

Supplement 2. Characteristics of individual or part of international initiatives, pregnancy or birth cohort studies (n=75), in the MEA region.

Country	Study Coding	Enrollment Period	Study Population	Objectives	Data Collection	Data Collection Timepoints		Biological Samples		Follow Up	Source
						Prenatal	Postnatal	Mother	Child		
Iran	IR2	2007-2008 (*)	1291	Mental health/BO	Q, BDI II, EPDS/BO	✓	✓	-	-	3rd trimester, at delivery & 6-8 weeks after birth (maternal FU)	(83)
	IR12	2012-2013	2,199	Mode of delivery	Q	✓	NA	-	-	1 month after birth (maternal FU)	(84)
	IR13	2009	2,279	Depressive symptoms	Q, EPDS, GHQ, SSA, NOS	✓	✓	-	-	Pregnancy, 2 and 12 weeks (maternal FU)	(85)
	IR14	NA	576	Pregnancy BMI and BO	BO, Q	✓	-	-	-	Pregnancy, birth (maternal FU)	(86)
	IR15	NA	600	Thyroid function and PO	BO, Apgar Score, Blood tests, pregnancy complications	✓	✓	✓	-	Pregnancy, birth (maternal FU)	(87)
	IR16	2012 (*)	170	The accuracy of TCB measurement	TCB, BO	-	✓	✓	✓	Birth, neonatal phase	(88)
	IR17	2007-2010	81	Levothyroxine dosage in pregnancy	Pregnancy outcomes, blood test	✓	✓	✓	-	Pregnancy, Birth, 1 month (maternal FU)	(89)
	IR18	2008-2009	778	Preeclampsia/BO	Q, BP, BW	✓	✓	✓	-	Birth	(90)
	IR19	2011-2012 (*)	500	SD & BO	Q, SD	✓	✓	-	-	Birth	(91)
	IR20	2008-2009	81	Tracheal aspire	BT, BW	-	✓	-	-	Birth	(92)
	IR21	2011-2012 (*)	404	Maternal Hyperuricemia, BO,	Q, Medical Records, BO	✓	✓	✓	✓	Birth	(93)
	IR22	2000-2002	95	Perinatal Morbidity	BO	-	✓	-	✓	Birth	(94)
	IR23	NA	276	Macrosomia	BO	NA	✓	-	-	Birth	(95)
	IR24	NA	1000	threatened pregn/BO	BO	✓	-	-	-	Pregnancy up to Birth	(96)
	IR25	2010	114	STT,BW	BO	✓	✓	-	-	Birth	(97)
	IR26	NA	300	BO following previous spontaneous abortion	Q, Apgar, BO	✓	✓	-	-	Pregnancy up to Birth	(98)
	IR27	1999-2001	1300	GDM/BO	BP, GCT, OGTT, BO	✓	✓	✓	-	6 weeks after birth (maternal FU)	(99)
	IR28	2002-2007	44	Anticoagulants/BO	BO	✓	✓	-	-	Birth	(100)
	IR29	2008-2010	170	BO for twins	Q	✓	✓	-	-	Birth	(101)
	IR30	2008-2010	440	Hypertriglyceridaemia, pre-eclampsia, preterm birth, GDM, uterine artery, pulsatility index	Lipid profile, BO, Q	✓	✓	✓	-	Birth	(102)
IR31	2006-2008	137	PPROM	BO, Apgar	-	✓	-	-	Birth	(103)	
IR32	2012-2013	500	Women psychosocial risk factors, Prematurity	Q, BO	-	✓	-	-	Birth	(104)	
IR33	2008-2010	1840	Opium use during pregnancy	BO, medical records, Q	✓	-	-	-	Birth	(105)	
IR34	2015-2016	133	Assisted Reproductive technology	BO, Serum Estradiol, Serum progesterone	✓	✓	✓	-	Pregnancy, at delivery	(106)	
IR36	2014-2017	574	Obstetric and perinatal outcomes of GDM achieved by ART and SC	BO, oral glucose tolerance test, pregnancy complications	✓	✓	✓	-	Pregnancy, At Delivery	(107)	
IR39	2012-2017	4729	Hearing screening outcomes combined with thyroid screening	AABR, TEOAE, thyroid screening	-	✓	-	✓	in the hospital:48 h after birth,	(108)	

