

# "From the Trough" Perioperative Interest Group Notes

Based on Cases discussed at the Weekly PIG Clinical Meeting Website: www.perioptalk.org

The imperfect opinions in these reports are only meant to stimulate discussion: - they should not be considered a definitive statement of appropriate standards of care.

Date: 15.6.23

## TOPIC 1: 56 F for L3 R hemi-laminectomy, L#/4 micro discectomy

Large disc bulge at L3/4. Radiculopathy. Nil cauda equina

## **Background**

- BMI 47
- IHD prev CABG (angio '22 graft to OM occluded, moderate disease otherwise) w/ occaisional angina for medical management due to challenging angiography (patient intolerance)
- T2DM on insulin, poorly controlled
- Graves Dx
- CKD eGFR ~ 45
- CVA balance and slurred speech remain
- Depression
- Legally blind
- PTSD
- Chronic thrombocytopenia, plt ~100
- Full assistance w/ ADLs, living in group home, consent for self
- Labile BP control hypotension/hypertension, polypharmacy
- Vapes, ex-smoker, distant asthma

## Issues

- ? surgery indicated main complaint in clinic and with carer was of back pain
- ? able to physically prehabilitate
- Goals of surgery? pain v. functional improvement, likelihood of either?
- Multiple unoptimized comorbidities
  - ? OHS (HCO3 mildly elevated, previously "slow to wake" after GA in 2021)
  - Poor diabetes control
  - o Ongoing vaping
  - o BMI 47

# **Discussion**

- Perioperative risk prediction can be challenging in patients like this whereby risk scoring tools may under-estimate risk
- Would benefit from a physician to provide oversite of multiple organ systems and rationalize medications, rather than clinicians acting in silos.
- ? can have a "rehab" direct admission from an outpatient setting
- Shared decision making challenging when patient expectations around surgery outcomes are very concrete

 Our traditional prehab models would not be appropriate due to this patient's existing severe disabilities and needs.

## Plan

- Discuss with neurosurgeon -? surgery indicated,? risk if surgery postponed/cancelled
- Ideally physician holistic management will d/w endocrinologist
- Explore rehab or cardiac rehab options
- Investigation and management of ? OHS/severe OSA
- Discuss with GP

# **TOPIC 2:** CDM - Lap +/- open hemicolectomy

70yo lady with ascending colon cancer.

# **Background**

- Mild OSA nil rx
- T2DM on insulin, Hba1c 8.4
- Guillan Barre / CIDP pred 6mg / day + IVIG monthly
- Secondary adrenal insufficiency
- Uses 4WW, CFS 3
- Spiro and ECG normal
- Iron replete, not anaemic

#### **Issues**

For prehabilitation?

#### **Discussion**

- Lap vs open risks NSQIP long term functional decline high for both ~70%, open much higher risk of serious complications, risk of death ~1% for lap, 3.5% for open
- Risks elevated by falls hx, chronic steroid use, SOBOE
- Would benefit from prehab. Patient motivated to reduce risks where possible as reluctant ++ to incur any loss to independence/function

#### Plan

- Discuss with prehab coordinator
- Discuss with surgeon ? appropriate time frame for delay

## **TOPIC 3:** CDM - EVAR +/- cut down to iliacs

62yo male with infrarenal 50mm AAA and bilateral CIA aneurysms

## **Background**

- STOPBANG 5, ESS 6 (patient attributes elevated ESS to recent stress and poor sleep)
- DASI 8 METS
- Quit smoking 8 months ago
- Likely COPD nil exac/symptoms/LRTI but spirometry in clinic showed FEV1 42%, ratio 0.53

## **Issues**

Optimisation required or possible?

#### **Discussion**

- Ideal not to have open procedure if able given likely moderately severe COPD
- If open procedure would need CPET to further quantify risk and targets for optimization (cardiac or respirartory)
- Conversion from endovascular too open on the day of procedure is rare
- Suitable to proceed to EVAR without further optimization/delay

#### Plan

Proceed to EVAR

# **TOPIC 4:** Multiple severe comorbidities prior to VATS

73yo male for R VATS and wedge resection for one of multiple lesions, presumed to be metastatic spread from unknown primary

## **Background**

- Partial gastrectomy '04 for cancer
- Oesophagectomy '14 for cancer, subsequent strictures requiring dilatations
- Bladder Ca diathermy based treatment, now under surveillance
- HOCM w/ ASM + LVOTO, TTE 2022 gradient stable 39/15
- IHD minor L main disease, 70% LAD proximal lesion, + aneurysm, minor LCx, 40% RCA -> medically managed
- Asbestosis pleural plaques and coarse fibrosis R lung
- Recent GAs well tolerated
- DASI 6 METS

