## Supplement 1. Characteristics of individual or part of international initiatives, mother-child cohort studies (n = 42), in the MEA region

Country	Study Coding	Enrollment Period	Study Population		Objectives	Data Collection	Data Collection Timepoints		Biological Samples		Follow Up	Source
	g		Children	Mother			Prenatal	Postnatal	Mother	Child		
Iran	IR1	2008-2009	( <b>n</b> ) 50	(n) NA	Prematurity/LBW	во	-	~	-	-	At delivery, 6 & 12 months after birth	(41)
	IR3	2003 (*)	321	NA	Infantile Colic	во	_	-	-	-	At delivery & 12 weeks after birth	(42)
	IR4	2007 (*)	1750	NA	LBW/Mortality	во	-	~	-	-	At delivery & 28 days after	(43)
	IR5	2013-2016	92,521	NA	Neonatal Hearing Screening	TEOAEs	-	~	-	-	birth At delivery and after birth	(44)
	IR6	2011-2014	499	NA	Evaluate strategies of initial respiratory support in VLBW NICU	BO, Pregnancy Complications (*)	-	~	-	-	At delivery & after birth, during hospitalization in NICU	(45)
	IR7	2011-2012	2,115	NA	Compare the efficacy of an internet based versus traditional referral system for retinopathy of prematurity screening	BO, screening for retinopathy of prematurity	_	~	_	-	At delivery & 5, 9, 30, 38 weeks after birth	(46)
	IR8	2006-2013	85	NA	Serum IL-1b and IL-6 as diagnostic values, perinatal asphyxia and NO	BO, Apgar Score, Blood tests	_	√	-	~	At delivery & after birth, during hospitalization in NICU	(47)
	IR9	NA	1,932	NA	Retinopathy of prematurity guidelines	BO, screening for retinopathy of prematurity	-	~	-	-	At delivery & 4 weeks after Birth	(48)
	IR10	NA	58	NA	Indices of metabolic bone diseases	BO, Blood tests, x-ray,	-	~	-	~	At delivery & up to 12 weeks	(49)
	IR11	2004	256	247	Growth factors	BO, Q, Anthropometric measurements	-	~	-	-	At delivery & up to 5 years	(50)
	IR35	2014-2016	438	438	Growth pattern of GDM exposed off-spring's	BO, maternal demographic characteristics, IADPSG criteria	-	~	-	~	At delivery, 2,4,6,9,12,15,18, &24 months	(51)
	IR37	NA	NA	NA	Maternal-fetal attachment during pregnancy and post-partum	Maternal demographic, BDI, SSTAI, SSA, AAS, PBI, CMFAS, Avant's questionnaire of Mother-Infant Attachment Behaviors, Muller's Mother-Infant attachment	~	V	-	-	Pregnancy, at delivery, at 2,4, 6 months after birth	(52)
	IR38	2012	566	NA	Growth factors	Maternal demographic, neonate's health status, anthropometric measurements	-	~	-	-	Birth, 1, 2, 4, 6, 9, 12, 18, 24, 36 and 48 months	(53)
	IR46	2012-2016	307	307	Association of obesity pre-pregnancy with depression	Demographic and midwifery questionnaire, EPDS	~	~	-	-	Pregnancy, 6-8 weeks and 12 months after delivery	(54)
	IR47	2011-2017	NA	6921	Early life exposure and early life diseases.	Socio economic status, parental medical history, maternal mental health, delivery type, child physical activity	~	~	-	-	Pregnancy, 8 weeks after delivery, 6 months after birth, at 2 years, at 5 years and then every two years until the age of 12 years.	(55)
	IR49	2016-2018	NA	1000	Effect of pregnancy exposure and post-partum on mother and child health.	Socio demographics, DASS-21, GHQ-12, child medical history (hospitalization, diseases, ultrasound), child neurological and physical development	4	4	✓	-	Pregnancy, birth, 1,6, and 12 months post-partum	(56)
Israel	IL1	1992-1997	307	NA	GR/ND	BO, ND, GR	~	~	~	-	At delivery & 2, 6 & 9 years	(57)

