

Table S1 Comparison of stroke patients with an acute event (≤ 7 days) vs. less recent event (> 7 days) and other reasons for creating a MDS

Variables	Event ≤ 7 days (N=318,179)		Creation of a MDS (N=21,334)			Reason for MDS: event > 7 days (N=12,067)			Other reasons for MDS (N=9,267)		
	%	N	%	N	P	%	N	P	%	N	P
Sex											
Female	47.3	150,360	47.3	10,081	0.955	44.6	5,387	<0.001*	50.7	4,694	<0.001*
Male	52.7	167,608	52.7	11,247	0.955	55.3	6,676	<0.001*	49.3	4,571	<0.001*
n/a	0.1	211	0.0	6		0.1	4		0.0	2	–
Age, years											
Total, mean (SD)	73.1 (13.1)		70.6 (13.9)		<0.001*	70.3 (13.2)		<0.001*	70.9 (14.8)		<0.001*
Female, mean (SD)	76.0 (13.0)		72.7 (14.4)		<0.001*	72.3 (13.7)		<0.001*	73.1 (15.0)		<0.001*
Male, mean (SD)	70.5 (12.6)		68.7 (13.2)		<0.001*	68.7 (12.6)		<0.001*	68.6 (14.1)		<0.001*
<60	16.2	51,409	21.3	4,549	<0.001*	20.8	2,504	<0.001*	22.1	2,045	<0.001*
60 to <80	46.8	148,914	48.5	10,347	<0.001*	51.5	6,214	<0.001*	44.6	4,133	<0.001*
≥ 80	37.0	117,856	30.2	6,438	<0.001*	27.8	3,349	<0.001*	33.3	3,089	<0.001*
n/a	0.0	0	0.0	0		0.0	0		0.0	0	–
Posthospital transfer											
Rehabilitation facility	16.2	51,642	0.0	0		0.0	0		0.0	0	–
Other hospital	10.3	32,749	0.0	0		0.0	0		0.0	0	–
Nursing home	4.4	14,052	0.0	0		0.0	0		0.0	0	–
Hospice	0.1	452	0.2	45	0.013	0.1	14	0.529	0.3	31	<0.001*
n/a	0.1	287	99.8	21,289		99.9	12,053		99.7	9,236	–

*, significant result according to Bonferroni correction. MDS, minimal data set; SD, standard deviation; n/a, not available (data missing).

Table S2 Comparison of hospitalized patients diagnosed with stroke who were discharged alive *vs.* those who died

