

# Supplement

**Table S1.** Meteorological parameters and the neurological status of patients as per the NIHSS on the day of onset.

Parameter	NIHSS (1) 0-4 N=262	NIHSS (2) 5-12 N=97	NIHSS (3) 13-42 N=43	P 1-2	P 1-3	P 2-3	p
Mean temperature on the first day of stroke [°C]	8.85 ± 8.10 Median 7.3 [-7.2-27]	9.58 ± 7.76 Median 8.8 [-7.2-27]	7.74 ± 7.12 Median 5.6 [-3-23.8]	0.419	0.442	0.205	0.587
Mean temperature on the day preceding stroke [°C]	8.98 ± 7.83 Median 7.45 [-7.2-27]	9.47 ± 7.27 Median 9.3 [-4.5-26]	8.13 ± 7.25 Median 6.4 [-3.1-23.8]	0.631	0.586	0.368	0.103
Mean atmospheric pressure on the first day of stroke [hPa]	984.6 ± 8.6 Median 984.9 [946.9-1004.7]	985.6 ± 8.4 Median 986.5 [946.9-1000.2]	986.3 ± 7.9 Median 985.7 [969.5-1001.6]	0.353	0.220	0.611	0.979
Mean atmospheric pressure on the day preceding stroke [hPa]	984.8 ± 7.7 Median 984.6 [958.4-1004.7]	985.9 ± 7.7 Median 986 [963.5-1004.4]	985.7 ± 8.1 Median 984.7 [963.5-1001.8]	0.261	0.503	0.903	0.973
Mean relative humidity on the first day of stroke [%]	73.6 ± 13.2 Median 74.45 [43.2-96.4]	74.1 ± 13.5 Median 75 [45.2-95.8]	76.5 ± 12.4 Median 77.8 [43.6-95.6]	0.261	0.170	0.310	0.857
Mean wind speed on the first day of stroke [km/h]	9.8 ± 4.9 Median 8.2 [1.8-24.1]	8.8 ± 4.7 Median 7.4 [1.8-22.2]	8.7 ± 3.9 Median 8.1 [1.8-19.8]	0.111	0.412	0.683	0.461

NIHSS- National Institute of Health Stroke Scale

**Table S2.** Selected meteorological parameters on the day of stroke onset and types of stroke.

Parameter	Hemorrhagic stroke N=38	Ischaemic stroke N=364	p
Maximum temperature [°C]	14.2 ± 9.3 Median 13.25 Range [1.4-32.7]	13.7 ± 9.4 Median 12.6 Range [(-3.9)-34.7]	0.748

Minimum temperature [°C]	4.3 ± 6.4 Median 3.5 Range [(-7.2)–17.7]	4.1 ± 6.9 Median 2.7 Range [(-11.4)–21.0]	0.867
Mean temperature [°C]	9.1 ± 7.7 Median 7.3 Range [(-2.1)–23.3]	8.9 ± 7.9 Median 7.4 Range [(-7.2)–27]	0.836
Mean temperature on the day preceding stroke [°C]	9.2 ± 7.3 Median 6.7 Range [(-2.2)–23.3]	9.0 ± 7.7 Median 7.8 Range [(-7.2)–27]	0.945
Mean monthly temperature [°C]	9.4 ± 7.1 Median 7.6 Range [0.6–21.8]	9.0 ± 7.0 Median 7.6 Range [0.6–21.8]	0.618
Humidity [%]	77.0 ± 12.0 Median 79.15 Range [47.1–95.8]	73.7 ± 13.3 Median 74.4 Range [43.2–96.4]	0.140
Atmospheric pressure [hPa]	985.4 ± 8.6 Median 986.4 Range [946.9–997.9]	985.0 ± 8.5 Median 985.1 Range [946.9–1004.7]	0.794
Atmospheric pressure on the day preceding stroke [hPa]	984.6 ± 7.0 Median 983.9 Range [968.2–1001.8]	985.2 ± 7.8 Median 985.0 Range [958.4–1004.7]	0.637
Atmospheric pressure, monthly mean [hPa]	985.0 ± 3.1 Median 984.2 Range [981.4–994.2]	985.2 ± 3.4 Median 984.2 Range [981.4–994.2]	0.824
Wind speed [km/h]	8.24 ± 3.90 Median 7.3 Range [2.9–20.6]	9.55 ± 4.87 Median 8.1 Range [1.8–24.1]	0.109
Precipitation [mm]	1.22 ± 2.43 Median 0.2 Range [0–12]	1.53 ± 2.96 Median 0 Range [0–20.1]	0.540
Insolation [h]	4.78 ± 4.75 Median 3.95 Range [0–14.4]	4.54 ± 4.38 Median 3.3 Range [0–14.7]	0.683