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GQIP Collaborative Report TBI Workgroup

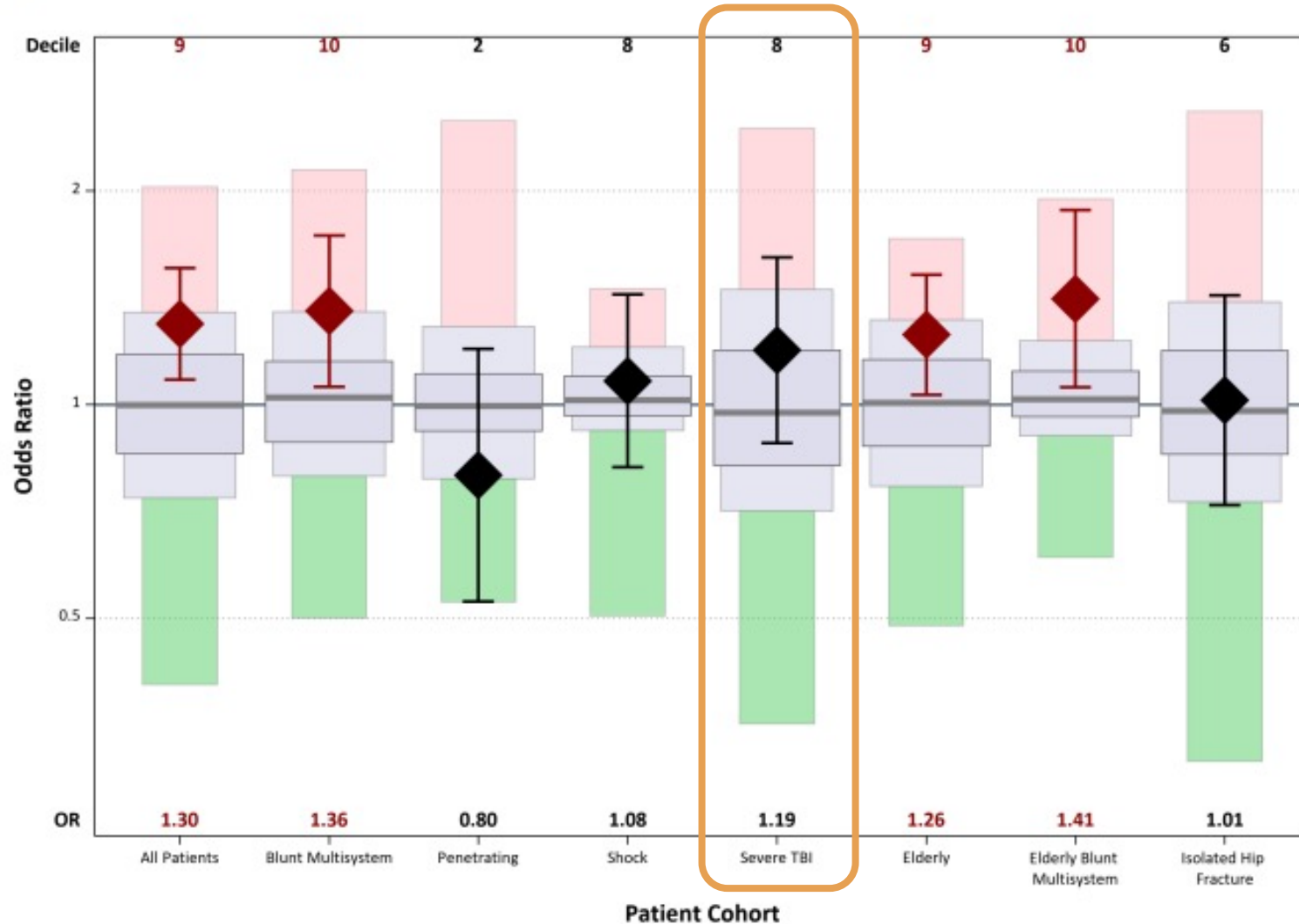
Elizabeth R Benjamin MD PhD

Eli Mlaver MD

