

MPOG Brain Health/Geriatric Workgroup Date: August 21, 2023 3-4p EST Via Zoom

# Agenda

- Introductions
- Meeting Goals
- Recap of geriatric/brain health progress
- Proposed Measures (midazolam use)



### Participants

Jeff Jacobs, MD – Cleveland Clinic Florida	Linda Liu, MD – UCSF	
Stacie Deiner, MS, MD – Dartmouth-Hitchcock Medical Center	Liz Whitlock, MD – UCSF	
Xan Abess, MD – Dartmouth-Hitchcock Medical Center	Phil Vlisides, MD – Univ. of Michigan	
Miles Berger, MD – Duke University	Mark Neuman, MD – University of Pennsylvania	
Gary Loyd, MD – Henry Ford Health System	Rob Schonberger, MD – Yale/MPOG Associate Research Director	
Lucy Everett, MD – Massachusetts General Hospital	Mike Mathis, MD – MPOG Research Director	
Germaine Cuff, BSN, PhD – NYU Langone Health	Nirav Shah, MD – MPOG Quality Director	
Simon Tom, MD – NYU Langone Health	Rebecca Pantis, M.S. – MPOG	
Anne Donovan, MD - UCSF	Tony Edelman, MD – MPOG Associate QI Director	
Lee-Lynn Chen, MD – UCSF	Sachin Kheterpal, MD – MPOG Executive Director	

# Goals of this meeting

- Ensure all attendees are caught up on conversations and progress over the last couple of years
- Obtain feedback on developing a new measure that demonstrates variation in care with administration of midazolam in the geriatric population
- Determine next steps for this workgroup
  - Continue with ad hoc meetings with correspondence over email
  - Create Basecamp forum to host conversations between meetings?

# What is MPOG?

- ★ Formed in 2008
- ★ > 63 hospitals including private practices and academic institutions
- ★ Data at the coordinating center is transformed for use in education, research, and quality improvement
- ★ We currently have 76 quality measures



# Recap of Progress Thus Far...

- Email conversation initiated in August 2020 with interest in studying periop delirium
- Identified variables present in EHR across MPOG sites -> developed MPOG
  Concepts to capture preop cognitive assessments & postop delirium screening
- Met several times from Fall 2020 Winter 2021
- Presented update at July 2021 Quality Committee meeting
- PCRC 0170 approved in 07/2022, study team led by Xan Abess (Dartmouth) in -Pragmatic perioperative brain health screening in older surgical patients

# MPOG Data

- Between 01/01/2018 7/31/2023:
  - 22,545,381 total cases from 71 institutions
  - 6,813,186 cases with patient age >65 across 70 institutions

More than 60 brain health MPOG concepts now available!

MPOG Delirium Concepts (See <u>Browser</u> for complete list)	Institutions	Occurrences
Cognition Assessment	17	2,162,398
Clock-Drawing Test – Score	9	23,469
Montreal Cognitive Assessment (MoCA) - Score	6	45,920
Cognitive Screening: MoCA Total Score	2	207,151
Confusion Assessment Method (CAM) - Overall CAM-ICU Score	4	58,063
Confusion Assessment Method (CAM) Score	26	2,067,098
AD8 – Total score	0	C
4AT – Total Score	0	C
Hopkins Frailty- Score	2	2,663

# Recommendations for Variable Mapping

#### Preop

- Cog screening: AD8, MMSE, MOCA, MiniCog
- Frailty screening: Clinical Frailty Scale, Frail Scale, CSHA Frailty Index

PostOp

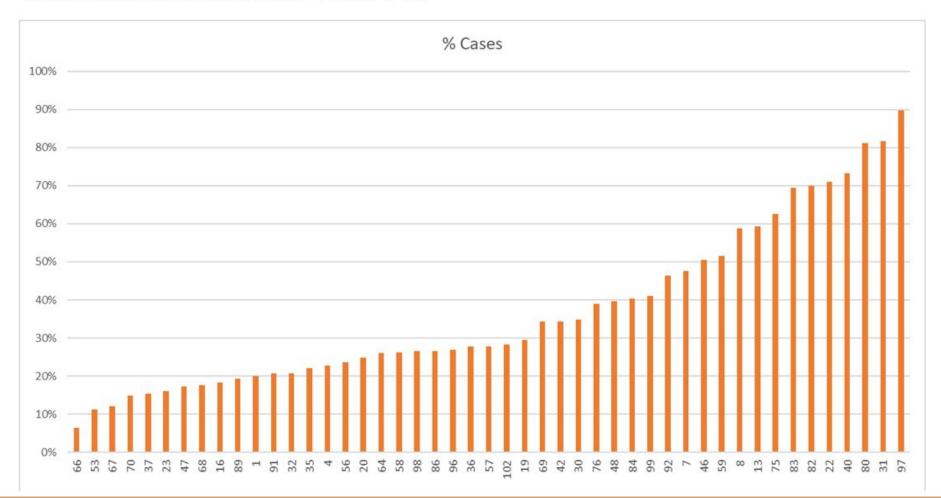
• Delirium screening: 4AT, CAM, CAM-ICU

\*MPOG only captures data 4 hours before anes start through PACU or 6 hours after anesthesia end.

