

Simulation Training for the Endoscopic Management of UGI Bleeding: A Nationwide Survey of Rural Surgeons' Needs and Preferences Analysis

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Disclosures

I have no relevant financial disclosures.

Funding Source for My Research Project

2019 ACS Surgical Simulation Summit
 MARCH 14-16, 2019 | Swissôtel, Chicago, IL

	Potential Funding Sources	Check all that apply
1	Sim center operational funds	X
2	Intramural grant	
3	Clinical Departmental funds	X
4	Hospital operations	
5	School of Medicine	
6	Hospital QI/PI Process	
7	Philanthropy	
8	Insurance Company	
9	Industry	
10	NIH/AHRQ or other governmental funding source	
11	DoD	
12	Not for Profit or Professional Society	
Other		



- Rural surgeons “front line”
- Endoscopy for UGIB decreases mortality 46%
- Needs analysis identified need for further training

Aim

- To understand rural surgeons needs and preferences for simulation training on the endoscopic management of NVUGIB

Survey Development

Literature review / subject matter experts
Survey: Demographics, Endoscopy
Experience, Needs and Preference Analysis

Distribution

Online survey link
ACS Council of Rural Surgery Email ListServ
and Discussion Board

Analysis
n=66

Summarization of data
Statistical analysis
Biostatisticians

Results: Demographics

Surgeon		
Age	<36	0 (0%)
	36-45	9 (18%)
	46-55	15 (29%)
	56-65	22 (43%)
	>65	5 (10%)
Gender	Male	40 (73%)
	Female	14 (25%)
	Other	1 (2%)
Residency Type	Academic	18 (33%)
	Community Based	37 (67%)
Region	Midwest	18 (34%)
	Northeast	5 (9%)
	South	12 (23%)
	West	18 (34%)