GQIP Day of Trauma
St. Simons Island, GA
13 August 2022

Spring '22 Collaborative Report – Mortality

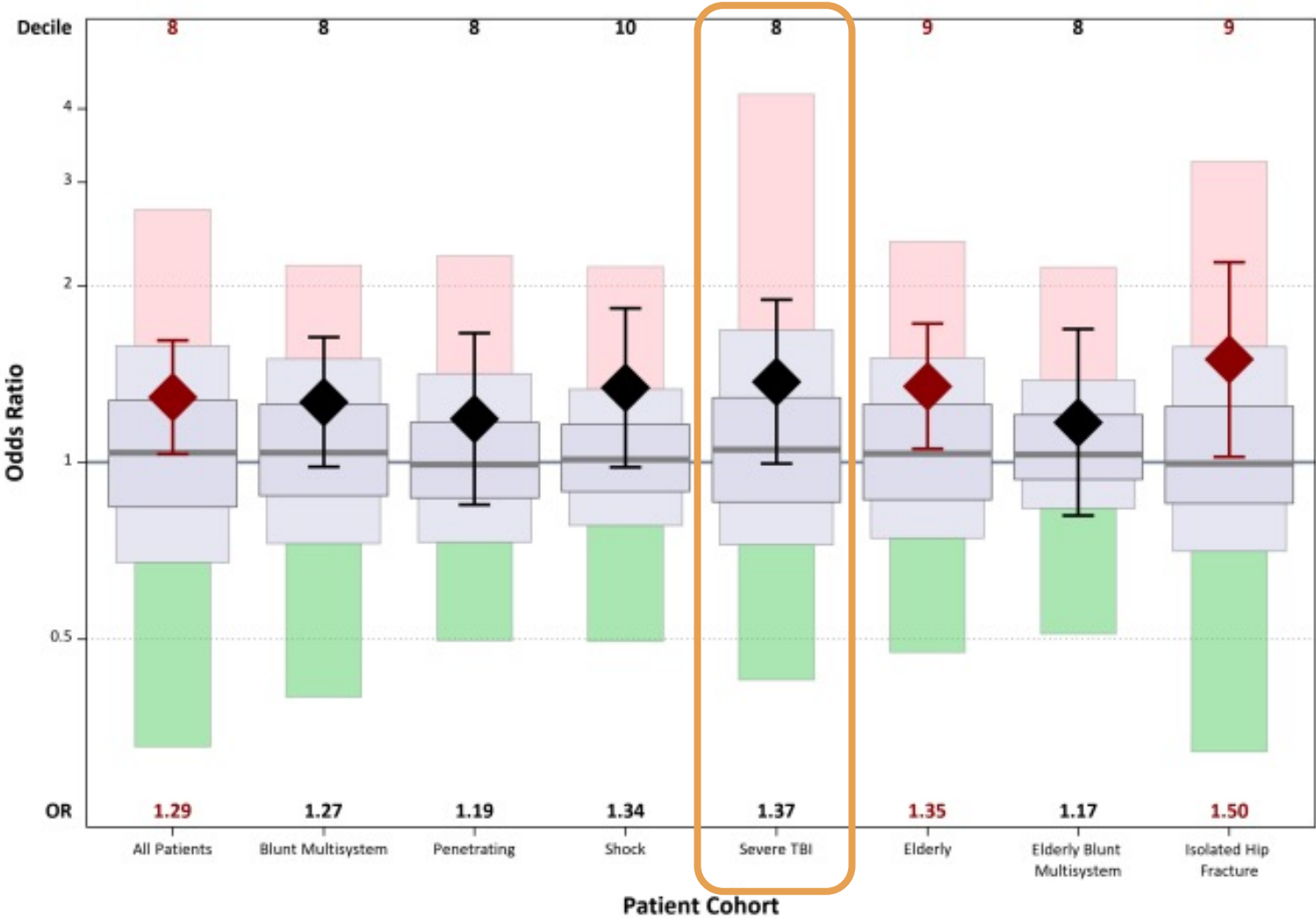
Figure 2: Risk-Adjusted Mortality by Cohort



