

NEWBORN MATURITY RATING & CLASSIFICATION

ESTIMATION OF GESTATIONAL AGE BY MATURITY RATING

Symbols: X - 1st Exam O - 2nd Exam

Side 1

NEUROMUSCULAR MATURITY

	-1	0	1	2	3	4	5
Posture							
Square Window (wrist)	>90°	90°	60°	45°	30°	0°	
Arm Recoil		180°	140°-180°	110°-140°	90°-110°	<90°	
Popliteal Angle	180°	160°	140°	120°	100°	90°	<90°
Scarf Sign							
Heel to Ear							

PHYSICAL MATURITY

Skin	sticky, friable, transparent	gelatinous, red, translucent	smooth, pink, visible veins	superficial peeling &/or rash, few veins	cracking, pale areas, rare veins	parchment, deep cracking, no vessels	leathery, cracked, wrinkled
Lanugo	none	sparse	abundant	thinning	bald areas	mostly bald	
Plantar Surface	heel-toe 40-50 mm -1 <40 mm -2	>50 mm, no crease	faint red marks	anterior transverse crease only	creases ant 2/3	creases over entire sole	
Breast	imperceptible	barely perceptible	flat areola, no bud	stippled areola, 1-2 mm bud	raised areola, 3-4 mm bud	full areola, 5-10 mm bud	
Eye/Ear	lids fused loosely -1 tightly -2	lids open; pinna flat, stays folded	sl curved pinna, soft, slow recoil	well curved pinna, soft but ready recoil	formed & firm, instant recoil	thick cartilage, ear stiff	
Genitals male	scrotum flat, smooth	scrotum empty, faint rugae	testes in upper canal, rare rugae	testes descending, few rugae	testes down, good rugae	testes pendulous, deep rugae	
Genitals female	clitoris prominent, labia flat	prominent clitoris, small labia minora	prominent clitoris, enlarging minora	majora & minora equally prominent	majora large, minora small	majora cover clitoris & minora	

Scoring system Ballard JL, Khoury JC, Wedig K, Wang L, Eilers-Walsman BL, Lipp R New Ballard Score, expanded to include extremely premature infants J Pediatr 1991;119 417-423

Gestation by Dates _____ wks

Birth Date _____ Hour _____ am
pm

APGAR _____ 1 min _____ 5 min

MATURITY RATING

score	weeks
-10	20
-5	22
0	24
5	26
10	28
15	30
20	32
25	34
30	36
35	38
40	40
45	42
50	44

SCORING SECTION

	1st Exam=X	2nd Exam=O
Estimating Gest Age by Maturity Rating	_____ Weeks	_____ Weeks
Time of Exam	Date _____ am Hour _____ pm	Date _____ am Hour _____ pm
Age at Exam	_____ Hours	_____ Hours
Signature of Examiner	_____ M D / R N	_____ M D / R N