	IL2	1994-1997	164	NA	Breastfeeding/ Infection	Nutrition, infection, BO	~	~	-	~	At birth up to 2 years	(58)
	IL3	2004-2008	13,324 (13,019 completed the study)	NA	Allergies/Cow's milk	Nutrition, Allergic tests	-	~	-	-	At delivery & 48-60 months after birth	(59)
	IL4	2006-2008	NA	1161	Mental health/BO	Q	~	~	-	-	1 <sup>st</sup> trimester till 6 weeks after birth	(60)
	IL5	1991-2013	225,260	NA	Early term delivery and metabolic health	BO, metabolic health	-	~	NA	NA	At birth & up to 18 Years	(61)
	IL6	2005-2013	149	NA	Antiviral treatment in cCMV Hearing impairment	Clinical, laboratory, radiological and audiological data	-	~	-	NA	At birth, >1 year	(62)
	IL7	NA	122	NA	Haptoglobine (Hp) phenotype and sepsis incidence	Hp, clinical	-	~	-	~	Birth and neonatal phase	(63)
	IL27	1991-2014	240953	240953	Pediatric respiratory morbidity	Demographics, pregnancy complications, BO, respiratory morbidity, hospitalization related to respiratory diagnosis	-	~	-	-	Birth to 18 years	(64)
	IL28	2016-2017	342	342	Birth beliefs translated into birth preference and actual birth related options	Socio demographic and obstetric history at T1, Birth Beliefs scale, preferred and actual place, mode of birth, natural birth related options.	V		-	-	Mother: pregnancy, and 2 months post-partum	(65)
	IL31	2009-2011	564	NA	Infants growth and vaccination schedule	Maternal Characteristics, BO, developmental milestone achievements, immunization adherence, hemoglobin.	-	~	-	~	Child: 2 weeks, 1,2,4,6,9,12,18 and 24 months	(66)
	IL33	1998-2017	750,000	NA	Environmental exposures and fetal growth	Demographic data of the newborn, father and mother. Urine, serum and blood sample.	~	~	~	-	Pregnancy, Delivery, 20 years	(67)
	IL34	1991-2013	232,281	NA	Children with isolated single umbilical artery (iSUA) and long-term pediatric hospitalizations due to respiratory morbidity.	Characteristics of pregnancies with and without iSUA, incidence of respiratory related hospitalization in children.	-		-	-	Birth, up to age 18	(68)
Jordan	J1	2010-2011	3,889	4322	Vitamin D deficiency	BO, Q, Blood tests	-	~	-	~	Neonatal Phase	(69)
	J2	2015	NA	150	Maternal learning needs and concerns after giving birth	Maternal demographics, BO	-	~	-	-	24h after giving birth, 6-8 weeks post-partum	(70)
Kingdom of Saudi Arabia	KSA1	NA	288	NA	Sickle cell disease	во	-	~	-	~	At delivery & 4 years	(71)
Sauui Af abia	KSA2	2013-2015	NA	14,568	Cohort profile, effects of non-communicable diseases	BO, Q Blood tests	~	*	~	-	During pregnancy & after birth	(72)
	KSA3	2011-2014	1124	1,124	Pregnacy outcomes (GDM)	Q, BO, Apgar score, Pregnancy complications, Blood tests	~	~	~	~	Pregnancy, birth and neonatal phase	(73)
	KSA4	2010-2013	28646	NA	Fetal and neonatal malformations	BO, Q, fetal measurements (echocardiography, karyotyping, MRI)	~	~	-	V	Pregnancy, birth and neonatal phase	(74)
	KSA9	2015	330	NA	Neonatal Acute Kidney Injury	BO, Demographic data, baseline and maximum SCr, CRIB II, Apgar scores,	-	~	-	~	Neonatal	(75)
Kuwait	KW1	2007-2008	NA	373	Breastfeeding	BO, Maternal health	-	~	-	-	At delivery and 6, 12, 18 & 26 weeks after birth	(76)
	KW2	2012-2015	2079	NA	Prenatal risk factors for early childhood obesity	BO, Q	~	<ul> <li>✓</li> </ul>	~	~	All three trimesters during pregnancy & 3 months, 3 years after birth	(77)

Qatar	QA1	2017-	3000	3000	Maternal and child	BO, Apgar Score,	✓	✓	✓	~	Pregnancy, birth, neonatal	(78)
		Present			Heallth	Biological					phase (planned FU up to 5	
						samples, Q, PDS,					years)	
						neurodevelopment,						
						colostrum,						
						ultrasound						
United Arab	UAE1	NA	221	NA	Breastfeeding	Breastfeeding	NA	~	-	-	At delivery & 1 month after	(79)
Emirates											delivery	
	UAE2	2002 (*)	NA	125	Infant feeding	Q, BO	-	~	-	-	At delivery & 3, 6, 15 months	(80)
					pracices						after birth	
	UAE4	2002	NA	205	General health of	BO, Maternal	-	~	-	-	Birth, 3, 6 and 15 months	(81)
					infants	characteristics of						
						car transportation,						
						frequency of infant						
						health problems, of						
						infant medications,						
						utilisation of						
						medical facilities						
						for care						
Collaboration	Qatar/	2015-	NA	500	Effect of nutrition on	BO, Q, Blood tests	~	~	~	-	During pregnancy, at delivery	(82)
between	Lebanon	Present			health						& 4, 6, 9, 12, 18, 24 months	
countries											after birth	

Note. (\*) enrollment duration <1 year

(#) Pregnancy complications: infertility, preeclampsia, premature rupture of membrane, diabetes, placenta abruption, chorioamnionitis

Abbreviations: BO: birth outcomes; LBW: low birth weight; VLBW: Very low birth weight; NICU: Neonatal Intensive Care Unit; GDM: Gestational Diabetes Mellitus; Q: Questionnaires; BDI II: Persian version of Beck Depressive Inventory II; EPDS: Edinburgh Postnatal Depression Scale; GHQ: General Health Questionnaire; SSA: Social Support Appraisal; NOS: Network Orientation Scale; GR: Growth Restriction; TEOAEs: Transient Evoked Otoacoustic Emissions; NO: Neurological Outcomes; ND: Neurodevelopment; BMI: Body Mass Index; NA: Not Available; PO: Pregnancy Outcomes; cCMV: Congenital Cytomegalovirus; FFSD: Female Sexual Distress Scale-Revised, BDI: Beck Depression Inventory; TE: Traumatic Events; SE: Sexual Experiences; SBE: Survey Subjective Birth Experience Questionnaire; DASS-21: Depression-Anxiety-Stress Scale; GHQ-12: 12 Items General Health Questionnaire; iSUA: Isolated Single Umbilical Artery; SSTAI: Spielberger State Trait Anxiety Inventory; AAS: Adult Attachment Scale; PBI: Parental Bonding Instrument; CMFAS: Cranley's Maternal Fetal Attachment; IADPSG: International Association of Diabetes and Pregnancy Study Groups; MRI: Magnetic Resonance Imaging; CRIB II: Clinical Risk Index for Babies.