Spring '22 Collaborative Report – Morbidity



Figure 3: Risk-Adjusted Major Hospital Events by Cohort



Timeline

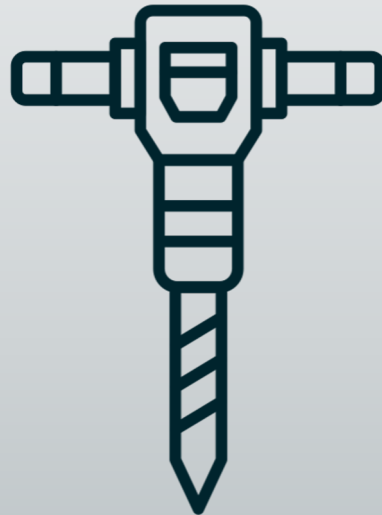


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Stage 1



Stage 2



Stage 3





Target areas for analysis in GA for severe TBI

1. Hospital Disposition

2. Hospital Length of Stay

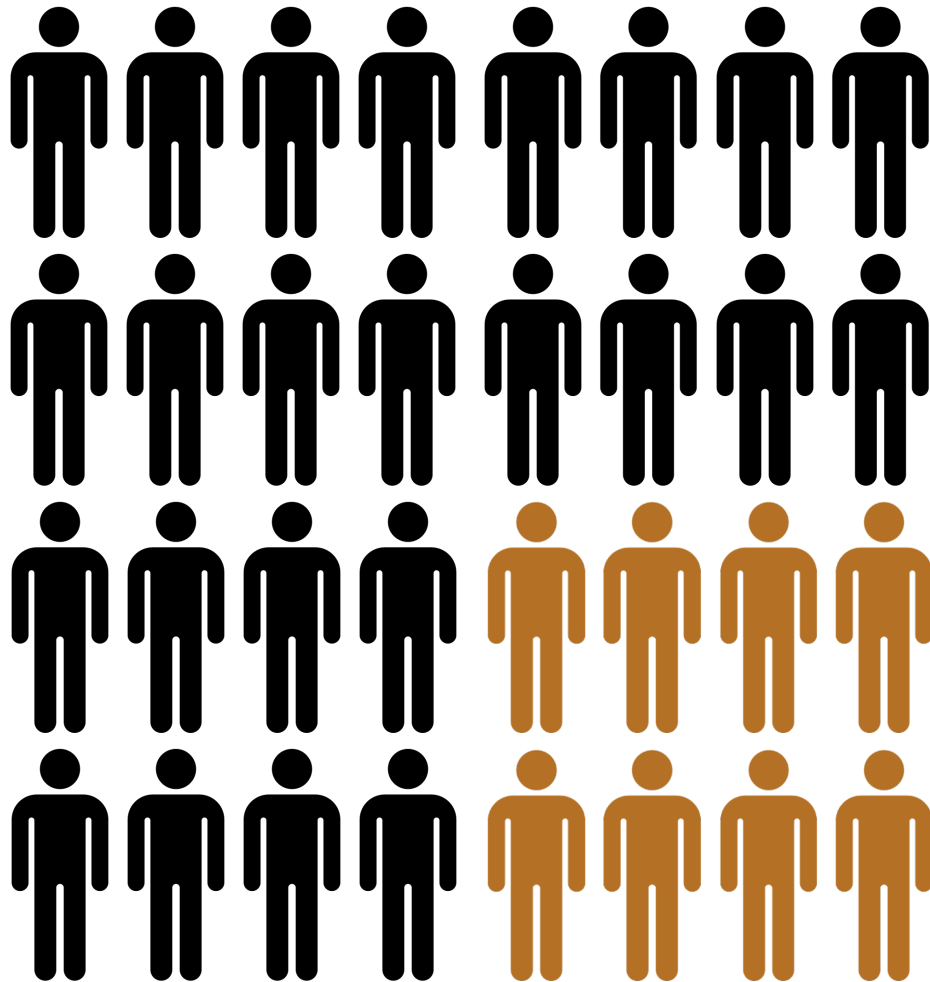
3. Complications:

- AKI
- ARDS/VAP
- Pressure Ulcers

Narrow Definition



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Severe TBI = AIS \geq 3

TQIP

Severe TBI =

AIS \geq 3 and GCS \leq 8

Data Collection



- Thirteen level 1 and 2 trauma centers
- Jan 2019 – Dec 2021
- 11,193 patients with severe TBI (Head AIS ≥ 3)