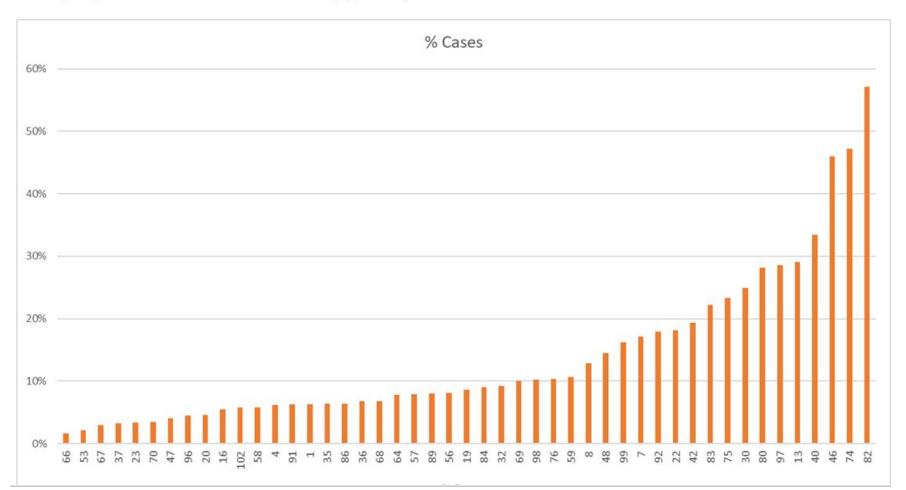
## Measures of interest

- % of patients age >X undergoing non-cardiac GA who received a midazolam intraoperatively
- % of patients age >65 without preoperative hypotension undergoing GA for non-cardiac surgery who had episode of MAP <55 mmHg within 15 minutes of induction (adaptation of BP-05)
- % of patients screened preoperatively for cog impairment
- % of patients screened preoperatively for frailty
- % of patients screened postoperatively for delirium
- % of patients age >X undergoing GA with ETT who received more that 1.5mg/kg of single propofol dose for induction
- % of patients requiring sugammadex for rescue following full reversal by neostigmine/glycopyrrolate

#### Use of preoperative midazolam across MPOG (Age 70-79)



#### Use of preoperative midazolam across MPOG (Age 80-89)



## Proposed midazolam measure

- Midazolam use in patients in geriatric population
- Informational only (no threshold)

### MED-03

- Description: Percentage of geriatric patients who (do not) receive a benzodiazepine
- **Threshold:** Not applicable Informational only
- **Measure time period**: Pre-op start time Anesthesia End

### MED-03

### Inclusion:

> Geriatric patients who undergo procedures requiring general anesthesia

#### Exclusions:

- > ASA 5 & 6 cases
- > Patients <65 y/o?
- > Others?

### MED-03

#### Success Criteria:

> No midazolam / benzodiazepine administered

#### Provider Attribution:

- > All anesthesia providers signed in at Anesthesia Start?
- > All anesthesia providers signed in at Anesthesia End?
- > Providers signed in when midazolam administered?

# Voting questions

- Should MPOG build a measure for midazolam administration in the geriatric population?
  - ≻ Yes
  - ≻ No
- Which age range among the geriatric population should be included?
  - > > 65
  - > > 70
  - > >75
  - > <80

# Next Questions and Steps

- Should we recommend specific assessments for preoperative frailty / cognition, or postoperative delirium in the PACU?
- Should we build a measure that tracks rates of PACU delirium screening in the PACU, knowing that it's going to be low?
- Are there experts in addition to this group that we want to hear more from at MPOG meetings?
- Continue progress on PCRC 0170
- Consider additional research projects
- Continue to recommend sites to map Brain Health concepts

# Thank you!

Nirav Shah, MD MPOG Quality Director nirshah@med.umich.edu Henrietta Addo, MSN, RN QI Specialist addo@med.umich.edu