

CRF	Variable	Scale	Source	time of measurement	range or use	factor*
patient_admission	PatientID	nominal	e-care	presentation to ER	for linking CRFs only	administration purposes
patient_admission	date and time of admittance	metric	e-care	presentation to ER	00:00 – 23:59	overcrowding
patient_admission	age	metric	e-care	presentation to ER	18-120	?
patient_admission	gender	nominal	e-care	presentation to ER	male/female	?
patient_admission	triage-category	nominal	e-care	presentation to ER	1 – 5	overcrowding
patient_admission	admitting entity	nominal	e-care	presentation to ER	self, physician, ambulance, external hospital	?
patient_discharge	patient ID	nominal	e-care	presentation to ER	for linking CRFs only	administration purposes
patient_discharge	IM-lead-diagnosis	nominal	i-pDOS	hospitalization + 28 days	text	used to calculate dependent variable
patient_discharge	duration of hospitalization	metric	i-pDOS	hospitalization + 28 days	1-28	?
patient_hospitalization_ecare	patient ID	nominal	e-care	presentation to ER	for linking CRFs only	administration purposes
patient_hospitalization_ecare	date and time of hospitalization	metric	e-care	hospitalization	00:00 – 23:59	overcrowding
patient_hospitalization_ecare	admittance diagnosis	nominal	i-pDOS	hospitalization	text	used to calculate dependent variable
physician_per_patient_quest	patient ID	nominal	e-care	presentation to ER	for linking CRFs only	administration purposes
physician_per_patient_quest	physician ID	nominal	self chosen code	hospitalization	for linking CRFs only	administration purposes
physician_per_patient_quest	subjective workload	ordinal	questionnaire	hospitalization	0-10	working condition
physician_per_patient_quest	confidence in diagnosis	ordinal	questionnaire	hospitalization	0-10	dependent variable
physician_per_patient_quest	language barrier	nominal	questionnaire	hospitalization	yes/no	?
physician_per_patient_quest	difficulty of diagnosis	ordinal	questionnaire	hospitalization	0-10	experience
physician_per_patient_quest	symptoms typical for diagnosis	nominal	questionnaire	hospitalization	typical/non-typical	?
physician_per_patient_quest	experience with similar diagnosis	ordinal	questionnaire	hospitalization	0-10	experience
physician_per_patient_quest	fatigue	ordinal	questionnaire	hospitalization	0-10	working condition
physician_per_patient_quest	quality of teamwork	metric	questionnaire	hospitalization	0-10	?
physician_inclusion_quest	physician ID	nominal	self chosen code	inclusion	for linking CRFs only	administration purposes
physician_inclusion_quest	cognitive reflection test	metric	questionnaire	inclusion	0-3	?
physician_inclusion_quest	age	metric	questionnaire	inclusion	20-68	experience
physician_inclusion_quest	gender	nominal	questionnaire	inclusion	male/female	?
physician_inclusion_quest	year of medical degree	metric	questionnaire	inclusion	1950 – 2015	experience
physician_inclusion_quest	years of experience in emergency med	metric	questionnaire	inclusion	0-45	experience
physician_inclusion_quest	board certification	nominal	questionnaire	inclusion	yes/no	?
physician_inclusion_quest	discipline of board certification	nominal	questionnaire	inclusion	Internal medicine, surgery, GP, other	?
physician_inclusion_quest	position	nominal	questionnaire	inclusion	resident, consultant, student	?
continuously	noise level	metric	sound logger	continuously throughout study	0 – 130 db(A)	noise

CRF=case report form

e-care=electronic patient documentation system at the ER

i-pDOS=electronic patient documentation system at IM

*=we assume several variables to be highly correlated and group those into factors for later analysis (see main text)