

## CARDIOTHORACIC SURGERY PROFORMA

Domain: O - Objective / K - Knowledge / CS - Clinical skills / TS - Technical skills

### CONGENITAL CARDIAC SURGERY - CURRICULUM DOCUMENT CHANGES

| Section                         | Page          | Change                                                                                                                                                                                                                                                                                          | Reason                                                                                                                                                                                                                                                                    |
|---------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cover                           | 1             | Release and version updated                                                                                                                                                                                                                                                                     | To allow sufficient time for communication and implementation                                                                                                                                                                                                             |
| Acknowledgements                | 2             | Updated authorship                                                                                                                                                                                                                                                                              | To reflect accurate authorship and align with release in August 2026                                                                                                                                                                                                      |
| 2.1<br>Appendix 3<br>Appendix 4 | 4<br>65<br>68 | Addition of Republic of Ireland                                                                                                                                                                                                                                                                 | The curriculum covers the UK and Republic of Ireland                                                                                                                                                                                                                      |
| 2.1                             | 4             | Wording changed to reference the SCTS-SAC Cardiothoracic Workforce Report 2025 with new footnote with hyperlink is as follows:<br><a href="https://scts.org/userfiles/pages/files/workforce_report_18032025_44.pdf">https://scts.org/userfiles/pages/files/workforce_report_18032025_44.pdf</a> | A more accurate statement                                                                                                                                                                                                                                                 |
| 2.3                             | 7             | Updated training pathway diagram. See also attachment 2c.                                                                                                                                                                                                                                       | There is no longer any ST3 entry and training is run-thorough.                                                                                                                                                                                                            |
| 3.4                             | 11            | Formatting of table 1                                                                                                                                                                                                                                                                           | Improved spacing of text                                                                                                                                                                                                                                                  |
| 3.5.1                           | 11-13         | Addition of paragraphs relating to Genomics, Clinical Informatics and Sustainability                                                                                                                                                                                                            | These paragraphs have been included in surgical curricula to emphasise the importance of emerging areas in healthcare, ensuring that trainees remain adaptable and informed as surgical practice evolves.<br><br>In light of GMC feedback we added the following wording: |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                      | Whilst these areas are of growing importance and relevance, they are not expected to be fully evidenced by all trainees at this stage due to current disparities in training opportunities. Where feasible, trainee engagement in these emerging areas is encouraged, with continued focus on demonstrating the essential skills and behaviours in the GPC framework. |
| 5.3.3                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 23 | Formatting of table 2                                                                                                                                                                                                                                | Improved spacing of text                                                                                                                                                                                                                                                                                                                                              |
| 5.4                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 31 | Certification Requirements for Management and Leadership – added that evidence of an understanding of management structures and challenges of the health service should be <u>across relevant health services and the variations between nations</u> | In response to lay/patient feedback, there is a recognised need to strengthen trainees’ understanding of the structure and functioning of health systems across the UK. Knowledge limited to the trainee’s immediate training jurisdiction may not sufficiently prepare them for the realities of working within or alongside other devolved health systems.          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Additional editorial changes</b> <ul style="list-style-type: none"> <li>• Amended cover page and additional authors related to this curriculum update</li> <li>• Health Education England (HEE) replaced with NHS England (update)</li> <li>• HEE local offices removed (update)</li> <li>• Corrected hyperlinks (updates)</li> <li>• Minor changes in light of feedback – see summary of feedback</li> <li>• Minor typographical corrections</li> </ul> |    |                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                       |

## CONGENITAL CARDIAC SURGERY - SYLLABUS CHANGES

|            |         |                                                                                                                                                                 |                                                    |
|------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| Appendix 2 | 41      | Skill levels descriptors -<br>Level 4 exit descriptor updated to 'Is at the level at which one would expect a <i>day-one</i> UK consultant surgeon to function' | Consistent with outcomes-based curriculum standard |
|            | 45 / 46 | Under topic COARCTATION AND INTERRUPTED AORTIC ARCH spacing changed in two places                                                                               | Editorial improvement                              |
|            | 50      | Under PULMONARY ATRESIA WITH VSD, removal of # at the end of ' Management of post-operative care and common complications'                                      | Typographical correction                           |
|            | 59      | Case change for <u>MECHANICAL CIRCULATORY ASSIST</u> (LVAD/RVAD/BIVAD) to sentence case                                                                         | Typographical correction in two places             |

## SYLLABUS TOPICS

| Congenital Cardiac Surgery Sub-specialty |  |  |  |
|------------------------------------------|--|--|--|
| Fetal circulation & changes after birth  |  |  |  |
| Neonatal and infant physiology           |  |  |  |
| Paediatric intensive care                |  |  |  |

|                                                                             |  |  |  |
|-----------------------------------------------------------------------------|--|--|--|
| Morphology and sequential segmental analysis                                |  |  |  |
| Risk stratification and data collection                                     |  |  |  |
| Atrial septal defects                                                       |  |  |  |
| Patent ductus arteriosus                                                    |  |  |  |
| Coarctation and interrupted aortic arch                                     |  |  |  |
| Aortic valve disease                                                        |  |  |  |
| Sub-aortic stenosis                                                         |  |  |  |
| Supra-aortic stenosis                                                       |  |  |  |
| Congenital mitral valve disease                                             |  |  |  |
| Total anomalous pulmonary venous drainage                                   |  |  |  |
| Ventricular septal defects                                                  |  |  |  |
| Atrio-ventricular septal defects                                            |  |  |  |
| Fallot's tetralogy                                                          |  |  |  |
| Pulmonary atresia with vsd                                                  |  |  |  |
| Pulmonary atresia with intact ventricular septum                            |  |  |  |
| Transposition of the great arteries                                         |  |  |  |
| Transposition of the great arteries with vsd and pulmonary stenosis/atresia |  |  |  |
| Double-outlet right ventricle (dorv)                                        |  |  |  |
| Vascular rings                                                              |  |  |  |
| Arterial shunts                                                             |  |  |  |
| Cavo-pulmonary shunt                                                        |  |  |  |
| Fontan circulation                                                          |  |  |  |
| Hypoplastic left heart syndrome                                             |  |  |  |
| Aorto-pulmonary window                                                      |  |  |  |
| Truncus arteriosus                                                          |  |  |  |
| Anomalous left coronary artery from pulmonary artery (alcapa)               |  |  |  |

|                                                                                   |                             |                                                                                              |                                    |
|-----------------------------------------------------------------------------------|-----------------------------|----------------------------------------------------------------------------------------------|------------------------------------|
| Extra corporeal membrane oxygenation (ecmo) / extra corporeal life support (ecls) |                             |                                                                                              |                                    |
| Mecahnical circualtory assist (lvad/rvad/bivad)                                   | Topic titles<br>Pps 58 & 59 | MECAHNICAL to be changed to<br>MECHANICAL<br><br>CIRCUALTORY to be changed to<br>CIRCULATORY | Typographical<br><br>Typographical |
| Transplantation - optional module                                                 |                             |                                                                                              |                                    |
| Tracheal surgery                                                                  |                             |                                                                                              |                                    |
| Principles of adult congenital heart disease                                      |                             |                                                                                              |                                    |
| Pulmonary valve replacement                                                       |                             |                                                                                              |                                    |
| Right ventricle-pulmonary artery conduit replacement in the adult                 |                             |                                                                                              |                                    |
| Asd closure in the adult                                                          |                             |                                                                                              |                                    |
| Fontan conversion surgery                                                         |                             |                                                                                              |                                    |
| Transplantation in adults with congenital heart disease                           |                             |                                                                                              |                                    |