Practice		
Yrs in Practice	Mean	22.9
	Range	6-39
Sole Member	Yes	20 (36%)
	No	36 (64%)
Employed by Hospital	Yes	37 (67%)
	No	18 (33%)
Interventional Radiology	Yes	7 (12%)
	No	49 (88%)
Gastroenterology	Yes	9 (16%)
	No	47 (84%)
Advanced GI (ERCP/EUS)	Yes	5 (9%)
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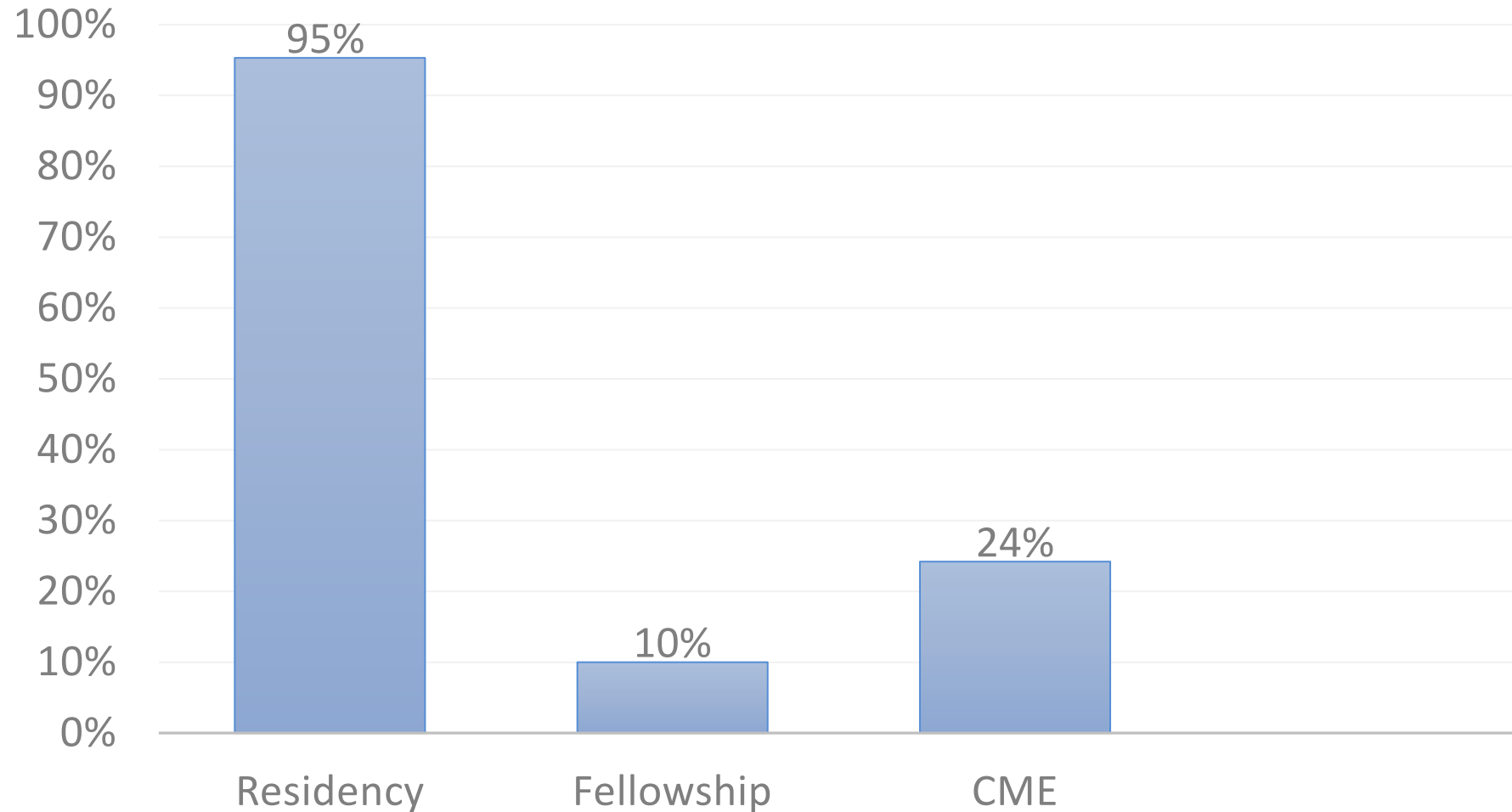
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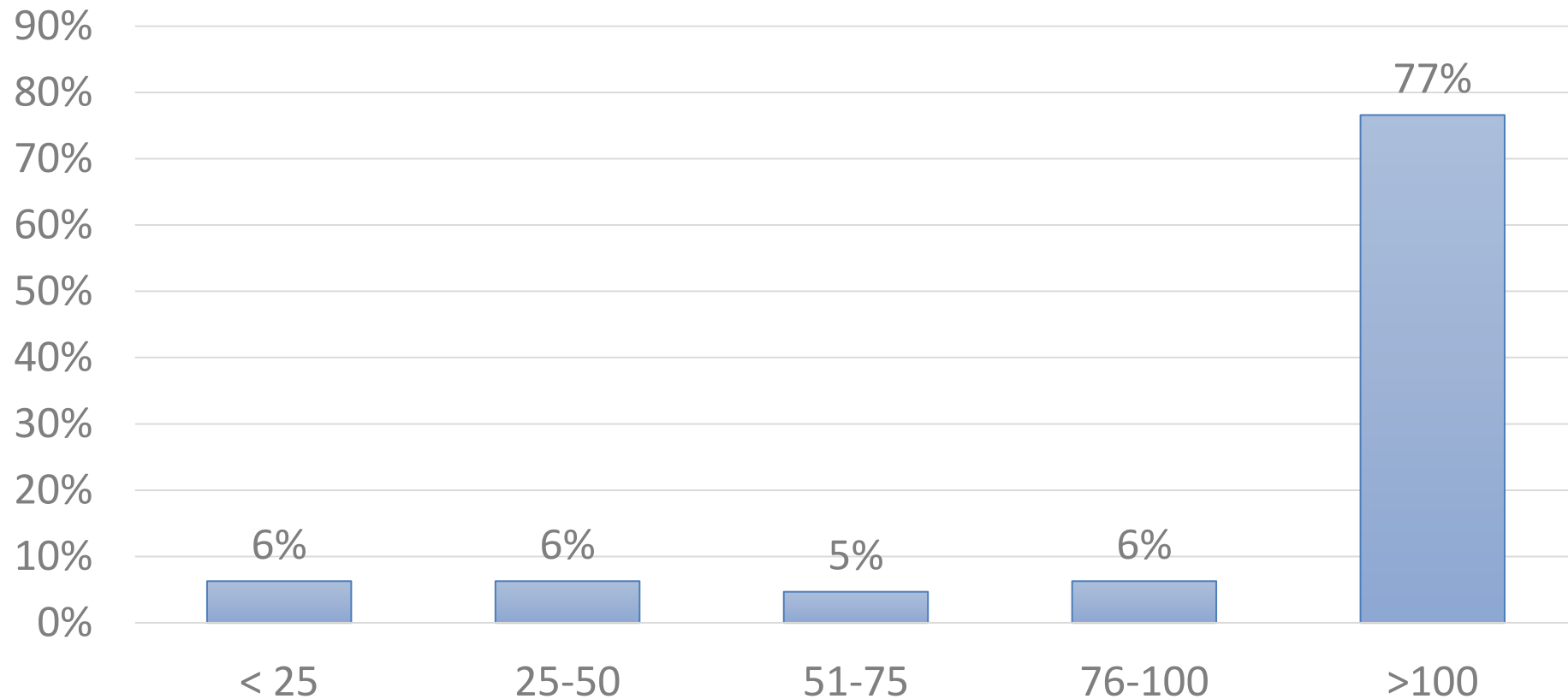
Results: Endoscopy

