Update

Focused US for Donor assessment Background

- Presented at CTAG & RAG March 2021
 - Focused US as additional information at time of offer.
 - Focused US to rule out rather than rule in.
 - When TTE difficult to obtain Focused US might be considered. Particularly for DBD as further assessment will occur anyway.
 - FICE as additional tool for donor optimisation.
 - Not a 24/7 service but wider cover in ICU. More than 1500 accredited ICU staff
 - Anedoctal stories of donation proceeded based on Focused US.

Working group and goals

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- T. Billyard RCLOD
- R. Mildner RCLOD
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- A. Waqas ST10 Cardiology & Intensive Care
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- 1. Audit and current practice
- 2. Echo assessment
- 3. Study transfer and communication

Audit and current practice

- Focused Echo for screening of potential heart donors survey:
 - https://www.surveymonkey.co.uk/r/PFQWCKD
- Surgical Audit: https://forms.office.com/r/hKKcaFAwEJ



SNOD Audit: https://forms.office.com/r/Bq0FKnewNg



Echo assessment

- Donor Heart focused echo assessment
 - Focused echo as rule out
 - Biventricular function
 - Valvular pathology
 - IVS and PW thickness

Donor Heart Transthoracic Echo Assessment

v2 January 2022

Echocardiography in this situation can be difficult but we would be very grateful if you are able to attempt this minimum dataset for the assessment of potential heart donors.

Parasternal long axis

1) 2D

2) Colour over aortic valve

3) Colour over mitral valve

4) Measure*: Intraventricular septum thickness

Posterior wall thickness, End diastolic LV diameter End systolic LV diameter

Aortic root

Parasternal short axis

5) 2D Aortic level

Colour over tricuspid

7) Colour over pulmonary valve

8) 2D Mitral level

9) 2D Papillary muscle level

10) 2D Apical level

Apical 4 Chamber

8) 2D

9) Colour over mitral valve

10) Colour over tricuspid valve111) Measure*: RV basal diameter

Apical 5 Chamber

12) 2D

13) Colour over aortic valve

Subcostal

16) 2D

17) Colour over inter-atrial septum

Summary

Please record inotrope/vasopressor levels at time of echo and PEEP on ventilator

Comment on LV/RV function, valvular pathology, Wall thickness IVS and PW*

If you are uncertain or unaccredited please share images you have taken on teams

Advanced

If you are able to perform a complete BSE Level 2 Echo this would be ideal.

Please record LVEF, regional wall abormalities, RV function and any valvular abnormalities with quantification.

Many changes occur at end of life and do not necessarily preclude transplantation e.g RWMA



- Heart Transplant champion
 - Pilot
 - Imaging transfer and remote review



