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# Hungary

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# Comments

- The data was extracted from the GARFIELD-AF registry database on 28 JUL 2016
- The data includes prospective patients in cohorts 1, 2, 3, 4 and 5
- The data does not include retrospective patients
- Regions:

Europe: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Hungary, Italy,

Netherlands, Norway, Poland, Russia, Spain, Sweden, Switzerland, Ukraine, United Kingdom

Asia: China, India, Japan, Korea, Singapore, Thailand, Turkey, United Arab Emirates

North America: Canada, United States of America

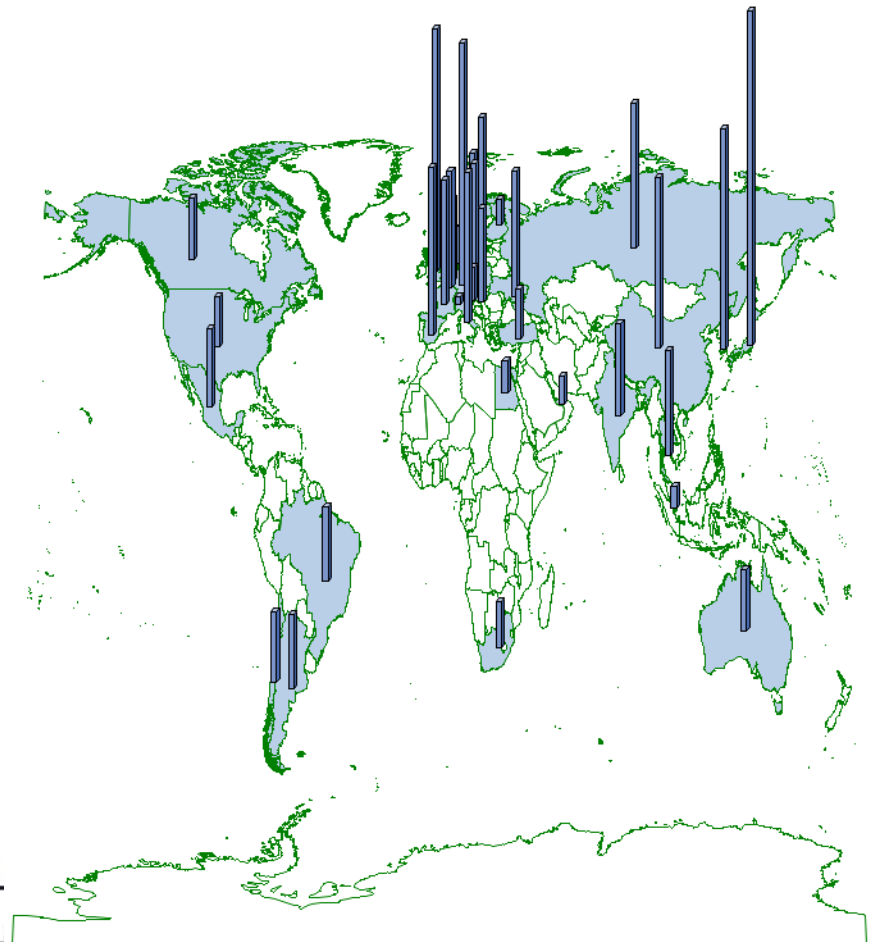
Latin America: Argentina, Brazil, Chile, Mexico

