

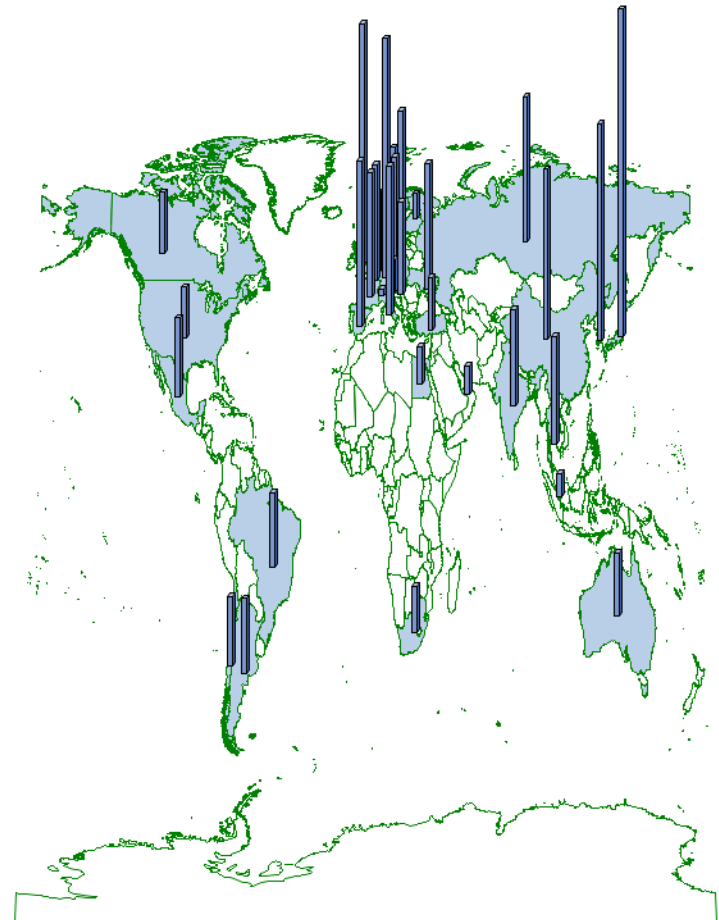
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# Thailand

