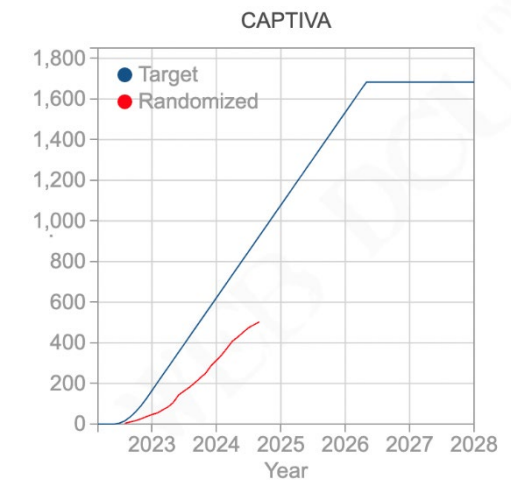
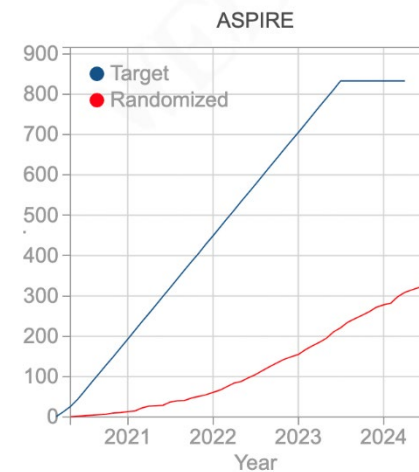
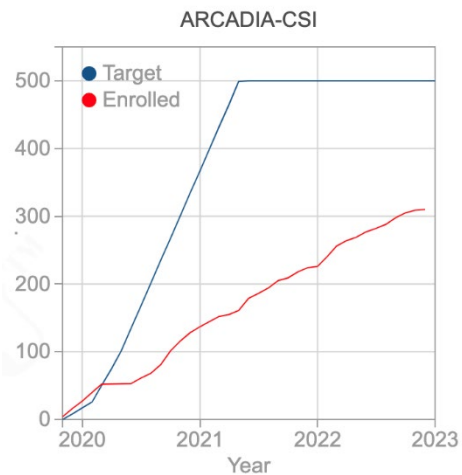
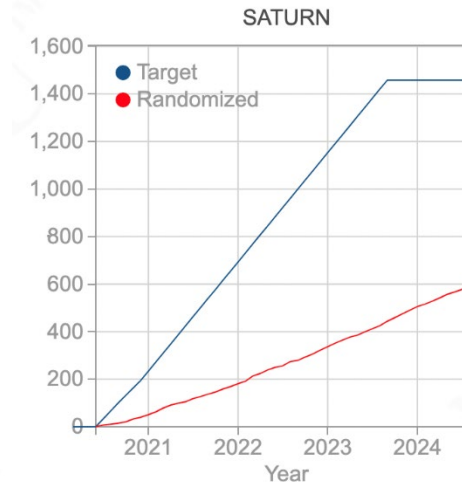
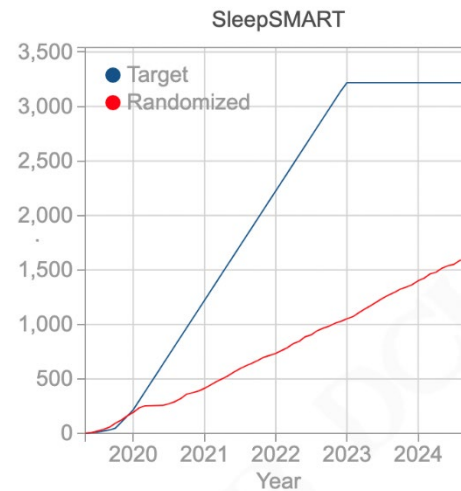
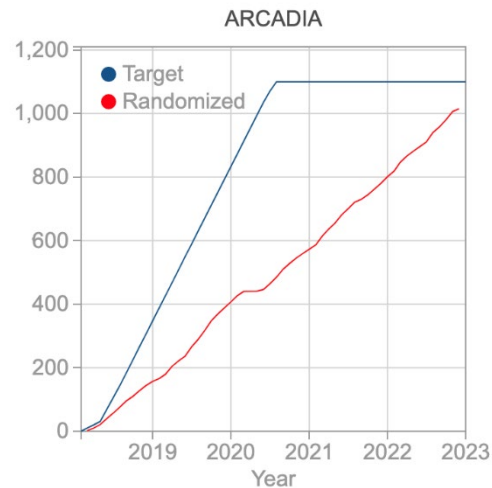


