

Codebook

Detection of Elder abuse Through Emergency Care Technicians (DETECT) 5-Week Pilot Study

Dataset name:	detect_5wk
Dataset size:	27.2 Mb
Column count:	36
Row count:	99,051
Last modified date:	2018-11-20 14:39:11

Description:

In collaboration with Texas Adult Protective Services (APS) and one of the largest mobile healthcare providers in North Texas — MedStar Mobile Healthcare (MedStar) — our team developed and piloted an EA screening tool: Detection of Elder Abuse Through Emergency Care Technicians (DETECT). The DETECT tool was designed specifically to help medics identify potential EA among community-dwelling older adults during an emergency response. DETECT relies entirely on the medics' systematic observations of the older adults' physical and social environment — no direct questioning of the older adult or their caregivers is involved. The intent was to create an EA screening tool that was easy for medics to use in the field and that helped medics capture information about older adults, their environments, and their caregivers that is thought to be associated with the occurrence of EA.

We pilot tested using the DETECT screening tool with medics in the field between September 17th and October 26th, 2015. During the pilot test, MedStar's Electronic Patient Care Reporting system (ePCR) was programmed to automatically prompt all medics to complete an EA screening using the DETECT tool while on an eligible 911 response. An eligible 911 response was defined as a call for a community-dwelling patient who was 65 years of age or older, the setting was the patient's residence, and the patient resided in the community (e.g., private home, unlicensed adult foster homes, unlicensed board and care homes, etc.). Other types of residences (e.g., licensed skilled nursing facilities) were excluded because reports of EA in these settings are generally not investigated by APS in Texas. By definition, older adults who participated in the pilot study had to live in MedStar's service area of an estimated (978,000 residents), which included Fort Worth, Texas, and 14 surrounding communities.

Column Attributes:

Column name:	id
Column description:	Study identification variable
Source information:	This variable was created as part of the deidentification process. This variable identifies unique MedStar emergency responses and/or APS investigations.
Column type:	Categorical
Data type:	Numeric
Unique non-missing value count:	2,609
Missing value count:	0

Categories with Smallest Values	Frequency	Categories with Largest Values	Frequency
254	1	180	570
1248	1	372	600
1261	1	895	714
1272	1	612	756
1273	1	42	768

Column name:	incident_pcr_number
Column description:	Uniquely identifies a single patient record at a given MedStar response. Missing for rows that come from the APS investigations data and do not have a match in the MedStar patient records.
Source information:	MedStar patient records
Column type:	Categorical
Data type:	Numeric
Unique non-missing value count:	1,967
Missing value count:	1,216

Categories with Smallest Values	Frequency	Categories with Largest Values	Frequency
254	1	372	600
1295	1	895	714
1832	1	612	756
1905	1	42	768
1916	1	Missing	1216

Column name:	validation
Column description:	A dummy variable that indicates if the MedStar validation rule was implemented or not
Source information:	Calculated: 0 if the MedStar response date was before 2015-09-28, 1 if on or after 2015-09-28.
Column type:	Categorical
Data type:	Numeric
Unique non-missing value count:	2
Missing value count:	1,216

Categories	Frequency	Percent	Cumulative Frequency
0	26,650	26.91	26,650
1	71,185	71.87	97,835
Missing	1,216	1.23	99,051

Column name:	detect_data
Column description:	A dummy variable that indicates if there is a DETECT screening associated with the current incident PCR number
Source information:	Calculated: 1 if there is an associated DETECT screening, 0 otherwise.
Column type:	Categorical
Data type:	Numeric
Unique non-missing value count:	2
Missing value count:	0

Categories	Frequency	Percent	Cumulative Frequency
0	33,984	34.31	33,984
1	65,067	65.69	99,051

Column name:	crew_member_id		
Column description:	Uniquely identifies MedStar medics. Missing for rows that come from the APS investigations data and do not have a match in the MedStar patient records.		
Source information:	MedStar patient records		
Column type:	Categorical		
Data type:	Numeric		
Unique non-missing value count:	258		
Missing value count:	1,216		
Categories with Smallest Values	Frequency	Categories with Largest Values	Frequency
253	1	70	1245
259	1	193	1286
251	2	67	1395
248	6	40	1411
225	8	51	3625

Column name:	answered_count
Column description:	Number of non-missing responses to the DETECT screening questions for a given incident PCR number
Source information:	Calculated: Row sum of non-missing responses to DETECT screening question columns
Column type:	numeric
Data type:	Numeric
Unique non-missing value count:	18