Variables	Alive (N=313,476)		Deceased (N=26,037)		P
	%	N	%	N	
Sex					
Female	46.4	145,595	57.0	14,846	<0.001*
Male	53.5	167,680	42.9	11,175	<0.001*
n/a	0.1	201	0.1	16	–
Age, years					
Total, mean (SD)	72.3 (13.2)		80.2 (10.5)		<0.001*
Female, mean (SD)	75.1 (13.3)		82.5 (9.7)		<0.001*
Male, mean (SD)	69.9 (12.6)		77.3 (10.8)		<0.001*
<60	17.4	54,648	5.0	1,310	<0.001*
60 to <80	48.0	150,585	33.3	8,676	<0.001*
≥80	34.5	108,243	61.6	16,051	<0.001*
n/a	0.0	0	0.0	0	–
Disease status					
Event ≤7 days	94.1	294,837	89.6	23,342	<0.001*
Event >7 days	3.7	11,618	1.7	449	<0.001*
n/a	2.2	7,021	8.6	2,246	<0.001*
Comorbidity					
Ischemic stroke	92.3	289,444	71.5	18,623	<0.001*
ICB	6.4	20,139	26.2	6,818	<0.001*
SAB	1.2	3,893	2.3	596	<0.001*
Arterial hypertension	78.5	246,164	76.8	20,002	<0.001*
n/a	7.9	24,772	10.7	2,773	–
Diabetes mellitus	26.6	83,285	25.6	6,677	<0.001*
n/a	8.0	24,965	10.7	2,789	–
Atrial fibrillation	25.3	79,295	41.0	10,692	<0.001*
n/a	8.3	25,900	10.8	2,824	–
Previous stroke	23.3	72,905	24.6	6,406	<0.001*
n/a	8.0	25,005	10.7	2,782	–
Prehospital care					
Independent, at home	76.4	239,436	51.4	13,385	<0.001*
Care at home	9.9	30,998	20.2	5,247	<0.001*
Institutional care	7.7	24,161	18.0	4,679	<0.001*
n/a	6.0	18,802	10.4	2,710	–
Patient status at hospital admission					
Consciousness					
Clear awareness	87.8	275,319	41.3	10,764	<0.001*
Reduced awareness	6.3	19,670	48.4	12,589	<0.001*
n/a	5.9	18,487	10.3	2,684	–
NIHSS score					
0 points	10.9	34,240	1.1	295	<0.001*
1–4 points	44.4	139,319	8.0	2,089	<0.001*
5–15 points	31.1	97,348	29.2	7,601	<0.001*
16–20 points	4.8	15,181	21.7	5,642	<0.001*
21–42 points	2.7	8,473	29.4	7,652	<0.001*
n/a	6.0	18,915	10.6	2,758	–
Mean (SD)	5.5	(5.9)	17.0	(9.3)	<0.001*
In-patient treatment					
Ward					
General ward	8.3	25,975	8.4	2,192	0.455
Stroke unit	79.0	247,609	54.6	14,215	<0.001*
Intensive-care unit	5.8	18,112	25.9	6,756	<0.001*
Other ward	0.2	747	0.3	67	0.509
n/a	6.7	21,033	10.8	2,807	–
Therapy					
Systemic lysis in hospital	15.3	47,956	14.2	3,703	<0.001*
n/a	5.8	18,167	10.2	2,661	–
Intra-art. lysis/thrombectomy	2.6	7,997	6.5	1,680	<0.001*
n/a	5.9	18,584	10.3	2,689	–
Ventilation	4.1	12,996	26.3	6,846	<0.001*
n/a	5.8	18,226	10.2	2,666	–
Complications					
Increased ICP	0.9	2,767	19.4	5,041	<0.001*
n/a	93.2	292,074	70.3	18,310	–
Secondary bleeding	1.0	3,194	9.0	2,348	<0.001*
n/a	93.0	291,646	80.6	20,995	–
Modified Rankin scale at discharge					
0	16.4	51,273	0.0	0	–
1	21.6	67,636	0.0	0	–
2	22.1	69,314	0.0	0	–
3	13.8	43,252	0.0	0	–
4	10.1	31,539	0.0	0	–
5	8.2	25,758	0.0	0	–
Death	0.0	0	100	26,037	–
n/a	7.9	24,702	0.0	0	–
Palliative treatment goal determined during hospital stay					
Palliative treatment	6.2	19,585	60.0	15,629	<0.001*
n/a	8.2	25,645	10.7	2,794	–
Post-hospital transfer					
Rehabilitation facility	16.5	51,642	0.0	0	–
Other hospital	10.4	32,749	0.0	0	–
Nursing home	4.5	14,052	0.0	0	–
Hospice	0.2	497	0.0	0	–
n/a	6.0	18,926	10.4	2,695	–

*, significant result according to Bonferroni correction. SD, standard deviation; ICB, intracerebral bleeding; SAB, subarachnoid bleeding; ICP, intracranial pressure; NIHSS, National Institutes of Health Stroke Scale; n/a, not available (data missing).

Table S3 Stroke patients with and without determination of a palliative treatment goal during hospitalization