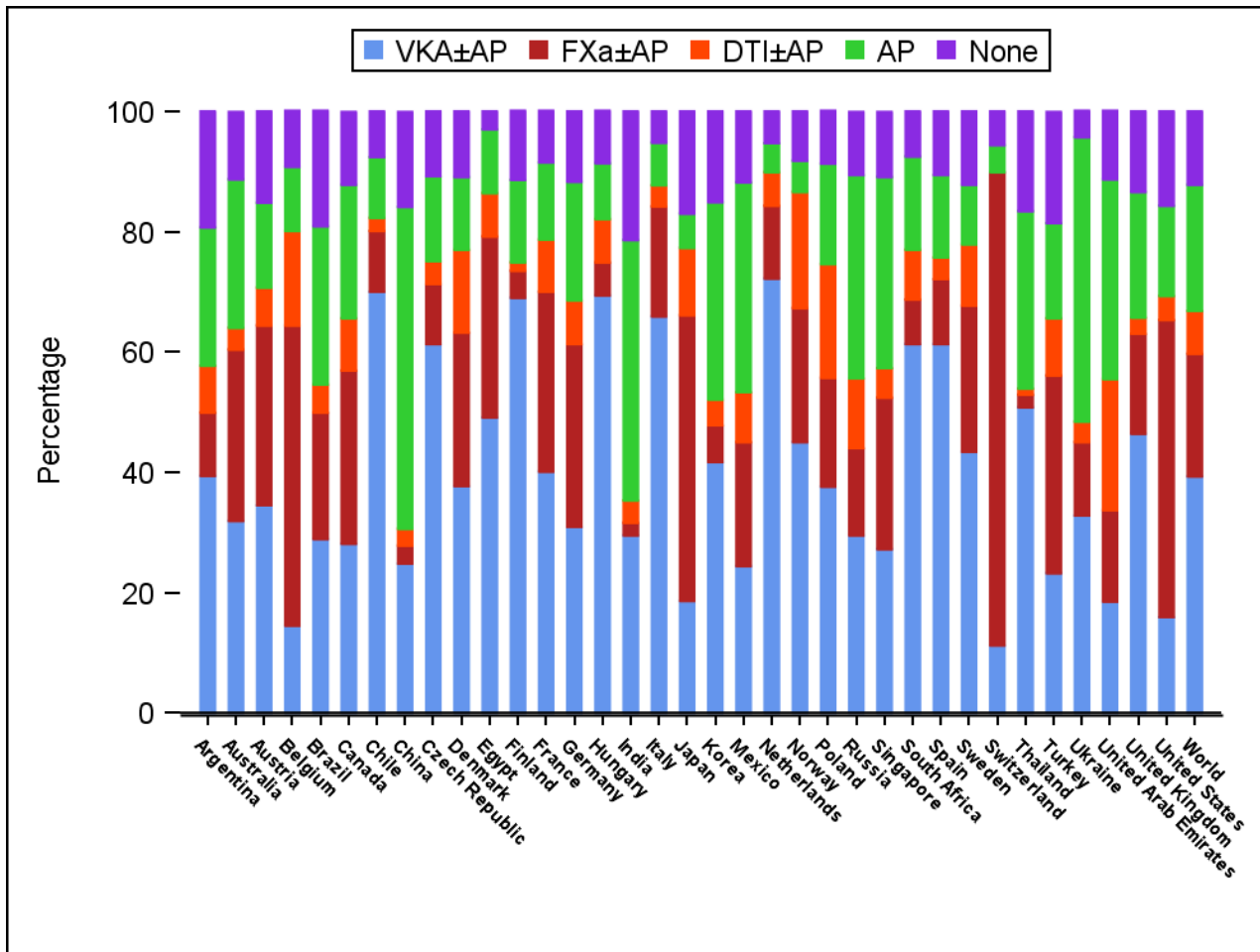
## Treatment at diagnosis by country

### Global enrolment of Prospective patients

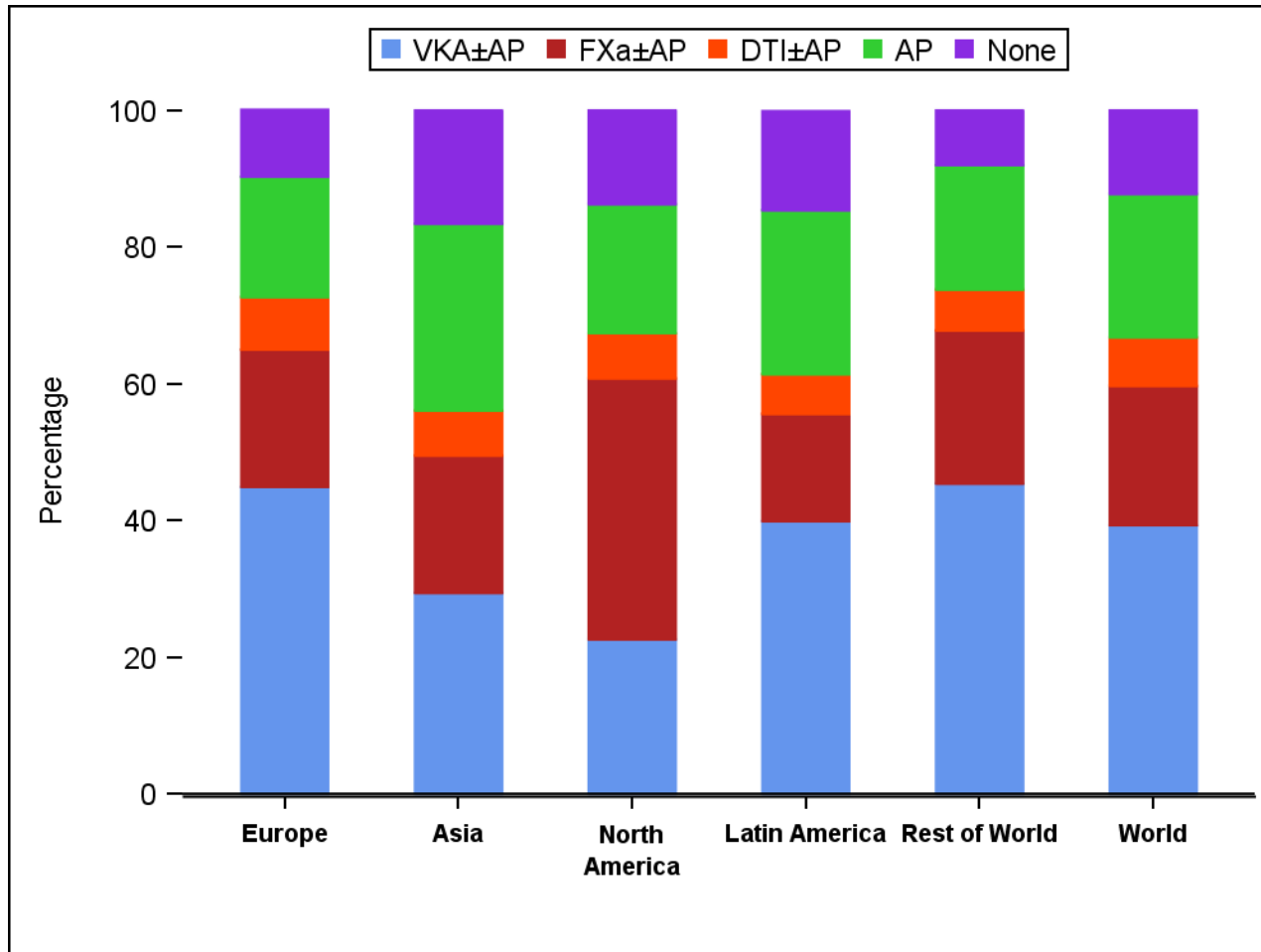
Region	n	%
Europe	29167	56
Asia	14988	28.8
North America	1618	3.1
Latin America	4247	8.2
Rest of World	2061	4
Total	52081	100