Endoscopy Training Experience



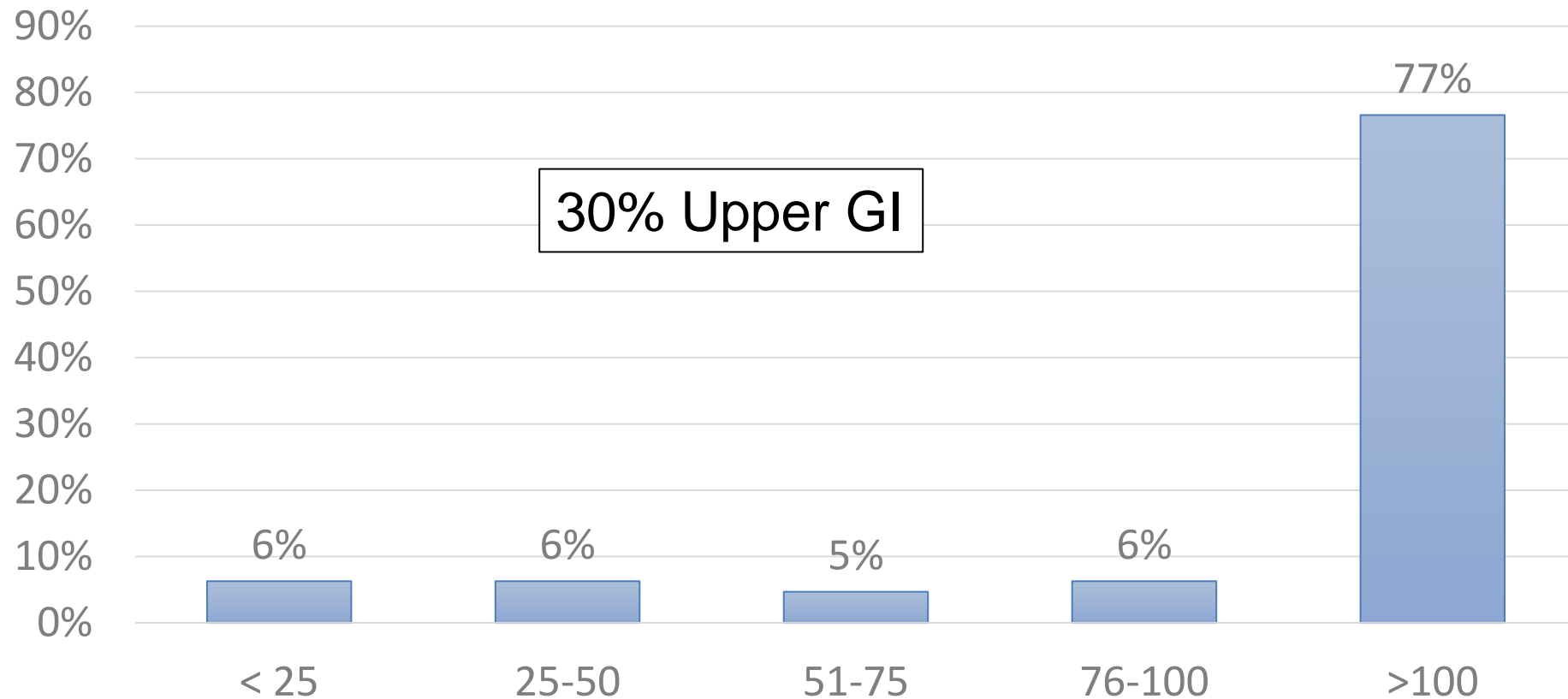
Results: Endoscopy

Endoscopies Per Year



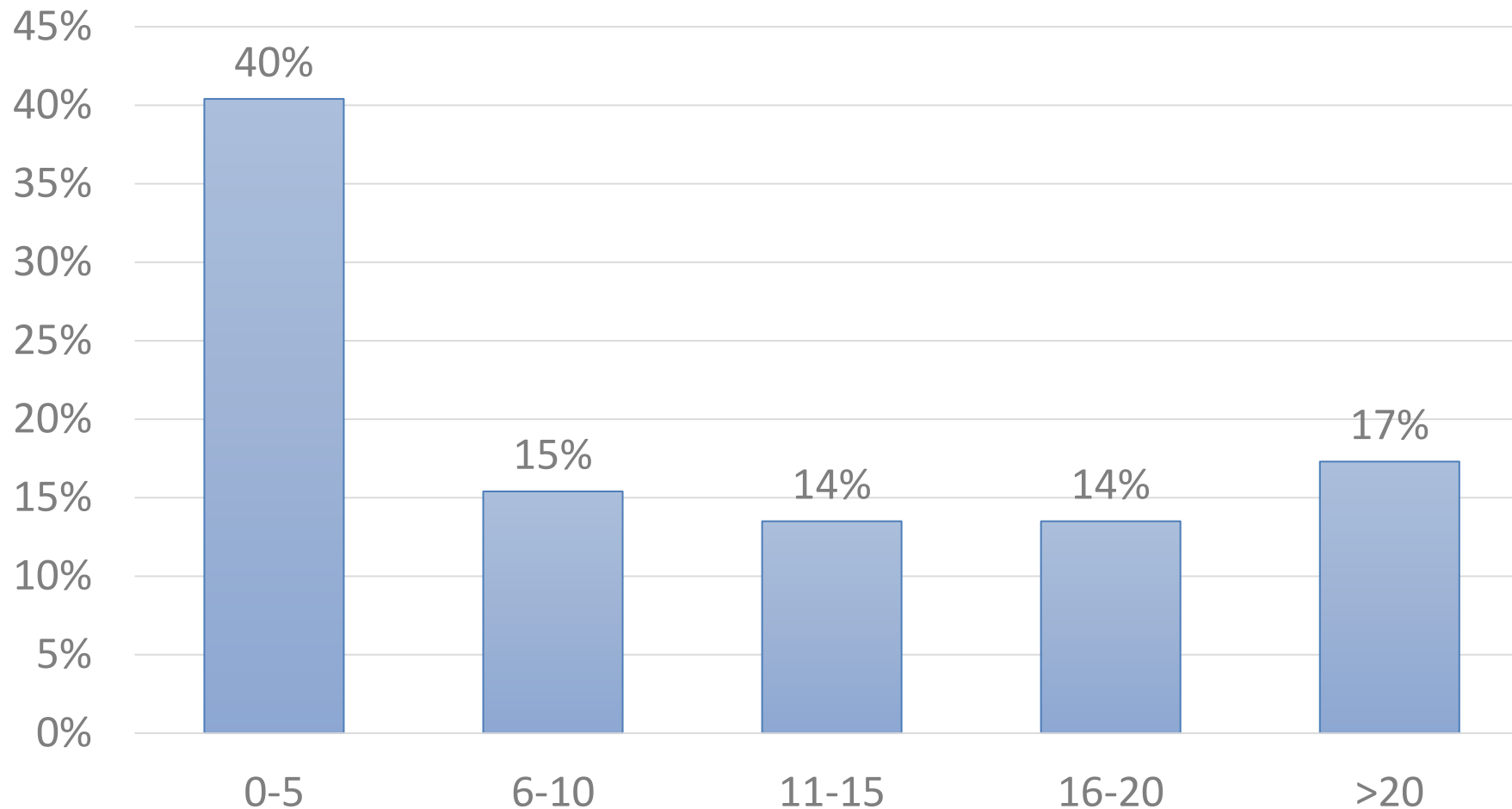
