

SAMPLES COLLECTED IN THE BARWON INFANT STUDY

| TYPE OF SAMPLE | VOLUME/SIZE OF SAMPLE | NUMBER |
|------------------|--|---|
| Cord blood | 50ml | (1 sample per infant) 1250 total |
| Cord section | Approx. 1cm long section | (1 sample per infant) 1250 total |
| Placental tissue | Approx. 0.5-0.8cm ² per sample | (4 samples per infant) 5000 total |
| Blood | 10ml (mother) at 28 weeks pregnancy 5-10ml (infant) at 6 & 12mths & 10-20ml (child) at 4 years of age | 2 samples* per infant at 6mths & 12mths / 1 sample per mother= 3750 & 1 optional sample** per infant at 4 years of age= <700 |
| Meconium | 1.5ml | (1 sample per infant) 1250 total |
| Stool | 1.5ml | (3 samples per infant at 1, 6 & 12 months & 1 additional 3mth sample for preterm infants only 1 sample per mother) Total ~5070 samples & (1 sample per infant at 2yrs) Total ~800 samples at 2yrs of age & 1 sample per infant at preschool age= ~700 Total= 6570 |
| Urine | 10ml (mother)/1.5ml (infant) & Up to 10ml (child) at 2 & 4 years of age | (1 sample per mother, 2 samples per infant at 1mth & 12mths) Total 2800 samples up to 12months of age & (1 sample per infant at 9 months of age for subsample participating in Optional 'Home Visit' (10/24 S3) ~361 total) & (1 sample per infant at 2yrs) Total ~800 samples at 2yrs of age & 1 sample per infant at 4 years= ~700 Total= 5100 |
| Hair | Small locket of hair (mother)/ Approx. 5 hair strands (infant) | (1 sample per infant/ 1 sample per mother) Total 2800 samples up to 12months of age & (1 sample per infant at 9 months of age for subsample participating in Optional 'Home Visit' (10/24 S3) ~361 total) & (1 sample per child at 2yrs) Total ~800 samples at 2 year review) TOTAL=4400 |
| Breast Milk | 20-50 ml | 1 sample per mother at 4 weeks, 6 and 12 months (if mother is still breast feeding) Estimated total ~1000 samples |
| Nasal Swab | A single swab in the anterior of each nostril at each time point | (4 samples per infant at birth, 1, 6, 12 months = 5600 samples & 1 sample per infant at 4 years= ~700 Total= 6300 |
| Oral Saliva Swab | A single swab to be placed under the tongue until the lower third (approx. 1 in/2.5 cm) of the swab is saturated (approx. 20-30 seconds total time). | 1 sample per infant at 6 months + 1 sample per infant at 12 months 1 sample per mother/primary care giver Total ~600 samples |
| Buccal swab | A single swab will be placed on the inside of each cheek (one for the left cheek & one for the right). The swab is then to be scraped or rotated vigorously for approx. 10-15 seconds each, according to protocol. | 2 sample per infant at 4 years= ~700 Total=~1400 |
| Dust | Dust samples collected from infant's mattress & living room floor | (2 dust samples per home at 9 months of age for subsample participating in Optional 'Home Visit' (10/24 S3) ~722 total) |