Rest of World: Australia, Egypt, South Africa

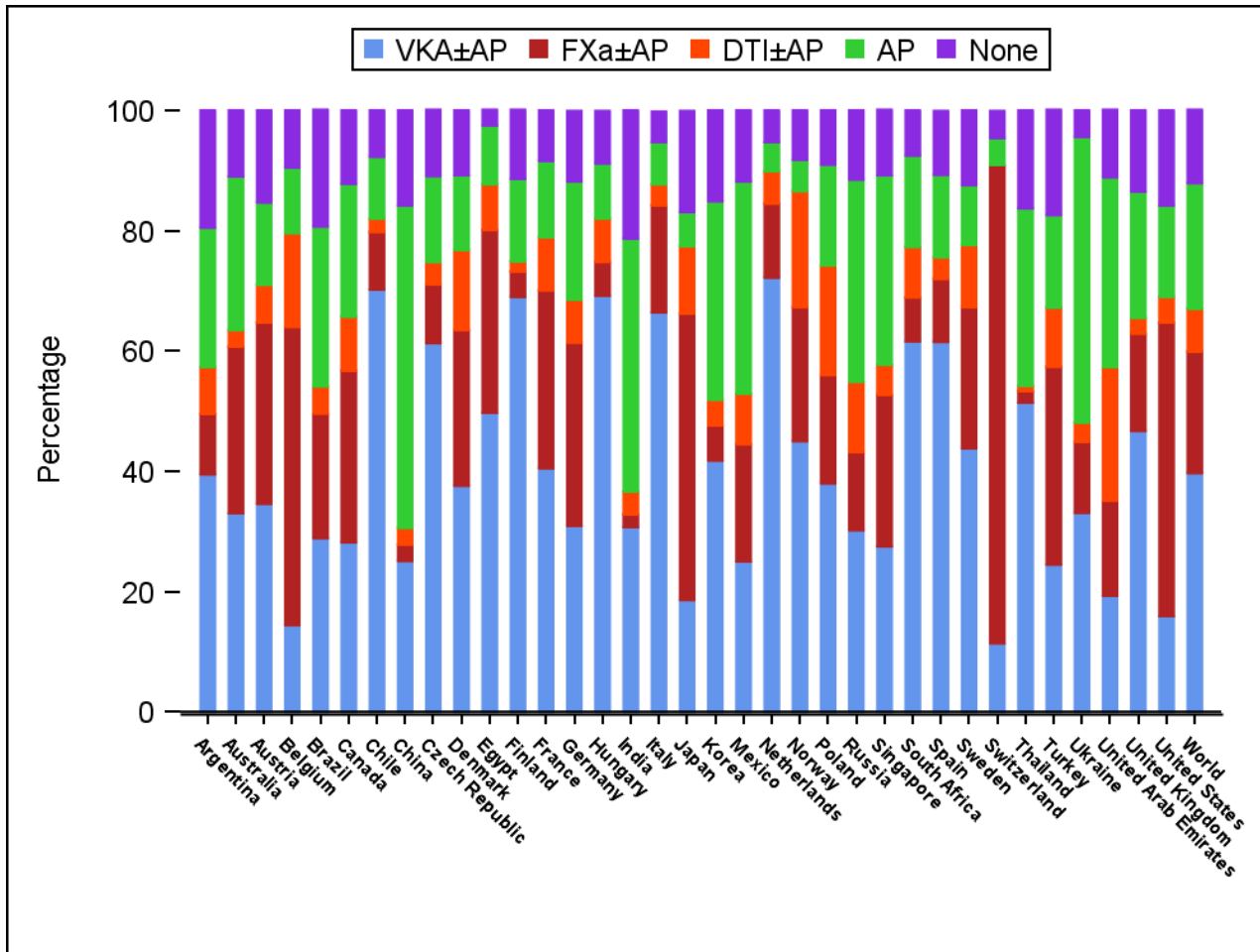
## Treatment at diagnosis by country

### Global enrolment of Prospective patients

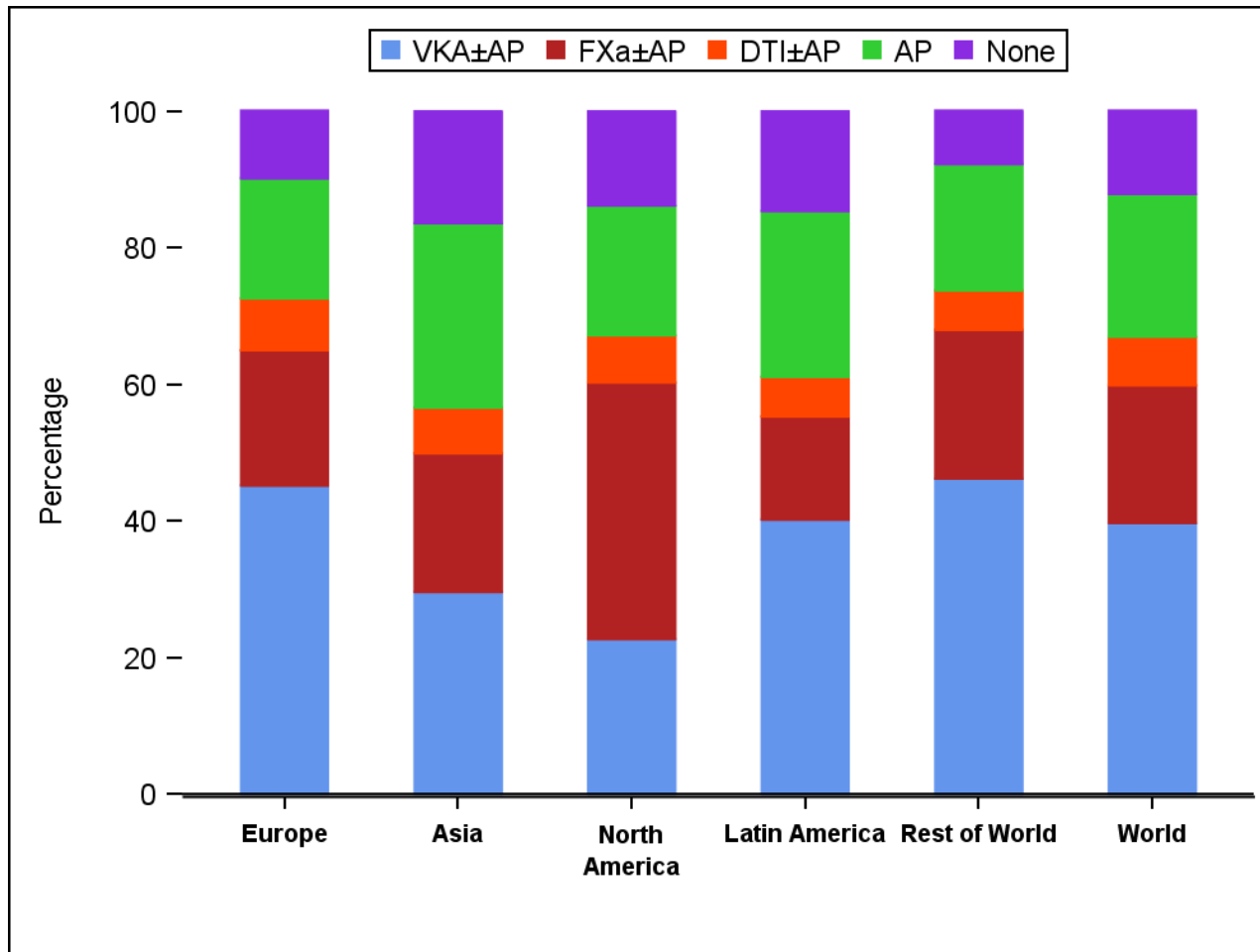
Region	n	%
Europe	28855	56.3
Asia	14713	28.7
North America	1588	3.1
Latin America	4164	8.1
Rest of World	1950	3.8
Total	51270	100