# Themes for priority setting conferences

## **Prevention Group**

Hooman Kamel on behalf of the Prevention Working Group

# StrokeNet experience with prevention trials



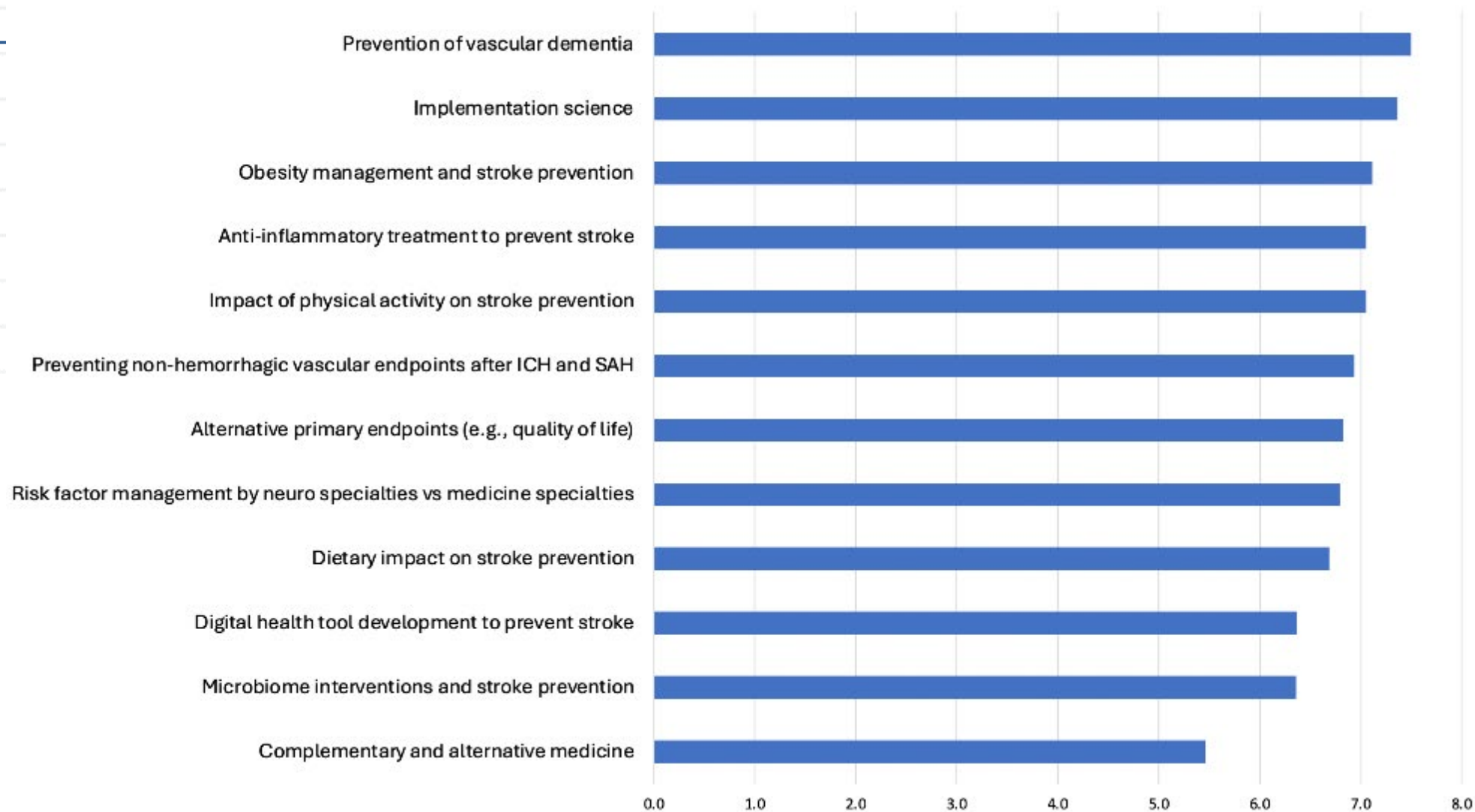
# Survey of StrokeNet community

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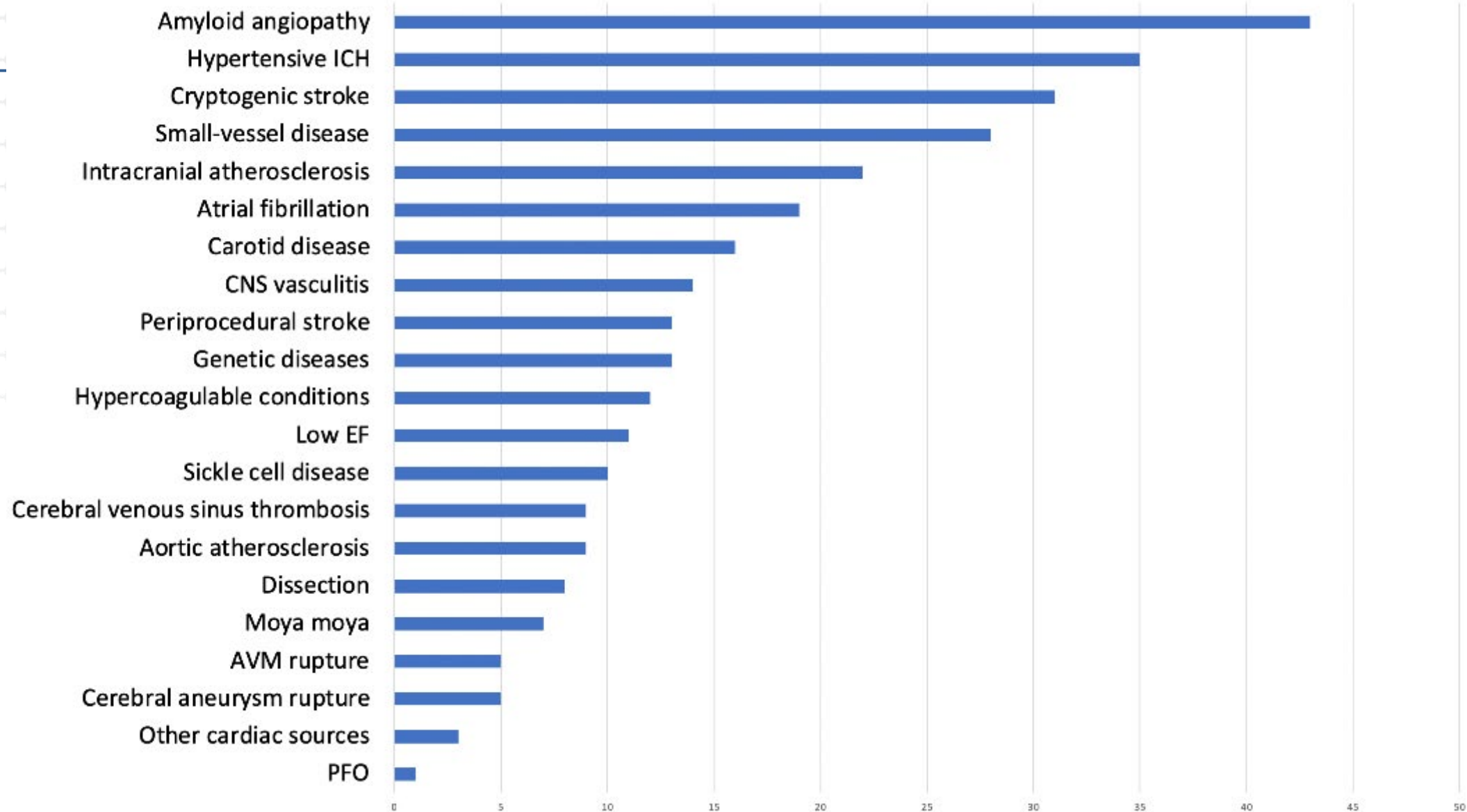
Summer 2023

~100 respondents

## Average Score



## Total votes



# Themes emerging during PWG discussion

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1. Cerebral small-vessel disease (CAA, hypertensive ICH, and small-vessel disease)
2. Broadened focus on fundamental vascular risk factors, most notably obesity/microbiome/diet and cardiometabolic factors such as aldosteronism



# Themes emerging during PWG discussion

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1. Cerebral small-vessel disease (CAA, hypertensive ICH, and small-vessel disease)

 Ties in with other important topics of AD immunotherapies and post-stroke cognitive impairment and dementia

