# Child Development

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#### Heredity & Environment

- A child's development represents the interaction of heredity and the environment on the developing brain.
- Heredity determines the potential of the child, while the environment influences the extent to which that potential is achieved.

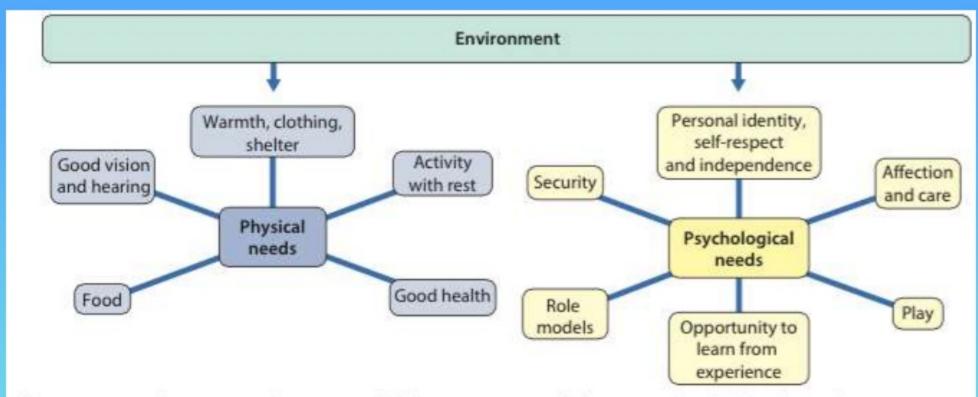
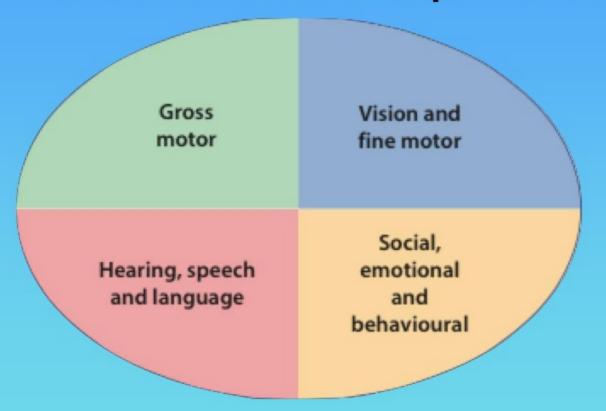


Figure 3.1 Development can be impaired if the environment fails to meet the child's physical or psychological needs.

### Fields of Development



#### Developmental Milestones

- · Median Age
- · Limit Age

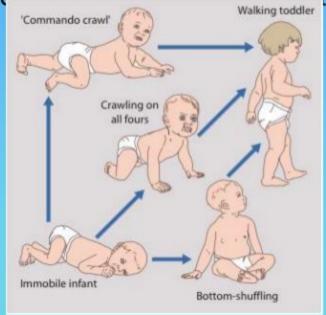
#### · Developmental milestone of walking unsupported:

- 25% by 11 months
- 50% by 12 months
- 75% by 13 months
- 90% by 15 months
- 97.5% by 18 months

Median= 12 months Limit= 18 months

#### Variation in the Pattern of Development

e.g. Motor development from immobility to walking



#### Adjusting for Prematurity

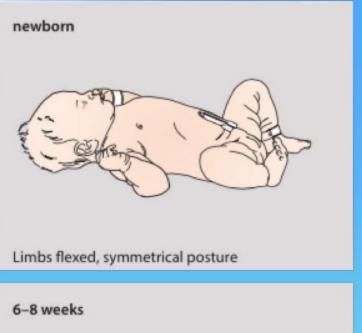
- When assessing development age you calculate it from expected date of delivery.
- Correction isn't required after 2 years of age.