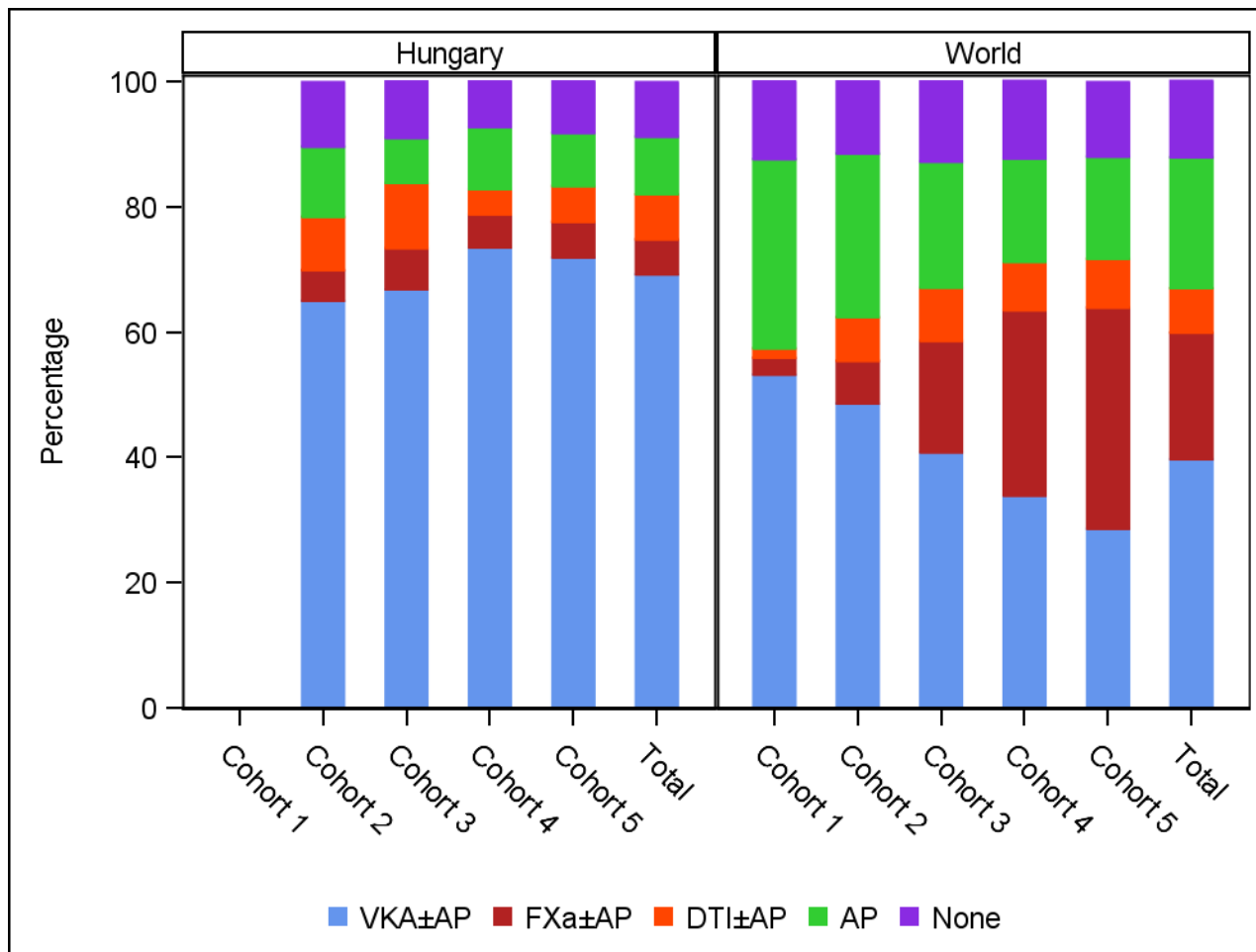
## Treatment at diagnosis by country



## Treatment at diagnosis by region



## Treatment at diagnosis by cohort



## Baseline characteristics

		Hungary N=(1361)	World N=(51270)
Sex	Female, n (%)	702 (51.6)	22668 (44.2)
Age at Diagnosis (Years)	mean (sd)	68.6 (10.3)	69.7 (11.5)
Age Group	<65, n (%)	441 (32.4)	15427 (30.1)
	65-74, n (%)	510 (37.5)	16684 (32.5)
	>=75, n (%)	410 (30.1)	19159 (37.4)
BMI (kg/m <sup>2</sup> )	mean (sd)	29.3 (5.8)	27.8 (5.7)
Pulse (bpm)	mean (sd)	99.7 (28.8)	90.4 (26.8)
Systolic BP (mm Hg)	mean (sd)	133.7 (17.9)	133.5 (19.9)
Diastolic BP (mm Hg)	mean (sd)	81.3 (11.1)	79.7 (12.9)
Congestive heart failure	n (%)	265 (19.5)	10260 (20.0)
Coronary artery disease	n (%)	317 (23.3)	11035 (21.5)
Acute coronary syndrome	n (%)	116 (8.6)	4860 (9.5)
Carotid Occlusive Disease	n (%)	60 (4.5)	1515 (3.0)
Cirrhosis	n (%)	16 (1.2)	289 (0.6)

## Baseline characteristics

		<b>Hungary N=(1361)</b>	<b>World N=(51270)</b>
Diabetes	n (%)	395 (29.0)	11317 (22.1)
History of Bleeding	n (%)	40 (2.9)	1302 (2.6)
Hypercholesterolaemia	n (%)	715 (53.3)	20637 (41.6)
PE or DVT	n (%)	74 (5.5)	1334 (2.6)
Stroke/TIA	n (%)	152 (11.2)	5858 (11.4)
Treatment Sector	In the private sector, n (%)	55 (4.0)	12280 (28.4)
	In the public sector, n (%)	1304 (96.0)	30915 (71.6)