# Themes emerging during PWG discussion

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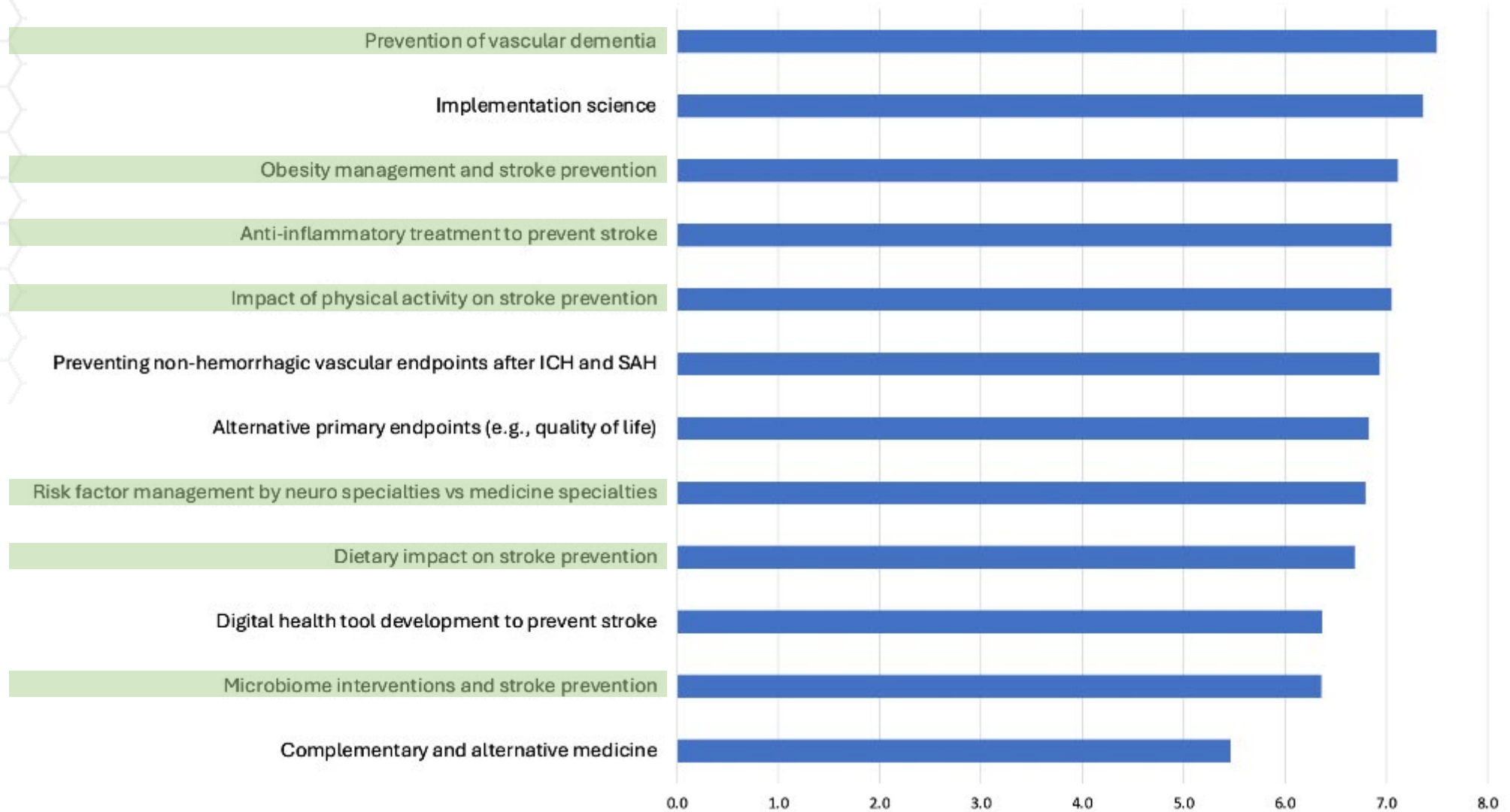
2. Broadened focus on fundamental vascular risk factors, most notably obesity/microbiome/diet and cardiometabolic factors such as aldosteronism