Variables	Determination of a palliative treatment goal during hospitalization							
	Yes (N=35,214)				No (N=275,860)			
	Alive (N=19,585)		Deceased (N=15,629)		Alive (N=268,246)		Deceased (N=7,614)	
	%	N	%	N	%	N	%	N
Sex								
Female	60.9	11,920	60.5	9,457	45.3	121,600	51.1	3,887
Male	39.1	7,648	39.4	6,161	54.6	146,485	48.9	3,724
Age, years								
Total, mean (SD)	80.7 (9.8)		81.8 (9.4)		72.0 (13.1)		78.3 (11.0)	
Female, mean (SD)	82.9 (8.9)		83.7 (8.6)		74.7 (13.2)		80.8 (10.3)	
Male, mean (SD)	77.2 (10.1)		78.9 (9.9)		69.7 (12.5)		75.7 (11.1)	
<60	3.7	734	3.1	487	17.9	48,039	6.8	520
60 to <80	34.6	6,774	29.1	4,550	48.9	131,200	39.9	3,035
≥80	61.8	12,077	67.8	10,592	33.2	89,007	53.3	4,059
Disease status								
Event ≤7 days	100	19,585	100	15,629	100	268,246	100	7,614
Event >7 days	0.0	0	0.0	0	0.0	0	0.0	0
Comorbidity								
Ischemic stroke	91.2	17,860	74.3	11,606	93.8	251,719	76.3	5,811
ICB	8.3	1,623	24.5	3,830	5.4	14,524	21.9	1,671
SAB	0.5	102	1.2	193	0.7	2,003	1.7	132
Arterial hypertension	91.9	17,843	86.9	13,558	84.8	227,447	83.7	6,370
Diabetes mellitus	31.5	6,166	28.2	4,415	28.6	76,780	29.5	2,248
Atrial fibrillation	42.4	8,299	47.8	7,471	26.3	70,693	42.0	3,199
Previous stroke	33.3	6,521	28.8	4,504	24.6	66,121	24.8	1,888
Prehospital care								
Independent, at home	53.7	10,524	54.1	8,454	83.0	222,550	63.7	4,851
Care at home	19.7	3,868	23.9	3,742	9.9	26,596	19.5	1,482
Institutional care	26.2	5,133	21.7	3,396	6.9	18,596	16.7	1,268
Patient status at hospital admission								
Consciousness								
Reduced awareness	17.6	3,442	56.4	8,821	5.4	14,522	48.6	3,699
NIHSS score								
0 points	5.0	988	0.8	127	12.2	32,696	2.1	159
1–4 points	30.9	6,048	7.0	1,100	49.1	131,670	12.8	973
5–15 points	42.7	8,372	30.4	4,747	31.9	85,653	36.9	2,812
16–20 points	12.5	2,452	25.9	4,046	4.3	11,549	20.6	1,565
21–42 points	8.6	1,686	35.5	5,552	2.3	6,047	27.2	2,071
Mean (SD)	9.1	(7.4)	17.8	(9.0)	5.1	(5.5)	15.4	(9.6)
In-patient treatment								
Ward								
General ward	8.1	1,584	9.9	1,542	8.9	23,897	8.4	636
Stroke unit	84.1	16,474	60.4	9,433	84.1	225,553	61.8	4,704
Intensive-care unit	7.3	1,420	28.7	4,488	5.9	15,753	29.4	2,236
Other ward	0.1	11	0.3	42	0.2	431	0.3	21
Therapy								
Systemic lysis in hospital	15.7	3,084	14.7	2,301	15.7	42,173	18.0	1,373
Arterial lysis/thrombectomy	5.3	1,031	6.4	999	2.6	6,929	8.9	678
Ventilation	5.9	1,160	28.6	4,473	4.4	11,817	31.1	2,369
Complications								
Increased ICP	2.0	392	23.3	3,629	0.9	2,367	18.4	1,402
Secondary bleeding	2.5	484	9.7	1,515	1.0	2,697	10.9	831
Modified Rankin scale at discharge								
0	7.3	1,430	–	–	18.5	49,641	–	–
1	12.6	2,462	–	–	24.2	64,850	–	–
2	16.6	3,260	–	–	24.5	65,784	–	–
3	16.2	3,171	–	–	14.9	39,911	–	–
4	16.6	3,254	–	–	10.5	28,141	–	–
5	30.4	5,949	–	–	7.3	19,662	–	–
Post-hospital transfer								
Rehabilitation facility	18.7	3,669	–	–	17.8	47,732	–	–
Other hospital	9.6	1,872	–	–	9.5	25,357	–	–
Nursing home	17.3	3,390	–	–	4.0	10,631	–	–
Hospice	1.7	326	–	–	0.05	125	–	–

SD, standard deviation; ICB, intracerebral bleeding; SAB, subarachnoid bleeding; ICP, intracranial pressure; NIHSS, National Institutes of Health Stroke Scale; n/a, not available (data missing).