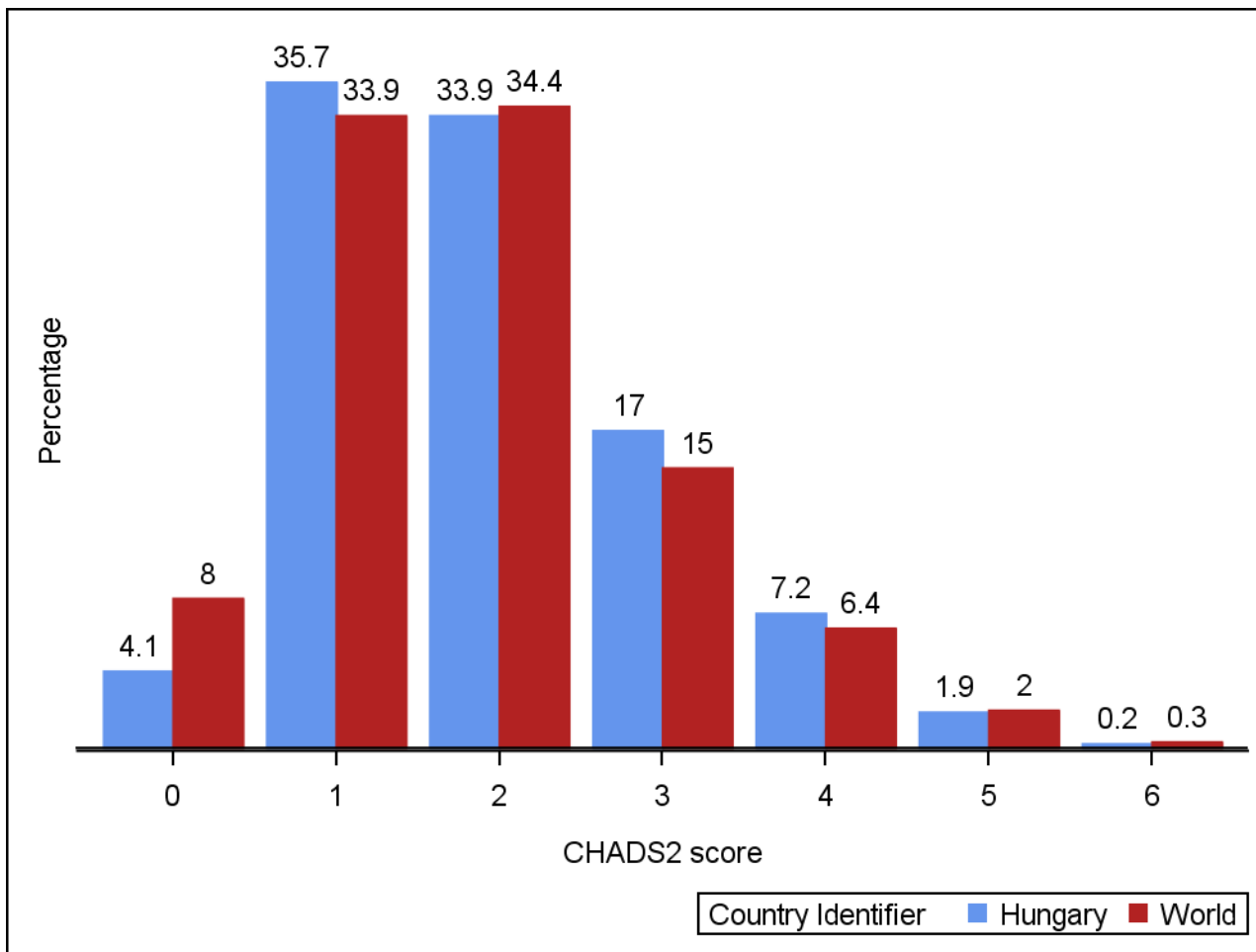
## Baseline characteristics

		<b>Hungary N=(1361)</b>	<b>World N=( 51270)</b>
CHADS2 Score	mean (sd)	1.9 (1.1)	1.9 (1.1)
CHA2DS2-VASc Score	mean (sd)	3.3 (1.5)	3.2 (1.6)
HAS BLED Score	mean (sd)	1.4 (1.0)	1.4 (0.9)

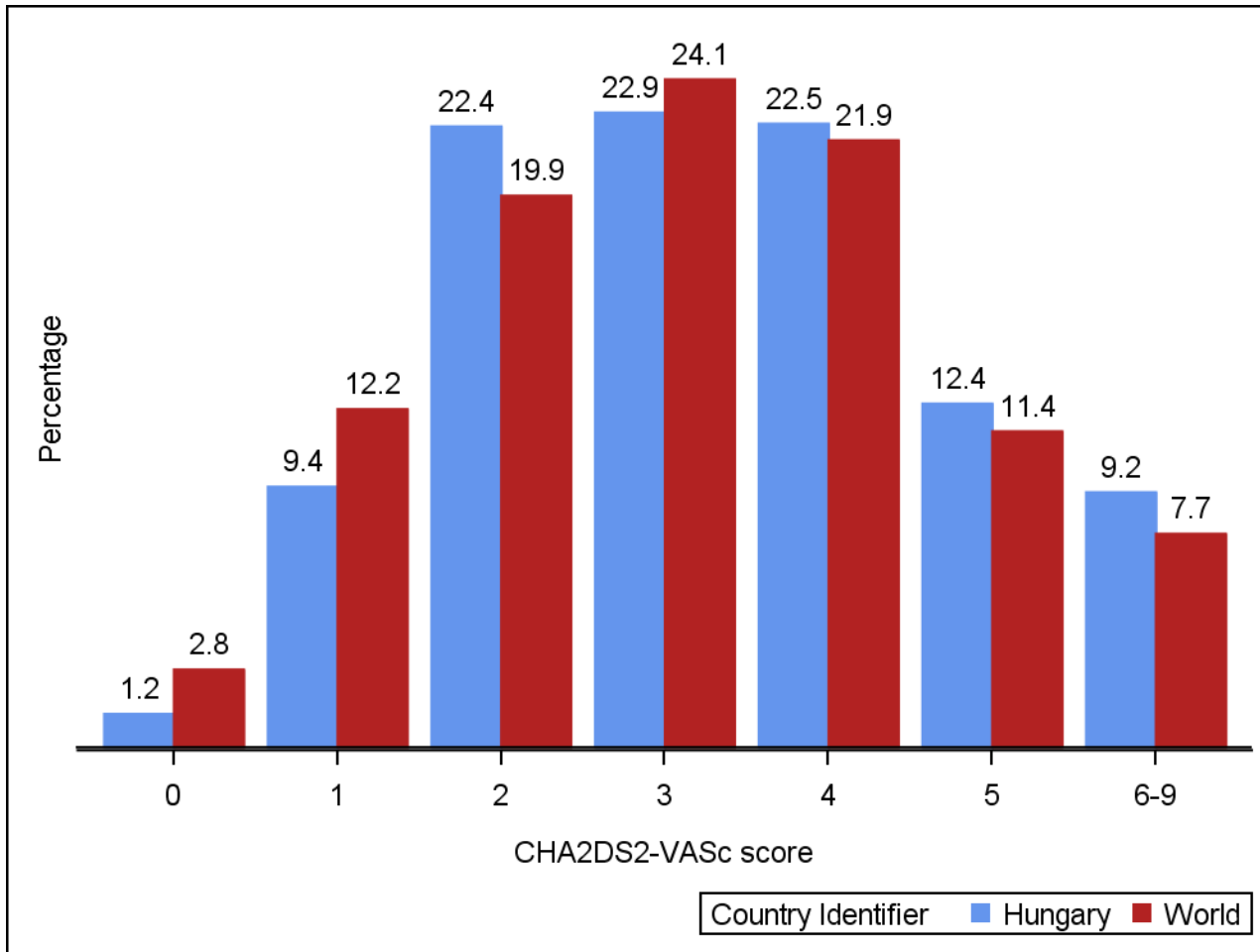
## Baseline characteristics

		Hungary N=(1361)	World N=(51270)
Systemic Embolization	n (%)	10 (0.7)	332 (0.7)
Type of AF Diagnosed	New, n (%)	643 (47.2)	22982 (44.8)
	Paroxysmal, n (%)	374 (27.5)	14115 (27.5)
	Permanent, n (%)	182 (13.4)	6508 (12.7)
	Persistent, n (%)	162 (11.9)	7663 (14.9)
Care Setting Speciality at Diagnosis	Cardiology, n (%)	882 (64.8)	33650 (65.6)
	Internal Medicine, n (%)	315 (23.1)	9211 (18.0)
	Neurology, n (%)	11 (0.8)	870 (1.7)
	Primary Care/General Practice, n (%)	153 (11.2)	7339 (14.3)