										in the centers: 72 h to 5 days	
	IR40	2015-2016	120	Effect of well controlled GDM on morphological and functional myocardium	Standard Echocardiography, TDI, PWD, fasting blood sugar, HbA1c, Maternal BMI	-	✓	✓	-	3-5 days after birth	(109)
	IR41	2013-2015	2086	Complications in scheduled cesarean section	Maternal demographics, ultrasonography, BO: TTN, RDS, sepsis, NICU, Apgar	-	✓	-	-	Birth	(110)
	IR42	2015	191	SNAP II and SNAPPE scores in predicting the BO	Neonatal demographics, SNAP II and SNAPPE	-	✓	-	✓	Birth	(88)
	IR43	2015-2016	305	Maternal lipid profile and fetal macrosomia	Maternal demographics, lipid profile, insulin, birth weight, fetal macrosomia	✓	✓	✓	-	Pregnancy (24-28 weeks, last weeks of pregnancy), Birth	(111)
	IR44	2014-2015	2051	Prenatal care utilization	Parental socio demographics, PNCVs (Time, place, care providers, out of pocket costs), number of alive children, type of birth	✓	-	-	-	Pregnancy	(112)
	IR45	2014	178	Maternal vitamin D level, glucose and insulin levels impact on BO	Maternal characteristics, anthropometric measurements of newborns, vitamin D, fasting serum glucose, Insulin levels	✓	✓	✓	✓	24-28 weeks of gestation, delivery, birth	(113)
	IR48	2014-2015	672	Incidence and risk factors of acute mastitis and breastfeeding duration	Participant characteristics, Mastitis Glasgow study and Perth Infant Feeding studies questionnaires	-	✓	-	-	1,3,4 and 6 months post-partum	(114)
	IR50	2016-2017	NA	Air pollution, epigenetic modifications and pregnancy outcomes	A maternal health history questionnaire, mothers' blood for biochemical and DNA methylation analyses, cord blood for biochemical, gene expression, and DNA methylation analyses, BO	✓	✓	✓	-	Pregnancy, Birth	(115)
Israel	IL8	2004-2008	243	Nulliparity, fertility treatments, twins	BO	✓	✓	-	-	Birth	(116)
	IL9	2014 (*)	117	Pelvic floor disorders	PFDI-20 Questionnaire, Q	-	-	-	-	At birth and 3 months (Maternal FU)	(117)
	IL10	NA	300	Female sexual function, postpartum depression and childbirth	FFDS, BDI, TE, SE, SBE questionnaires	-	-	-	-	1 and 6 months (maternal FU)	(118)
	IL11	1990-1994	476	Factors affecting development of chronic hypertension	Q, medical records	✓	✓	-	-	23 years (maternal FU)	(119)
	IL12	NA	171	Post-traumatic stress disorder in relation to childbirth	Q	-	✓	-	-	Birth, 6 and 8 weeks (maternal FU)	(120)
	IL13	2001-2002	134	IVF treatment	Q	✓	-	-	-	11 years (maternal FU)	(121)
	IL14	NA	219	Antenatal Anxiety and BO	BO, Beck Anxiety Inventory, pregnancy complications	✓	✓	-	-	Birth (maternal FU)	(122)
	IL15	2005-2012	1217	Pre-implantation genetic diagnosis/BO	Medical records, BO	✓	✓	-	-	2-4 months after birth	(123)

	IL16	NA	371	Bilirubinometry, total serum bilirubin, phototherapy	TcB measurements, TsB nomograms, BO	-	✓	-	✓	Birth	(124)
	IL17	2002-2003	134	GDM, BO	BO	✓	✓	✓	-	Birth	(125)
	IL18	1995-1999	5594	LBW-Neonatal Morbidity, BO	BO	-	✓	-	-	Birth	(126)
	IL19	2004-2008	128	BO for twins	BO, UT	✓	✓	-	-	Birth	(127)
	IL20	2013(*)	81	Effect of CEA on Meconium –stained amniotic fluid	Serum samples, amniotic fluid, CEA	-	-	✓	-	Birth	(128)
	IL21	NA	74	Multifetal pregnancy reduction	Pregnancy complications, BO	✓	✓	-	-	Birth	(129)
	IL26	2014	512	Maternal anxiety propensity- and its association with adverse pregnancy outcome	Demographic, T-Anxiety Scale of the STAI, adverse pregnancy outcome	✓	-	-	-	24 to 40 gestational weeks	(130)
	IL29	1974-2015	201048	Maternal exposure to terror attacks during pregnancy and the risks of schizophrenia in the offspring	Maternal exposure to terror attacks during pregnancy if a terror occurred in the interval from 270 days before the birth date of the offspring	-	✓	-	-	Birth	(131)
	IL30	2011-2015	62001	Perinatal outcomes	BO, Characteristics of women visiting community clinic	✓	✓	-	-	Pregnancy, birth	(132)
	IL 35	NA	199	Normal SpO2in healthy term newborns at mild altitude	Pulse oximetry, date time, exact age (in hours), infant state of activity, gestational age, birth weight, Apgar score, heart rate, BO	-	✓	-	-	Birth, 24-72 h after deliver	(133)
Lebanon	LB1	2008	402	Fasting, Prematurity	BO	✓	✓	-	-	Birth	(134)
Syria	SY1	2000-2002	500	BO	Medical records, BO	✓	✓	-	-	Birth	(135)
Jordan	J2	NA	21928	Neonatal mortality risk factors	BO	-	✓	-	-	28 days after birth	(136)
	J3	NA	171	Vitamin D deficiency	BO, Mode of feeding, Blood tests	-	✓	-	✓	1 and 6 months after birth retrospective study from medical records	(137)
Kuwait	KW3	1996-1997	234	BO, Prematurity	BO, BW	✓	✓	-	-	Birth	(138)
	KW4	2013-2014	203	Vaginal birth after caesarean	Q, delivery mode	-	-	-	-	Birth	(139)
Oman	OM1	NA (1 year)	126	Protein Z, BO	Protein Z, BO	✓	✓	✓	-	Birth	(140)
	OM2 (Intergrowth 21st project)	2006	NA	International Initiative	BO	✓	✓	✓	✓	Birth	(141)
Palestine	PS1	2008-2011	252	Breastfeeding	BO, BW	-	✓	-	-	Birth	(142)
	PS2	2013-2015	101	Postpartum depression	BO, Q, EPDS	-	✓	-	-	1,2 and 6 weeks, 3 and 6 months after birth (maternal FU)	(143)
	PS3	2011-2012 (*)	1583	Maternal morbidities	Medical records	✓	✓	-	-	Birth, 7 days post-partum (maternal FU)	(144)
	PS5	2015-2016	32321 (2932 emergency C-section)	Rates and odds for emergency caesarean section among singleton pregnancies	Sociodemographic, antenatal obstetric characteristics, mode of delivery prospectively	✓	-	-	-	Pregnancy, delivery	(145)
Kingdom of Saudi Arabia	KSA5	2007	787	Maternal BMI	BO	✓	✓	-	-	Birth	(146)
	KSA6	2012 (*)	300	Nutritional status of LBW infants	BO, Q, Blood tests,	-	✓	-	✓	Neonatal Phase	(147)
	KSA7	2012-2013	150	Prevalence and Antibiotic resistant profile	BO, Fecal samples	-	✓	-	✓	Neonatal Phase	(148)
	KSA8	2007-2012	30632	Prevalence of congenital anomalies	BO, medical records, ultrasound, Karyotyping, amniocentesis	✓	✓	✓	✓	Pregnancy, Neonatal Phase	(149)

