Unique non-missing value count: | | 2 | | | |
|  | Missing value count: | | 14,298 | | | |
| Categories | | Frequency | | Cumulative Frequency | Percent |
| YES | | 158 | | 158 | 0.56 |
| NO | | 13,772 | | 13,930 | 48.79 |
| Missing | | 14,298 | | 28,228 | 50.65 |

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| **33** | **Column name:** | | **detect\_caregiver\_inattentive** | | | |
|  | Column description: | | If a caregiver is present, they appear unengaged and inattentive in caring for the patient or older adult | | | |
|  | Source information: | | DETECT Tool Questionnaire (MedStar ePCR Data) | | | |
|  | Column type: | | Single Choice, Multiple Options | | | |
|  | Data type: | | Ordered, factor | | | |
|  | Unique non-missing value count: | | 2 | | | |
|  | Missing value count: | | 14,332 | | | |
| Categories | | Frequency | | Cumulative Frequency | Percent |
| YES | | 105 | | 105 | 0.37 |
| NO | | 13,791 | | 13,896 | 48.86 |
| Missing | | 14,332 | | 28,228 | 50.77 |

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| **34** | **Column name:** | | **detect\_env\_isolated** | | | |
|  | Column description: | | Is the patient or older adult isolated in the home? | | | |
|  | Source information: | | DETECT Tool Questionnaire (MedStar ePCR Data) | | | |
|  | Column type: | | Single Choice, Multiple Options | | | |
|  | Data type: | | Ordered, factor | | | |
|  | Unique non-missing value count: | | 2 | | | |
|  | Missing value count: | | 4,231 | | | |
| Categories | | Frequency | | Cumulative Frequency | Percent |
| YES | | 221 | | 221 | 0.78 |
| NO | | 23,776 | | 23,997 | 84.23 |
| Missing | | 4,231 | | 28,228 | 14.99 |

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| --- | --- | --- | --- | --- | --- | --- |
| **35** | **Column name:** | | **detect\_env\_concern** | | | |
|  | Column description: | | Living environment poses a health or safety concern (eg, fire hazard, insect or rodent infestation, or urine or feces present) | | | |
|  | Source information: | | DETECT Tool Questionnaire (MedStar ePCR Data) | | | |
|  | Column type: | | Single Choice, Multiple Options | | | |
|  | Data type: | | Ordered, factor | | | |
|  | Unique non-missing value count: | | 3 | | | |
|  | Missing value count: | | 4,223 | | | |
| Categories | | Frequency | | Cumulative Frequency | Percent |
| YES | | 316 | | 316 | 1.12 |
| NO | | 21,257 | | 21,573 | 75.30 |
| UNABLE TO ASSESS | | 2,432 | | 24,005 | 8.62 |
| Missing | | 4,223 | | 28,228 | 14.96 |

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| **36** | **Column name:** | | **detect\_env\_hoarding** | | | |
|  | Column description: | | Inside of the home is in extreme disarray or there is hoarding | | | |
|  | Source information: | | DETECT Tool Questionnaire (MedStar ePCR Data) | | | |
|  | Column type: | | Single Choice, Multiple Options | | | |
|  | Data type: | | Ordered, factor | | | |
|  | Unique non-missing value count: | | 3 | | | |
|  | Missing value count: | | 4,223 | | | |
| Categories | | Frequency | | Cumulative Frequency | Percent |
| YES | | 280 | | 280 | 0.99 |
| NO | | 20,936 | | 21,216 | 74.17 |
| UNABLE TO ASSESS | | 2,789 | | 24,005 | 9.88 |
| Missing | | 4,223 | | 28,228 | 14.96 |

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| **37** | **Column name:** | | **detect\_env\_odor** | | | |
|  | Column description: | | Unusual odor (eg, urine, feces) | | | |
|  | Source information: | | DETECT Tool Questionnaire (MedStar ePCR Data) | | | |
|  | Column type: | | Single Choice, Multiple Options | | | |
|  | Data type: | | Ordered, factor | | | |
|  | Unique non-missing value count: | | 2 | | | |
|  | Missing value count: | | 4,222 | | | |
| Categories | | Frequency | | Cumulative Frequency | Percent |
| YES | | 462 | | 462 | 1.64 |
| NO | | 23,544 | | 24,006 | 83.41 |
| Missing | | 4,222 | | 28,228 | 14.96 |