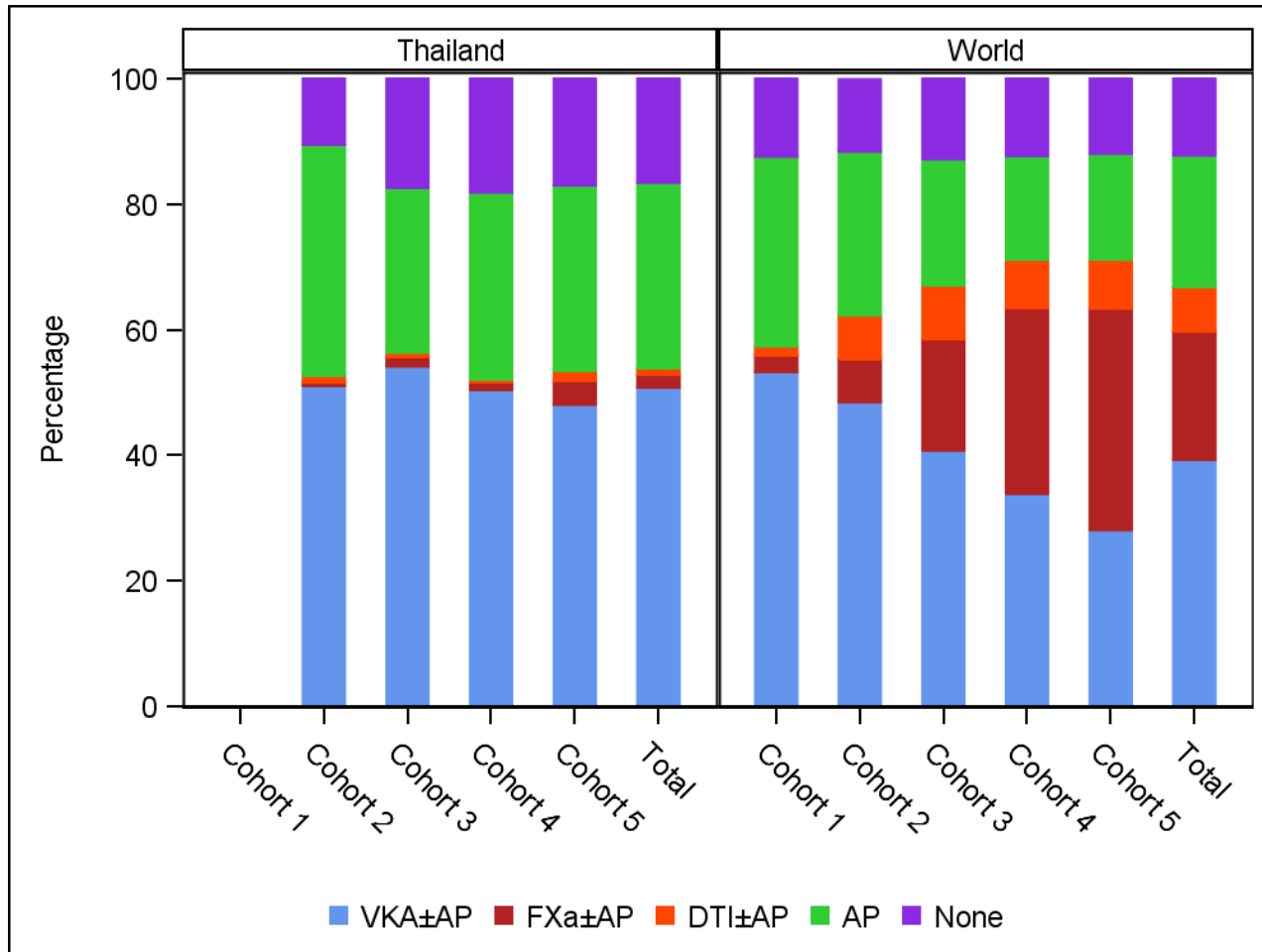
## Treatment at diagnosis by country



## Treatment at diagnosis by region



## Treatment at diagnosis by cohort



## Baseline characteristics

		Thailand N=(1560)	World N=(52081)
Sex	Female, n (%)	767 (49.2)	23015 (44.2)
Age at Diagnosis (Years)	mean (sd)	66.8 (11.7)	69.7 (11.5)
Age Group	<65, n (%)	647 (41.5)	15716 (30.2)
	65-74, n (%)	484 (31.0)	16956 (32.6)
	>=75, n (%)	429 (27.5)	19409 (37.3)
BMI (kg/m <sup>2</sup> )	mean (sd)	25.0 (4.6)	27.8 (5.7)
Pulse (bpm)	mean (sd)	86.2 (21.9)	90.4 (26.7)
Systolic BP (mm Hg)	mean (sd)	131.9 (20.0)	133.5 (19.8)
Diastolic BP (mm Hg)	mean (sd)	77.6 (14.0)	79.7 (12.9)
Congestive heart failure	n (%)	272 (17.4)	10405 (20.0)
Coronary artery disease	n (%)	187 (12.0)	11251 (21.6)
Acute coronary syndrome	n (%)	100 (6.4)	4914 (9.5)
Carotid Occlusive Disease	n (%)	10 (0.6)	1546 (3.0)
Cirrhosis	n (%)	33 (2.2)	296 (0.6)

## Baseline characteristics

		<b>Thailand N=(1560)</b>	<b>World N=(52081)</b>
Diabetes	n (%)	338 (21.7)	11550 (22.2)
History of Bleeding	n (%)	22 (1.4)	1320 (2.5)
Hypercholesterolaemia	n (%)	879 (58.3)	20975 (41.6)
PE or DVT	n (%)	5 (0.3)	1356 (2.6)
Stroke/TIA	n (%)	156 (10.0)	5961 (11.4)
Treatment Sector	In the private sector, n (%)	141 (9.5)	12547 (28.5)
	In the public sector, n (%)	1337 (90.5)	31431 (71.5)

## Baseline characteristics

		<b>Thailand N=(1560)</b>	<b>World N=( 52081)</b>
CHADS2 Score	mean (sd)	1.6 (1.1)	1.9 (1.1)
CHA2DS2-VASc Score	mean (sd)	2.9 (1.5)	3.2 (1.6)
HAS BLED Score	mean (sd)	1.4 (1.0)	1.4 (0.9)



## Baseline characteristics

		<b>Thailand N=(1560)</b>	<b>World N=(52081)</b>
Systemic Embolization	n (%)	15 (1.0)	336 (0.6)
Type of AF Diagnosed	New, n (%)	704 (45.1)	23366 (44.9)
	Paroxysmal, n (%)	451 (28.9)	14313 (27.5)
	Permanent, n (%)	62 (4.0)	6639 (12.7)
Care Setting Speciality at Diagnosis	Persistent, n (%)	343 (22.0)	7761 (14.9)
	Cardiology, n (%)	864 (55.4)	34219 (65.7)
	Geriatrics, n (%)	14 (0.9)	202 (0.4)
	Internal Medicine, n (%)	469 (30.1)	9372 (18.0)
	Neurology, n (%)	53 (3.4)	876 (1.7)
	Primary Care/General Practice, n (%)	160 (10.3)	7410 (14.2)

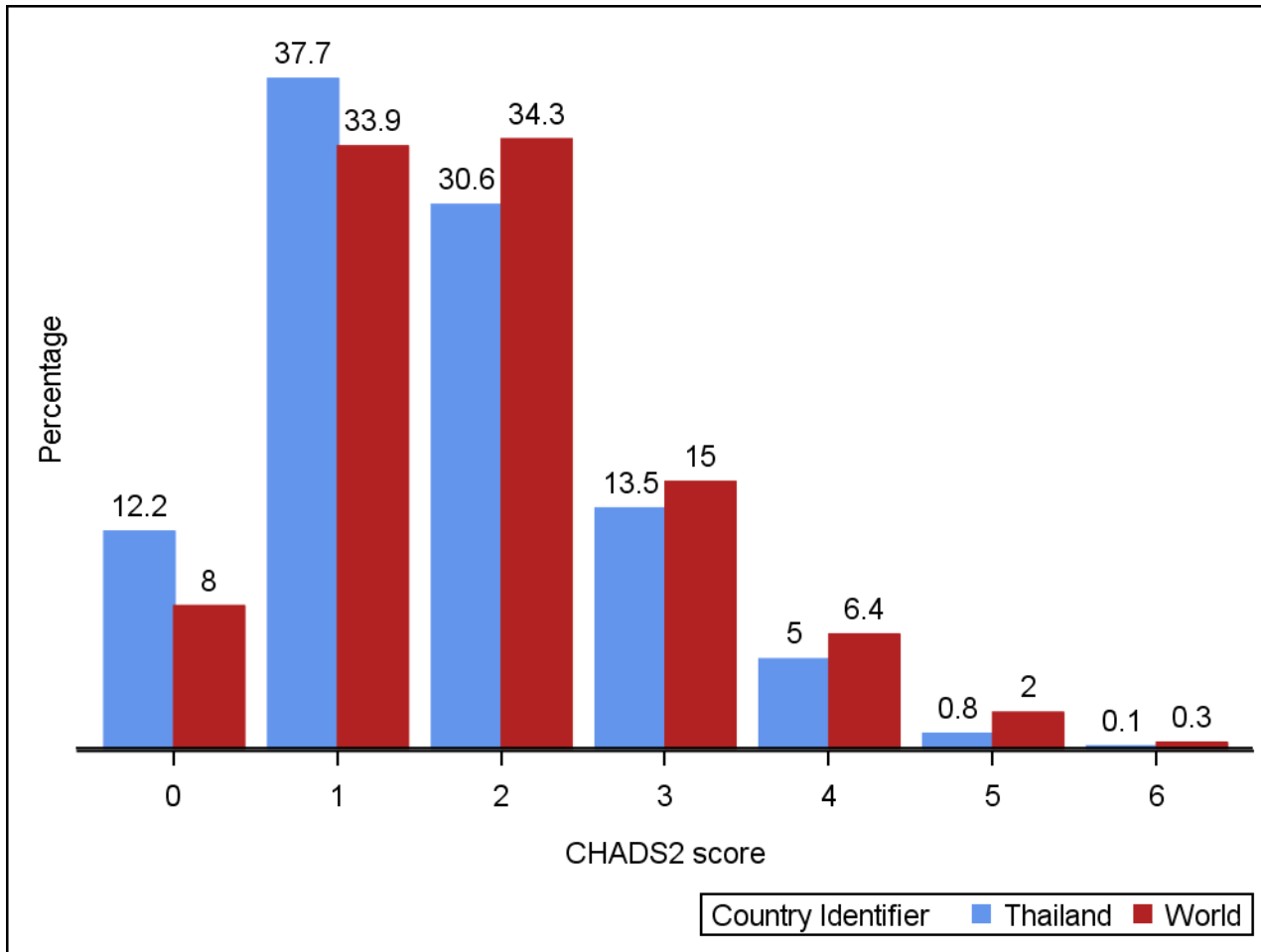
# Main reason anticoagulant not used for patients with CHA<sub>2</sub>DS<sub>2</sub>-VASc $\geq 2$ .