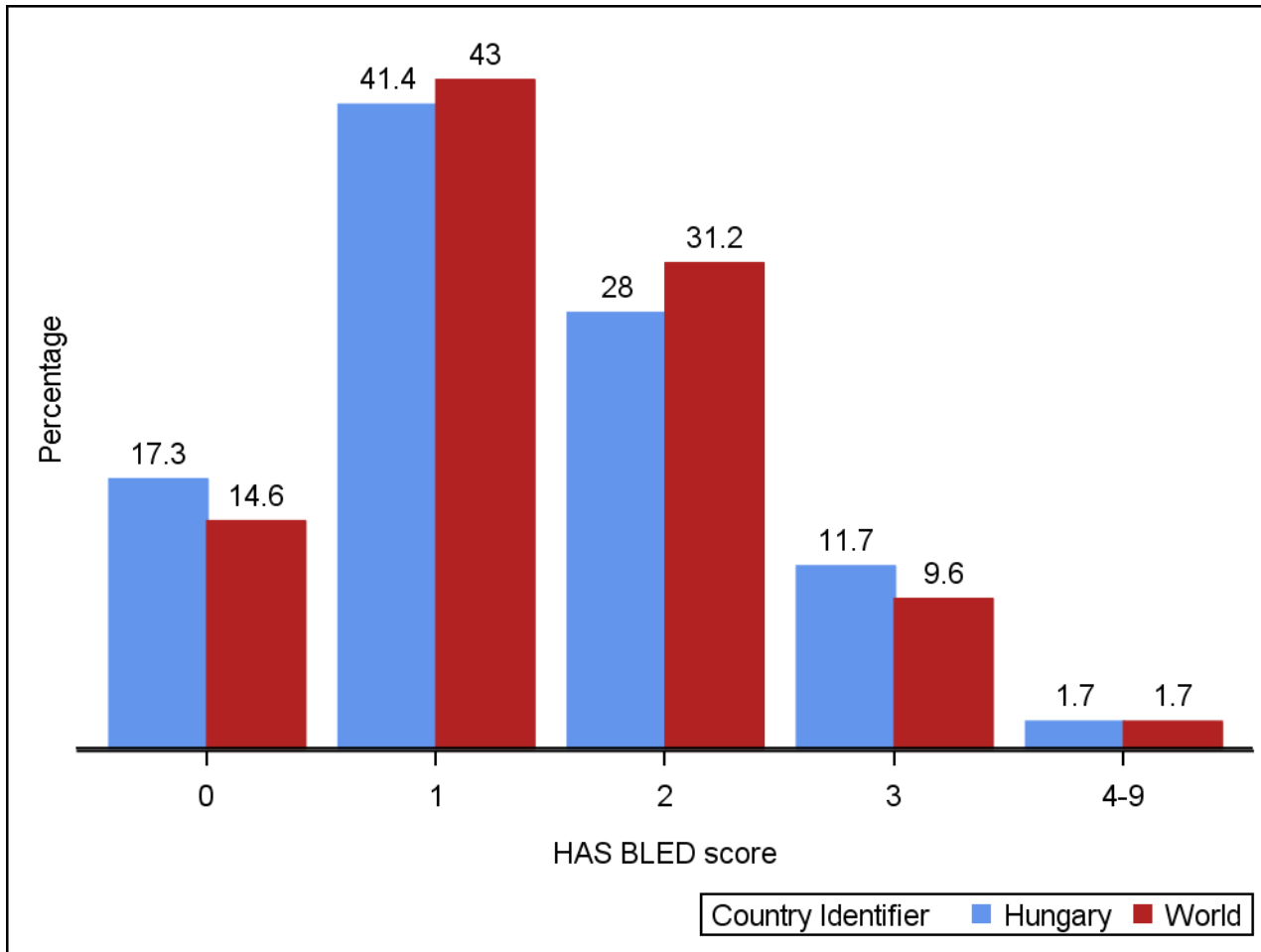
## Stroke risk profile: CHADS<sub>2</sub>



## Stroke risk profile: CHA<sub>2</sub>DS<sub>2</sub> VASc



## Stroke risk profile: HAS BLED



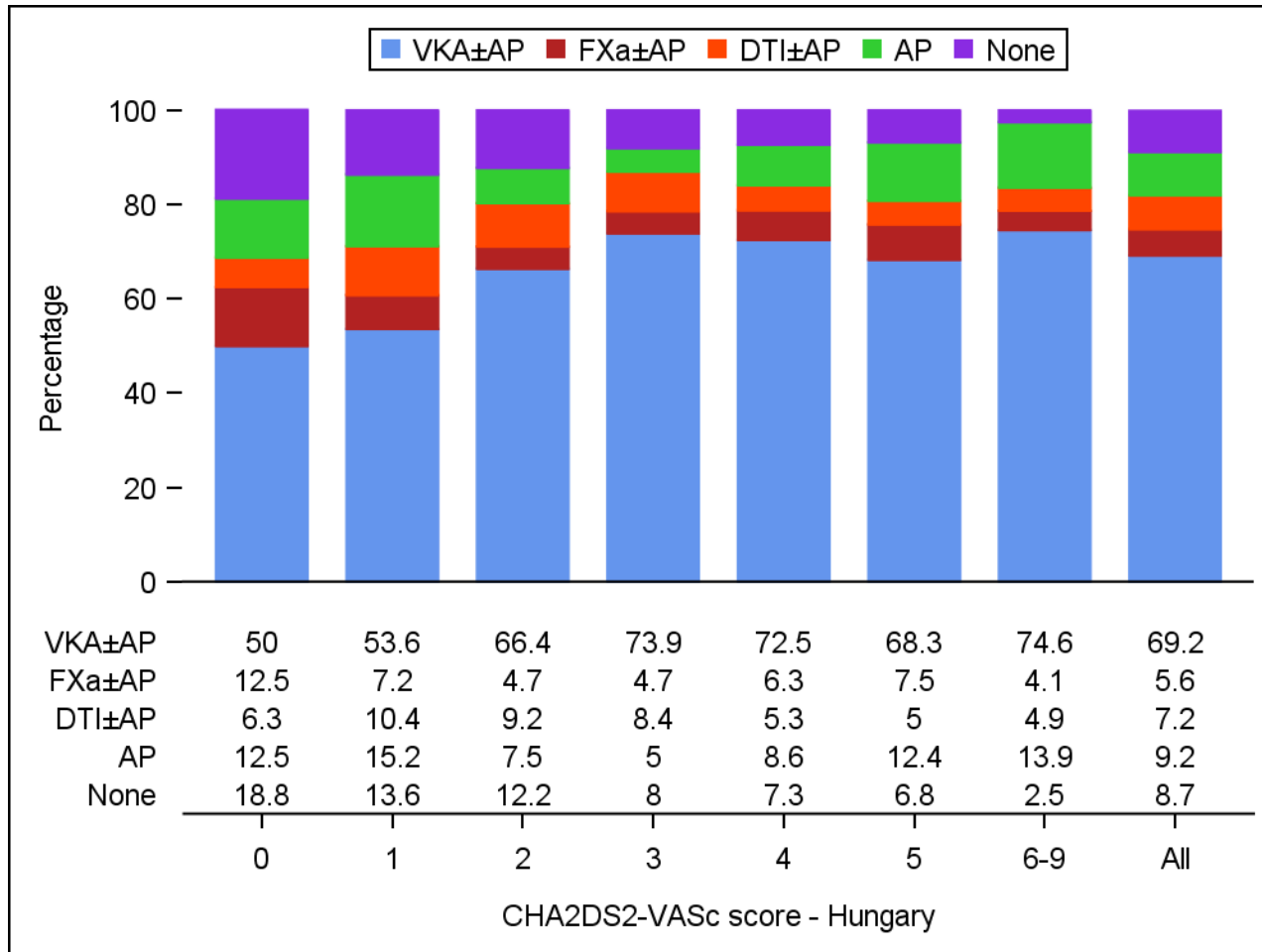
## Treatment at diagnosis by CHA<sub>2</sub>DS<sub>2</sub>-VASc score - Hungary