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| **38** | **Column name:** | | **detect\_report\_made** | | | |
|  | Column description: | | Was an APS Report made? | | | |
|  | Source information: | | DETECT Tool Questionnaire (MedStar ePCR Data) | | | |
|  | Data type: | | Ordered, factor | | | |
|  | Unique non-missing value count: | | 2 | | | |
|  | Missing value count: | | 4,243 | | | |
| Categories | | Frequency | | Cumulative Frequency | Percent |
| YES | | 336 | | 336 | 1.19 |
| NO | | 23,649 | | 23,985 | 83.78 |
| Missing | | 4,243 | | 28,228 | 15.03 |

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| **39** | **Column name:** | **detect\_report\_num** |
|  | Column description: | APS Report number recorded by EMS in the DETECT Tool |
|  | Source information: | DETECT Tool Questionnaire (MedStar ePCR Data) |
|  | Column type: | Report Number |
|  | Data type: | Character |
|  | Unique non-missing value count: | 21 |
|  | Missing value count: | 28,207 |
|  | Skip pattern: | Entries which did not have a number, but only a comment, were shifted to another variable and replaced with missing values |

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| **40** | **Column name:** | **detect\_report\_comment** |
|  | Column description: | Any content in the Report Number field that was not a report number |
|  | Source information: | DETECT Tool Questionnaire (MedStar ePCR Data) |
|  | Column type: | Comments by EMS personnel |
|  | Data type: | Character |
|  | Unique non-missing value count: | 21 |
|  | Missing value count: | 28,207 |

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| --- | --- | --- | --- | --- | --- | --- |
| **41** | **Column name:** | | **detect\_report\_aps\_unable** | | | |
|  | Column description: | | Comments by EMS in the Report Number field indicated they were unable to reach APS to file a report | | | |
|  | Source information: | | DETECT Tool Questionnaire (MedStar ePCR Data) | | | |
|  | Data type: | | Ordered, factor | | | |
|  | Unique non-missing value count: | | 1 | | | |
|  | Missing value count: | | 28,224 | | | |
|  | Skip pattern: | | Values were not entered in observations that lacked data in the Report Number field of the ePCR data | | | |
| Categories | | Frequency | | Cumulative Frequency | Percent |
| True | | 4 | | 4 | 0.01 |
| Missing | | 28,224 | | 28,228 | 99.99 |

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| --- | --- | --- | --- | --- | --- | --- |
| **42** | **Column name:** | | **detect\_report\_aps\_onscene** | | | |
|  | Column description: | | Comments by EMS in the Report Number field indicated that APS was already on scene with the patient | | | |
|  | Source information: | | DETECT Tool Questionnaire (MedStar ePCR Data) | | | |
|  | Data type: | | Ordered, factor | | | |
|  | Unique non-missing value count: | | 1 | | | |
|  | Missing value count: | | 28,221 | | | |
|  | Skip pattern: | | Values were not entered in observations that lacked data in the Report Number field of the ePCR data | | | |
| Categories | | Frequency | | Cumulative Frequency | Percent |
| True | | 7 | | 7 | 0.02 |
| Missing | | 28,221 | | 28,228 | 99.98 |

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| --- | --- | --- | --- | --- | --- | --- |
| **43** | **Column name:** | | **detect\_report\_aps\_existing** | | | |
|  | Column description: | | Comments by EMS in the Report Number field indicated their belief APS was already aware, or they were provided a report number by another party | | | |
|  | Source information: | | DETECT Tool Questionnaire (MedStar ePCR Data) | | | |
|  | Data type: | | Ordered, factor | | | |
|  | Unique non-missing value count: | | 1 | | | |
|  | Missing value count: | | 28,219 | | | |
|  | Skip pattern: | | Values were not entered in observations that lacked data in the Report Number field of the ePCR data | | | |
| Categories | | Frequency | | Cumulative Frequency | Percent |
| True | | 9 | | 9 | 0.03 |
| Missing | | 28,219 | | 28,228 | 99.97 |

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| **44** | **Column name:** | | **detect\_facility** | | | |
|  | Column description: | | Comments by EMS in the Report Number field indicated a report was not filed because the patient was in the care of a facility such as a Nursing Home | | | |
|  | Source information: | | DETECT Tool Questionnaire (MedStar ePCR Data) | | | |
|  | Data type: | | Ordered, factor | | | |
|  | Unique non-missing value count: | | 1 | | | |
|  | Missing value count: | | 28,222 | | | |
|  | Skip pattern: | | Values were not entered in observations that lacked data in the Report Number field of the ePCR data | | | |
| Categories | | Frequency | | Cumulative Frequency | Percent |
| True | | 6 | | 6 | 0.02 |
| Missing | | 28,222 | | 28,228 | 99.98 |