	Cohort 1&2			
	Thailand		World	
	(N=62)	(N=4137)	(N=4137)	(N=4137)
	n	%	n	%
Patients with CHA <sub>2</sub> DS <sub>2</sub> -VASc $\geq 2$ and no AC treatment at diagnosis				
Alcohol abuse	1	(1.6)	20	(0.5)
Already taking anti-platelet drugs for other medical condition	5	(8.1)	228	(5.5)
Patient refusal	6	(9.7)	336	(8.1)
Previous bleeding event	1	(1.6)	63	(1.5)
Taking medication contraindicated or cautioned for use with VKA or AC			19	(0.5)
Other	8	(12.9)	505	(12.2)
Unknown	13	(21.0)	889	(21.5)
Physician's choice	28	(45.2)	2077	(50.2)
Physician's choice - Bleeding risk	5	(8.1)	263	(6.4)
Physician's choice - Concern over patient compliance	3	(4.8)	182	(4.4)
Physician's choice - Guideline recommendation	4	(6.5)	105	(2.5)
Physician's choice - Fall risk	1	(1.6)	197	(4.8)
Physician's choice - Low risk of stroke	9	(14.5)	326	(7.9)
Physician's choice - Other	6	(9.7)	1004	(24.3)
Total	62	(100.0)	4137	(100.0)

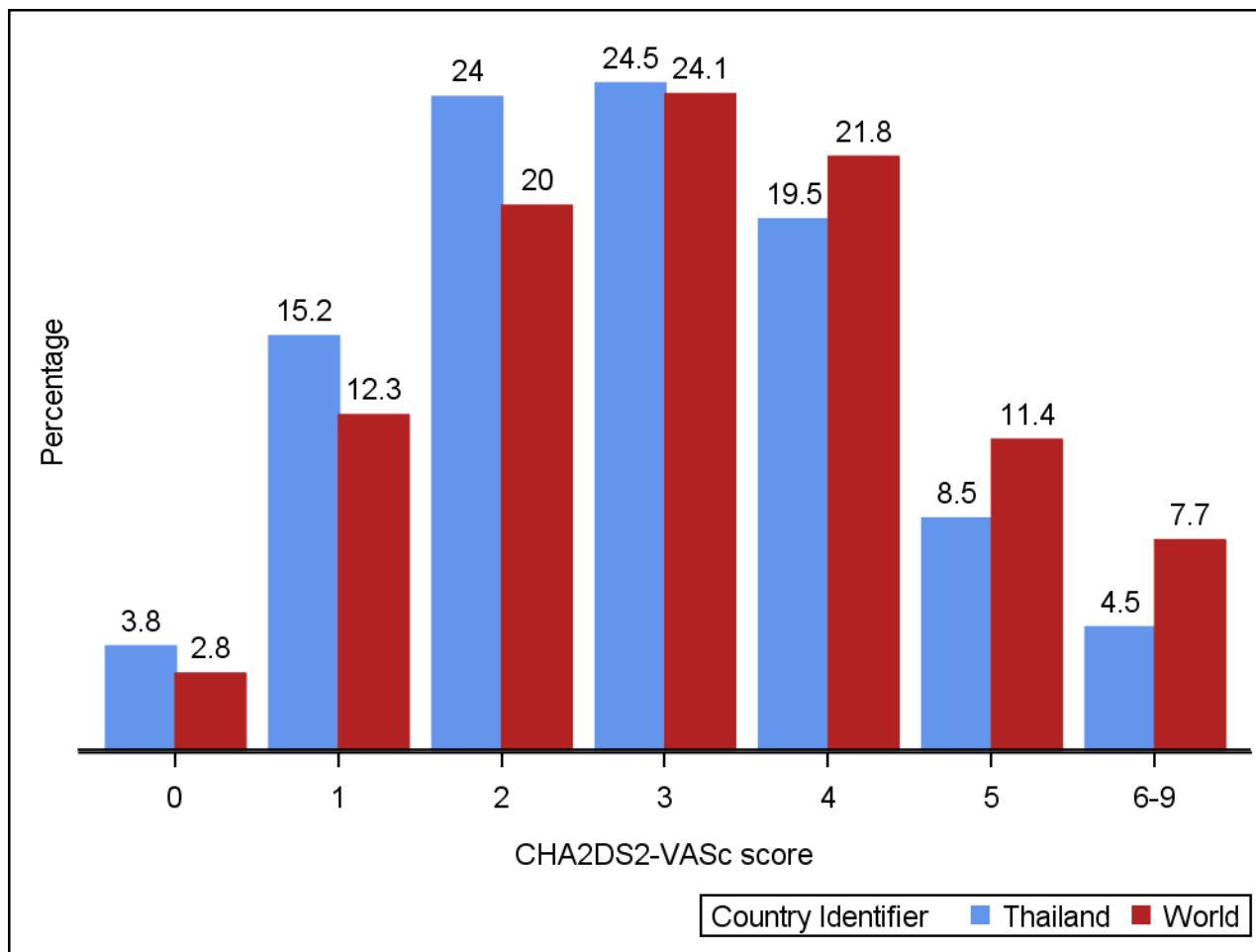
# Main reason anticoagulant not used for patients with CHA<sub>2</sub>DS<sub>2</sub>-VASc ≥2.

