Infants and babies and toddlers!
Oh, my!
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Newborns

• Reflexes
  – Crucial for survival
  – Evoke adult attention
  – Pediatricians check reflexes carefully, because weak or extremely rigid reflexes can indicate brain damage
Newborn Reflexes

• What are some of the reflexes?
  – Rooting
  – Sucking
  – Swimming (should NOT be tested at home, for safety reasons)
  – Moro
  – Palmer grasp
  – Stepping
  – Babinski
Development occurs in three domains:

- Physical
- Cognitive
- Social/Emotional
Infant - Physical

• Brain development
  – Has 100 – 200 billion neurons (nerve cells)
  – Gaps between them are called synapses
  – Neurons that are used survive; others are pruned
  – Appropriate stimulation is what causes neurons to be used
    • Stimulate by talking, listening, singing, dancing, moving, questioning, showing, allowing exploration
Physical Development Trend

Cephalocaudal

- Neck control
- Sitting up
- Walking
Physical Development Trend

Proximodistal

From center

Outward
What happens when babies grow?

• By the end of first year
  – Height is more than 50% greater than at birth
  – Body is more plump by six months than at birth
  – Ethnic and gender differences are noted
  – Teeth appear

• By the end of the second year
  – Height is more than 75% greater than at birth
  – Weight has quadrupled since birth
Infant – Physical Milestones

- Rolling over
- Crawling
- Walking
Infant – Motor Development

Gross Motor Development

Fine Motor Development
Infant – Social/Emotional

- Attachment
- Emotional development
Infant Attachment

- Infants need **warm, nurturing, responsive** care
- Babies who receive this type of attention become securely attached to parent and/or caretaker
Infant Emotional Development

- Basic emotions – universal to humans
  - Happiness
  - Interest
  - Surprise
  - Fear
  - Anger
  - Sadness
  - Disgust
Infant - Cognitive

Attention

Memory

Language
Toddler - Physical

Gross motor development

Fine motor development
Toddler – Social/Emotional
Toddler – Cognitive
Infant Development

Check for understanding.
Click the picture to go to milestone charts for infants and toddlers.
Infant and Toddler Self-Regulation

Strategies we use to adjust our emotional state to a comfortable level. Impulse control is part of this.
Temperament

- Early appearing
- Stable differences in our reactivity and self-regulation
- Set of inborn biological characteristics that shape how we experience and approach the world.
Temperament

• What makes up a child’s temperament (1:03)
• Temperament traits (10:00)
• Things to remember (2:39)
Influence of family and society
Optimizing development, including special needs

- LRE – least restrictive environment
- Inclusive classrooms
- Learning disabilities
Techniques to promote health and safety

• Watchful, attentive care
• **Shaken Baby Syndrome** (web site)
  – Never, never shake a baby! You can cause brain injury or death
• Well-baby care and medical attention
• **SIDS** (article)
  – Back to sleep (1:08 minute video)
  – Safe sleep for babies (12:38 minute video)
• **Tummy time** (news article)
Developmentally appropriate guidance techniques

- Infants should never be punished
- Toddlers can be guided in order to help correct behaviors
Babysitting

Check your knowledge.

Complete the babysitting jigsaw puzzle.
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