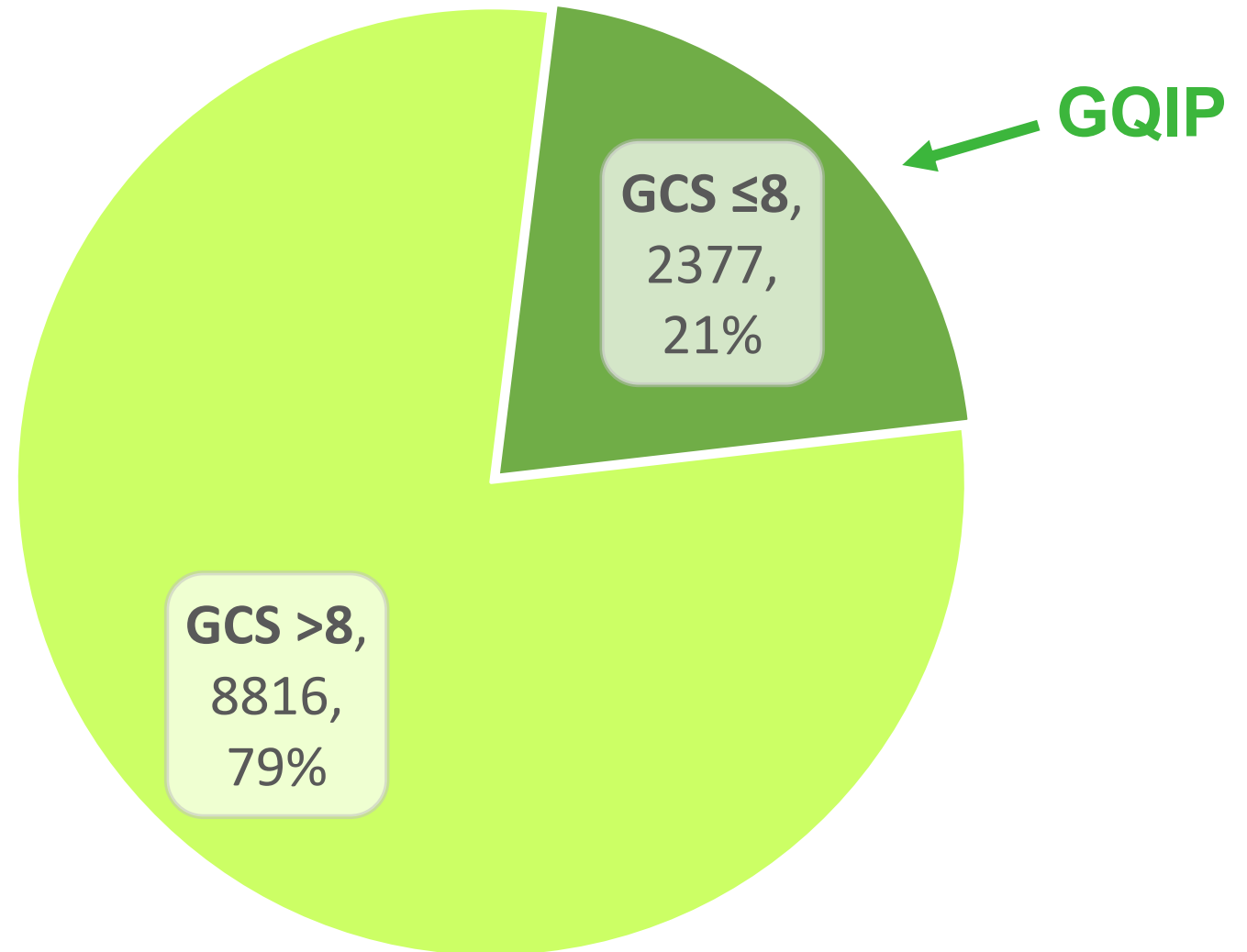
Data Collected	
Demographics	Comorbidities
Mechanism	Injury Complex & Severity
ED Disposition	ICU Length of Stay
Adverse Events	Hospital Disposition

Just a small piece of the pie



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Total Population
Head AIS_≥3
N=11,193