	Cohort 3&4&5			
	Thailand		World	
	(N=431)		(N=6117)	
	n	%	n	%
Patients with CHA <sub>2</sub> DS <sub>2</sub> -VASc ≥2 and no AC treatment at diagnosis				
Alcohol abuse			32	(0.5)
Already taking anti-platelet drugs for other medical condition	21	(4.9)	422	(6.9)
Patient refusal	40	(9.3)	645	(10.5)
Previous bleeding event	9	(2.1)	151	(2.5)
Taking medication contraindicated or cautioned for use with VKA or AC	2	(0.5)	63	(1.0)
Other	33	(7.7)	1326	(21.7)
Unknown	107	(24.8)	1597	(26.1)
Physician's choice	219	(50.8)	1881	(30.8)
Physician's choice - Bleeding risk	93	(21.6)	611	(10.0)
Physician's choice - Concern over patient compliance	11	(2.6)	248	(4.1)
Physician's choice - Guideline recommendation	9	(2.1)	189	(3.1)
Physician's choice - Fall risk	46	(10.7)	205	(3.4)
Physician's choice - Low risk of stroke	60	(13.9)	628	(10.3)
Total	431	(100.0)	6117	(100.0)

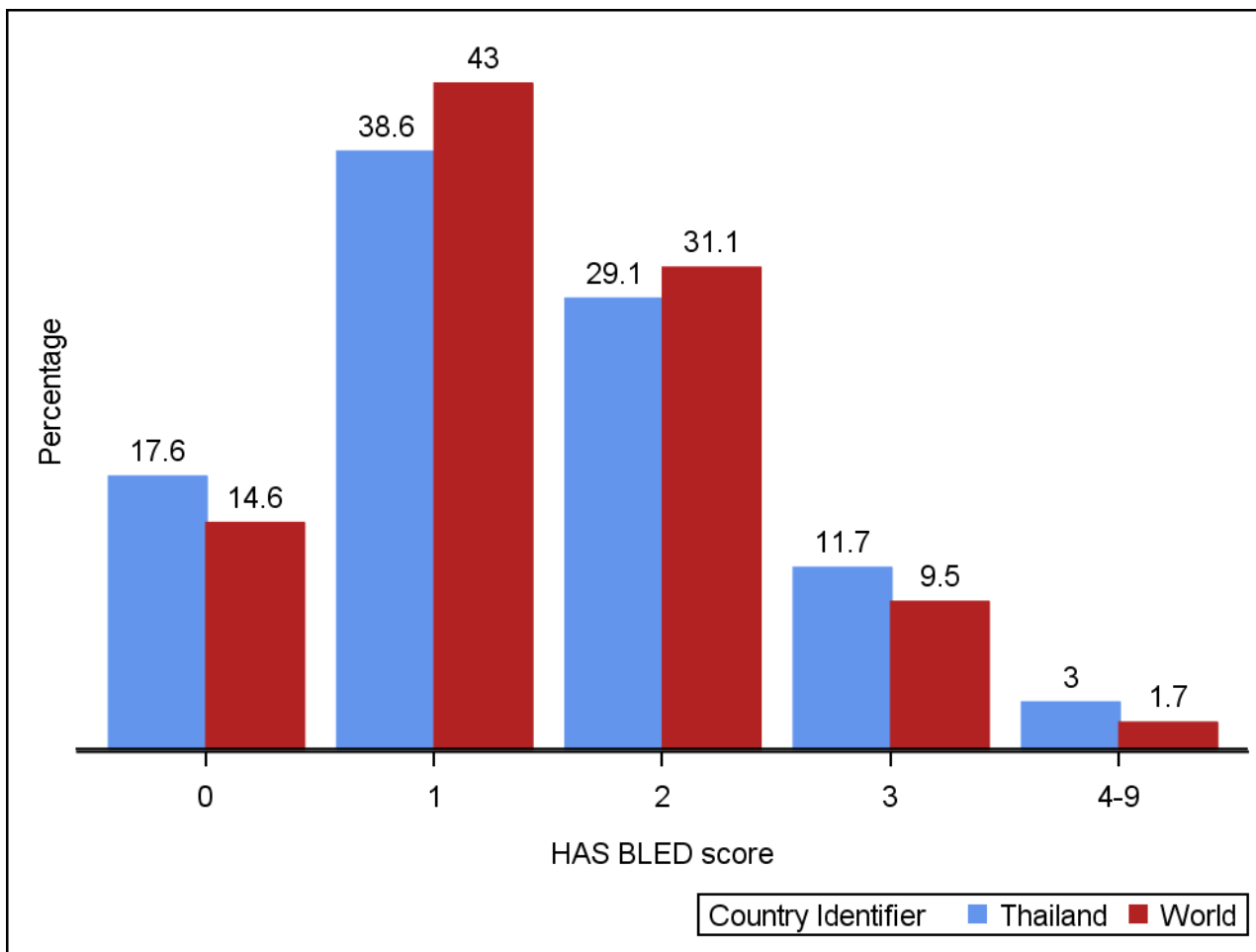
## Stroke risk profile: CHADS<sub>2</sub>



## 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 - Thailand

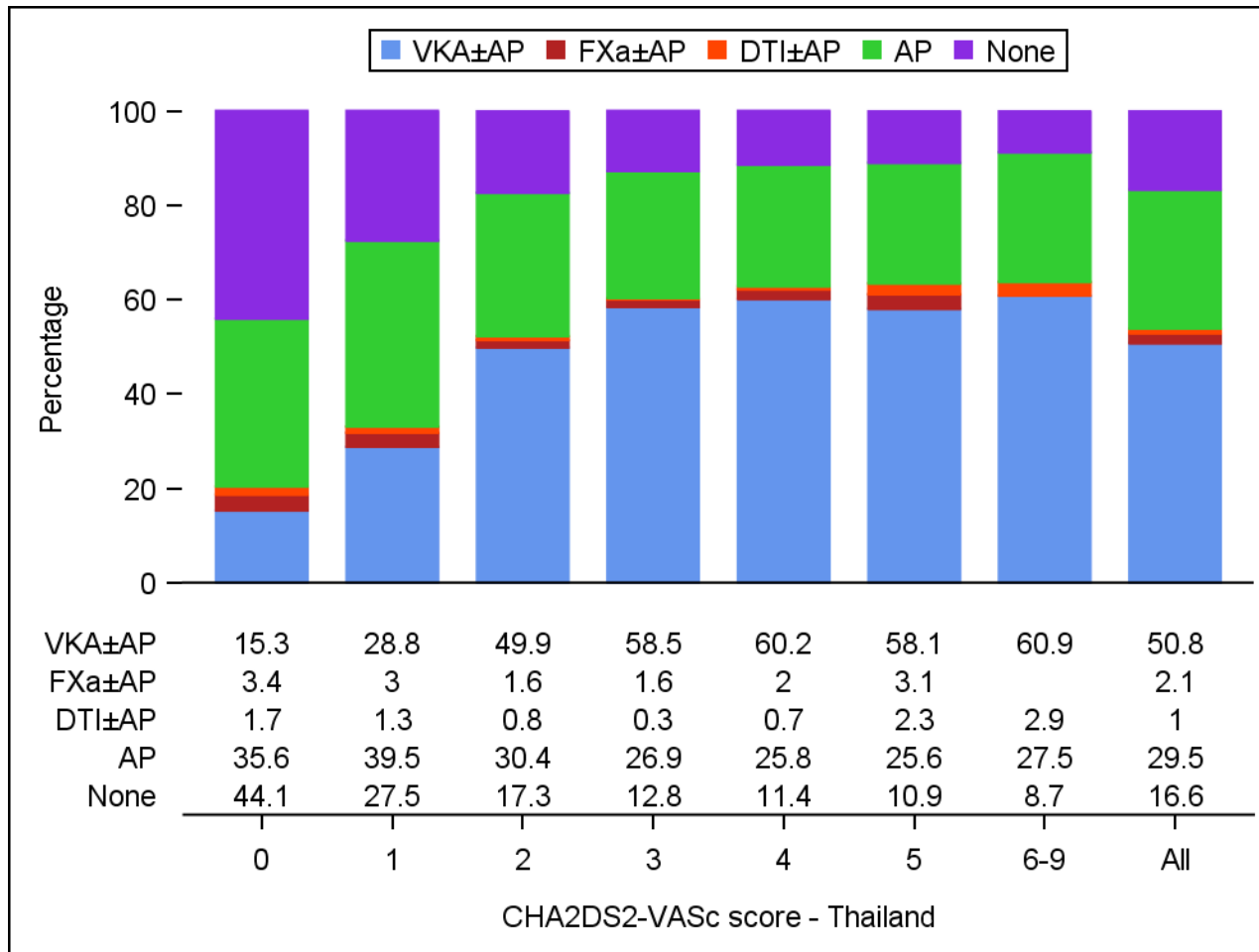
CHA <sub>2</sub> DS <sub>2</sub> -VASc		VKA±AP	FXa±AP	AP	None	DTI±AP	Unknown	Total
		n	n	n	n	n	n	n
<b>Thailand</b>	<b>Unknown</b>	<b>15</b>	<b>1</b>	<b>5</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>24</b>
	<b>0</b>	<b>9</b>	<b>2</b>	<b>21</b>	<b>26</b>	<b>1</b>	<b>0</b>	<b>59</b>
	<b>1</b>	<b>67</b>	<b>7</b>	<b>92</b>	<b>64</b>	<b>3</b>	<b>1</b>	<b>234</b>
	<b>2</b>	<b>184</b>	<b>6</b>	<b>112</b>	<b>64</b>	<b>3</b>	<b>0</b>	<b>369</b>
	<b>3</b>	<b>220</b>	<b>6</b>	<b>101</b>	<b>48</b>	<b>1</b>	<b>0</b>	<b>376</b>
	<b>4</b>	<b>180</b>	<b>6</b>	<b>77</b>	<b>34</b>	<b>2</b>	<b>0</b>	<b>299</b>
	<b>5</b>	<b>75</b>	<b>4</b>	<b>33</b>	<b>14</b>	<b>3</b>	<b>1</b>	<b>130</b>
	<b>6-9</b>	<b>42</b>	<b>0</b>	<b>19</b>	<b>6</b>	<b>2</b>	<b>0</b>	<b>69</b>