CHA <sub>2</sub> DS <sub>2</sub> -VASc		VKA±AP	AP	FXa±AP	DTI±AP	None	Unknown	Total
		n	n	n	n	n	n	n
<b>Hungary</b>	<b>Unknown</b>	8	1	0	0	0	0	9
	0	8	2	2	1	3	0	16
	1	67	19	9	13	17	2	127
	2	196	22	14	27	36	8	303
	3	221	15	14	25	24	11	310
	4	219	26	19	16	22	2	304
	5	110	20	12	8	11	7	168
	6-9	91	17	5	6	3	2	124

## Treatment at diagnosis by CHA<sub>2</sub>DS<sub>2</sub>-VASc score - World

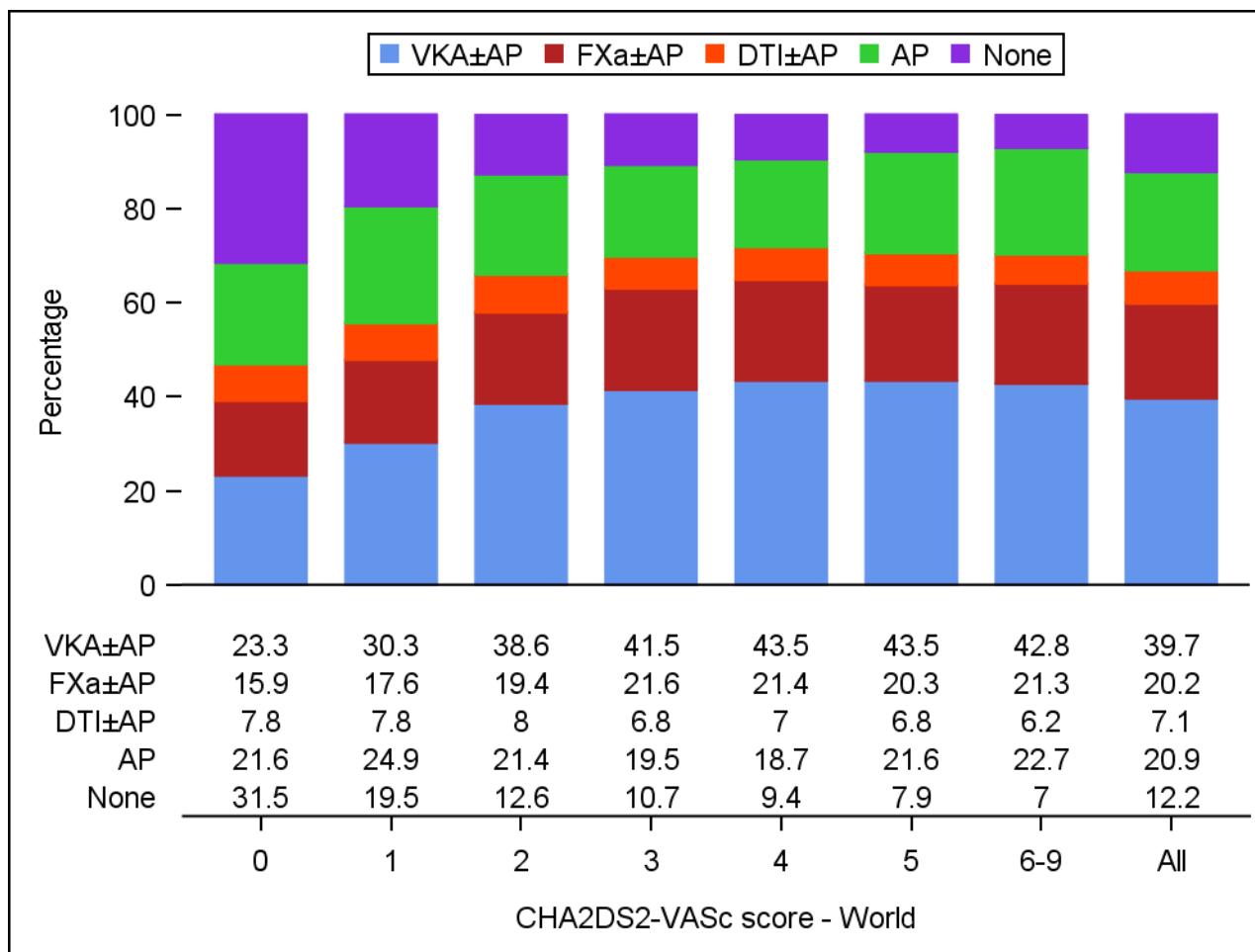
CHA <sub>2</sub> DS <sub>2</sub> -VASc		VKA±AP	FXa±AP	DTI±AP	AP	None	Unknown	Total
		n	n	n	n	n	n	n
<b>World</b>	<b>Unknown</b>	<b>450</b>	<b>209</b>	<b>54</b>	<b>274</b>	<b>317</b>	<b>14</b>	<b>1318</b>
	<b>0</b>	<b>323</b>	<b>220</b>	<b>108</b>	<b>300</b>	<b>437</b>	<b>16</b>	<b>1404</b>
	<b>1</b>	<b>1827</b>	<b>1061</b>	<b>468</b>	<b>1503</b>	<b>1179</b>	<b>57</b>	<b>6095</b>
	<b>2</b>	<b>3800</b>	<b>1908</b>	<b>793</b>	<b>2108</b>	<b>1246</b>	<b>110</b>	<b>9965</b>
	<b>3</b>	<b>4930</b>	<b>2567</b>	<b>803</b>	<b>2317</b>	<b>1266</b>	<b>147</b>	<b>12030</b>
	<b>4</b>	<b>4698</b>	<b>2313</b>	<b>751</b>	<b>2020</b>	<b>1016</b>	<b>139</b>	<b>10937</b>
	<b>5</b>	<b>2439</b>	<b>1137</b>	<b>379</b>	<b>1210</b>	<b>445</b>	<b>86</b>	<b>5696</b>
	<b>6-9</b>	<b>1613</b>	<b>803</b>	<b>233</b>	<b>856</b>	<b>262</b>	<b>58</b>	<b>3825</b>