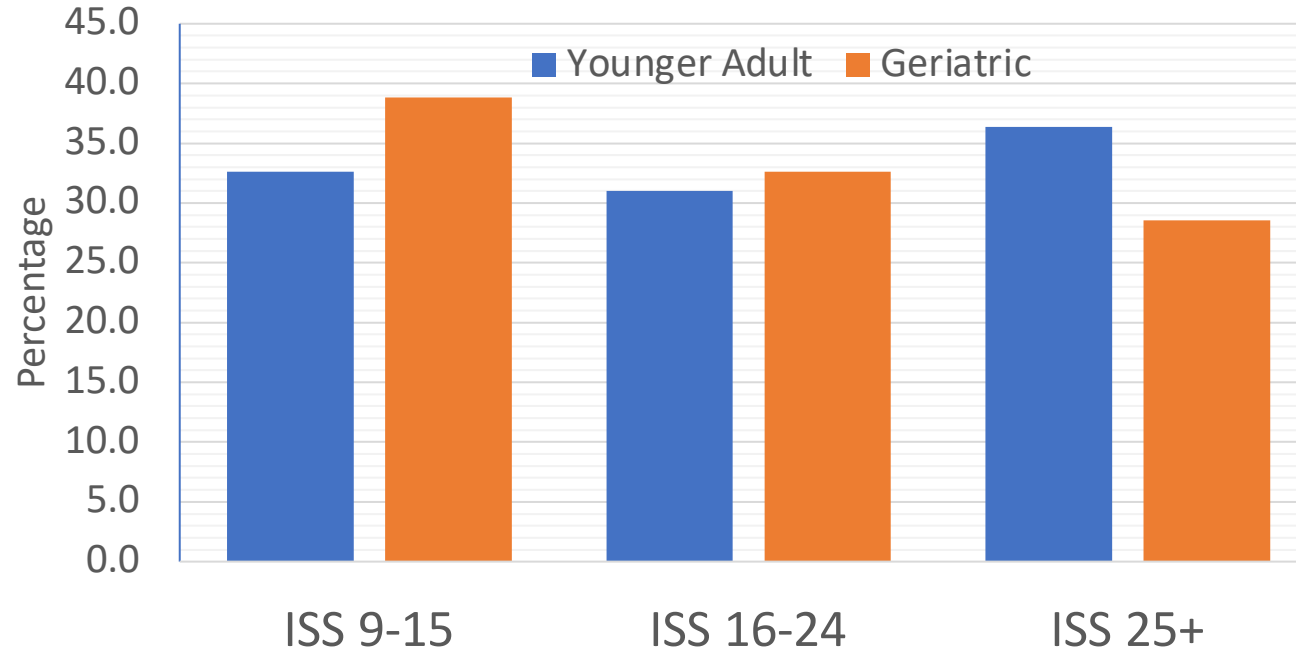


Two Distinct Populations



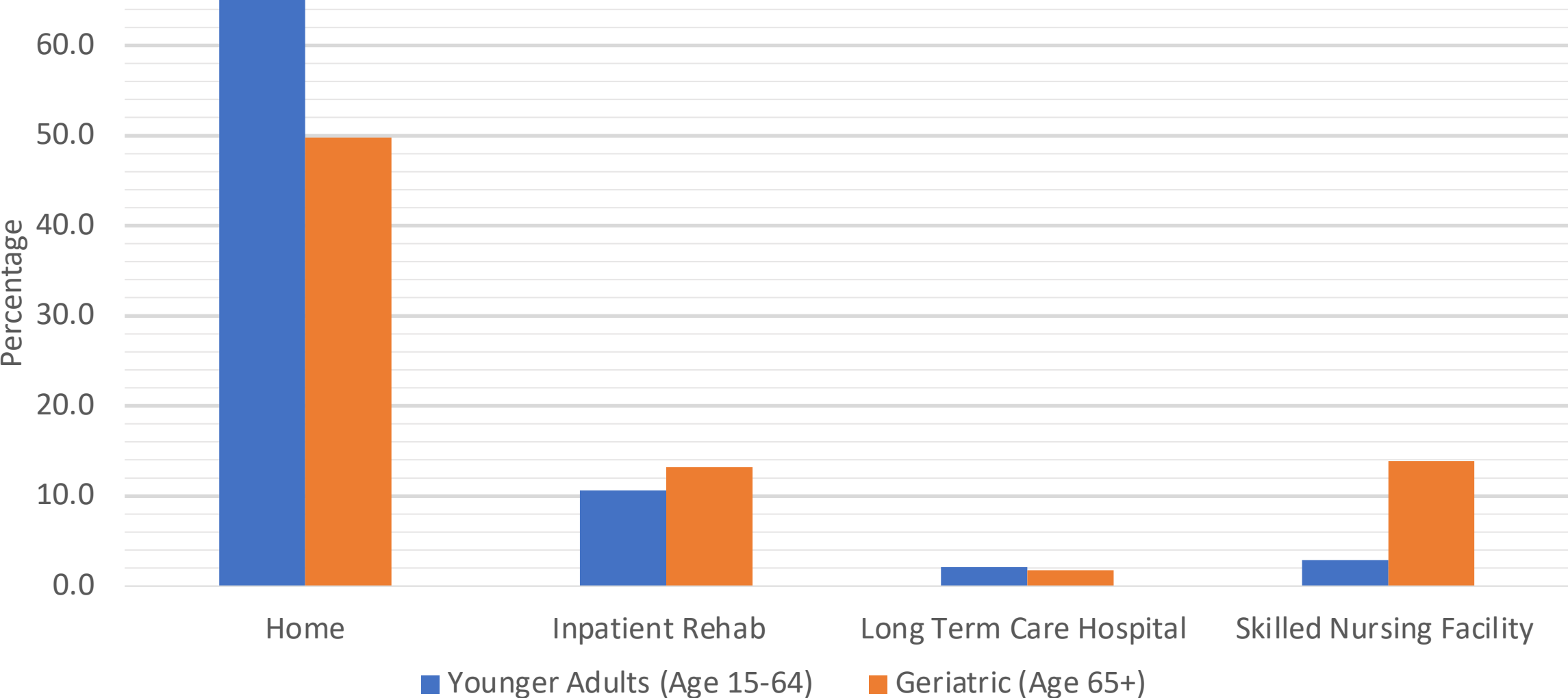
	Younger Adult (15-64)	Geriatric (65+)
Male	75%	52%
White	50%	77%
Functionally Dependent	3%	30%
Anticoagulant Use	4%	32%
Diabetic	8%	29%
GLF	19%	74%
MVC / MCC	38%	11%
Isolated Head Injury	71%	83%