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

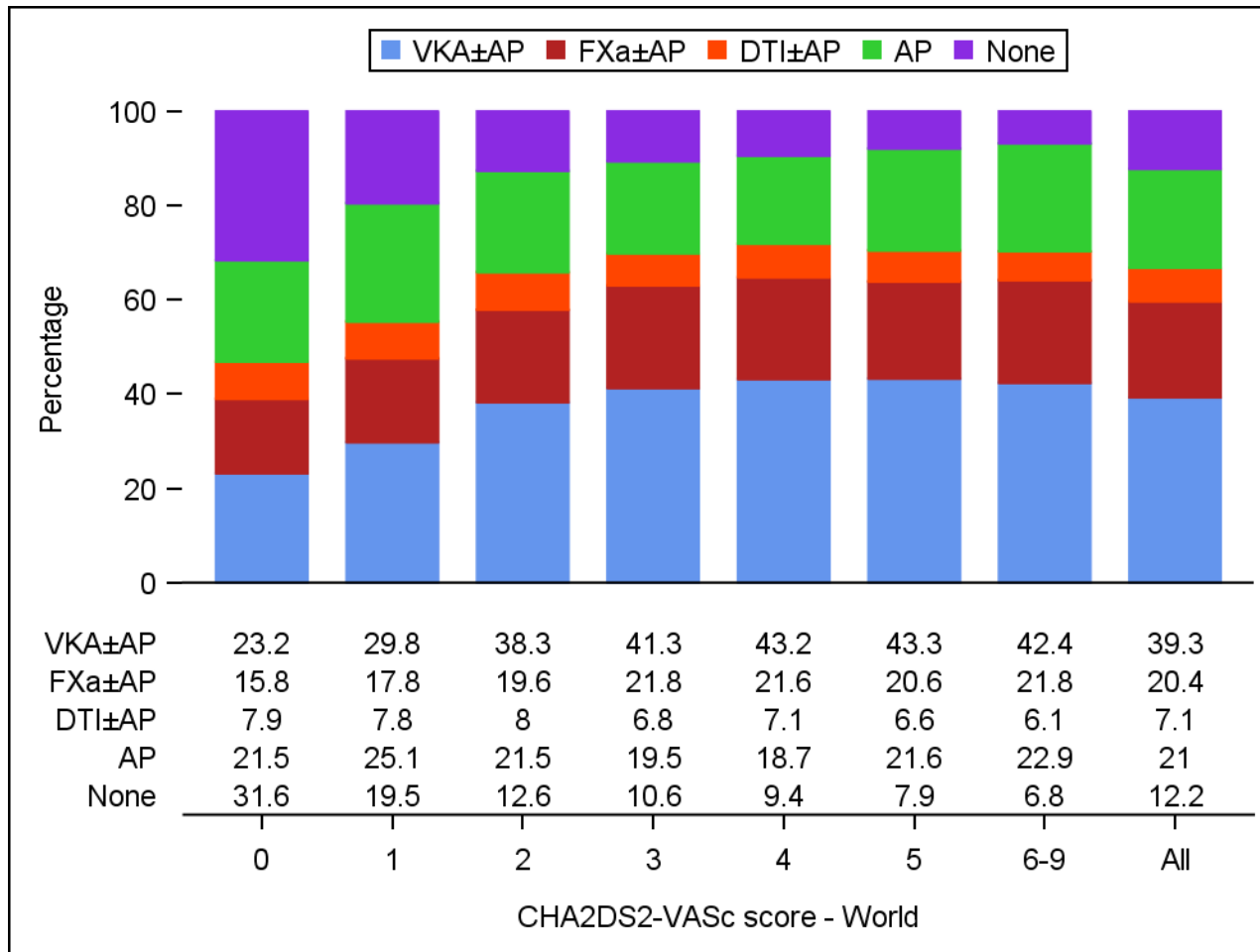
CHA <sub>2</sub> DS <sub>2</sub> -VASc		VKA±AP	FXa±AP	DTI±AP	AP	None	Unknown	Total
		n	n	n	n	n	n	n
<b>World</b>	<b>Unknown</b>	<b>461</b>	<b>227</b>	<b>62</b>	<b>286</b>	<b>330</b>	<b>14</b>	<b>1380</b>
	<b>0</b>	<b>325</b>	<b>221</b>	<b>111</b>	<b>302</b>	<b>443</b>	<b>16</b>	<b>1418</b>
	<b>1</b>	<b>1830</b>	<b>1097</b>	<b>479</b>	<b>1545</b>	<b>1196</b>	<b>66</b>	<b>6213</b>
	<b>2</b>	<b>3835</b>	<b>1960</b>	<b>806</b>	<b>2154</b>	<b>1261</b>	<b>125</b>	<b>10141</b>
	<b>3</b>	<b>4969</b>	<b>2625</b>	<b>817</b>	<b>2345</b>	<b>1275</b>	<b>164</b>	<b>12195</b>
	<b>4</b>	<b>4711</b>	<b>2352</b>	<b>772</b>	<b>2043</b>	<b>1028</b>	<b>168</b>	<b>11074</b>
	<b>5</b>	<b>2458</b>	<b>1169</b>	<b>375</b>	<b>1224</b>	<b>449</b>	<b>98</b>	<b>5773</b>
	<b>6-9</b>	<b>1616</b>	<b>831</b>	<b>234</b>	<b>872</b>	<b>261</b>	<b>73</b>	<b>3887</b>