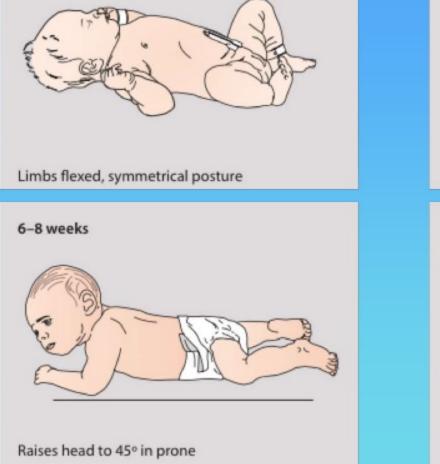
### Is Development Normal?

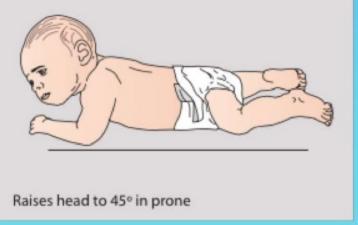
- · Concentrate on each field of development; separately
- Consider the developmental pattern; sequence of skills achieved & anticipated ones
- Determine level reached in each field
- Relate progress of each developmental field to the others; similar rate or lagging behind?
- Relate child's developmental achievements to age; chronological or corrected

- Normal development implies steady progress in all four developmental fields with acquisition of skills occurring before limit ages are reached.
- If there is developmental delay, does it affect all four developmental fields (global delay), or one or more developmental field only (specific developmental delay)?

#### Gross Motor Development



















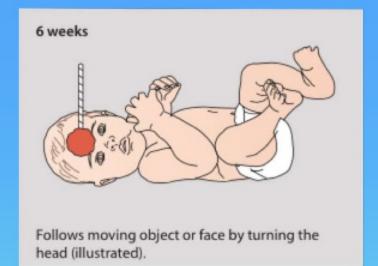
The primitive reflexes present at birth gradually disappear as postural reflexes develop, which are essential for independent sitting and walking

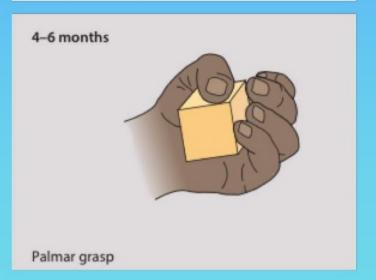
#### Moro - sudden extension Labyrinthine righting of the head causes - head moves in symmetrical extension, opposite direction to then flexion of the arms which the body is tilted Grasp - flexion of fingers Postural support when an object is placed - when held upright, legs take weight and in the palm may push up (bounce) Rooting - head turns to the stimulus when Lateral propping - in touched near the mouth sitting, the arm extends on the side to which the Stepping response child falls as a saving stepping movements mechanism when held vertically and dorsum of feet touch a Parachute - when surface suspended face down, the arms extend as Asymmetrical tonic though to save neck reflex - lying themself supine, the infant adopts an outstretched arm to the side to which the head is turned

Postural reflexes

Primitive reflexes

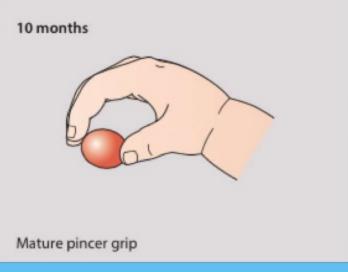
#### Vision & Fine Motor

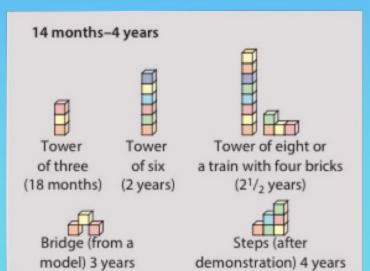




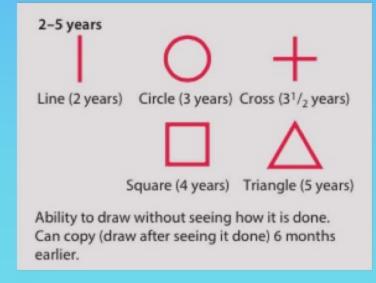












## Hearing, Speech & Language