

NIPTRIC: an online tool for clinical interpretation of non-invasive prenatal testing (NIPT) results

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Supplementary tables

Supplementary Table 1. Estimation of the personalized *a posteriori* risk (PPR) for a specific *a priori* risk, given an observed Z-score and unknown percentage of fetal DNA

<i>A priori</i> risk	Observed Z-score (%)								
	2	2.5	3	3.5	4	4.5	5	5.5	6.0
0.0001	0	0.01	0.04	0.21	1.40	10.88	58.39	96.66	99.86
0.0002	0.01	0.02	0.08	0.42	2.71	18.41	72.79	99.30	99.93
0.0005	0.01	0.05	0.20	1.03	6.23	32.39	86.53	99.31	99.97
0.001	0.03	0.10	0.40	2.01	10.98	45.11	92.68	99.66	99.99
0.0015	0.04	0.15	0.60	2.94	14.75	53.01	94.97	99.77	99.99
0.002	0.06	0.19	0.79	3.83	17.84	58.69	96.17	99.83	99.99
0.0025	0.07	0.24	0.98	4.68	20.44	63.04	96.91	99.86	99.99
0.005	0.14	0.48	1.93	8.44	29.20	75.57	98.43	99.93	100.00
0.01	0.28	0.96	3.69	14.09	38.47	85.38	99.21	99.97	100.00
0.025	0.71	2.34	8.22	23.71	51.86	93.42	99.70	99.99	100.00
0.05	1.44	4.52	13.89	31.08	63.51	96.63	99.85	99.99	100.00
0.1	2.92	8.48	21.24	37.78	75.66	98.36	99.93	100.00	100.00

Supplementary table 2. Estimation of the personalized *a posteriori* risk (PPR) based on an observed Z-score and the percentage of fetal DNA, at a coefficient of variation of 0.5 and an *a priori* risk of 1:1000

Observed Z-score	Percentage of fetal DNA (%)								
	3	4	5	6	7	8	9	10	
0	0	0	0	0	0	0	0	0	0
0.5	0.01	0	0	0	0	0	0	0	0
1.0	0.02	0	0	0	0	0	0	0	0
1.5	0.10	0.01	0	0	0	0	0	0	0
2.0	0.45	0.10	0.01	0.	0	0	0	0	0
2.5	1.97	0.73	0.01	0.01	0	0	0	0	0
3.0	8.27	5.18	1.21	0.10	0	0.	0	0.	0.
3.5	28.77	28.77	12.94	1.97	0.10	0	0	0	0
4.0	64.41	74.90	64.41	28.77	3.21	0.10	0	0	0
4.5	89.02	95.66	95.66	89.02	52.33	5.18	0.10	0	0
5.0	97.32	99.39	99.63	99.39	97.32	74.90	8.27	0.10	0.10
5.5	99.39	99.92	99.97	99.97	099.92	99.39	89.03	12.94	12.94
6.0	99.86	99.99	100.00	100.00	100.00	99.99	99.86	95.66	95.66
6.5	99.97	100.00	100.00	100.00	100.00	100.00	100.00	99.97	99.97
7.0	99.99	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Supplementary table 3. Estimation of the personalized *a posteriori* risk (PPR) based on an observed Z-score and the percentage of fetal DNA, at a coefficient of variation of 0.5 and an *a priori* risk of 1:100

Observed Z-score	Percentage of fetal DNA (%)								
	3	4	5	6	7	8	9	10	
0	0.01	0	0	0	0	0	0	0	0
0.5	0.05	0	0	0	0	0	0	0	0.
1.0	0.23	0.02	0	0	0	0	0	0	0.
1.5	1.00	0.14	0.01	0	0	0	0	0	0
2.0	4.33	1.00	0.08	0	0	0	0	0	0
2.5	16.87	6.95	1.00	0.05	0	0	0	0	0
3.0	47.62	35.55	10.96	1.00	0.03	0	0	0	0
3.5	80.30	80.30	59.99	16.87	1.00	0.02	0	0	0
4.0	94.81	96.79	94.81	80.30	25.07	1.00	0.01	0	0
4.5	98.79	99.55	99.55	98.79	91.72	35.55	1.00	0.01	0.01
5.0	99.73	99.94	99.96	99.94	99.73	96.79	47.62	1.00	1.00
5.5	99.94	99.99	100.00	100.00	99.99	99.94	98.79	59.99	59.99
6.0	99.99	100.00	100.00	100.00	100.00	100.00	99.99	99.55	99.55
6.5	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
7.0	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Supplementary table 4. Estimation of the personalized *a posteriori* risk (PPR) based on an observed Z-score and the percentage of fetal DNA, at a coefficient of variation of 0.5 and an *a priori* risk of 1:10

Observed Z-score	Percentage of fetal DNA (%)							
	3	4	5	6	7	8	9	10
0	0.12	0	0	0	0	0	0	0
0.5	0.55	0.03	0	0	0	0	0	0
1.0	0.24	0.20	0.01	0	0	0	0	0
1.5	10.00	1.48	0.08	0	0	0	0	0
2.0	33.24	10.00	0.90	0.03	0	0	0	0
2.5	69.06	45.09	10.00	0.55	0.01	0	0	0
3.0	90.91	85.85	57.51	10.00	0.33	0	0	0
3.5	97.82	97.82	94.28	69.06	10.00	0.20	0	0
4.0	99.51	99.70	99.51	97.82	78.63	10.00	0.12	0
4.5	99.89	99.96	99.96	99.89	99.19	85.85	10.00	0.08
5.0	99.98	99.99	100.00	99.99	99.98	99.70	90.91	10.00
5.5	99.99	100.00	100.00	100.00	100.00	99.99	99.89	94.28
6.0	100.00	100.00	100.00	100.00	100.00	100.00	100.00	99.96
6.5	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
7.0	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00