## Treatment at diagnosis



## Treatment at diagnosis



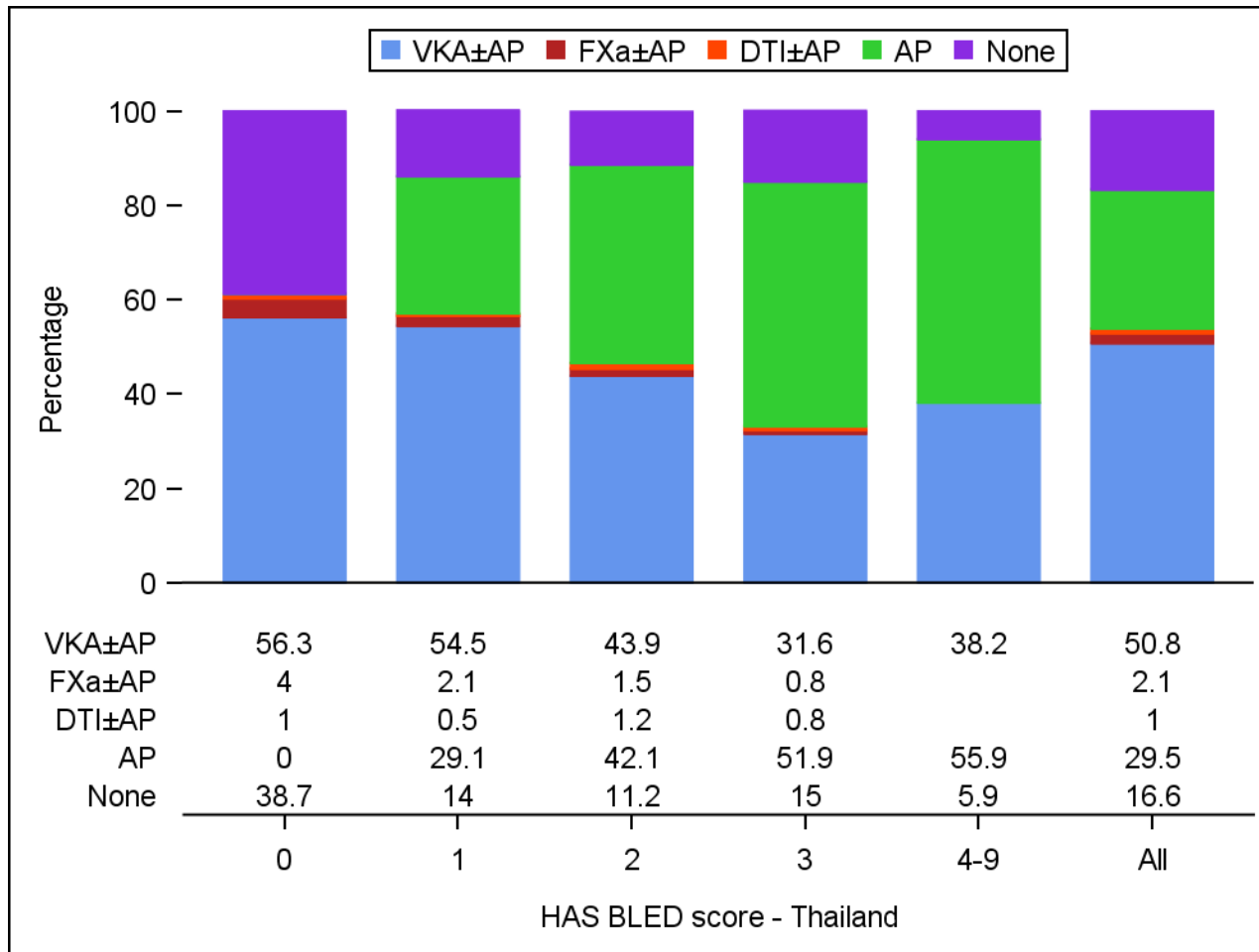
## Treatment at diagnosis by HAS BLED score - Thailand

HASBLED		VKA±AP	FXa±AP	DTI±AP	AP	None	Unknown	Total	
		n	n	n	n	n	n	N	n
Thailand	Unknown	242	9	6	106	62	0	425	425
	0	112	8	2	0	77	1	200	200
	1	238	9	2	127	61	1	438	438
	2	145	5	4	139	37	0	330	330
	3	42	1	1	69	20	0	133	133
	4-9	13	0	0	19	2	0	34	34