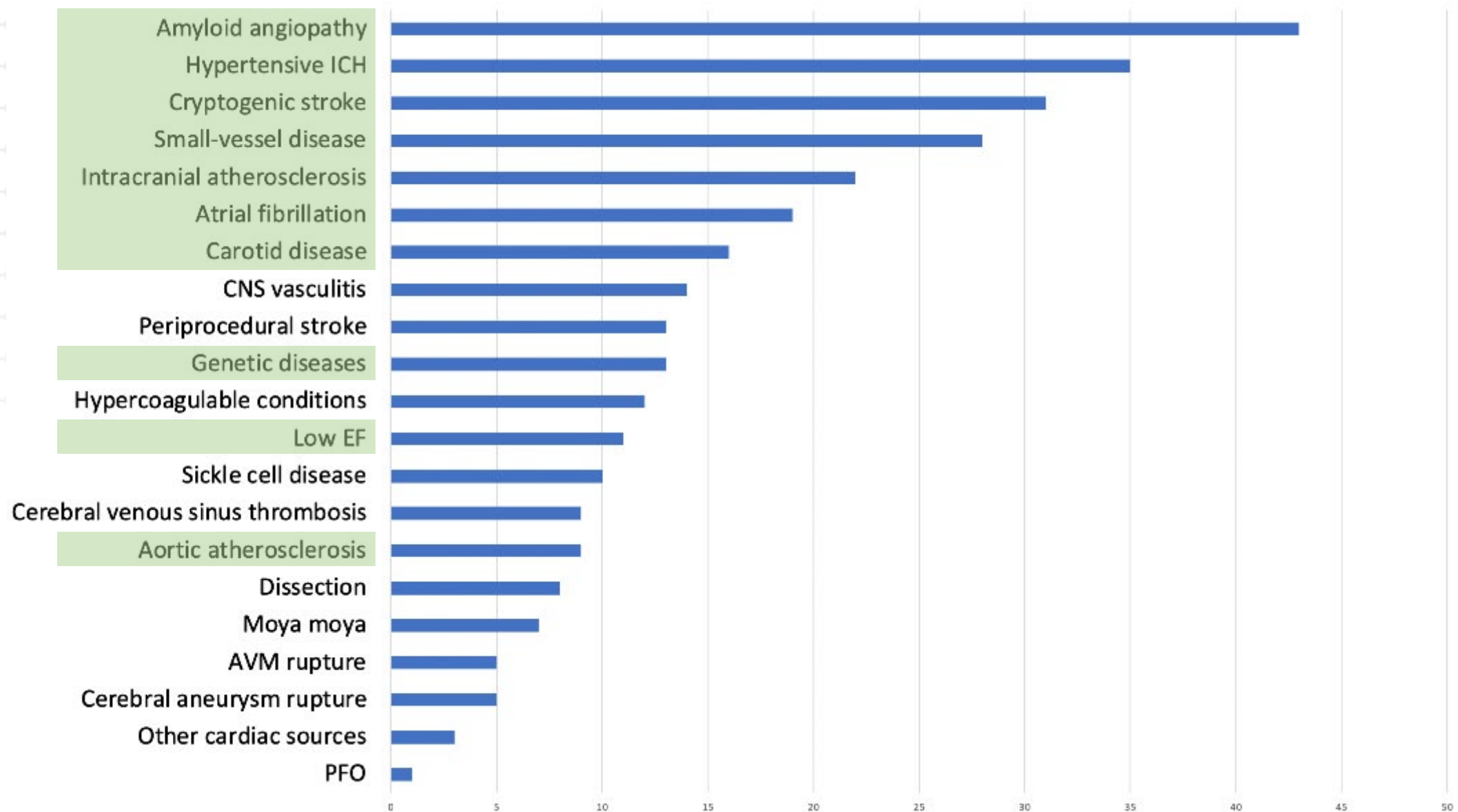
Ties in with traditional risk factors (AF, atherosclerosis), cryptogenic stroke, novel obesity and other CV drugs, neuro vs medicine management of risk factors, racial and ethnic disparities and SDOH



## Average Score



## Total votes



# Challenges in Priority Area #1

Low rates of recurrent stroke after small-vessel occlusion  
Broader outcomes that are relevant, feasible, acceptable?  
Combined populations (e.g., deep ICH + lacunar stroke)?

	Higher-target group (n=1519)		Lower-target group (n=1501)	
	Number of patients	Rate (% per patient-year)	Number of patients	Rate (% per patient-year)
Stroke				
All stroke	152	2.77%	125	2.25%

Blood-pressure targets in patients with recent lacunar stroke:  
the SPS3 randomised trial

*The SPS3 Study Group\**

# Challenges in Priority Area #2

What will shift guidelines? Do we always need stroke-specific trials?

## 4.4. Glucose

### Recommendations for Glucose

Referenced studies that support recommendations are summarized in online Data Supplements 14 and 15.