	KSA10	2010-2014	495	Compare the effectiveness of the Sitz bath method with an ano-rectal cream	Outcome of the conservative treatment protocol	✓	-	-	-	Maternal follow up T1-T3	(150)
United Arab Emirates	UAE3	NA	6901	BO	BO, BW, Meconium	-	✓	-	✓	Birth	(151)
Collaboration between countries	Kuwait/ UAE/ KSA	2013-2015	67474	Early onset sepsis in Gulf region	BO, Q, pregnancy complications	-	✓	-	✓	Neonatal Phase	(152)
Qatar	QA3	2015-2016	219	Safety and efficacy of using metformin in comparison to insulin	Antepartum, intrapartum and postpartum demographics, HbA1c, BMI, BO	✓	✓	✓	-	Pregnancy, delivery	(153)
	QA4	2014-2016	80	Asthma care and control during pregnancy	Assesment of asthma control, and inhaler technique, pregnancy outcome, barriers to asthma control	✓	✓	-	-	Mother: pregnancy and 6 months post-partum. Child: Birth	(154)
Yemen	YM1	2015-2016	980	Perinatal mortality rate (PNMR) and identify the potential risk of perinatal death	Sociodemographic characteristics, BO,	✓	✓	✓	-	Pregnancy (monthly follow up by telephone), child: Birth, First 7 days of life.	(155)
	YM2	2013-2014	303 (101 cases stillbirths, 202 controls (singleton live birth))	Maternal, newborn, and service related risk factors for stillbirths	Demographic characteristics, medical history, BO	-	✓	-	-	Birth	(156)

Note. (*) enrollment duration <1 year Abbreviations: Q: Questionnaires; BO: Birth Outcomes; BP: Blood Pressure; BW: Birth Weight; SD: Socio-Demographics; EPDS: Edinburgh Postnatal Depression Scale; GHQ: General Health Questionnaire; BMI: Body Mass Index; BT: Body Temperature; NA: Not Available; SSA: Social Support Appraisal; STT: Soft Tissue Thickness; GDM: Gestational Diabetes Mellitus; OGTT: Oral Glucose Tolerance Test; ART: Assisted Reproductive Technology; SC: Spontaneous Conception; AABR: Automated Auditory Brainstem Response; PPRM: Preterm Premature Rupture of Membranes; UT: Ultrasound; CEA: Carcinoembryonic Antigen; TCB: Transcutaneous Bilirubinometry; TEOAEs: Transient Evoked Otoacoustic Emissions; TDI: Tissue Doppler Imaging; TTN: Transient Tachypnea of the Newborn; RDS: Respiratory Distress Syndrome; TE: Traumatic Events; PWD: Pulse Wave Doppler; NICU: Neonatal Intensive Care Unit; PO: Pregnancy Outcomes; PNCVs: Prenatal Care Visits; PFDI: Pelvic Floor Disorders Index-20; SBE: Survey Subjective Birth Experience Questionnaire; IVF: In Vitro Fertilization; SNAPII: Neonatal Score for Neonatal Acute Physiology; SNAPPE: Neonatal Score for Neonatal acute Physiology and Perinatal Factors; STAI: State Trait-Trait Anxiety Inventory; NOS, Network Orientation Scale.