Two Distinct Populations



	Younger Adult (15-64)	Geriatric (65+)
ICU Admit	61%	60%
Mortality	12%	11%
Hospice	2%	9%

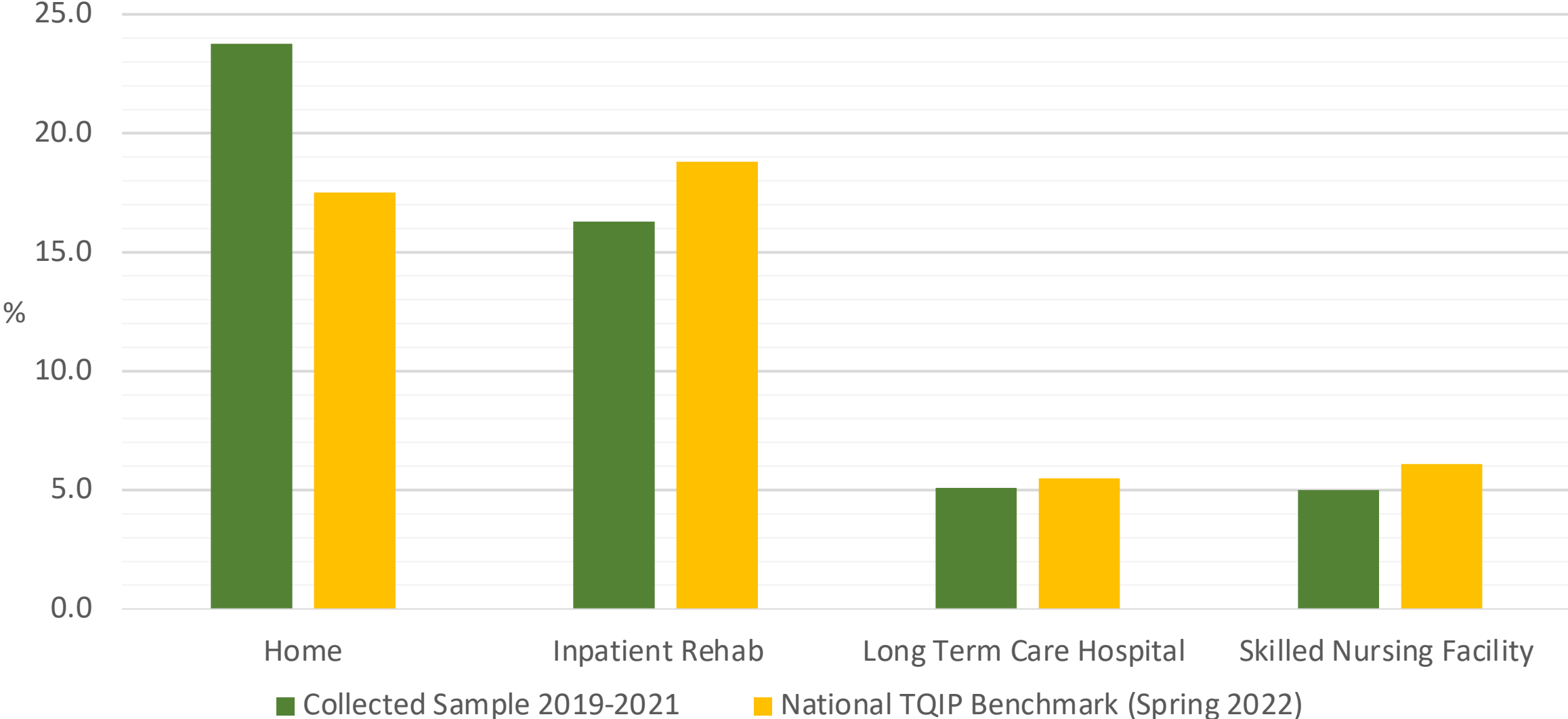
Hospital Disposition



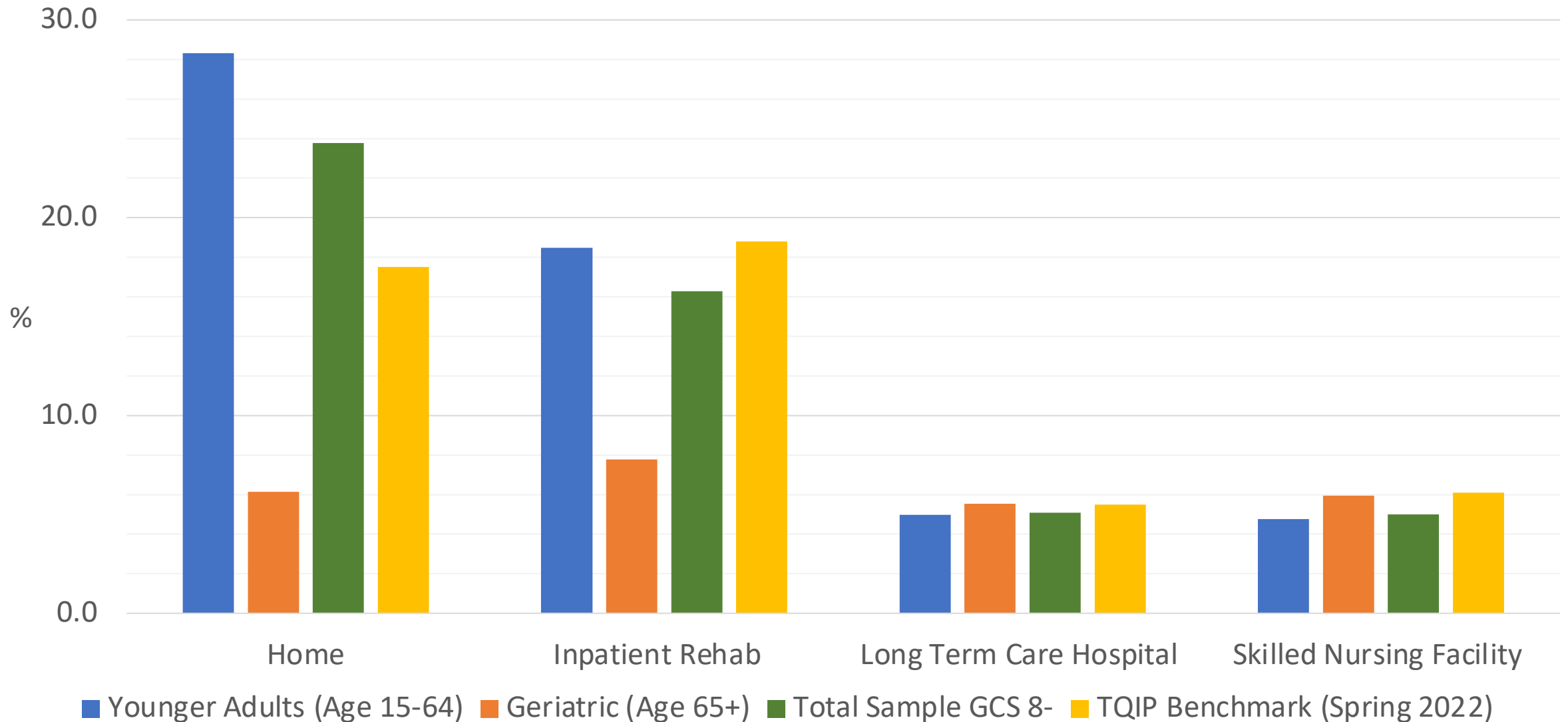
Focus on GCS <8, Comparing to TQIP



