

Down Syndrome Risk Sample Calculations

(Appropriate for use by laboratories using the 'Knight 98' parameters)

Decimal Maternal Age (years)	Maternal Serum Result (MoM)				Down Syndrome Risk (1:n)			
					LMP		US	
	AFP	uE3	hCG	DIA	Triple	Quad	Triple	Quad
25.0	0.6	0.5	0.7	0.6	2400	3300	1200	2000
25.0	0.6	0.5	0.7	2.9	2400	590	1200	170
25.0	0.6	0.5	2.3	0.6	40	460	21	110
25.0	0.6	0.5	2.3	2.9	40	10	21	10
25.0	0.6	1.3	0.7	0.6	7200	23000	11000	39000
25.0	0.6	1.3	0.7	2.9	7200	310	11000	260
25.0	0.6	1.3	2.3	0.6	200	16000	210	5700
25.0	0.6	1.3	2.3	2.9	200	21	210	25
25.0	1.8	0.5	0.7	0.6	1400	1300	1800	2200
25.0	1.8	0.5	0.7	2.9	1400	1100	1800	700
25.0	1.8	0.5	2.3	0.6	510	3400	500	1400
25.0	1.8	0.5	2.3	2.9	510	260	500	290
25.0	1.8	1.3	0.7	0.6	15000	43000	35000	99000
25.0	1.8	1.3	0.7	2.9	15000	2800	35000	3000
25.0	1.8	1.3	2.3	0.6	9000	99000	10000	99000
25.0	1.8	1.3	2.3	2.9	9000	3400	10000	3200
35.0	0.6	0.5	0.7	0.6	690	960	340	580
35.0	0.6	0.5	0.7	2.9	690	170	340	48
35.0	0.6	0.5	2.3	0.6	12	130	10	33
35.0	0.6	0.5	2.3	2.9	12	10	10	10
35.0	0.6	1.3	0.7	0.6	2100	6500	3200	11000
35.0	0.6	1.3	0.7	2.9	2100	90	3200	76
35.0	0.6	1.3	2.3	0.6	59	4800	61	1700
35.0	0.6	1.3	2.3	2.9	59	10	61	10
35.0	1.8	0.5	0.7	0.6	400	390	530	640
35.0	1.8	0.5	0.7	2.9	400	330	530	200
35.0	1.8	0.5	2.3	0.6	150	970	140	400
35.0	1.8	0.5	2.3	2.9	150	75	140	82
35.0	1.8	1.3	0.7	0.6	4300	13000	10000	33000
35.0	1.8	1.3	0.7	2.9	4300	820	10000	860
35.0	1.8	1.3	2.3	0.6	2600	99000	3000	54000
35.0	1.8	1.3	2.3	2.9	2600	980	3000	910

Risks (to two significant digits) are based on the biochemical parameters from Knight GJ *et al.*, *Prenat Diagn* 1998; **18**:235-45. The 'triple' test refers to maternal age in combination with AFP, uE3 and hCG measurements. The 'quad' test also includes DIA measurements. The age-associated risks are from Hecht & Hook, 1996; *Am J Med Genet* 1996; **62**:376-85