**Data clinic: Echo audit initial meeting notes 19.10.21**

**Present:**

Conor Dan

Peter Patricia

**Audit/QIP:** Audit on the use of Global Longitudinal Strain (GLS) in septic patients

**Lead:** Patricia Refinetti (patricia.refinetti@nhs.net)

**Summary of audit:**

Background:

GLS may provide value in the assessment and treatment of septic patients

Aim:

Evaluate current use of GLS when echo technicians are assessing septic patients in ICU

Strategy:

Measure current practice

Questions:

Do we routinely report GLS in this cohort?

Do we reassess on follow-up echos?

**Inclusion criteria**:

Any timeframe

Any T3/PACU/T6 admission

‘Septic’\*

≥2 echos of sufficient quality†

Scan ordered and reported same calendar day‡

\***Sepsis**

We discussed that this is not a cohort we can reliably select. What we will provide instead is a group of patients meeting the following criteria, and Patricia can select those she believes have sepsis on manual inspection of patient records

* +ve blood culture at any point in admission
* On antibiotics at time of first scan
* Has received Noradrenaline or Metaraminol prior to time of scan being ordered.

**†Sufficient quality**

Having the following values recorded

* Velocity Time Integral (VTI)
* E’ medial
* E’ lateral
* E/E’
* E/A
* TAPSE
* TR

GLS not a feature to filter on (Patricia can calculate)

**‡Ordered and reported same day**

The only two timepoints recorded in Epic are scan order and scan report. We know time of scan must be between these two. For many scans there will be a significant gap (days) between them. For those scans there is no value in reporting lab values, obs etc as we have no way of knowing their proximity to the actual images.

The patients we are interested in are unwell, and thus we reason that time of scan order and report will be close together.

We will therefore only select patients who have two echos that are ordered and reported on the same calendar day.

**Data we will aim to provide**:

**The following for each patient**

MRN

DOB

Age

Length of stay in ICU

**The following dataset for each scan**

(Variables recorded nearest to the time of scan order)

Observations/labs etc

HR

BP

CRP

Temp

Medications (name only, not dose)

Inotrope/vasopressor

Antibiotic

Echo values

Indication

Velocity Time Integral (VTI)

E’ medial

E’ lateral

E/E’

E/A

TAPSE

TR

GLS

**Next steps**

D, C + P to meet with David Egan 23 Nov

Audit to be registered (done)  
We will then come back with revisions/a timescale for the data