

## Crown Rump Length (CRL) and Head Circumference (HC) dating tables.

- The Nuchal Translucency (NT) measurement should be made when the Crown Rump Length (CRL) is between 45mm and 84mm.
- Using the current BMUS 2009 dating formula, the gestational age range for NT measurement is from 11 weeks + 2 days to 14 weeks + 1 day.
- From 14 weeks + 2 days to 20 weeks + 0 days, the quadruple test should be offered.
- Where both dating and Down's syndrome screening are requested, and the CRL is between 45.0 and 84.0mm the pregnancy should be dated by CRL and combined screening performed.
- Where both dating and Down's syndrome screening are requested and the CRL is  $\geq 84.1$ mm, the pregnancy should be dated by HC.
- If the HC is  $\geq 101.0$ mm and the gestational age is  $\geq 14$  weeks + 2 days, date by HC. The CRL should be ignored as it is  $>84.0$ mm. Quadruple screening should be offered.
- If the HC is  $< 101$  mm and the CRL is  $>84$ mm, date by HC. If the gestational age as calculated from the HC is  $\leq 14$  weeks + 1 day, the woman should be informed that the NT risk cannot be calculated from a CRL  $>84$ mm, even though the gestational age of her pregnancy as estimated by the HC, lies within the gestational age window for combined screening. Combined screening is not an option but quadruple screening can be offered from 14 weeks + 2 days gestation.

### Crown Rump Length (CRL) dating table

$$GA \text{ (days)} = 8.052\sqrt{(\text{CRL} \times 1.037)} + 23.73$$

CRL (mm)	GA (wks + days)		
	50 <sup>th</sup> centile	5 <sup>th</sup> centile	95 <sup>th</sup> centile
43	11+0	10+3	11+5
44	11+1	10+3	11+6
45	11+2	10+4	11+6
46	11+2	10+5	12+0
47	11+3	10+5	12+1
48	11+4	10+6	12+1
49	11+4	10+6	12+2
50	11+5	11+0	12+2
51	11+5	11+1	12+3
52	11+6	11+1	12+4
53	11+6	11+2	12+4
54	12+0	11+2	12+5
55	12+1	11+3	12+5

56	12+1	11+3	12+6
57	12+2	11+4	12+6
58	12+2	11+4	13+0
59	12+3	11+5	13+0
60	12+3	11+6	13+1
61	12+4	11+6	13+1
62	12+4	12+0	13+2
63	12+5	12+0	13+3
64	12+5	12+1	13+3
65	12+6	12+1	13+4
66	12+6	12+2	13+4
67	13+0	12+2	13+5
68	13+0	12+3	13+5
69	13+1	12+3	13+6
70	13+1	12+4	13+6
71	13+2	12+4	14+0
72	13+2	12+5	14+0
73	13+3	12+5	14+0
74	13+3	12+6	14+1
75	13+4	12+6	14+1
76	13+4	13+0	14+2
77	13+5	13+0	14+2
78	13+5	13+0	14+3
79	13+6	13+1	14+3
80	13+6	13+1	14+4
81	14+0	13+1	14+4
82	14+0	13+2	14+5
83	14+0	13+3	14+5
84	14+1	13+4	14+6

### Head Circumference (HC) dating table \*

$$\text{Log}_e (\text{GA weeks}) = 0.010611 \times \text{HC} - 0.000030321 \times \text{HC}^2 + 0.43498 \times 10^{-7} \times \text{HC}^3 + 1.848$$

HC (mm)	Gestation (wks+days)
80	12+3
81	12+4
82	12+5
83	12+5
84	12+6
85	12+6
86	13+0
87	13+0
88	13+1
89	13+2
90	13+2
91	13+3
92	13+3
93	13+4

HC (mm)	Gestation (wks+days)
115	15+3
116	15+3
117	15+4
118	15+4
119	15+5
120	15+6
121	15+6
122	16+0
123	16+0
124	16+1
125	16+1
126	16+2
127	16+3
128	16+3

HC (mm)	Gestation (wks+days)
150	18+2
151	18+2
152	18+3
153	18+3
154	18+4
155	18+5
156	18+5
157	18+6
158	18+6
159	19+0
160	19+0
161	19+1
162	19+2
163	19+2

94	13+5
95	13+5
96	13+6
97	13+6
98	14+0
99	14+0
100	14+1
101	14+2
102	14+2
103	14+3
104	14+3
105	14+4
106	14+4
107	14+5
108	14+6
109	14+6
110	15+0
111	15+0
112	15+1
113	15+2
114	15+2

129	16+4
130	16+4
131	16+5
132	16+5
133	16+6
134	17+0
135	17+0
136	17+1
137	17+1
138	17+2
139	17+2
140	17+3
141	17+4
142	17+4
143	17+5
144	17+5
145	17+6
146	17+6
147	18+0
148	18+1
149	18+1

164	19+3
165	19+3
166	19+4
167	19+4
168	19+5
169	19+6
170	19+6
171	20+0
172	20+0
173	20+1
174	20+1
175	20+2
176	20+3
177	20+3
178	20+4
179	20+4
180	20+5
181	20+5
182	20+6
183	20+6

\*Loughna P, Chitty L, Evans T, Chudleigh T (2009). Fetal size and dating: charts recommended for clinical obstetric practice. Ultrasound, 17: 161-167