## Treatment at diagnosis





## Treatment at diagnosis



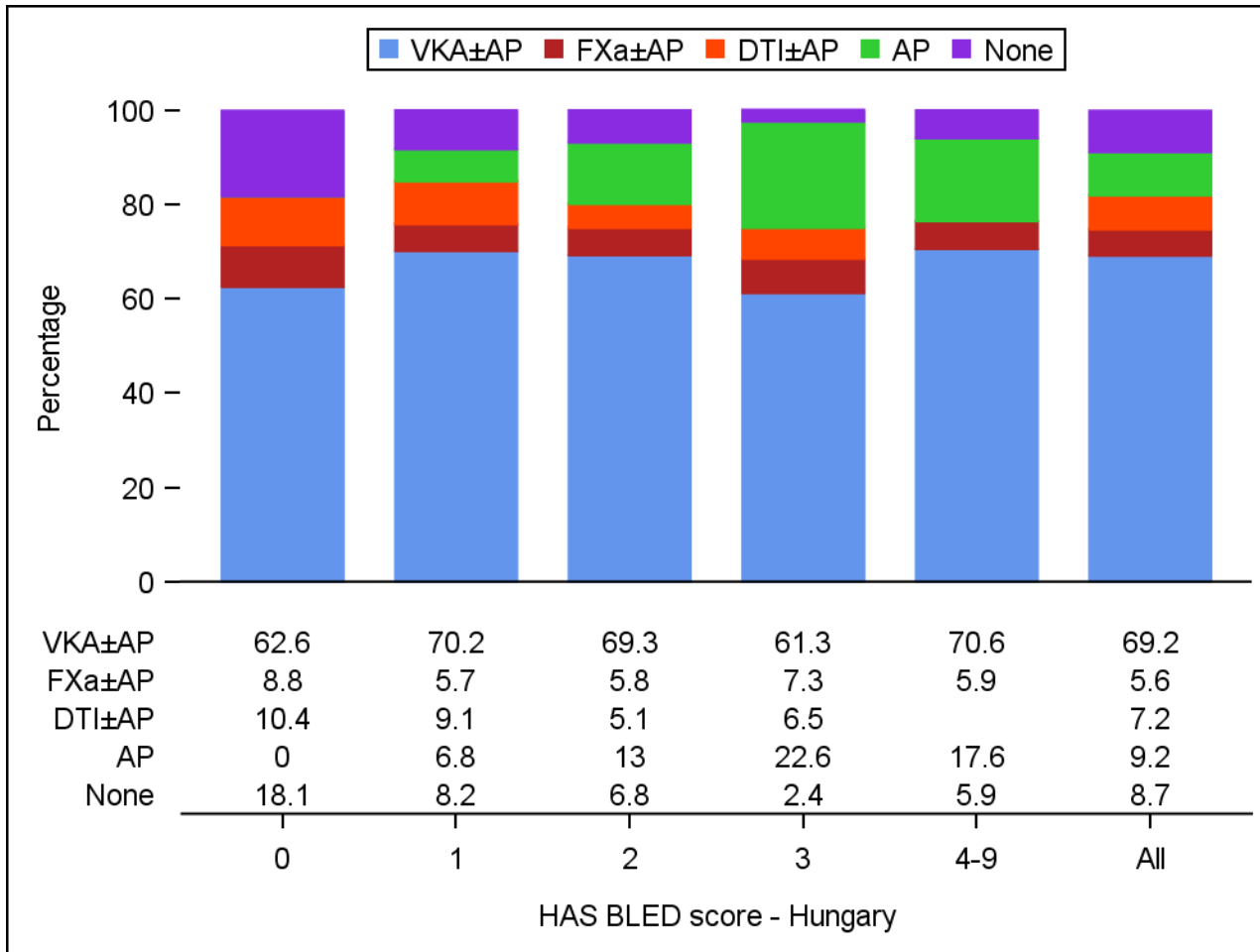
## Treatment at diagnosis by HAS BLED score - Hungary

HASBLED		VKA±AP	FXa±AP	DTI±AP	AP	None	Unknown	Total	
		n	n	n	n	n	n	N	n
Hungary	Unknown	207	7	14	23	23	4	278	278
	0	114	16	19	0	33	5	187	187
	1	308	25	40	30	36	9	448	448
	2	203	17	15	38	20	10	303	303
	3	76	9	8	28	3	3	127	127
	4-9	12	1	0	3	1	1	18	18

