

Additional file 1 - Variables of the four models and source of information

Type of variable	source	Model 1	Model 2	Model 3	Model 4
Socio-demographic	HDR	age	age	age	Age
Socio-demographic	BC				Citizenship Marital status Education of mother, father
Clinical	HDR	HIV Diabetes Hypertension Lung Thyroid diseases Genital Herpes Other severe comorbidities of the mother Substance abuse Ante-partum haemorrhage / abruption / Placenta Praevia Eclampsia/Pre-eclamps Cephalopelvic disproportion RH-Isoimmunisation Polyhydramnios Oligohydramnios Premature rupture of the membranes Other problems of the amnios Cord prolapse Abortion threads /assisted fecundation Intrauterine growth retardation Multiple pregnancy Malpresentation Foetal abn affecting mother	HIV Diabetes Hypertension Lung Thyroid diseases Genital Herpes Other severe comorbidities of the mother Substance abuse Ante-partum haemorrhage / abruption / Placenta Praevia Eclampsia/Pre-eclamps Cephalopelvic disproportion RH-Isoimmunisation Polyhydramnios Oligohydramnios Premature rupture of the membranes Other problems of the amnios Cord prolapse Abortion threads /assisted fecundation Intrauterine growth retardation Multiple pregnancy Malpresentation Foetal abn affecting mother	HIV Diabetes Hypertension Lung Thyroid diseases Genital Herpes Other severe comorbidities of the mother Substance abuse Ante-partum haemorrhage / abruption / Placenta Praevia Eclampsia/Pre-eclamps Cephalopelvic disproportion RH-Isoimmunisation Polyhydramnios Oligohydramnios Premature rupture of the membranes Other problems of the amnios Cord prolapse Abortion threads /assisted fecundation Intrauterine growth retardation Multiple pregnancy Malpresentation Foetal abn affecting mother	HIV Diabetes Hypertension Lung Thyroid diseases Genital Herpes Other severe comorbidities of the mother Substance abuse Ante-partum haemorrhage / abruption / Placenta Praevia Eclampsia/Pre-eclamps Cephalopelvic disproportion RH-Isoimmunisation Polyhydramnios Oligohydramnios Premature rupture of the membranes Other problems of the amnios Cord prolapse Abortion threads /assisted fecundation Intrauterine growth retardation Multiple pregnancy Malpresentation Foetal abn affecting mother
	BC			Previous abortion, previous still dead Foetal weight Foetal malformation Gestational age Parity	Previous abortion, previous still dead Foetal weight Foetal malformation Gestational age Parity
Clinical	HDR previous hospitalization		HIV Diabetes Hypertension Lung Thyroid diseases Other severe comorbidities of the mother	HIV Diabetes Hypertension Lung Thyroid diseases Other severe comorbidities of the mother	HIV Diabetes Hypertension Lung Thyroid diseases Other severe comorbidities of the mother