#### **Issues**

- Long QT on clinic ECG Nil obvious culprate medications, asymptomatic, 480ms
- BSL 3.1 in clinic nil hx or symptoms
- Perioperative risk RCRI class 3

## **Discussion**

- What is the primary cancer Multiple previous cancers although reasonably distant. Tissue diagnosis needed for further oncology treatment
- Low BSL in clinic endocrine suggested morning cortisol and HbA1c
- Overall co-morbidities, while significant, are stable. Reassured by good exercise tolerance and history of daily purposeful exercise.

## Plan

- For early morning cortisol, HBa1c, CMP, EUC
- Proceed to OT
- Warning note for HOCM

# **TOPIC 5:** Multiple severe comorbidities, open ilio-inguinal procedure

Elderly patient for iliofemoral endarterectomy for QoL limiting claudication

# **Background**

- COPD prev on home O2 post CAP, severe emphysema. SpO2 in clinic 89%, reduced to 84% with minor exertion
- PVD claud 20-50m
- ETOH induced Cirrhosis, Grade 1 varices, bili 20, mildly decreased albumin, Plt 74
- TTE normal
- Cardiac MIBI -ve

## **Issues**

- **Method of anaesthesia** procedure usually under SAB + GA due to need for muscle relaxation around surgical space.
- Optimisation possible? severe/critical COPD but recently stable

## **Discussion**

• Acceptable platelet range in this setting? Proceduralist dependent. Advantages to neuraxial technique. Normal coags and negative bleeding history would provide some reassurance.

## Plan

- Check coags, FBC
- Flag to procedural anaesthetist
- Discuss with surgeons how proximal into illiacs would procedure be? (i.e needing relaxation and therefore GA) given his severe COPD

# **TOPIC 6:** Lithium and elective CS

32yo lady G1P0, booked for elective CS. Recent diagnosis of congenital diaphragmatic hernia in the foetus. Highly stressful for mother. Mother on lithium.

## **Background**

• BPAD - On 900mg SR Li

#### Issues

- Perioperaive lithium management
  - Psychiatrist recommended reducing dose to half throughout perioperative period
  - o Patient would prefer to maintain current dose
  - o Conflicting international and local guidelines about perioperative management

#### **Discussion**

- Narrow therapeutic range for lithium
- Unknown (amongst our group) what the implications of perinatal physiology changes may be
- Acknowlegement of maternal wishes in terms of risk of destabilization of mental health due to perinatal stress

#### Plan

- ECG, EUC, TFTs
- Discuss with neuropsych pharmacist
- Update:
  - Discussed with neuropsych pharmacist and the consultant psychiatric representative for perinatal and infant mental health from community liaison psychiatry
  - Post-deliver physiology changes mean a return to pre-pregnancy levels is recommended after birth
  - High risk period for toxicity
  - Withhold dose the day before surgery
  - o Lithium levels 8-12hrs post dose (regardless of daily or BD dosing) on day 1
  - o Avoid dehydration, prioritise sleep
  - o CL psych review while in hospital. Remain inpatient for 5/7
  - Breastfeeding contraindicated
  - See attached article from RACGP regarding management of BPAD in the perinatal period (<a href="https://www.racgp.org.au/getattachment/743d697c-3fde-4dee-b3c3-330089593633/Management-of-bipolar-disorder-over-the-perinatal.aspx">https://www.racgp.org.au/getattachment/743d697c-3fde-4dee-b3c3-330089593633/Management-of-bipolar-disorder-over-the-perinatal.aspx</a>)
  - See Lithium during pregnancy and after delivery (narrative review) at https://doi.org/10.1186/s40345-018-0135-7

## **TOPIC 8:** Cardiac symptoms prior to VATS

**RUL** presumed malignancy

## **Background**

- PET avid chest wall lesions skin cancer
- Schizophrenia
- COPD normal spirometry, chest clear, nil recent exac

## **Issues**

- Palpitations frequent, long lasting, associated chest pain, diaphoresis, dizziness
- SOBOE 20m
- New chest pain, lasting up to 10 mins, right sided radiating through to back, heavy sensation, at rest
- DASI 3.7 mets

# **Discussion**

• ?APID type tumour – secreting adrenalin / serotonin type substances

## Plan

- Stress echo and holter monitor
- Chase TSH and BP + HR records from GP