Results: Endoscopy

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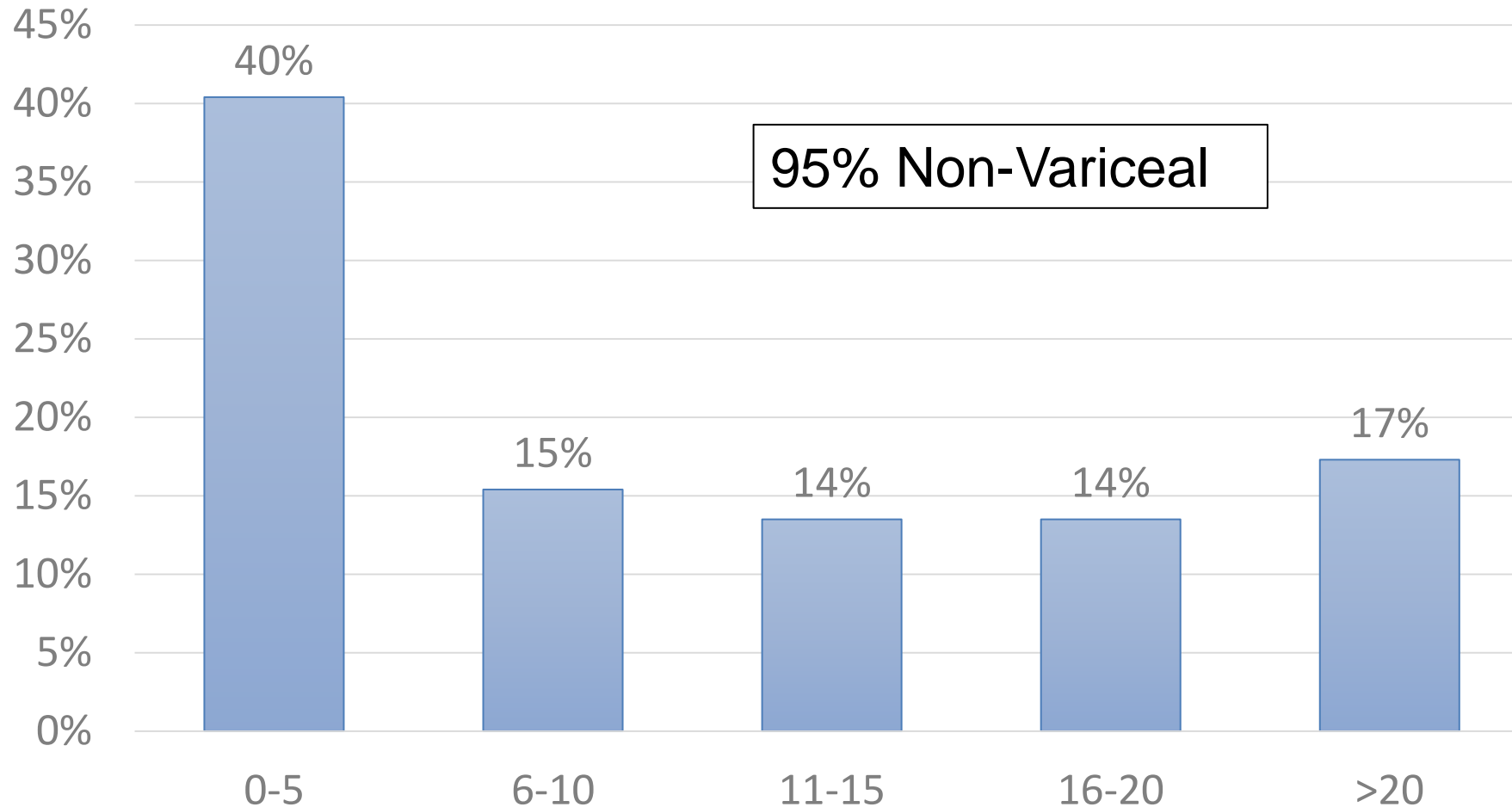
Results: Endoscopy