COR	LOE	Recommendations
1	B-R	2. In patients with an ischemic stroke or TIA who also have diabetes, treatment of diabetes should include glucose-lowering agents with proven cardiovascular benefit to reduce the risk for future major adverse cardiovascular events (ie, stroke, MI, cardiovascular death). <sup>231–236</sup>

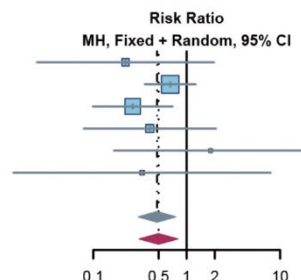
# Challenges in Priority Area #2

What will shift guidelines? Do we always need stroke-specific trials?

## C Stroke

Study	colchicine		control		Weight	Weight	Risk Ratio MH, Fixed + Random, 95% CI
	Events	Total	Events	Total	(fixed)	(random)	
Nidorf SM, et al.–2013	1	282	4	250	7.7%	4.8%	0.22 [0.02, 1.97]
Stefan M Nidorf–2020	16	2762	24	2760	43.9%	57.1%	0.67 [0.35, 1.25]
Jean–Claude Tardif–2019	5	2366	19	2379	34.6%	23.4%	0.26 [0.10, 0.71]
Tong DC–2020	2	396	5	399	9.1%	8.5%	0.40 [0.08, 2.07]
Mewton N–2019	2	101	1	91	1.9%	4.0%	1.80 [0.17, 19.54]
Nina C Raju–2012	0	40	1	40	2.7%	2.3%	0.33 [0.01, 7.95]
<b>Total (fixed effect, 95% CI)</b>		<b>5947</b>		<b>5919</b>	<b>100.0%</b>	<b>--</b>	<b>0.48 [0.30, 0.76]</b>
<b>Total (random effects, 95% CI)</b>					<b>--</b>	<b>100.0%</b>	<b>0.50 [0.31, 0.80]</b>

Heterogeneity:  $\tau^2 = 0$ ;  $\chi^2 = 4.20$ ,  $df = 5$  ( $P = 0.52$ );  $I^2 = 0\%$   
Test for overall effect (fixed effect):  $Z = -3.09$  ( $P < 0.01$ )  
Test for overall effect (random effects):  $Z = -2.85$  ( $P < 0.01$ )



Colchicine and coronary heart disease risks: A meta-analysis of randomized controlled clinical trials

Zijun Ma<sup>1</sup>, Jun Chen<sup>1\*</sup>, Kaiqin Jin<sup>2</sup> and Xin Chen<sup>1\*</sup>

Colchicine and usual care (n=1569)		Usual care alone (n=1575)		Hazard ratio (95% CI)
n (%)	Events per 100 person-years	n (%)	Events per 100 person-years	
153 (9.8%)	3.33	185 (11.7%)	3.92	0.84 (0.68–1.05)

Long-term colchicine for the prevention of vascular recurrent events in non-cardioembolic stroke (CONVINCE): a randomised controlled trial

Peter Kelly, Robin Lemmens, Christian Weimar, Cathal Walsh, Francisco Purroy, Mark Barber, Ronan Collins, Simon Cronin, Anna Czlonkowska, Philippe Desfontaines, Adinda De Pauw, Nicholas Richard Evans, Urs Fischer, Catarina Fonseca, John Forbes, Michael D Hill, Darius Jatuzis, Janika Körv, Peter Kraft, Christina Kruuse, Catherine Lynch, Dominick McCabe, Robert Mikulik, Sean Murphy, Paul Nederkoorn, Martin O'Donnell, Peter Sandercock, Bernadette Schroeder, Gek Shim, Katrina Tobin, David J Williams, Christopher Price



# Challenges in Priority Area #2

## Guidelines vs actual practice

### 4.4. Glucose

#### Recommendations for Glucose

Referenced studies that support recommendations are summarized in online [Data Supplements 14 and 15](#).

COR	LOE	Recommendations
1	B-R	2. In patients with an ischemic stroke or TIA who also have diabetes, treatment of diabetes should include glucose-lowering agents with proven cardiovascular benefit to reduce the risk for future major adverse cardiovascular events (ie, stroke, MI, cardiovascular death). <sup>231–236</sup>



# Challenges in Priority Area #2

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Guidelines vs actual practice

Across 24 U.S. healthcare systems:

398,177 patients with diabetes and ischemic stroke

80,128 (**20%**) receiving GLP-1 agonists or SGLT2 inhibitors



TriNetX

Studies ▾

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My Studies / GLP after stroke / Query Builder

# Opportunities

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More holistic preventive care

More integration with other specialties