

SERUM INTEGRATED TESTING

Down Syndrome (DS) Risk Sample Calculations (SURUSS 2003 parameters)

Age	Maternal Serum Result (MoM)					Serum Integrated DS Risk (1:n) ¹			
						2 nd trimester (Term Risk)		US	
	PAP	AFP	uE3	hCG	DIA	LMP Triple	Quad	Triple	Quad
25.5	0.30	0.50	0.60	0.70	0.60	550 (720)	2100 (2700)	260 (340)	1000 (1300)
25.5	0.30	0.50	1.90	0.70	0.60	910 (1200)	1800 (2300)	1400 (1800)	2600 (3300)
25.5	1.90	0.50	0.60	0.70	0.60	4700 (6200)	15000 (19000)	4000 (5200)	12000 (16000)
25.5	1.90	0.50	0.60	0.70	3.40	4700 (6200)	87 (110)	4000 (5200)	72 (93)
25.5	1.90	0.50	0.60	3.80	3.40	96 (120)	22 (28)	70 (91)	17 (22)
25.5	1.90	0.50	1.90	0.70	0.60	730 (950)	1300 (1700)	960 (1200)	1500 (2000)
25.5	1.90	0.50	1.90	0.70	3.40	730 (950)	10 (12)	960 (1200)	14 (19)
25.5	1.90	0.50	1.90	3.80	0.60	250 (320)	510 (660)	630 (820)	1100 (1400)
25.5	1.90	0.50	1.90	3.80	3.40	250 (320)	38 (49)	630 (820)	110 (140)
25.5	1.90	1.80	0.60	3.80	0.60	550 (710)	1400 (1800)	560 (730)	1200 (1500)
25.5	1.90	1.80	0.60	3.80	3.40	550 (710)	330 (430)	560 (730)	360 (470)
35.5	0.10	0.80	0.30	0.70	0.40	170 (230)	1300 (1700)	31 (40)	260 (340)
35.5	0.10	0.80	1.20	5.10	0.40	10 (14)	22 (29)	9 (12)	15 (20)
35.5	0.10	4.10	0.30	0.70	0.40	660 (860)	3700 (4800)	100 (130)	550 (710)
35.5	0.10	4.10	1.20	5.10	3.70	1900 (2500)	1200 (1600)	3500 (4600)	2400 (3200)
35.5	0.30	0.50	0.60	0.70	0.60	150 (190)	550 (710)	68 (89)	270 (350)
35.5	0.30	1.80	0.60	0.70	3.40	2800 (3600)	200 (260)	1300 (1700)	98 (130)
35.5	1.70	0.80	1.20	0.70	3.70	2100 (2800)	37 (48)	3000 (3900)	57 (75)
35.5	1.70	0.80	1.20	5.10	3.70	130 (170)	35 (46)	280 (370)	84 (110)
35.5	1.70	4.10	0.30	0.70	3.70	6300 (8100)	720 (930)	3900 (5000)	450 (590)
35.5	1.90	0.50	1.90	0.70	0.60	190 (250)	340 (440)	250 (330)	410 (530)
35.5	1.90	1.80	0.60	3.80	3.40	140 (190)	88 (110)	150 (190)	95 (120)

¹ Computed at a gestational age of 87 days

Wald NJ, Rodeck C, Hackshaw AK, Walters J, Chitty L, Mackinson AM. First and second trimester antenatal screening for Down's syndrome: the results of the Serum, Urine, and Ultrasound Screening Study (SURUSS). J Med Screen 2003;10:56-104.

Morris JK, Mutton DE, Alberman E. Revised estimates of the maternal age specific live birth prevalence of Down's syndrome. J Med Screen 2002;9:2-6.

FULL INTEGRATED RISK

Down Syndrome (DS) Risk Sample Calculations (SURUSS 2003 parameters)