Missing value count:	0			
Min	Mean	Median	Max	SD
0.00	10.72	5.00	26.00	11.63

Column name:	case_num			
Column description:	Uniquely identifies an APS investigation. Missing for rows that come from the MedStar patient records and do not have a match in the APS investigations data.			
Source information:	APS client records			
Column type:	Categorical			
Data type:	Numeric			
Unique non-missing value count:	679			
Missing value count:	94,149			
Categories with Smallest Values	Frequency	Categories with Largest Values	Frequency	
42	1	12	280	
55	1	38	320	
66	1	25	327	
67	1	7	504	
69	1	Missing	94149	

Column name:	yes_any			
Column description:	A dummy variable that indicates if there was a 'yes' response for any one or more of the DETECT screening items associated with the current incident PCR number			
Source information:	Calculated: 1 if one or more 'yes' responses, 0 otherwise.			
Column type:	Categorical			
Data type:	Numeric			
Unique non-missing value count:	2			
Missing value count:	0			
Categories	Frequency	Percent	Cumulative Frequency	
0	87,923	88.77	87,923	
1	11,128	11.23	99,051	

Column name:	in_compliance_data			
Column description:	A dummy variable that indicates if the current incident PCR number had an associated record in the MedStar compliance data.			

Source information:	Calculated: 1 if there is an associated record, 0 otherwise.
Column type:	Categorical
Data type:	Numeric
Unique non-missing value count:	2
Missing value count:	0

Categories	Frequency	Percent	Cumulative Frequency
0	98,489	99.43	98,489
1	562	0.57	99,051

Column name:	unusual_odor36
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Column description:	Unusual odor (e.g. urine, feces)
Source information:	MedStar patient records
Column type:	Categorical
Data type:	Character
Unique non-missing value count:	3
Missing value count:	33,986

Categories	Frequency	Percent	Cumulative Frequency
Don't Know	2,125	2.15	2,125
No	58,721	59.28	60,846
Yes	4,219	4.26	65,065
Missing	33,986	34.31	99,051

Column name:	no_utils37
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Column description:	One or more utilities are not operational (no water electric, heating/cooling)
Source information:	MedStar patient records
Column type:	Categorical
Data type:	Character
Unique non-missing value count:	3
Missing value count:	39,099

Categories	Frequency	Percent	Cumulative Frequency
Don't Know	3,782	3.82	3,782
No	56,048	56.58	59,830
Yes	122	0.12	59,952
Missing	39,099	39.47	99,051

Column name:	hoarding38
Column description:	Inside of the home is in extreme disarray / hoarding
Source information:	MedStar patient records
Column type:	Categorical
Data type:	Character
Unique non-missing value count:	3
Missing value count:	39,053

Categories	Frequency	Percent	Cumulative Frequency
Don't Know	1,769	1.79	1,769
No	56,286	56.83	58,055
Yes	1,943	1.96	59,998
Missing	39,053	39.43	99,051

Column name:	safe_env39
Column description:	Living environment poses a health or safety concern (e.g. fire hazard, insect or rodent infestation, urine or feces present)
Source information:	MedStar patient records
Column type:	Categorical
Data type:	Character
Unique non-missing value count:	3
Missing value count:	39,199

Categories	Frequency	Percent	Cumulative Frequency
Don't Know	1,868	1.89	1,868
No	56,135	56.67	58,003
Yes	1,849	1.87	59,852
Missing	39,199	39.57	99,051

Column name:	alc_containers40
Column description:	Open alcohol containers or other alcohol/drug paraphernalia present
Source information:	MedStar patient records
Column type:	Categorical
Data type:	Character
Unique non-missing value count:	3
Missing value count:	43,264

Categories	Frequency	Percent	Cumulative Frequency
Don't Know	1,862	1.88	1,862

No	53,503	54.02	55,365
Yes	422	0.43	55,787
Missing	43,264	43.68	99,051

Column name:	cg_lack_know41		
Column description:	If caregiver(s) present, they appear to lack knowledge of the patient/older adult's medical need(s)		
Source information:	MedStar patient records		
Column type:	Categorical		
Data type:	Character		
Unique non-missing value count:	3		
Missing value count:	62,827		
Categories	Frequency	Percent	Cumulative Frequency
Don't Know	4,623	4.67	4,623
No	30,386	30.68	35,009
Yes	1,215	1.23	36,224
Missing	62,827	63.43	99,051

Column name:	cg_unengaged42		
Column description:	If caregiver(s) present, they appear unengaged and inattentive in caring for the patient/older adult		
Source information:	MedStar patient records		
Column type:	Categorical		
Data type:	Character		
Unique non-missing value count:	3		
Missing value count:	62,889		
Categories	Frequency	Percent	Cumulative Frequency
Don't Know	4,851	4.90	4,851
No	30,722	31.02	35,573
Yes	589	0.59	36,162
Missing	62,889	63.49	99,051