Endoscopic Management of UGIB Per Year



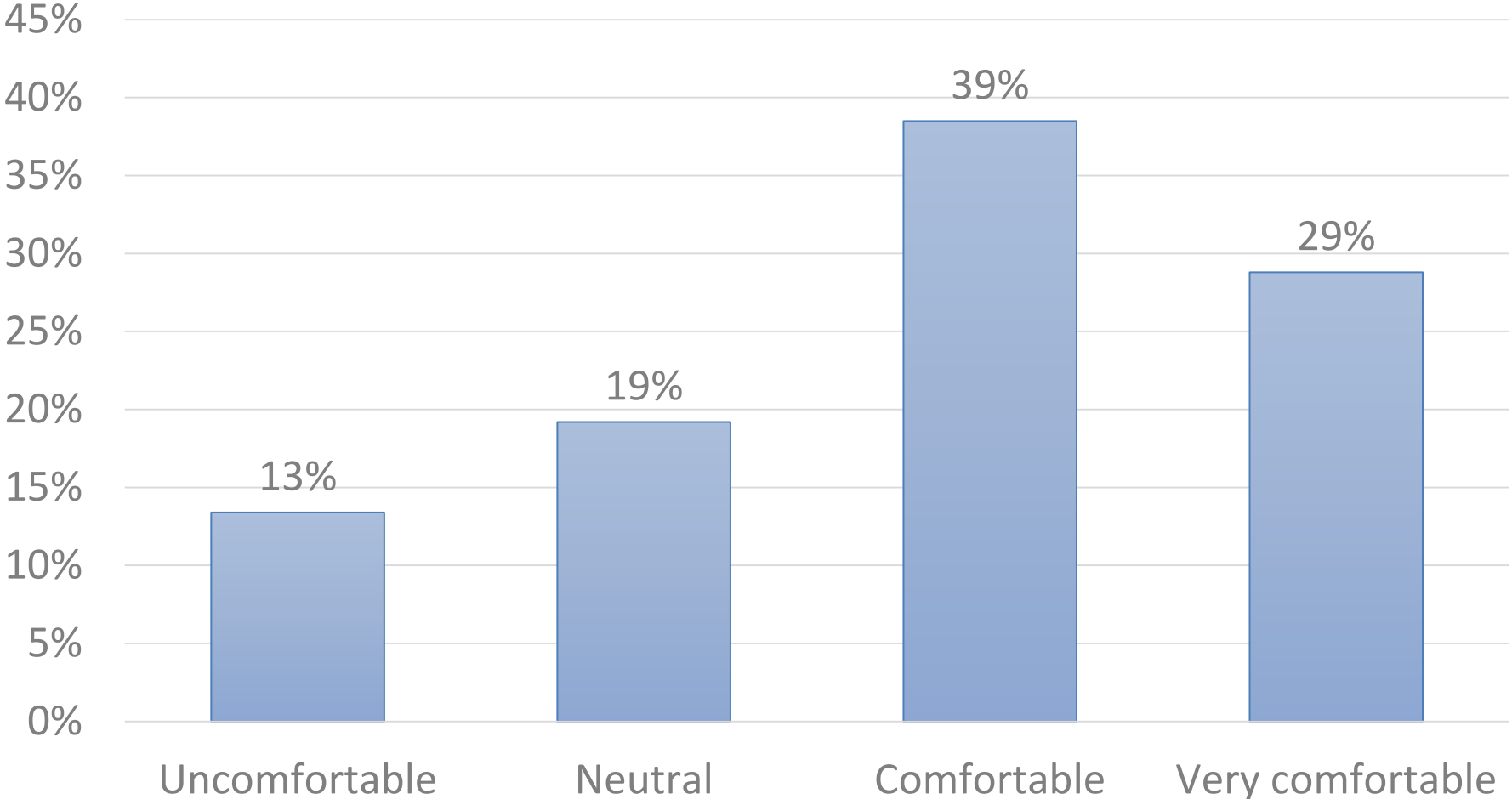
