

- LGA
- Large for Gestational Age
- Over 8.8 pounds (4000 g)
- SGA
- Small for Gestational Age
- (Can be low birthweight)



, Davis HW: Zitelli and Davis' atlas of pediatric physical diagnosis, ed 6, St Louis,

GESTATIONAL AGE ASSESSMENT

- · Two parts
 - -External physical characteristics
 - -Neurological characteristics

Maternal conditions, such as pre eclampsia, diabetes, and maternal analysics and anesthesia may impact certain components of gestational assessment

MATORIAL ASSESSMENT OF GESTATIONAL AGE NEW Ballard Score

NEURONISCULAR.	SCORE							RECORD	SCORE Number	
MATURITY SIGN	4	0	. *	2	3	4	5	HERE	Physical	
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SCARF SIGN	0.	0	0	0	0	0			10	28
	10	1	-0	-8		-0			15	30
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						TOTAL NEUR	DAKISO KAR		30	36
						SEATU	HITY SCORE		35	38
HYSICAL MATURE	TY.								40	43
								-	1	
PHYSICAL MATHERY SIGN				SCORE				RECORD	45	0
PHYSICAL MATURITY SIGN	la.	0	1	2	3		5	RECORD SCORE HERE	1	-
PHYSICAL MATURITY SIGN SKN	otday Masse management	gestrous red tansacions	smooth park visible vers		cracking note stees	al parchment deep macking no vessels	5 Budhey cracked wirehold	SCORE	45	44
MATURITY SIGN	STORY Magne	gestrous red	smooth pirk	s.perical	cracking paid areas	parchment deep cracking	lashey cracked	SCORE	45 50 GRETATICE (meeks) By streeture	44 44 66, 608
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MATURITY BION SKN (ANUGO PLANTAR BURRACE BREAST	stoky frame marketing from the form of the	postrious and sanskusent spanse spans	smooth pank visible version abundant faint red mans fat smooth no bud st. Surved genus sert.	superficial pooring & or right, fine visits granting artising artising frontiers or easier or the present are or the present are or the present of the present of the present out the present	cropking pair areas sale years bald areas on 20 masters are 20 mas	parchment deep ersoning no vessels meetly beld. Creases over entre side MJ areas 5-12 mm-bud.	lashey cracked	SCORE	45 50 GRETATICE (meeks) By streeture	44 44 66, 608

From Ballard JL, Khoury J, Wedig K, et al: New Ballard score expanded to include extremely premature infants, J Pediatr 119:417-423, 199

Preterm Newborn

Gestation > 37 weeks





- Multiple births
- Maternal Illness
- Hazards of Pregnancy
- Poverty
- Smoking
- Alcohol
- Drug use
- Prenatal care a MUST!



Also applies to low - birthweight

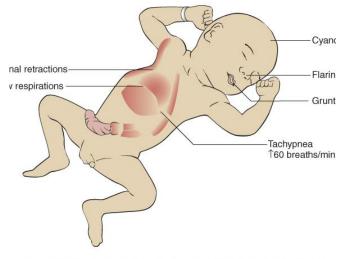
- **Preterm Characteristics**
- Skin: Transparent & loose
- Superficial Veins (abdomen & scalp)
- Lack of SQ fat
- Lanugo on forehead, shoulders, arms
- Vernix caseosa abundant
- Extremities appear short
- Few creases on soles of feet
- Protruding abdomen



C and D from Zitelli BL, Davis HW: Zitelli and Davis' atlas of pediatric physical diagnosis, ed 6, St Louis, 2012, Saunders. E from Murray SS, McKinney ES: Foundations of maternal-newborn and women's health nursing, ed 6, St Louis, 2014, Saunders.

Respiratory

- Causes
- Oxygen
- RDS
- Surfactant
- Vital Signs / Cluster Care
- Apnea / Bradycardia
- Neonatal Hypoxia
 - Pulse oximetry



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Temperature

- Causes
- Cold Stress
- Skin Probe
- Radiant Warmer



Cold Stress



Cold Stress

- · Preterm newborn is vulnerable
- Symptoms
 - decreased skin temp
 - increased R rate with apnea
 - Bradycardia
 - Mottling
 - lethargy
- Interventions
 - place infant under radiant warmer or in incubator adjusted so infant is kept at 97 to 98 degrees.

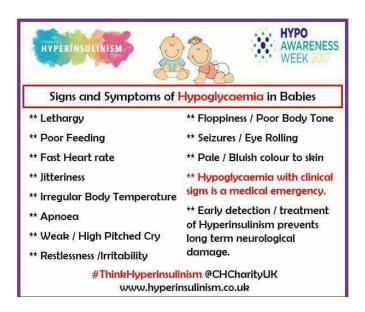
Hypoglycemia

- Causes
- Signs
- Glucose monitoring
- **Feedings**



Hypoglycemia

Signs and Symptoms



Bleeding

- Causes
- Nursing Care
 - Monitor neurological status
 - Bulging fontanelles, lethargy, poor feeding, and seizures (ICP)
 - Slight Fowler's position
 - Cluster care





- Causes
 - Small stomach capacity
 - Immature sphincter muscles
 - Immature suck and swallow
 - Inadequate store of nutrients
- Feedings
 - Gavage
- Problem: Immature Kidneys
 - Causes
 - Nursing Care
 - · 1&O
 - Assess fontanelles, turgor, and weight



Jaundice

Causes

Immature liver

Nursing Care

- Observe infant's skin, sclera, and mucous membranes for jaundice
- Phototherapy

At risk for brain damage



Nursing Goals for Preterm Infant Box 13-1



Special Needs

Nutrition Feedings Bowel Sounds Meconium **Supplemental Vitamins**

Positioning: side-lying Prognosis & Family or prone

Thermoregulation Incubator / Warmer **Kangaroo Care**

Reaction

Post term Infant

- Gestation > 42 weeks
- · Must determine if EDC is truly post term
- After 42 weeks placenta loses ability to nourish the fetus





Post term Infant **Characteristics**

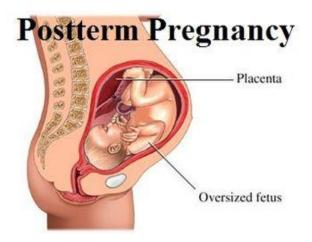
- Newborn emaciated
- Meconium stained
- Hair and nails long
- Dry peeling skin
- Creases cover soles
- Limited vernix and lanugo











Nursing Care & Discharge Planning / Teaching

Post-term Newborn Problems

Asphyxia

Meconium aspiration

Poor nutritional status

Polycythemia

Difficult deliveries

Birth defects

Seizures