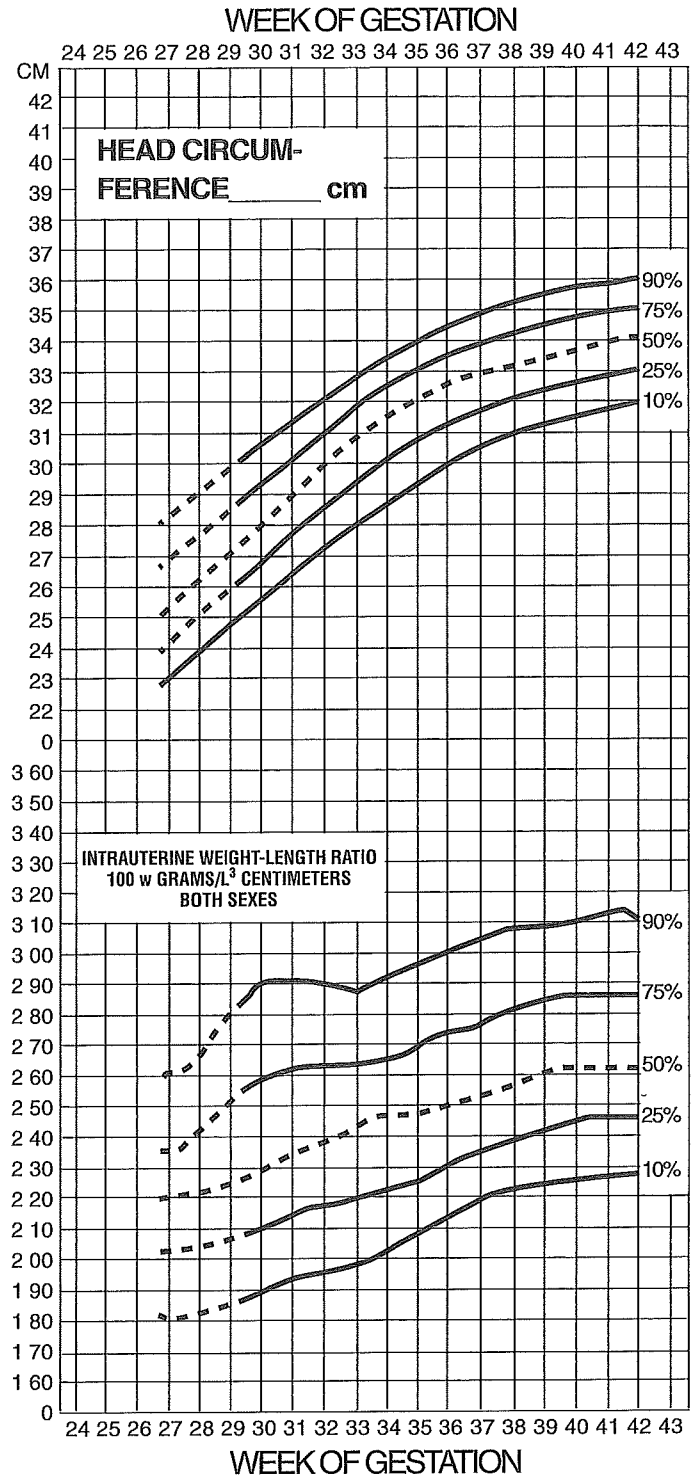
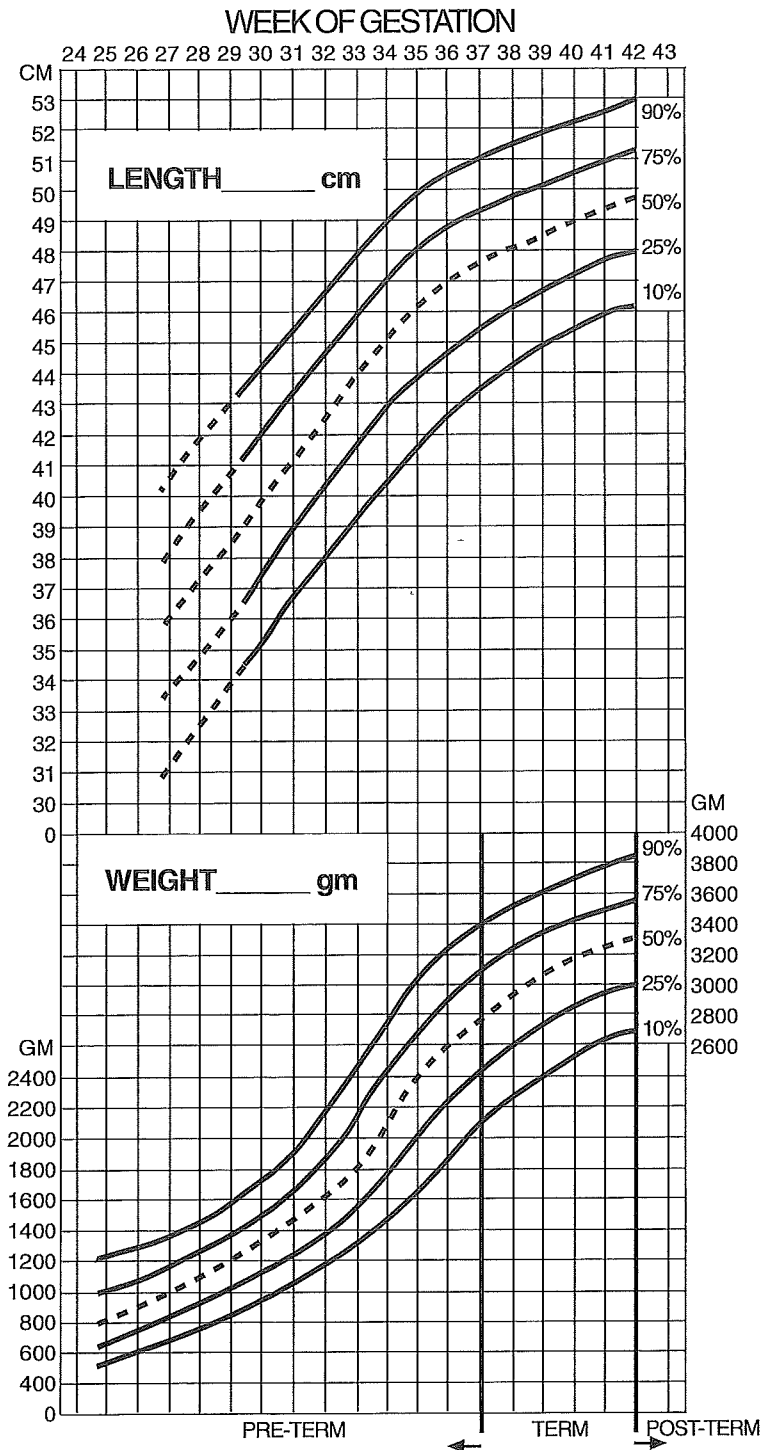
Provided Courtesy of



CLASSIFICATION OF NEWBORNS - BASED ON MATURITY AND INTRAUTERINE GROWTH

Symbols: X - 1st Exam O - 2nd Exam

Side 2



	1st Exam (X)	2nd Exam (O)
LARGE FOR GESTATIONAL AGE (LGA)		
APPROPRIATE FOR GESTATIONAL AGE (AGA)		
SMALL FOR GESTATIONAL AGE (SGA)		
Age at Exam	hrs	hrs
Signature of Examiner	M.D /R N	M D/R N

Adapted from Lubchenco LO, Hansman C, and Boyd E *Pediatr.* 1966;37 403, Battaglia FC, and Lubchenco LO *J Pediatr* 1967;71:159