Column name:	cg_frustrated43		
Column description:	If caregiver(s) present, they appear frustrated, tired, angry, or burdened by the patient/older adult		
Source information:	MedStar patient records		
Column type:	Categorical		

Data type:	Character
Unique non-missing value count:	3
Missing value count:	62,889

Categories	Frequency	Percent	Cumulative Frequency
Don't Know	4,889	4.94	4,889
No	30,540	30.83	35,429
Yes	733	0.74	36,162
Missing	62,889	63.49	99,051

Column name:	cg_overwhelmed44
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Column description:	If caregiver(s) present, they appear overwhelmed by the patient / older adult
Source information:	MedStar patient records
Column type:	Categorical
Data type:	Character
Unique non-missing value count:	3
Missing value count:	62,889

Categories	Frequency	Percent	Cumulative Frequency
Don't Know	4,945	4.99	4,945
No	30,898	31.19	35,843
Yes	319	0.32	36,162
Missing	62,889	63.49	99,051

Column name:	cg_too_concerned45
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Column description:	If caregiver(s) present, they appear overly concerned (e.g. anxious, hovering)
Source information:	MedStar patient records
Column type:	Categorical
Data type:	Character
Unique non-missing value count:	3
Missing value count:	62,889

Categories	Frequency	Percent	Cumulative Frequency
Don't Know	4,571	4.61	4,571
No	31,041	31.34	35,612
Yes	550	0.56	36,162
Missing	62,889	63.49	99,051

Column name:	cg_deceptive46
Column description:	If caregiver(s) present, they appear to be deceptive or withhold information from you
Source information:	MedStar patient records
Column type:	Categorical
Data type:	Character
Unique non-missing value count:	3
Missing value count:	62,889

Categories	Frequency	Percent	Cumulative Frequency
Don't Know	4,773	4.82	4,773
No	31,302	31.60	36,075
Yes	87	0.09	36,162
Missing	62,889	63.49	99,051

Column name:	cg_bad_info47
Column description:	If caregiver(s) present, they appear to give you information that is inconsistent with the patient / older adult's account
Source information:	MedStar patient records
Column type:	Categorical
Data type:	Character
Unique non-missing value count:	3
Missing value count:	62,889

Categories	Frequency	Percent	Cumulative Frequency
Don't Know	4,625	4.67	4,625
No	31,510	31.81	36,135
Yes	27	0.03	36,162
Missing	62,889	63.49	99,051

Column name:	cg_alcdugs48
Column description:	If caregiver(s) present, they appear to be under the influence of alcohol and/or illicit drugs
Source information:	MedStar patient records
Column type:	Categorical
Data type:	Character
Unique non-missing value count:	3
Missing value count:	62,889

Categories	Frequency	Percent	Cumulative Frequency
Don't Know	4,512	4.56	4,512
No	31,538	31.84	36,050
Yes	112	0.11	36,162
Missing	62,889	63.49	99,051

Column name:	cg_dependent49
Column description:	If caregiver(s) present, they appear to be dependent on the patient / older adult for financial or other needs
Source information:	MedStar patient records
Column type:	Categorical
Data type:	Character
Unique non-missing value count:	3
Missing value count:	62,889

Categories	Frequency	Percent	Cumulative Frequency
Don't Know	5,000	5.05	5,000
No	30,700	30.99	35,700
Yes	462	0.47	36,162
Missing	62,889	63.49	99,051

Column name:	socsup50
Column description:	If caregiver(s) present, does the patient / older adult appear to lack social support or family that cares for them
Source information:	MedStar patient records
Column type:	Categorical
Data type:	Character
Unique non-missing value count:	3
Missing value count:	62,987

Categories	Frequency	Percent	Cumulative Frequency
Don't Know	4,953	5.00	4,953
No	30,956	31.25	35,909
Yes	155	0.16	36,064
Missing	62,987	63.59	99,051

Column name:	no_talk51
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Column description:	If caregiver(s) present, does the patient / older adult hesitate to talk with you or discuss their condition in front of the caregiver
Source information:	MedStar patient records
Column type:	Categorical
Data type:	Character
Unique non-missing value count:	4
Missing value count:	62,987

Categories	Frequency	Percent	Cumulative Frequency
Don't Know	2,512	2.54	2,512
No	30,285	30.58	32,797
Not applicable or No Caregiver	3,249	3.28	36,046
Yes	18	0.02	36,064
Missing	62,987	63.59	99,051

Column name:	isolated52
Column description:	Is/Does the patient/older adult isolated in the home
Source information:	MedStar patient records
Column type:	Categorical
Data type:	Character
Unique non-missing value count:	3
Missing value count:	62,744

Categories	Frequency	Percent	Cumulative Frequency
Don't Know	1,901	1.92	1,901
No	33,540	33.86	35,441
Yes	866	0.87	36,307
Missing	62,744	63.35	99,051