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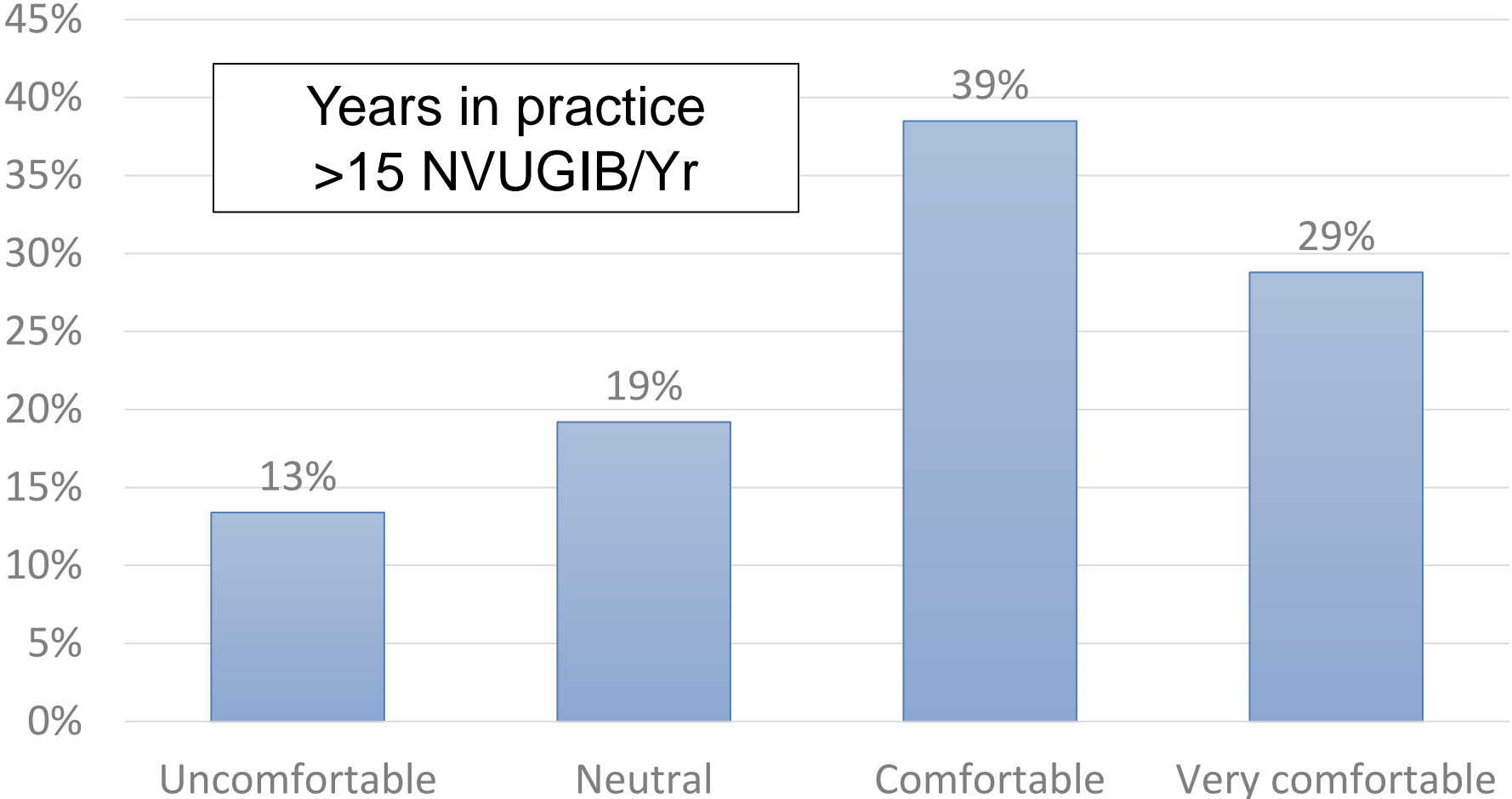
Results: Endoscopy