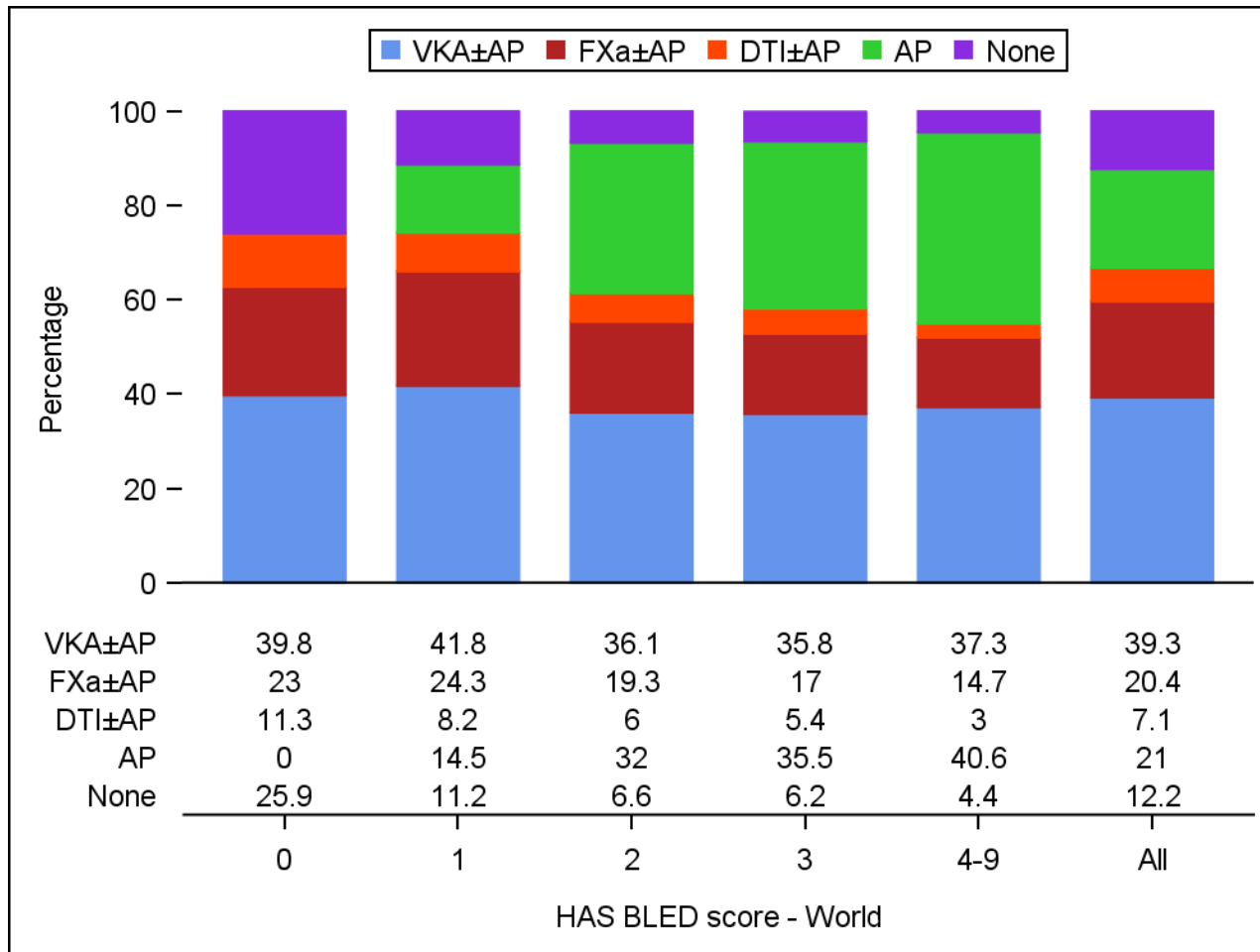
## Treatment at diagnosis by HAS BLED score - World

HASBLED		VKA±AP	FXa±AP	DTI±AP	AP	None	Unknown	Total
		n	n	n	n	n	n	n
<b>World</b>	<b>Unknown</b>	<b>5750</b>	<b>2456</b>	<b>843</b>	<b>3271</b>	<b>2060</b>	<b>147</b>	<b>14527</b>
	<b>0</b>	<b>2144</b>	<b>1242</b>	<b>611</b>	<b>0</b>	<b>1394</b>	<b>96</b>	<b>5487</b>
	<b>1</b>	<b>6650</b>	<b>3866</b>	<b>1303</b>	<b>2302</b>	<b>1779</b>	<b>254</b>	<b>16154</b>
	<b>2</b>	<b>4165</b>	<b>2225</b>	<b>689</b>	<b>3689</b>	<b>763</b>	<b>163</b>	<b>11694</b>
	<b>3</b>	<b>1258</b>	<b>599</b>	<b>191</b>	<b>1250</b>	<b>219</b>	<b>53</b>	<b>3570</b>
	<b>4-9</b>	<b>238</b>	<b>94</b>	<b>19</b>	<b>259</b>	<b>28</b>	<b>11</b>	<b>649</b>

## Treatment at diagnosis



## Treatment at diagnosis



## INR values and time in therapeutic range

Variable	Statistics	Thailand (N = 792) n %	World (N = 20205) n %
INR value, n(%)	n (missing)	2675 (341)	157134 (8319)
	<2	1418 (53.0)	50514 (32.1)
	2-3	895 (33.5)	81056 (51.6)
	>3	362 (13.5)	25564 (16.3)
INR value	n (missing)	2675 (341)	157134 (8319)
	Mean (SD)	2.2 (1.2)	2.4 (0.9)
	Median (IQR)	1.9 (1.4 to 2.5)	2.3 (1.8 to 2.8)
	Min to Max	0.8 to 15.4	0.8 to 20.0
TTR, n(%)	n (missing)	400 (392)	11485 (8720)
	<65	302 (75.5)	6734 (58.6)
	>=65	98 (24.5)	4751 (41.4)
TTR	n (missing)	400 (392)	11485 (8720)
	Mean (SD)	40.5 (30.3)	55.2 (27.3)
	Median (IQR)	39.3 (12.2 to 64.1)	59.0 (37.0 to 76.1)
	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)

	Thailand		World	
	Events	Rate (95% CI)	Events	Rate (95% CI)
Death	50	3.44 (2.61 to 4.54)	2103	4.38 (4.20 to 4.57)
Cardiovascular Death	4	0.28 (0.10 to 0.73)	789	1.64 (1.53 to 1.76)
Non-cardiovascular death	36	2.48 (1.79 to 3.43)	771	1.61 (1.50 to 1.72)
Undetermined Cause	10	0.69 (0.37 to 1.28)	543	1.13 (1.04 to 1.23)
Stroke/SE	17	1.18 (0.73 to 1.89)	650	1.36 (1.26 to 1.47)
Major Bleeding	14	0.97 (0.57 to 1.63)	407	0.85 (0.77 to 0.94)
Acute coronary syndrome	3	0.21 (0.07 to 0.64)	378	0.79 (0.71 to 0.87)
Congestive hearth failure	9	0.62 (0.32 to 1.19)	1052	2.22 (2.09 to 2.35)



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

	Thailand		World	
	n	%	n	%
Cardiovascular causes				
Congestive heart failure	2	50.0	262	33.2
Sudden or unwitnessed death	1	25.0	127	16.1
Myocardial infarction	0		89	11.3
Non-haemorrhagic stroke (Ischemic Stroke)	0		86	10.9
Non Cardiovascular causes				
Malignancy	6	16.7	233	30.2
Respiratory failure	4	11.1	142	18.4
Infection	7	19.4	81	10.5
Sepsis	8	22.2	74	9.6

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

	Thailand		World	
	n	%	n	%
Stroke (not including systemic embolism)	17	1.09	585	1.12
Primary Ischemic	13	0.83	406	0.78
of which secondary hemorrhagic ischemic	2	0.13	22	0.04
Primary intracerebral hemorrhage	4	0.26	71	0.14
Intracerebral	3	0.19	44	0.08
Intraventricular			9	0.02
Subarachnoid	2	0.13	13	0.02
Undetermined			108	0.21

## Severity of bleeding during the first year of follow-up

Outcome	Thailand		World	
	n	%	n	%
Major Bleed	14	0.03	407	0.78
Non-Major Clinically Relevant	10	0.02	645	1.24
Minor	25	0.05	1167	2.24
Unknown	1	0.00	136	0.26