*Impact of simulator-based training in focused transesophageal echocardiography – a randomized controlled trial -* Electronic supplement

*Supplemental table 1: Detailed contents of study lectures*

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|  | Contents | time allocated to topic |
| lecture 1 | introduction (why TEE, indications, contraindications) | 10 minutes |
|   | physics of ultrasound, Doppler modes, artefacts, instrumentation (gain, focus, depth adjustments) | 15 minutes |
|   | TEE probe (handling, manoeuvres, safety) | 15 minutes |
|   | the basic perioperative toe examination encompassing 11 views | 5 minutes |
| lecture 2 | discussion and demonstration of every view including anatomy and acquisition  | 75 minutes |
|   | view quiz |   | 10 minutes |
| lecture 3 | left ventricular function and dimension (eyeballing, Simpson method, FAC, regional wall motion abnormalities) | 15 minutes |
|   | right ventricular function and dimension (FAC, TAPSE, eyeballing) | 10 minutes |
|   | aortic valve stenosis and aortic valve regurgitation | 15 minutes |
|   | mitral valve regurgitation | 10 minutes |
| lecture 4 | tricuspid valve regurgitation (measurement of RV/RA gradient using continuous wave Doppler) | 10 minutes |
|   | how to perform a standardized toe examination | 5 minutes |
|   | clinical cases with toe loops | 45 minutes |
|   |  | pericardial tamponade / pericardial effusion |   |
|   |  | hypovolemia |   |
|   |  | pulmonary embolus  |   |
|   |  | regional wall motion abnormalities  |   |
|   |  | aortic dissection  |   |
|   |  | aortic ulcera  |   |
|   |  | intracardiac thrombi  |   |
|   |  | mitral valve regurgitation  |   |
|   |  | echo guided placement of catheters into right atrium  |   |
|   |  | aortic valve stenosis and aortic valve regurgitation  |   |
|   |   | left ventricular failure  |   |

FAC, fractional area change; LV, left ventricle; RA, right atrium; RV, right ventricle; TAPSE,

tricuspid annular plane systolic excursion, TEE, transesophageal echocardiography