PRR Database Specimen Summary

Updated as of January 20, 2022. It is not guaranteed that all samples have the required amount needed for analysis. Please submit a request for more details specific to your needs.

Table 1: Type of sample by family member (unique by type)

Numbers of types of samples by mother, father and infant.

Sample Type	Mother n = 1,905	Father n = 970	Child n = 1,999
Blood	1,114 (58%)	540 (56%)	451 (23%)
Blood Spot Cord	1,237 (65%)	670 (69%)	1,195 (60%)
Breast Milk	367 (19%)	NA	NA
Buccal	2 (0.1%)	2 (0.2%)	0 (0%)
DNA	1,420 (75%)	814 (84%)	1,864 (93%)
RNA	23 (1.2%)	19 (2.0%)	0 (0%)
Plasma	1,640 (86%)	834 (86%)	1,615 (81%)
Serum	1,634 (86%)	837 (86%)	22 (1.1%)
Tracheal Aspirate	NA	NA	254 (13%)
Urine	1,809 (95%)	938 (97%)	1,735 (87%)

Table 2: Type of sample among children by time from birth to collection

Sample Type	1 day ¹	1 week ²	Less than 2 months ³	2-5 months
	n = 838	n = 1,133	n = 1,740	n=454
Blood	106 (13%)	247 (22%)	395 (23%)	70 (15%)
Blood Spot Cord	281 (34%)	619 (55%)	1,061 (61%)	220 (48%)
DNA	399 (48%)	885 (78%)	1,576 (91%)	313 (69%)
RNA	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Plasma	797 (95%)	1,017 (90%)	1,465 (84%)	292 (64%)
Serum	0 (0%)	3 (0.3%)	18 (1.0%)	8 (1.8%)
Tracheal Aspirate	6 (0.7%)	55 (4.9%)	204 (12%)	84 (19%)
Urine	340 (41%)	796 (70%)	1,507 (87%)	381 (84%)



¹The first column (1 day) included infants who had a sample with a date on the same day of birth or the next day.

²1 week includes all infants that had at least one sample within 1 week of the DOB, this row includes infants with 1 day measurement.

³Less than 2 months includes all infants that had at least one sample within 2 months of birth. This row includes infants with one day and 1 week measurements.

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Table 3: Type of sample among mothers

Sample Type	First trimester	Second trimester	Third trimester	Postpartum	Two Months or Weaning
3,000	n = 283	n = 518	n = 595	n=1,487	n=21
Blood	211 (75%)	351 (68%)	393 (66%)	806 (54%)	0 (0%)
Blood Spot Cord	178 (63%)	342 (66%)	282 (47%)	1,014 (68%)	0 (0%)
Breast Milk	0 (0%)	0 (0%)	0 (0%)	0 (0%)	21 (100%)
Buccal	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
DNA	220 (78%)	386 (75%)	393 (66%)	931 (63%)	0 (0%)
RNA	0 (0%)	0 (0%)	0 (0%)	23 (1.5%)	0 (0%)
Plasma	270 (95%)	492 (95%)	556 (93%)	1,221 (82%)	0 (0%)
Serum	272 (96%)	487 (94%)	550 (92%)	1,213 (82%)	0 (0%)
Tracheal Aspirate	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Urine	253 (89%)	479 (92%)	529 (89%)	1,411 (95%)	0 (0%)

Table 4: One time collection¹

Sample Type	Mother n = 270	Paternal n = 970	Infant n = 1,876
Blood	0 (0%)	540 (56%)	1 (<0.1%)
Blood Spot Cord	0 (0%)	670 (69%)	0 (0%)
Buccal	2 (0.7%)	2 (0.2%)	0 (0%)
DNA	268 (99%)	814 (84%)	1,819 (97%)
RNA	0 (0%)	19 (2.0%)	0 (0%)
Plasma	0 (0%)	834 (86%)	605 (32%)
Serum	0 (0%)	837 (86%)	0 (0%)
Urine	0 (0%)	938 (97%)	3 (0.2%)

¹The counts in this table represents a sample taken only at one time point.



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Table 5: Type of sample by diagnosis among mothers

Sample Type	BMI >= 30 n = 513	Gestational diabetes n = 149	Infant GA less than 370 n = 1,408a
Blood	289 (56%)	86 (58%)	758 (54%)
Blood Spot Card	329 (64%)	97 (65%)	827 (59%)
Breast Milk	97 (19%)	44 (30%)	336 (24%)
Buccal	2 (0.4%)	1 (0.7%)	2 (0.1%)
DNA	379 (74%)	107 (72%)	1,039 (74%)
RNA	2 (0.4%)	1 (.7%)	23 (1.6%)
Plasma	429 (84%)	121 (81%)	1,165 (83%)
Serum	429 (84%)	120 (81%)	1,160 (82%)
Urine	493 (96%)	143 (96%)	1,332 (95%)

Data will be updated in March 2022.

Table 6: Type of sample by diagnosis among children

Sample Type	On respiratory support at 36 weeks PMA¹	BPD (Jensen²)	GA less than 27 weeks	
	n = 414	n = 227	n = 334	
Blood	114 (28%)	75 (33%)	74 (22%)	
Blood Spot Cord	286 (69%)	168 (74%)	216 (65%)	
Breast Milk	0 (0.0%)	0 (0.0%)	0 (0.0%)	
Buccal	0 (0.0%)	0 (0.0%)	0 (0.0%)	
DNA	391 (94%)	212 (93%)	316 (95%)	
RNA	0 (0.0%)	0 (0.0%)	0 (0.0%)	
Plasma	360 (87%)	203 (89%)	280 (84%)	
Serum	12 (2.9%)	5 (2.2%)	9 (2.7%)	
Tracheal Aspirate	157 (38%)	110 (48%)	149 (45%)	
Urine	403 (97%)	225 (99%)	325 (97%)	

BPD – Bromchopulmonary Dysplasia; PMA – Postmenstrual Age; GA – Gestational age

¹ Includes all infants on respiratory support at 36 weeks PMA for infants born less than 32 weeks GA. https://pubmed.ncbi.nlm.nih.gov/16322158/

² Jensen's definition includes infants on positive-pressure (CPAP, nasal ventilation, conv vent, or HFOV). Infants are not included in this count if on nasal cannula or hood oxygen. https://pubmed.ncbi.nlm.nih.gov/30995069/



BMI – Body Mass Index; GA – gestational age $^{\rm a}$ Includes women with at least one infant in the study born less than $37^{\rm o}.$