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| **45** | **Column name:** | | **detect\_other\_reporter** | | | |
|  | Column description: | | Comments by EMS in the Report Number field indicated a report was not filed by EMS due to the belief another party, such as hospital staff or a social worker, would file a report | | | |
|  | Source information: | | DETECT Tool Questionnaire (MedStar ePCR Data) | | | |
|  | Data type: | | Ordered, factor | | | |
|  | Unique non-missing value count: | | 1 | | | |
|  | Missing value count: | | 28,221 | | | |
|  | Skip pattern: | | Values were not entered in observations that lacked data in the Report Number field of the ePCR data | | | |
| Categories | | Frequency | | Cumulative Frequency | Percent |
| True | | 7 | | 7 | 0.02 |
| Missing | | 28,221 | | 28,228 | 99.98 |

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| **46** | **Column name:** | | **detect\_uta** | | | |
|  | Column description: | | Comments by EMS in the Report Number field indicated they were unable to use the DETECT tool as the patient was in a public location, or lived in a separate location from the encounter | | | |
|  | Source information: | | DETECT Tool Questionnaire (MedStar ePCR Data) | | | |
|  | Data type: | | Ordered, factor | | | |
|  | Unique non-missing value count: | | 1 | | | |
|  | Missing value count: | | 28,217 | | | |
|  | Skip pattern: | | Values were not entered in observations that lacked data in the Report Number field of the ePCR data | | | |
| Categories | | Frequency | | Cumulative Frequency | Percent |
| True | | 11 | | 11 | 0.04 |
| Missing | | 28,217 | | 28,228 | 99.96 |

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| **47** | **Column name:** | **response\_pcr** |
|  | Column description: | Unique PCR number for the encounter, identifying the unique patient care record |
|  | Source information: | MedStar ePCR Data |
|  | Column type: | Record Number |
|  | Data type: | Character |
|  | Unique non-missing value count: | 28,228 |
|  | Missing value count: | 0 |

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| **48** | **Column name:** | **response\_num** |
|  | Column description: | Response number for the incident assigned through EMS dispatch - each dispatch incident potentially has more than one patient |
|  | Source information: | MedStar ePCR Data |
|  | Column type: | Record Number |
|  | Data type: | Numeric |
|  | Unique non-missing value count: | 27,885 |
|  | Missing value count: | 138 |

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| **49** | **Column name:** | **response\_dt** |
|  | Column description: | Date and Time of the EMS response |
|  | Source information: | MedStar ePCR Data |
|  | Column type: | Date and Time |
|  | Data type: | POSIXct, POSIXt |
|  | Unique non-missing value count: | 28,007 |
|  | Missing value count: | 0 |

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| **50** | **Column name:** | | **response\_year** | | | |
|  | Column description: | | Year of the EMS Response | | | |
|  | Source information: | | MedStar ePCR Data | | | |
|  | Column type: | | Year | | | |
|  | Data type: | | Numeric | | | |
|  | Unique non-missing value count: | | 2 | | | |
|  | Missing value count: | | 0 | | | |
| Categories | | Frequency | | Cumulative Frequency | Percent |
| 2017 | | 23,904 | | 23,904 | 84.68 |
| 2018 | | 4,324 | | 28,228 | 15.32 |

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| **51** | **Column name:** | | | **response\_month** | | | |
|  | Column description: | | | Month of the EMS Response | | | |
|  | Source information: | | | MedStar ePCR Data | | | |
|  | Column type: | | | Month | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 12 | | | |
|  | Missing value count: | | | 0 | | | |
| Min | | Mean | Median | | Max | SD |
| 1.00 | | 6.29 | 6.00 | | 12.00 | 3.60 |

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| **52** | **Column name:** | | | **response\_day** | | | |
|  | Column description: | | | Day of the EMS Response | | | |
|  | Source information: | | | MedStar ePCR Data | | | |
|  | Column type: | | | Day | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 31 | | | |
|  | Missing value count: | | | 0 | | | |
| Min | | Mean | Median | | Max | SD |
| 1.00 | | 15.55 | 15.00 | | 31.00 | 8.72 |

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| **53** | **Column name:** | **response\_date** |
|  | Source information: | MedStar ePCR Data |
|  | Data type: | Character |
|  | Unique non-missing value count: | 393 |
|  | Missing value count: | 0 |

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| **54** | **Column name:** | | **response\_time** | | | |
|  | Column description: | | Time of the EMS Response | | | |
|  | Source information: | | MedStar ePCR Data | | | |
|  | Column type: | | Time - Hour:Minute:Second | | | |
|  | Data type: | | Character | | | |
|  | Unique non-missing value count: | | 23,406 | | | |
|  | Missing value count: | | 0 | | | |
| Categories with Smallest Values | | Frequency | | Categories with Largest Values | Frequency |
| 00:00:00 | | 1 | | 08:03:51 | 5 |
| 00:00:05 | | 1 | | 09:00:00 | 5 |
| 00:00:08 | | 1 | | 11:17:09 | 5 |
| 00:00:16 | | 1 | | 20:56:17 | 5 |
| 00:00:21 | | 1 | | 15:18:15 | 6 |

