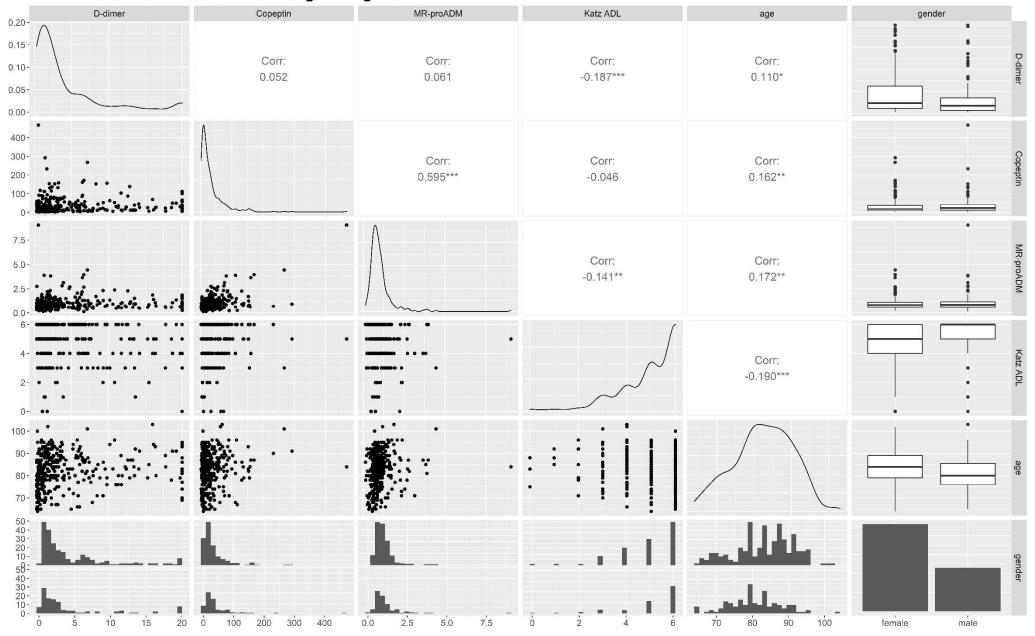


Supplemental Figure 5

Correlation between all data used in logistic regression



# **Supplemental Table 1: Comparison of the cohorts**

	Complete Cohort n= 572	Cohort 1 n= 554	<b>Cohort 2</b> n= 356
Age, y	83 [IQR 77, 89]	83.5 [IQR 77, 89]	83 [IQR 78, 89]
Female gender, <i>n</i>	387 (67.7%)	375 (67.7%)	236 (66.3%)
Katz ADL, (0-6)	5 [5, 6]	5 [5, 6]	5 [4, 6]
Diagnostic category, n	n = 570	n = 552	n = 356
Injurious fall	270 (47.4%)	263 (47.5%)	172 (48.3%)
Acute medical condition	151 (26.5%)	146 (26.4%)	89 (25.0%)
Non-injurious fall	149 (26.1%)	143 (25.8%)	95 (26.7%)
Patients admitted, n	443 (77.4%)	432 (78%)	279 (78.4%)
Mortality (30 days), n	18 (3.1%)	18 (3.2%)	11 (3.1%)
Mortality (90 days), n	31 (5.4%)	31 (5.6%)	18 (5.1%)
Mortality (180 days), n	43 (7.5%)	43 (7.8%)	25 (7%)
Mortality (365 days), <i>n</i>	77 (13.5%)	76 (13.7%)	43 (12.1%)

Table 1, legend: IQR: Interquartile range

Data are reported as median with IQR and as number with percentage

Supplemental Table 2: Baseline characteristics and Mortality after 30d for the study population, separated by biomarker cutoffs

cutoff: 0.75nmol/L	Elevated MR-proADM $n = 341$	Normal MR-proADM $n = 213$	p-value
Age, y	85 [80, 90]	81 [74, 87]	<0.001
Female gender, <i>n</i>	227 (66.6%)	148 (69.5%)	0.514
Katz ADL, (0-6)	5 [4, 6]	6 [5, 6]	0.002
Mortality after 30d, <i>n</i>	17 (5.0%)	1 (0.5%)	0.008
cutoff: 13.8 pmol/L	Elevated Copeptin n = 352	Normal Copeptin $n = 202$	p-value
Age, y	85 [79, 90]	81 [76, 87]	<0.001
Female gender, <i>n</i>	216 (61.4%)	159 (78.7%)	<0.001
Katz ADL, (0-6)	5 [4, 6]	6 [5, 6]	0.005
Mortality after 30d, <i>n</i>	14 (4.0%)	4 (2.0%)	0.304
cutoff: 0.5 μg/mL	Elevated D-Dimer  n = 321	Normal D-Dimer $n = 35$	p-value
Age, y	84 [79, 89]	76 [71.5, 80]	<0.001
Female gender, <i>n</i>	217 (67.6%)	19 (54.3%)	0.163
Katz ADL, (0-6)	5 [4, 6]	6 [5, 6]	0.901
Mortality after 30d, <i>n</i>	11 (3.4%)	0 (0.0%)	0.61
cutoff: age / 100 μg/mL	Elevated D-Dimer  n = 281	Normal D-Dimer $n = 75$	p-value
Age, y	84 [79, 89]	79 [72, 85]	<0.001
Female gender, <i>n</i>	195 (69.4%)	41 (54.7%)	0.024
Katz ADL, (0-6)	5 [4, 6]	6 [5, 6]	0.053
Mortality after 30d, <i>n</i>	11 (3.9%)	0 (0.0%)	0.13

