**APPENDIX 1**

**CARPREG I predictors for maternal cardiovascular events**

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| Prior cardiac event (heart failure, transient ischaemic attack, stroke before pregnancy or arrhythmia)Baseline functional class NYHA > II or cyanosis Left heart obstructionReduced systemic ventricular systolic function (ejection fraction < 40 %) |
| CARPREG I risk score: for each CARPREG predictor that is present a point is assigned.Risk estimation of cardiovascular maternal complications0 point 5 %1 point 27 %> 1 point 75 % |

**Modified WHO score (mWHO)**

mWHO 1: no increased risk of maternal mortality and no/mild increase in morbidity

mWHO 2: small increased risk of maternal mortality or moderate increase in morbidity

mWHO 3: significantly increased risk of maternal mortality or severe morbidity

mWHO 4: extremely high risk of maternal mortality or severe morbidity; pregnancy contraindicated

**mWHO 1**

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| Uncomplicated, small or mild* Pulmonary stenosis
* Ventricular septal defect
* Patent ductus arteriosus
* Mitral valve prolapse with mid mitral regurgitation

Successfully repaired simple lesions* Ostium secundum atrial septal defects
* Ventricular septal defects
* Patent ductus arteriosus
* Total anomalous pulmonary venous drainage

Isolated ventricular extrasystoles and atrial ectopic beats |

**mWHO 2** (if otherwise well and uncomplicated)

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| Unoperated atrial septal defect Repaired tetralogy of FallotMost arrhythmias |

**mWHO 2-3** (depending on individual)

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| Mild left ventricular impairmentHypertrophic cardiomyopathyNative or tissue valve disease, not considered WHO 4Marfan syndrome without aortic dilatationHeart transplantationAorta < 45 mmin aortic disease associated with bicuspid aortic valveRepaired coarctation |

**mWHO 3 (high risk for maternal morbidity)**

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| Mechanical valveSystemic right ventriclePost Fontan operationCyanotic heart diseaseOther complex congenital heart diseaseAortic dilatation 40-45 mm in Marfan syndromeAortic dilatation 45-50 mm in aortic disease associated with bicuspid aortic valve |

**mWHO 4 (pregnancy not recommended)**

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| Pulmonary arterial hypertension of any causeSevere systemic ventricular dysfunction * NYHA III-IV or LVEF < 30 %

Previous peripartum cardiomyopathy with any residual impairment of left ventricular functionSevere left heart valve obstructionMarfan syndrome with aorta dilated > 45 mmAortic dilatation > 50 mm in aortic disease associated with bicuspid aortic valveNative severe coarctation |