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| **55** | **Column name:** | | **response\_complaint** | | | |
|  | Column description: | | Chief complaint of original incident dispatch | | | |
|  | Source information: | | MedStar ePCR Data | | | |
|  | Column type: | | Single Choice, Multiple Options | | | |
|  | Data type: | | Factor | | | |
|  | Unique non-missing value count: | | 41 | | | |
|  | Missing value count: | | 122 | | | |
| Categories with Smallest Values | | Frequency | | Categories with Largest Values | Frequency |
| Auto vs. Pedestrian | | 1 | | Chest Pain (Non-Traumatic) | 2287 |
| Cardiac Arrest - Possible DOA | | 1 | | Transfer/Interfacility/Palliative Care | 3099 |
| Medical Alarm | | 1 | | Breathing Problem | 3354 |
| Nausea/Vomiting | | 1 | | Falls | 4396 |
| Unresponsive | | 1 | | Sick Person | 4841 |

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| **56** | **Column name:** | **response\_symptoms** |
|  | Column description: | Symptoms associated with the incident as entered by EMS |
|  | Source information: | MedStar ePCR Data |
|  | Data type: | Character |
|  | Unique non-missing value count: | 645 |
|  | Missing value count: | 25,375 |

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| **57** | **Column name:** | | **response\_dispo** | | | |
|  | Column description: | | Disposition/Resolution code of incident | | | |
|  | Source information: | | MedStar ePCR Data | | | |
|  | Column type: | | Single Choice, Multiple Options | | | |
|  | Data type: | | Factor | | | |
|  | Unique non-missing value count: | | 24 | | | |
|  | Missing value count: | | 1,397 | | | |
| Categories with Smallest Values | | Frequency | | Categories with Largest Values | Frequency |
| Assist, Agency | | 1 | | Transported - w/AMA (pt refused care and or evaluation) | 421 |
| Canceled (Unstable for Transport) | | 1 | | RAS - Release at Scene | 657 |
| Medical Director - No Emergency Transport (MIH) | | 1 | | Missing | 1397 |
| Flight Crew ONLY or Organ Transport | | 2 | | AMA - Assessed and/or Treated and Released | 2160 |
| Transfer of Care (Air) | | 3 | | Transported - Patient Treated, Transported by this EMS Unit | 22069 |

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| **58** | **Column name:** | **response\_ems\_epcr\_sig** |
|  | Column description: | Name entered into signature box by EMS personnel, intended to capture the name of the EMS provider associated with the call |
|  | Source information: | MedStar ePCR Data |
|  | Column type: | Name |
|  | Data type: | Character |
|  | Unique non-missing value count: | 290 |
|  | Missing value count: | 27,776 |

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| **59** | **Column name:** | | **comp\_report\_agency** | | | |
|  | Column description: | | Agency to which a report was made | | | |
|  | Source information: | | MedStar Compliance Data | | | |
|  | Column type: | | Agency Abbreviation | | | |
|  | Data type: | | Factor | | | |
|  | Unique non-missing value count: | | 1 | | | |
|  | Missing value count: | | 28,118 | | | |
|  | Skip pattern: | | Missing values indicate that data for a given observation did not match any value in the Compliance data set | | | |
| Categories | | Frequency | | Cumulative Frequency | Percent |
| APS | | 110 | | 110 | 0.39 |
| Missing | | 28,118 | | 28,228 | 99.61 |

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| **60** | **Column name:** | **comp\_report\_date** |
|  | Column description: | Date of the patient encounter that the report referenced |
|  | Source information: | MedStar Compliance Data |
|  | Column type: | Date |
|  | Data type: | POSIXct, POSIXt |
|  | Unique non-missing value count: | 91 |
|  | Missing value count: | 28,118 |
|  | Skip pattern: | Missing values indicate that data for a given observation did not match any value in the Compliance data set |

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| **61** | **Column name:** | | **comp\_report\_method** | | | |
|  | Source information: | | MedStar Compliance Data | | | |
|  | Data type: | | Ordered, factor | | | |
|  | Unique non-missing value count: | | 3 | | | |
|  | Missing value count: | | 28,118 | | | |
|  | Skip pattern: | | Missing values indicate that data for a given observation did not match any value in the Compliance data set | | | |
| Categories | | Frequency | | Cumulative Frequency | Percent |
| Electronic | | 61 | | 61 | 0.22 |
| Telephone | | 48 | | 109 | 0.17 |
| Both Electronic And Telephone | | 1 | | 110 | 0.00 |
| Missing | | 28,118 | | 28,228 | 99.61 |