Supplemental Table 1, legend: IQR: Interquartile range,

Data are reported as median with IQR and as number with percentage

## Supplemental Table 3: Details of the 18 patients who died within 30 days

Patient	Presenting complaints other than fall	Outcome Assessor Diagnoses (ICD-10 codes)	Cause of death	Autopsy
89 y/o female	Back pain, chest pain, dizziness, depressed mood	K56.4 Fecal impactation K56.7 Ileus	lleus	Unknown*
94 y /o female	Gait disturbance, weakness/fatigue, hip pain, confusion	N19 Renal failure	Renal failure	Unknown*
95 y /o female	Weakness/fatigue, hip pain	S32.5 Fracture of os pubis D50.0, Iron deficiency anemia	Readmission: Hypovolemic shock with upper gastrointestinal bleeding	Yes
88 y /o female	Hip pain, confusion	S70.0 Contusion of hip F03 Unspecified dementia	Progressive frailty syndrome, possible stroke	No
84 y /o female	Weakness/fatigue, leg pain	S82.8 Trimalleolar fracture R54 Senility F03 Unspecified dementia	Postoperative heart failure	No
87 y /o female	Gait disturbance, weakness/fatigue, back pain, dyspnea, nausea, emesis, anorexia, dizziness	J96.0 Acute respiratory failure R54 Senility S00.9 Superficial injury of head	Acute respiratory failure caused by pneumonia and heart failure	No
101 y /o female	Gait disturbance, weakness/fatigue, leg pain, headache, dyspnea, anxiety, confusion, paresthesia, nausea	R 57.9 Shock of unclear cause, I50.19 cardiac decompensation due to atrial fibrillation S 70.0 contusion of hip	Not known, died 1 day after discharge	No

89 y /o female	Gait disturbance, weakness/fatigue, hip pain, dyspnea, anxiety, confusion, palpitations	A09.9 Gastroenteritis and colitis of unspecified origin G40.8 Other epilepsy F03 Unspecified dementia	Diverticulitis, Clostridium colitis, sepsis during hospitalization, palliative care	No
86 y /o female	Gait disturbance, weakness/fatigue, dyspnea, nausea, emesis, anxiety, anorexia, paresthesia,	R54 Frailty syndrome I70.0 Atherosclerosis of aorta	Sepsis, heart failure	Unknown*
87 y /o female	Gait disturbance, weakness/fatigue, nausea	C78.7 Colonic cancer with hepatic metastases R54 frailty	Secondary fall resulting in death at home. Palliative care	Unknown*
90 y /o female	Weakness/fatigue, arthralgia, dyspnea, anorexia,	I50.1 Chronic heart failure, R54 Frailty syndrome	Heart failure, palliative care	Unknown*
92 y /o female	Gait disturbance, weakness/fatigue, dyspnea, nausea, anorexia, palpitation	S06.5 Traumatic subdural haemorrhage K57.3 Diverticular disease of large intestine without perforation or abscess	Complications of diverticulitis (perforation and bleeding), discharged for patient preferences	No
92 y /o male	Gait disturbance, weakness/fatigue, confusion, paresthesia, dyspnea, anorexia	N39.0 Urinary tract infection J90 Pleural effusion, hematothorax S00.9 Superficial injury of head	Intraoperative shock during empyema evacuation. Empyema development during hospitalization	Yes
67 y /o male	Gait disturbance, dizziness	E87.1 Hypoosmolar hyponatremia R26.8 Other and unspecified abnormalities of gait and mobility S01.9 Open wound of head	Sudden cardiac arrest 4 weeks after discharge, an echocardiogram 3 days prior to death showed normal left ventricular function, no regional wall abnormalities	No
81 y /o female	Gait disturbance, weakness/fatigue, hip pain, dyspnea, palpitation, dizziness	J18.0 Bronchopneumonia I50.1 Left ventricular failure S72.0 Fracture of neck of femur	Postoperative pulmonary embolism	Yes

87 y /o male	Gait disturbance, weakness/fatigue, arthralgia, hip pain, dyspnea, paresthesia, anorexia	J18.9 Pneumonia S72.1 Pertrochanteric fracture G62.9 Polyneuropathy	Septic shock	Unknown*
93 y /o female	Gait disturbance, weakness/fatigue, anorexia	S72.4 Fracture of distal femur R54 frailty F03 Unspecified dementia	Postoperative pneumonia, left ventricular failure secondary to atrial fibrillation with tachycardia	No
96 y /o female	Gait disturbance, dyspnea, palpitation	S72.1 Pertrochanteric fracture R54 frailty	Acute respiratory deterioration, suspected postoperative pulmonary embolism	No

Abbreviations: ICD-10, International Statistical Classification of Diseases and Related Health Problems 10th Revision

<sup>\*</sup> Information on autopsy is only available for patients hospitalized in University Hospital Basel or Hospital Liestal