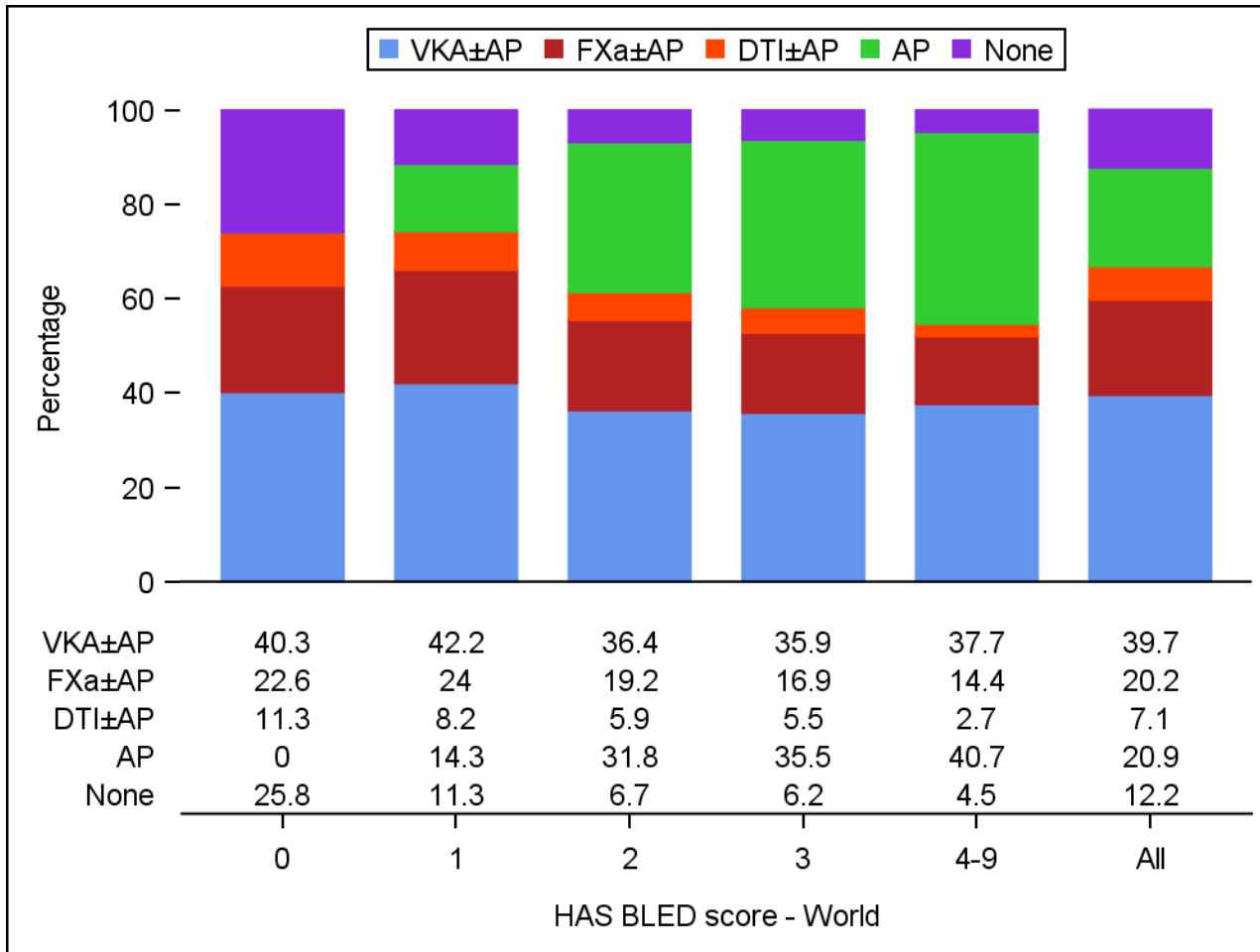
## Treatment at diagnosis by HAS BLED score - World

HASBLED		VKA±AP	FXa±AP	DTI±AP	AP	None	Unknown	Total
		n	n	n	n	n	n	n
World	Unknown	5685	2393	827	3225	2025	139	14294
	0	2138	1201	598	0	1366	83	5386
	1	6622	3759	1280	2243	1773	213	15890
	2	4145	2185	676	3625	758	140	11529
	3	1254	590	191	1240	218	43	3536
	4-9	236	90	17	255	28	9	635

## Treatment at diagnosis



## Treatment at diagnosis



## INR values and time in therapeutic range

Variable	Statistics	Hungary (N = 667) n %	World (N = 16852) n %
INR value, n(%)	n	4496	137133
	<2	1768 (39.3)	43965 (32.1)
	2-3	1921 (42.7)	70543 (51.4)
	>3	807 (17.9)	22625 (16.5)
INR value	n	4496	137133
	Mean (SD)	2.3 (0.9)	2.4 (0.9)
	Median (IQR)	2.2 (1.7 to 2.8)	2.3 (1.8 to 2.8)
	Min to Max	0.9 to 13.9	0.8 to 20.0
TTR, n(%)	n (missing)	424 (243)	9934 (6918)
	<65	297 (70.0)	5851 (58.9)
	>=65	127 (30.0)	4083 (41.1)
TTR	n (missing)	424 (243)	9934 (6918)
	Mean (SD)	50.8 (25.2)	55.0 (27.3)
	Median (IQR)	52.6 (33.6 to 69.0)	58.8 (36.7 to 75.8)
	Min to Max	0.0 to 100.0	0.0 to 100.0

## Event rates during the first year of follow-up (rates per 100 person-years)

	Hungary		World	
	Events	Rate (95% CI)	Events	Rate (95% CI)
Death	55	5.72 (4.40 to 7.46)	1603	4.25 (4.05 to 4.46)
Cardiovascular Death	27	2.81 (1.93 to 4.10)	643	1.71 (1.58 to 1.84)
Non-cardiovascular death	21	2.19 (1.43 to 3.35)	581	1.54 (1.42 to 1.67)
Undetermined Cause	7	0.73 (0.35 to 1.53)	379	1.01 (0.91 to 1.11)
Stroke/SE	14	1.47 (0.87 to 2.47)	537	1.43 (1.32 to 1.56)
Major Bleeding	14	1.47 (0.87 to 2.48)	328	0.87 (0.78 to 0.97)
Acute coronary syndrome	7	0.73 (0.35 to 1.53)	306	0.81 (0.73 to 0.91)
Congestive hearth failure	19	2.00 (1.27 to 3.13)	899	2.42 (2.26 to 2.58)

## Cause of death during the first year of follow-up

	Hungary		World	
	n	%	n	%
<b>Cardiovascular causes</b>				
Congestive heart failure	14	51.9	211	32.8
Sudden or unwitnessed death	2	7.4	109	17.0
Myocardial infarction	1	3.7	69	10.7
Non-haemorrhagic stroke (Ischemic Stroke)	1	3.7	69	10.7
<b>Non Cardiovascular causes</b>				
Malignancy	9	42.9	167	28.7
Respiratory failure	4	19.0	115	19.8
Infection	2	9.5	56	9.6
Sepsis	1	4.8	55	9.5



## Type of stroke during the first year of follow-up

	Hungary		World	
	n	%	n	%
Stroke (not including systemic embolism)	13	1.29	483	1.21
Primary Ischemic	7	0.69	327	0.82
of which secondary hemorrhagic ischemic			18	0.05
Primary intracerebral hemorrhage	4	0.40	62	0.16
Intracerebral	1	0.10	38	0.10
Intraventricular			8	0.02
Subarachnoid	2	0.20	10	0.03
Undetermined	2	0.20	94	0.24