

Steps		YES/NO		Weight of step (1-5)	Included in HOST-CHS Holistic Score
1 Isolation of Pulmonary arteries from the truncal root					
1	Has a transverse incision been made along the anterior wall of the trunk?	Y	N	3	FLUENCY
2	i) Is this incision a safe distance away from the coronary ostia? (i.e. ~10mm superior to the sinotubular junction)	Y	N	5	RESPECT
3	ii) Is this incision clean (i.e. no jagged edges and perpendicular to the ascending aorta)?	Y	N	3	RESPECT
4	iii) Has the trunk been completely transected?	N	Y	2	RESPECT
5	Has this incision been extended on one side to create the PA button?	Y	N	4	KNOWLEDGE
6	i) Is the button a good size? (i.e. 5-7mm of cuff tissue around the PA ostia)	Y	N	4	RESPECT
7	ii) Have the branch PAs been damaged?	N	Y	5	RESPECT
2 Patch reconstruction of truncal root					
8	Has the patch been shaped in an oval shape and trimmed to accommodate the shape of the defect?	Y	N	3	KNOWLEDGE
9	Has the suture commenced at the apex of the incision and continued along the proximal end of cut trunk?	Y	N	3	FLUENCY
10	Has other end been sutured to complete the anastomosis of the patch?	Y	N	3	FLUENCY
11	Was the patch trimmed (if necessary) to ensure correct geometry of a pressurised aorta? (i.e. would slightly bulge)	Y	N	4	KNOWLEDGE
12	i) Are there any visible holes within the patch?	N	Y	4	RESPECT
13	Has another suture been used to directly close the anterior wall of the trunk and tied to the patch suture?	Y	N	3	FLUENCY
Suture assessment					
14	i) Are all the sutures evenly spaced from one another WITH a gap of 1-2mm between suture bites?	Y	N	3	FLUENCY
15	ii) Are all the sutures an adequate distance from the tissue edge (1-2mm)?	Y	N	3	FLUENCY
3 Right Ventriculotomy					
16	Has the incision commenced away from the truncal valve on the right ventricle and continued superiorly?	Y	N	5	KNOWLEDGE
17	i) Is the incision the correct length? (~15-20mm)	Y	N	4	RESPECT
18	ii) Has it stopped a safe distance away from the truncal valve? (~5mm)	Y	N	4	RESPECT
19	iii) Is this incision clean (i.e. no jagged edges and perpendicular to the ascending aorta)?	Y	N	3	RESPECT
4 VSD Closure					
20	Has the VSD patch been trimmed to the size of the defect?	Y	N	3	KNOWLEDGE
21	Has the anastomosis commenced from the ventricular septal crest along the inferior margin of the VSD towards the truncal valve?	Y	N	3	FLUENCY
22	Has the superior margin of the VSD been closed and towards the truncal valve?	Y	N	3	FLUENCY
23	Has the VSD closure been completed along the truncal valve?	Y	N	3	FLUENCY
24	i) Have any of the sutures gone beyond the truncal annulus (i.e. caught the truncal valve leaflets)	N	Y	5	RESPECT
25	ii) Are there any visible hole or tears within the VSD patch?	N	Y	4	RESPECT
Suture assessment					
26	i) Are all the sutures evenly spaced from one another WITH a gap of 1-2mm between suture bites?	Y	N	3	FLUENCY
27	ii) Are all the sutures an adequate distance from the tissue edge (1-2mm)?	Y	N	3	FLUENCY

5 Creation of RV to PA continuity					
28	Has an appropriately sized conduit been used to create the RV/PA continuity? (i.e. 8-10mm Gortex tube graft)	Y	N	3	KNOWLEDGE
29	Has the conduit been anastomosed to the PA button first?	Y	N	3	FLUENCY
30	i) Was the anastomosis commenced posteriorly?	Y	N	2	FLUENCY
31	Has the conduit been measured and trimmed to the correct length? (i.e. to end of RV ventriculotomy?)	Y	N	4	KNOWLEDGE
32	i) Has the proximal end of the conduit been laid open to cover the wide ventriculotomy?	Y	N	4	KNOWLEDGE
33	Has the suture commenced at the apex (i.e. superior end of the ventriculotomy) and continued until half way along the length of the ventriculotomy on both sides?	Y	N	3	FLUENCY
34	Has the end of the conduit been trimmed as a bevel to accommodate a filled ventricle?	Y	N	4	KNOWLEDGE
35	Is the conduit laying comfortably and not under tension?	Y	N	5	RESPECT
36	i) is the conduit kinked or twisted?	N	Y	5	RESPECT
Suture assessment					
37	i) Are all the sutures evenly spaced from one another WITH a gap of 1-2mm between suture bites?	Y	N	3	FLUENCY
38	ii) Are all the sutures an adequate distance from the tissue edge (1-2mm)?	Y	N	3	FLUENCY
TOTAL SCORE				134	