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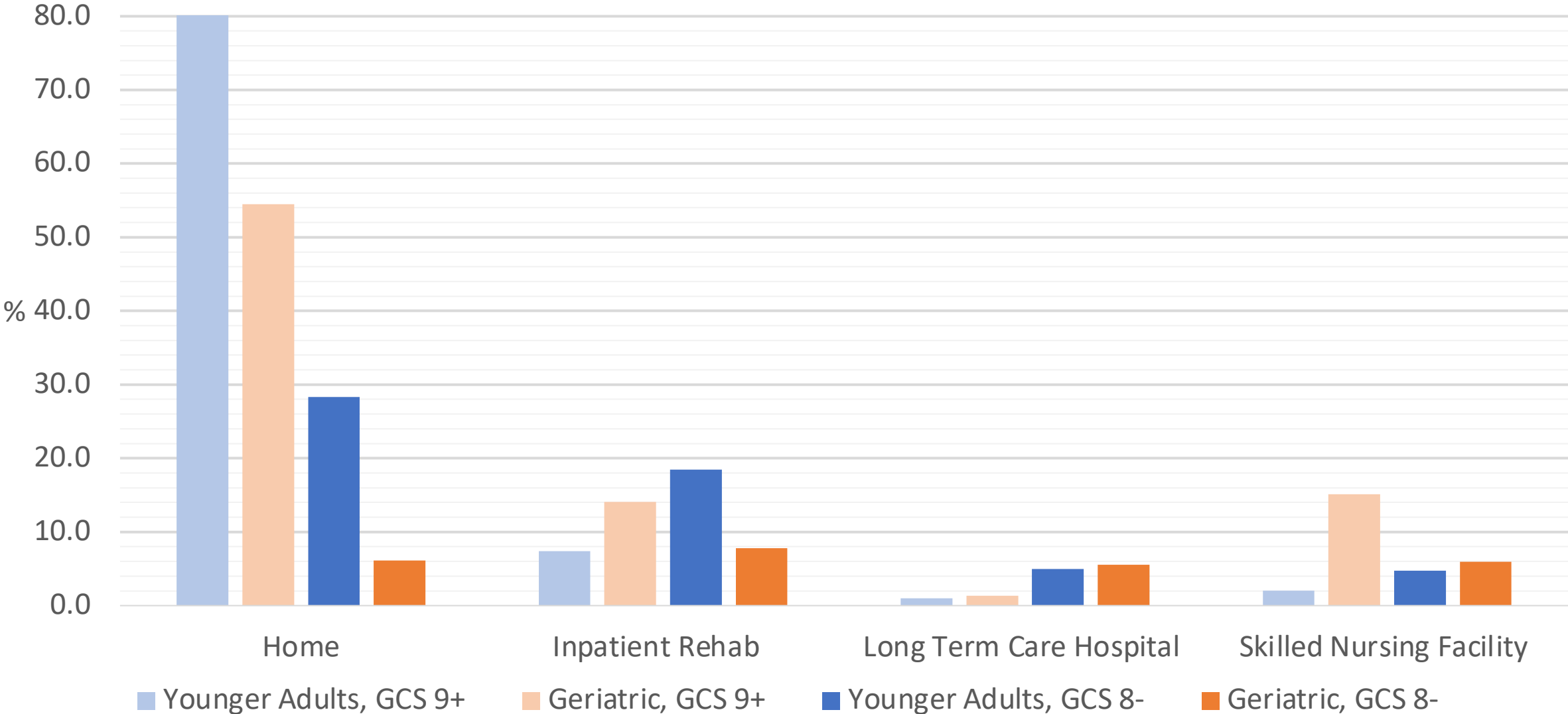
Age Groups Highlight Discrepancies



Disposition by Age and Presenting GCS



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Discussion

GQIP has higher rates of discharge home and lower rates of placement than national TQIP benchmark



41% Previously functionally independent geriatric patients requiring post-discharge placement / services

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