Column name:	suspicious_injuries53
Column description:	Is/Does the patient/older adult have suspicious falls, wounds, and/or injuries
Source information:	MedStar patient records
Column type:	Categorical
Data type:	Character
Unique non-missing value count:	3
Missing value count:	62,744

Categories	Frequency	Percent	Cumulative Frequency
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Don't Know	400	0.40	400
No	35,677	36.02	36,077
Yes	230	0.23	36,307
Missing	62,744	63.35	99,051

Column name:	old_injuries54
Column description:	Is/Does the patient/older adult show evidence of any old injuries that have been left untreated
Source information:	MedStar patient records
Column type:	Categorical
Data type:	Character
Unique non-missing value count:	3
Missing value count:	62,624

Categories	Frequency	Percent	Cumulative Frequency
Don't Know	274	0.28	274
No	35,801	36.14	36,075
Yes	352	0.36	36,427
Missing	62,624	63.22	99,051

Column name:	alcdrugs55
Column description:	Is/Does the patient/older adult under the influence of alcohol and/or illicit drugs
Source information:	MedStar patient records
Column type:	Categorical
Data type:	Character
Unique non-missing value count:	3
Missing value count:	62,624

Categories	Frequency	Percent	Cumulative Frequency
Don't Know	585	0.59	585
No	35,149	35.49	35,734
Yes	693	0.70	36,427
Missing	62,624	63.22	99,051

Column name:	emo_distress56
Column description:	Is/Does the patient/older adult appear depressed, anxious, or emotionally distressed for reasons other than their immediate medical condition

Source information:	MedStar patient records
Column type:	Categorical
Data type:	Character
Unique non-missing value count:	3
Missing value count:	62,624

Categories	Frequency	Percent	Cumulative Frequency
Don't Know	498	0.50	498
No	35,136	35.47	35,634
Yes	793	0.80	36,427
Missing	62,624	63.22	99,051

Column name:	poor_hygiene57
Column description:	Is/Does the patient/older adult have poor personal hygiene (including soiled in urine or feces)
Source information:	MedStar patient records
Column type:	Categorical
Data type:	Character
Unique non-missing value count:	3
Missing value count:	62,642

Categories	Frequency	Percent	Cumulative Frequency
Don't Know	278	0.28	278
No	34,356	34.69	34,634
Yes	1,775	1.79	36,409
Missing	62,642	63.24	99,051

Column name:	clothing58
Column description:	Is/Does the patient/older adult inadequately clothed or wearing dirty, torn, or soiled clothing
Source information:	MedStar patient records
Column type:	Categorical
Data type:	Character
Unique non-missing value count:	3
Missing value count:	62,624

Categories	Frequency	Percent	Cumulative Frequency
Don't Know	374	0.38	374
No	35,026	35.36	35,400
Yes	1,027	1.04	36,427

Missing	62,624	63.22	99,051
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Column name:	taking_meds59
Column description:	Is/Does the patient/older adult have difficulties taking their prescribed medications as directed
Source information:	MedStar patient records
Column type:	Categorical
Data type:	Character
Unique non-missing value count:	3
Missing value count:	62,624

Categories	Frequency	Percent	Cumulative Frequency
Don't Know	1,532	1.55	1,532
No	33,318	33.64	34,850
Yes	1,577	1.59	36,427
Missing	62,624	63.22	99,051

Column name:	saving_meds60		
Column description:	Is/Does the patient/older adult appear to be hoarding/saving old medications		
Source information:	MedStar patient records		
Column type:	Categorical		
Data type:	Character		
Unique non-missing value count:	3		
Missing value count:	62,630		
Categories	Frequency	Percent	Cumulative Frequency
Don't Know	1,333	1.35	1,333
No	34,504	34.83	35,837
Yes	584	0.59	36,421
Missing	62,630	63.23	99,051

Column name:	adls61
Column description:	Is/Does the patient/older adult need assistance with eating, toileting, transferring, dressing, or bathing
Source information:	MedStar patient records
Column type:	Categorical
Data type:	Character
Unique non-missing value count:	3

Missing value count:	62,936		
Categories	Frequency	Percent	Cumulative Frequency
Don't Know	2,537	2.56	2,537
No	29,904	30.19	32,441
Yes	3,674	3.71	36,115
Missing	62,936	63.54	99,051

Column name:	yes_count			
Column description:	Count of 'yes' responses to the DETECT screening questions for a given incident PCR number			
Source information:	Calculated: Row sum of 'yes' responses to DETECT screening question columns			
Column type:	numeric			
Data type:	Numeric			
Unique non-missing value count:	12			
Missing value count:	0			
Min	Mean	Median	Max	SD
0.00	0.25	0.00	11.00	0.92