Age	NT	Maternal Serum Result (MoM)					Full Integrated DS Risk (1:n) 2 nd trimester (term)			
		PAP	AFP	uE3	hCG	DIA	80 days	87 days	80 days	87 days
25.5	0.70	0.30	0.50	0.60	0.70	0.60	1300 (1700)	1100 (1500)	2900 (3800)	2600 (3400)
25.5	0.70	0.30	0.50	0.60	0.70	3.40	1300 (1700)	1100 (1500)	44 (58)	35 (46)
25.5	0.70	0.30	0.50	1.90	3.80	0.60	4100 (5300)	4000 (5200)	3300 (4300)	3500 (4500)
25.5	0.70	0.30	0.50	1.90	3.80	3.40	4100 (5300)	4000 (5200)	1600 (2000)	1400 (1900)
25.5	0.70	0.30	1.80	0.60	3.80	0.60	230 (290)	190 (250)	180 (230)	170 (220)
25.5	0.70	1.90	0.50	0.60	3.80	0.60	560 (720)	210 (280)	1000 (1300)	440 (570)
25.5	0.70	1.90	0.50	0.60	3.80	3.40	560 (720)	210 (280)	170 (220)	63 (82)
25.5	0.70	1.90	0.50	1.90	0.70	0.60	8300 (11000)	4500 (5800)	11000 (14000)	5800 (7500)
25.5	0.70	1.90	0.50	1.90	0.70	3.40	8300 (11000)	4500 (5800)	490 (640)	230 (300)
25.5	0.70	1.90	0.50	1.90	3.80	0.60	10000 (13000)	5000 (6600)	8300 (11000)	4300 (5600)
25.5	0.70	1.90	0.50	1.90	3.80	3.40	10000 (13000)	5000 (6600)	4000 (5200)	1800 (2400)
25.5	0.70	1.90	1.80	0.60	3.80	3.40	8200 (11000)	3500 (4500)	6000 (7700)	2500 (3200)
25.5	2.00	0.30	0.50	0.60	0.70	0.60	42 (54)	37 (48)	170 (220)	170 (220)
25.5	2.00	0.30	0.50	1.90	0.70	0.60	340 (440)	440 (570)	540 (710)	740 (960)
25.5	2.00	0.30	0.50	1.90	3.80	0.60	29 (38)	31 (41)	51 (67)	61 (79)
25.5	2.00	0.30	1.80	0.60	0.70	0.60	710 (930)	690 (890)	2700 (3500)	2900 (3800)
25.5	2.00	0.30	1.80	0.60	0.70	3.40	710 (930)	690 (890)	53 (69)	48 (62)
25.5	2.00	1.90	0.50	0.60	0.70	0.60	1300 (1600)	510 (660)	4900 (6400)	2100 (2800)
35.5	0.70	0.30	0.50	0.60	0.70	3.40	350 (450)	300 (390)	12 (15)	9 (12)
35.5	0.70	0.30	0.50	1.90	0.70	3.40	5000 (6500)	5400 (7000)	290 (380)	280 (360)
35.5	0.70	0.30	1.80	0.60	0.70	3.40	16000 (20000)	15000 (19000)	2400 (3100)	2100 (2700)
35.5	0.70	0.30	1.80	0.60	3.80	3.40	59 (77)	50 (66)	44 (57)	36 (47)
35.5	0.70	1.90	0.50	0.60	0.70	0.60	5200 (6800)	2200 (2900)	11000 (14000)	4900 (6400)
35.5	0.70	1.90	0.50	0.60	3.80	0.60	150 (190)	56 (73)	270 (360)	120 (150)
35.5	0.70	1.90	0.50	1.90	3.80	0.60	2700 (3500)	1300 (1700)	2200 (2900)	1100 (1500)
35.5	0.70	1.90	1.80	0.60	3.80	3.40	2200 (2800)	910 (1200)	1600 (2000)	650 (840)
35.5	1.70	0.10	4.10	0.30	0.70	0.40	35 (46)	41 (53)	150 (190)	200 (260)
35.5	1.70	0.10	4.10	1.20	5.10	0.40	2900 (3800)	3900 (5000)	650 (840)	1000 (1300)
35.5	1.70	0.10	4.10	1.20	5.10	3.70	2900 (3800)	3900 (5000)	2200 (2800)	2800 (3600)
35.5	1.70	1.70	0.80	0.30	0.70	0.40	1500 (1900)	630 (820)	11000 (15000)	5600 (7300)
35.5	1.70	1.70	0.80	1.20	0.70	3.70	2000 (2600)	1200 (1600)	43 (55)	23 (30)
35.5	1.70	1.70	0.80	1.20	5.10	0.40	160 (200)	77 (100)	140 (190)	82 (110)
35.5	1.70	1.70	4.10	0.30	0.70	0.40	1800 (2400)	840 (1100)	7000 (9000)	3800 (4900)
35.5	1.70	1.70	4.10	0.30	0.70	3.70	1800 (2400)	840 (1100)	200 (260)	88 (110)
35.5	2.00	0.30	0.50	0.60	0.70	0.60	11 (14)	10 (13)	46 (59)	44 (57)
35.5	2.00	0.30	0.50	1.90	0.70	0.60	88 (120)	120 (150)	140 (190)	190 (250)

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