

Steps		YES/NO		Weight of step (1-5)	Included in HOST-CHS Holistic Score
1	Incision into the Ascending Aorta (Y-shaped)				
1	Has the incision been started high on the ascending aorta (>10mm above sinotubular junction)?	Y	N	4	KNOWLEDGE
2	Has this incision been extended proximally down into the middle of the non-coronary sinus?	Y	N	5	FLUENCY
3	Has the 'Y' incision been completed with an incision into the right coronary sinus?	Y	N	5	FLUENCY
4	i) Is this incision a safe distance away from the right coronary ostia (2-3mm)?	Y	N	5	RESPECT
5	Are all incision clean (i.e no jagged edges)	Y	N	3	RESPECT
6	Has the right coronary artery of aortic valve been damaged during the incisions?	N	Y	5	RESPECT
2	Patch trimming and anastomosis:				
7	Has the patch been shaped in a Y shape (with pen) and trimmed to accommodate the shape of the defect?	Y	N	2	KNOWLEDGE
8	Has the suture commenced at the apex of the commissure?	Y	N	3	FLUENCY
9	Does the suture continue down into the non-coronary sinus?	Y	N	3	FLUENCY
10	Has the other end of the suture continued into the right coronary sinus?	Y	N	3	FLUENCY
11	Have any of the sutures compromised the right coronary ostium (i.e. sutures placed <1mm away from or within ostium)	N	Y	5	RESPECT
12	Has the patch been trimmed if necessary to ensure correct geometry of a pressurized aorta?	Y	N	4	FLUENCY
13	Is the anastomosis of the patch complete?	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	Patch Assessment				
16	Is the patch the correct size for the defect?	Y	N	5	RESPECT
17	Would this patch bulge once pressurized without compressing adjacent structures?	Y	N	5	RESPECT
18	Has the aorta been reconstructed to its normal dimension?	Y	N	4	RESPECT
19	Are there any visible holes within the patch?	N	Y	5	RESPECT
20	Have any plication sutures been needed to make the patch smaller?	N	Y	4	RESPECT
TOTAL SCORE				79	