

NINFEA cohort – Italy: www.progettoninfea.it

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Cohort summary

- Years of recruitment: 2005+ → Recruitment is ongoing
- Number of live births at baseline: 7500 expected at the end of recruitment
- Follow up status: At present, the oldest child is aged 6 years
- Methods: Web-based birth cohort
- Questionnaires:
 - i) during pregnancy, ii) 6 months after delivery, iii) 18 months after delivery, iv) 4 years after delivery, v) 6.5 years after delivery (planned)
- Source population: The study involves advertisement in national websites and forums targeted at pregnant women and active advertisement in the Piedmont Region and the Tuscany Region through collaboration with the maternity units and family planning and antenatal clinics
- Website: www.progettoninfea.it

Update: Primary outcomes

- NINFEA is a multi-purpose cohort
- Ascertainment of cancer cases: 1) Regional/local Cancer Registries; 2) Hospital records and clinical registries. Not started yet.
- Other outcomes: Growth, cognitive development, respiratory health, male health, etc.

Update: Progress to date

- Enrollment and follow-up until September 12, 2011:
 - 4263 recruited pregnant women
 - 2896 completed 6-month questionnaire
 - 2017 completed 18-month questionnaire
 - 617 completed 4-year questionnaire
- The 6.5 year questionnaire is under development. Main focus: respiratory diseases
- Collection of saliva samples (using Oragene kits) has started in October 2009. At present, saliva has been collected from 1200 mother-child pairs

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REFERENCE: Richiardi L, Baussano I, Vizzini L, Douwes J, Pearce N, Merletti F. Feasibility of recruiting a birth cohort through the Internet: the experience of the NINFEA cohort. Eur J Epidemiol 2007;22:831-7.

Biospecimens

SAMPLE	TIMING (Indicate YES (Y) or NO (N) AND weeks gestation/months of age)			CONDITIONS OF STORAGE	MONTHS SINCE STORED	BRIEF DESCRIPTION OF COLLECTION METHOD	TOTAL NUMBER OF SAMPLES COLLECTED	NUMBER OF SAMPLES AVAILABLE SEPT 2011
	Prenatal (Mother)	At birth (Mother/Child)	First year of life (Child)					
Blood	N	N	N					
Serum	N	N	N					
Urine	N	N	N					
Saliva	N	Y (6-months after delivery)	Y	Aliquots of saliva stored at -80 C	Collection is ongoing	Mailed Oragene kits	Expected at the end of recruitment: 4000 mother – child pairs	1200 maternal samples 1200 child samples
Buccal swab	N	N	N					
Vaginal swab	N	N	N					
Cord blood	N	N	N					
Blood spots	N	N	N					
Placenta	N	N	N					
Meconium	N	N	N					
Hair sample	N	N	N					
Nail sample	N	N	N					
Breast milk	N	N	N					
Milk teeth	N	N	N					

Environmental samples

SAMPLE	COLLECTED (YES/NO)	TIMING OF SAMPLE COLLECTION (weeks gestation / months of age)		CONDITIONS OF STORAGE	MONTHS SINCE STORED	TOTAL NUMBER OF SAMPLES COLLECTED	NUMBER OF SAMPLES AVAILABLE SEPT 2011
		LOCATION OF SAMPLE COLLECTION (e.g. child's bedroom)					
		Prenatal	First year of life				
Indoor air sample	N						
Dwelling dust collection	N						
Soil sample	N						
Drinking water	N						
Hair sample from pets	N						
Others: <i>specify</i>	N						

Geographic Information Systems (GIS):

Geocoded residential histories collected during pregnancy and updated 6 months, 18 months and 4 years after delivery.

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