Comfort Level of Endoscopic Management of UGIB

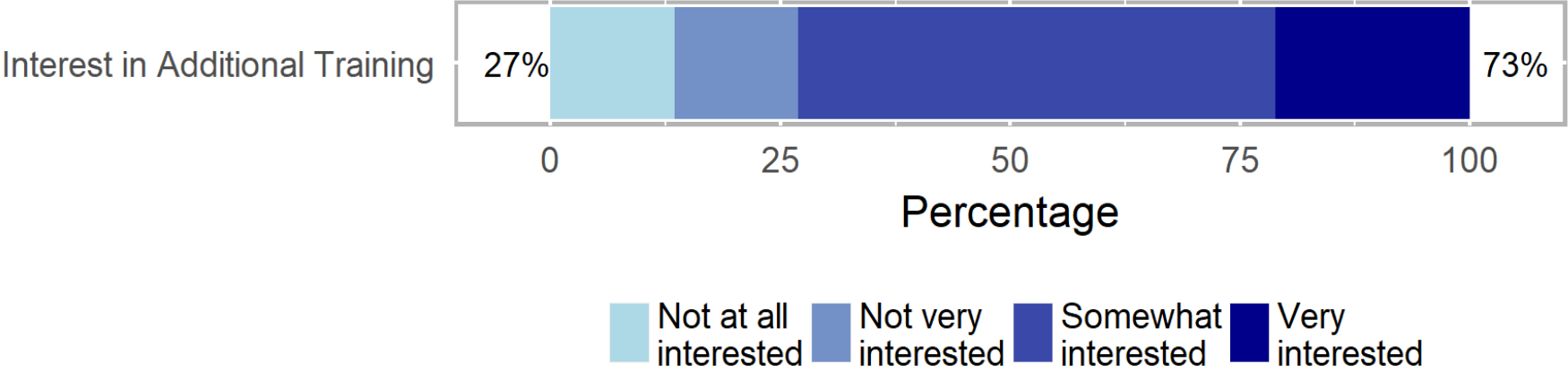


Results: Endoscopy

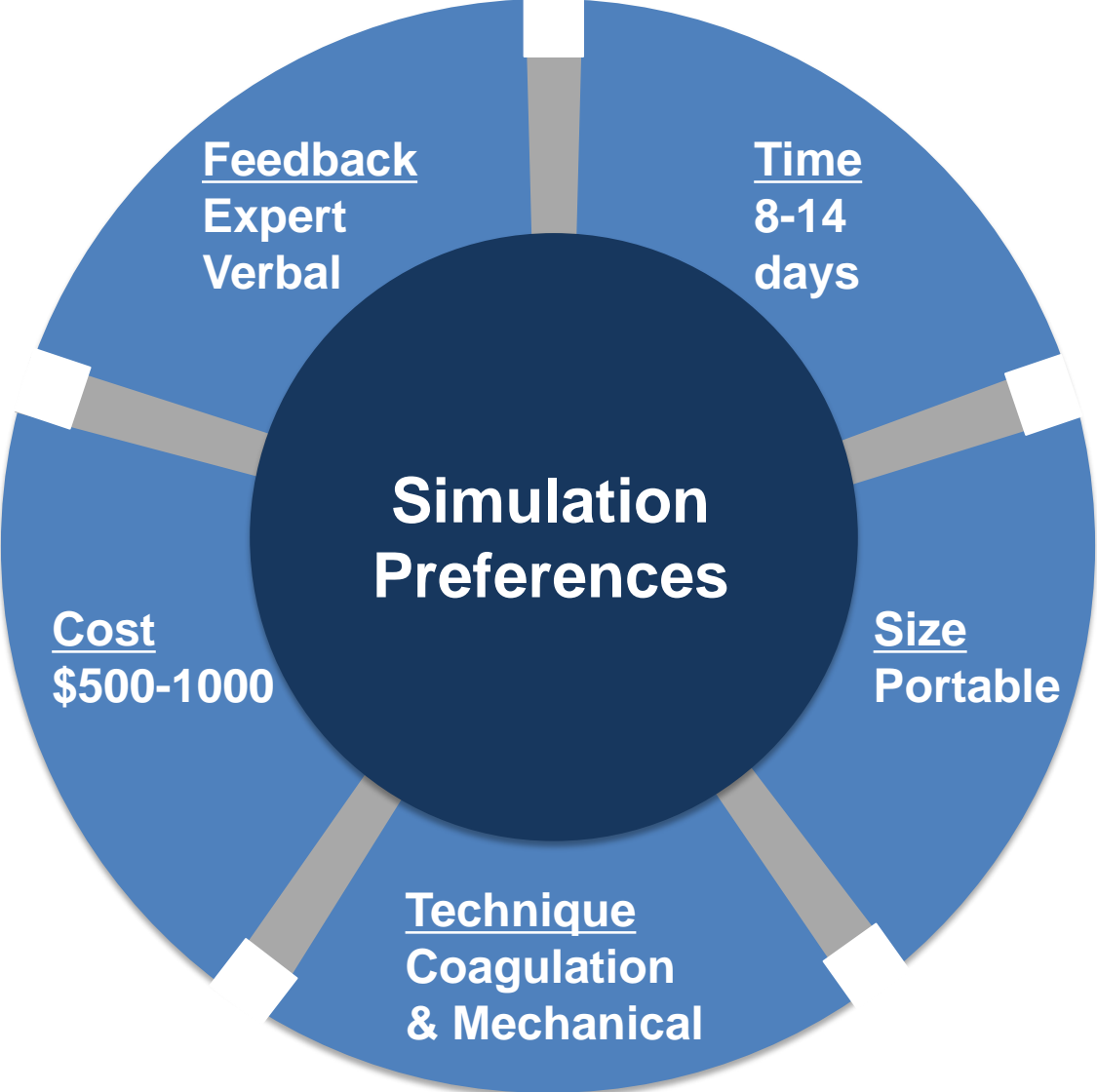
Comfort Level of Endoscopic Management of UGIB



Results: Needs Analysis



Results: Preference



- Rural surgeons frequently perform upper endoscopy and expressed need for further training in the endoscopic management of NVUGIB
- Simulation model preferences
 - Low cost
 - Portable
 - Technique: coagulation & mechanical
 - Provides expert feedback

We are using these results to develop a modern simulation platform for the management for NVUGIB.

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Future Directions

