

**Table 1 Baseline demographics and clinical characteristics**

	All participants	SBP Category		p value
		< 120.1 mmHg*	≥ 120.1 mmHg*	
<b>Number of participants</b>	441	249	192	
<b>Age, mean (SD)</b>	39.1 (10.3)	36.7 (9.8)	42.2 (10.2)	<0.001
<b>Female, n (%)</b>	344 (78.0)	225 (90.4)	119 (62.0)	<0.001
<b>Aura, n (%)</b>	44 (10.0)	25 (10.0)	19 (9.9)	0.960
<b>Body-mass index</b>	22.9 (3.9)	21.3 (2.7)	25 (4.1)	<0.001
<b>Monthly headache days (/28 days), mean (SD)</b>	9.8 (7.7)	9.7 (7.3)	9.9 (8.3)	0.598
<b>Monthly days of analgesic use (/28 days), mean (SD)</b>	6.4 (7.1)	5.5 (6.4)	7.4 (7.8)	0.010
<b>NSAID use, n (%)</b>	200 (45.4)	107 (43.0)	93 (48.4)	0.253
<b>Triptan use, n (%)</b>	31 (7.0)	18 (7.2)	13 (6.8)	0.852
<b>Blood pressure, mean (SD)</b>				
SBP	120.1 (18.9)	107.1 (8.1)	136.9 (15.4)	<0.001
DBP	75.8 (11.6)	68.8 (7)	84.9 (9.9)	<0.001
MAP	90.6 (13.4)	81.6 (6.7)	102.2 (10.7)	<0.001
<b>Chronic migraine, n (%)</b>	124 (28.1)	64 (25.7)	60 (31.3)	0.199
<b>Medication use on the day of clinic visit, n (%)</b>				
No medication	417 (94.6)	232 (95.1)	185 (93.9)	0.589
Analgesics	24 (5.4)	12 (5)	12 (6.1)	0.516
Non-preventive anti-hypertensives	0	0	0	n/a
<b>MIDAS, mean (SD)</b>	30 (36.4)	27.5 (32)	33.1 (41.2)	0.228
<b>HADS, mean (SD)</b>	30.0 (36.4)	13.9 (6.7)	13.6 (7.6)	0.419
<b>PSQI, mean (SD)</b>	13.8 (7.1)	19.3 (13.9)	20.6 (16.8)	0.621

\*Mean value of systolic blood pressure at the first clinic visit

Abbreviations: DBP=diastolic blood pressure, HADS=Hospital Anxiety and Depression Scale, MAP=mean arterial pressure, MIDAS=Migraine Disability Assessment, PSQI=Pittsburgh Sleep Quality Index, SBP=systolic blood pressure, SD=standard deviation

**Table 2 Association of monthly headache frequency with baseline blood pressures, stratified by baseline BP**

	<b>All participants</b>		<b>Baseline BP &lt; mean*</b>		<b>Baseline BP ≥ mean*</b>	
	Spearman's rho	p value	Spearman's rho	p value	Spearman's rho	p value
<b>SBP</b>	0.023	0.626	0.029	0.646	0.181	0.012
<b>DBP</b>	0.040	0.405	-0.052	0.419	0.148	0.039
<b>MAP</b>	0.030	0.524	-0.063	0.318	0.179	0.014

\*Mean values of SBP, DBP and MAP, respectively, at the first clinic visit

Abbreviations: CI=confidence interval, DBP=diastolic blood pressure, MAP=mean arterial pressure, SBP=systolic blood pressure

**Table 3 Odds ratios for having a 5-mmHg reduction in systolic blood pressure at 3 months in patients with ≥50% improvement in monthly headache days as compared with those without**

	5-mmHg SBP reduction	
	OR (95% CI)	p value
Model 1	1.63 (1.05-2.55)	0.031
Model 2	1.70 (1.05-2.76)	0.032
Model 3	1.65 (1.06-2.59)	0.028

Abbreviations: CI=confidence interval, HT=hypertensive, OR=odds ratio, SBP=systolic blood pressure

**Model 1: adjusted for analgesic use on the day of clinic visit at baseline (yes/no), and analgesic use on the day of clinic visit at month 3 (yes/no),**

**Model 2: adjusted for analgesic use on the day of clinic visit at baseline (yes/no), analgesic use on the day of clinic visit at month 3 (yes/no), and baseline SBP status (< mean/≥ mean)**

**Model 3: adjusted for headache score on the day of clinic visit at baseline (0-10/10), and headache score on the day of clinic visit at month 3 (0-10/10)**

**All models adjusted for age, gender, body-mass index, monthly days of analgesic use at baseline, use of non-preventive anti-hypertensive agents during follow-up (yes/no), and preventive treatment during follow-up (yes/no)**

**Supplementary table. Odds ratios for having 3-, 5-, and 7-mmHg reduction in systolic blood pressure at 3 months in patients with ≥50% improvement in monthly headache days as compared with those without**

	3-mmHg SBP reduction		5-mmHg SBP reduction		7-mmHg SBP reduction	
	OR (95% CI)	p value*	OR (95% CI)	p value*	OR (95% CI)	p value*
<b>Model 1</b>						
All	1.71 (1.09-2.67)	0.042	1.63 (1.05-2.55)	0.047	1.94 (1.22-3.08)	0.023
Preventive (-) (n=218)	1.14 (0.58-2.21)	0.709	1.30 (0.66-2.56)	0.508	1.76 (0.85-3.63)	0.161
Preventive (+) (n=223)	2.42 (1.30-4.48)	0.023	1.95 (1.07-3.57)	0.047	2.15 (1.16-3.97)	0.042
<b>Model 2</b>						
All	1.77 (1.10-2.85)	0.042	1.70 (1.05-2.76)	0.047	2.14 (1.27-3.61)	0.021
Preventive (-) (n=218)	1.14 (0.56-2.32)	0.715	1.33 (0.64-2.77)	0.502	1.93 (0.86-4.35)	0.145
Preventive (+) (n=223)	2.62 (1.35-5.11)	0.021	2.12 (1.09-4.12)	0.047	2.41 (1.19-4.89)	0.042
<b>Model 3</b>						
All	1.72 (1.10-2.70)	0.040	1.65 (1.06-2.59)	0.042	1.97 (1.24-3.14)	0.024
Preventive (-) (n=218)	1.15 (0.59-2.25)	0.677	1.29 (0.66-2.55)	0.514	1.69 (0.82-3.47)	0.198
Preventive (+) (n=223)	2.43 (1.30-4.54)	0.024	2.01 (1.09-3.70)	0.042	2.23 (1.19-4.15)	0.036

Abbreviations: CI=confidence interval, HT=hypertensive, OR=odds ratio, SBP=systolic blood pressure

\*p values adjusted by using Benjamini-Hochberg method

**Model 1: adjusted for analgesic use on the day of clinic visit at baseline (yes/no), and analgesic use on the day of clinic visit at month 3 (yes/no),**

**Model 2: adjusted for analgesic use on the day of clinic visit at baseline (yes/no), analgesic use on the day of clinic visit at month 3 (yes/no), and baseline SBP status (< mean/≥ mean)**

**Model 3: adjusted for headache score on the day of clinic visit at baseline (0-10/10), and headache score on the day of clinic visit at month 3 (0-10/10)**

**All models adjusted for age, gender, body-mass index, monthly days of analgesic use at baseline, use of non-preventive anti-hypertensive agents during follow-up (yes/no), and preventive treatment during follow-up (yes/no)**