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| **62** | **Column name:** | **comp\_report\_num** |
|  | Column description: | Report confirmation number provided by the receiving agency |
|  | Source information: | MedStar Compliance Data |
|  | Column type: | Report Number |
|  | Data type: | Character |
|  | Unique non-missing value count: | 108 |
|  | Missing value count: | 28,120 |
|  | Skip pattern: | Missing values indicate that data for a given observation did not match any value in the Compliance data set |

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| **63** | **Column name:** | | **comp\_report\_num\_list** | | | |
|  | Column description: | | List of all Report Numbers in the Compliance Data for the same Response Number; codebook summary statistics provided based on the length of the list | | | |
|  | Source information: | | MedStar Compliance Data | | | |
|  | Column type: | | List | | | |
|  | Data type: | | Numeric | | | |
|  | Unique non-missing value count: | | 2 | | | |
|  | Missing value count: | | 28,120 | | | |
|  | Skip pattern: | | Missing values indicate that data for a given observation did not match any value in the Compliance data set | | | |
| Categories | | Frequency | | Cumulative Frequency | Percent |
| 1 | | 102 | | 102 | 0.36 |
| 2 | | 6 | | 108 | 0.02 |
| Missing | | 28,120 | | 28,228 | 99.62 |

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| **64** | **Column name:** | **comp\_report\_created\_dt** |
|  | Column description: | Date and time the report was made |
|  | Source information: | MedStar Compliance Data |
|  | Column type: | Date and Time |
|  | Data type: | POSIXct, POSIXt |
|  | Unique non-missing value count: | 110 |
|  | Missing value count: | 28,118 |
|  | Skip pattern: | Missing values indicate that data for a given observation did not match any value in the Compliance data set |

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| **65** | **Column name:** | **comp\_report\_created\_date** |
|  | Column description: | Date the report was made |
|  | Source information: | MedStar Compliance Data |
|  | Column type: | Date |
|  | Data type: | Date |
|  | Unique non-missing value count: | 61 |
|  | Missing value count: | 28,118 |
|  | Skip pattern: | Missing values indicate that data for a given observation did not match any value in the Compliance data set |

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| **66** | **Column name:** | | **comp\_report\_created\_time** | | | |
|  | Column description: | | Time the report was made | | | |
|  | Source information: | | MedStar Compliance Data | | | |
|  | Column type: | | Time - Hour:Minute:Second | | | |
|  | Data type: | | Character | | | |
|  | Unique non-missing value count: | | 109 | | | |
|  | Missing value count: | | 28,118 | | | |
|  | Skip pattern: | | Missing values indicate that data for a given observation did not match any value in the Compliance data set | | | |
| Categories with Smallest Values | | Frequency | | Categories with Largest Values | Frequency |
| 07:37:05 | | 1 | | 17:05:10 | 1 |
| 07:50:02 | | 1 | | 17:06:01 | 1 |
| 07:58:56 | | 1 | | 18:42:19 | 1 |
| 08:02:05 | | 1 | | 11:43:00 | 2 |
| 08:14:51 | | 1 | | Missing | 28118 |

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| --- | --- | --- | --- | --- | --- | --- |
| **67** | **Column name:** | | **comp\_report\_created\_list** | | | |
|  | Column description: | | List of all Report Creation Date/Time values in the Compliance Data for the same Response Number; codebook summary statistics provided based on the length of the list | | | |
|  | Source information: | | MedStar Compliance Data | | | |
|  | Column type: | | List | | | |
|  | Data type: | | Numeric | | | |
|  | Unique non-missing value count: | | 2 | | | |
|  | Missing value count: | | 28,118 | | | |
|  | Skip pattern: | | Missing values indicate that data for a given observation did not match any value in the Compliance data set | | | |
| Categories | | Frequency | | Cumulative Frequency | Percent |
| 1 | | 104 | | 104 | 0.37 |
| 2 | | 6 | | 110 | 0.02 |
| Missing | | 28,118 | | 28,228 | 99.61 |

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| **68** | **Column name:** | **comp\_report\_comment** |
|  | Column description: | Any values in the Report Number field that were not report numbers |
|  | Source information: | MedStar Compliance Data |
|  | Column type: | Comments by Compliance Personnel |
|  | Data type: | Character |
|  | Unique non-missing value count: | 0 |
|  | Missing value count: | 28,228 |