









Gross motor development

Dr Srividhyadharsan, Community Paediatrician, Wood St H.C.

<p>newborn</p>  <p>Limbs flexed, symmetrical postures</p>	<p>newborn</p>  <p>Marked head lag on pulling up</p>	<p>8-9 months</p>  <p>Crawling</p>	<p>10 months</p>  <p>Walks around furniture</p>
<p>6-8 weeks</p>  <p>Raises head to 45°</p>	<p>6-8 months</p>  <p>Sits without support - at 6 months: with round back - at 8 months: with straight back (shown)</p>	<p>12 months</p>  <p>Walking unsteadily, broad gait, hands apart</p>	<p>15 months</p>  <p>Walks alone steadily</p>


When to refer

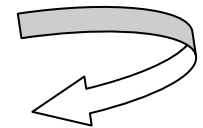
Overview of developmental stages

- Acquisition of tone and head control
- Primitive reflexes disappear
- Sitting
- Standing, walking, running
- Hopping, jumping, pedaling

Limit ages

Gross motor	Limit ages
Head control	4 months
Sits unsupported	9 months
Stands independently	12 months
Walks independently	18 months





Vision and Fine motor development

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6 weeks



Newborn - follows face in midline.
Follows moving object or face by turning the head (illustrated).

4 months



Reaches out for toys

10 months



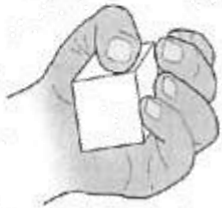
Mature pincer grip

16-18 months



Makes marks with a crayon

6 months



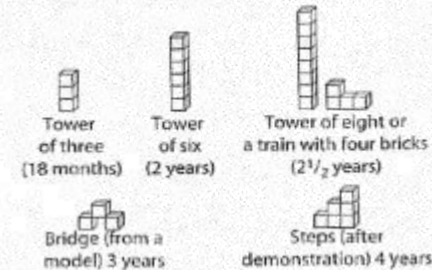
Palmar grasp

7 months

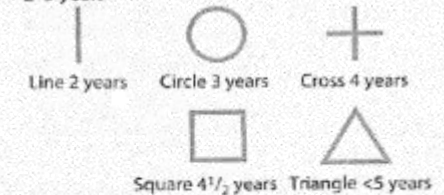


Transfers toys from one hand to another

14 months-4 years

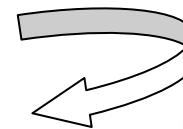


2-5 years

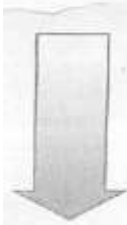


Ability to draw without seeing how it is done.
Can copy (draw after seeing it done) 6 months earlier.

When to refer



Vision and fine motor



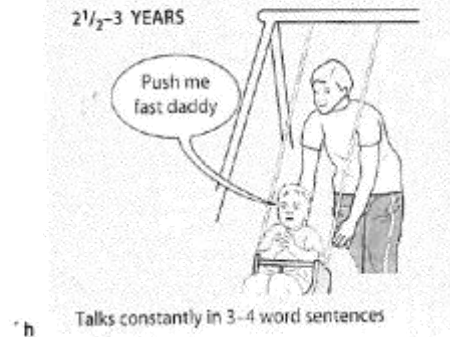
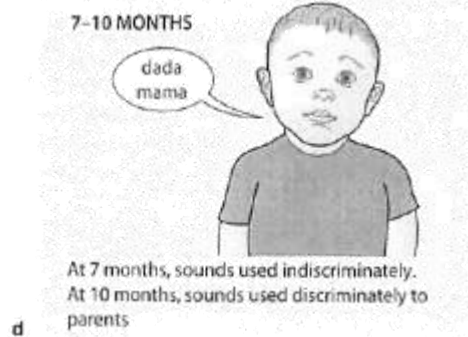
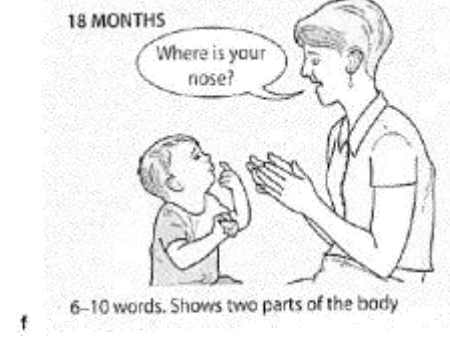
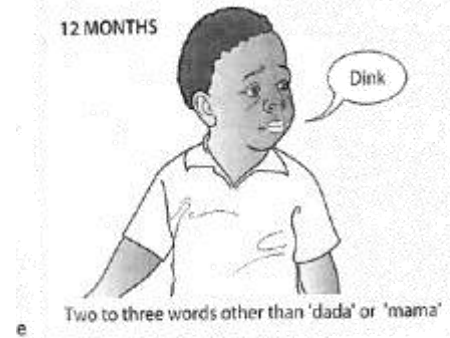
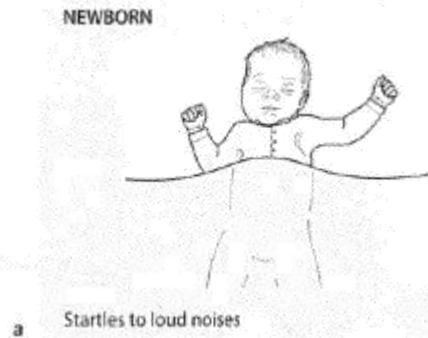
- Visual alertness, fixing and following
- Grasp reflex, hand regard
- Voluntary grasping, pincer, points
- Handles objects with both hands, transfers from hand to hand
- Writing, cutting, dressing

Vision and fine motor	Limit ages
Fixes and follows visually	3 months
Reaches for objects	6 months
Transfers	8 months
Pincer grip	12 months

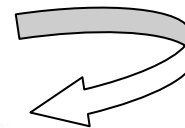


Hearing and speech development

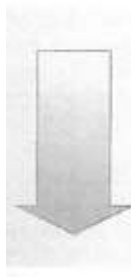
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When to refer



Hearing, speech and language



- Sound recognition, vocalisation
- Babbling
- Single words, understands simple requests
- Joining words, phrases
- Simple and complex conversation

Hearing, speech and language	Limit ages
Polysyllabic babble	7 months
Consonant babble	10 months
Saying 6 words with meaning	18 months
Joins words	2 years
3-word sentences	2.5 years



Personal and social development

Dr Srividhyadharsan, Community Paediatrician, Wood St H.C.

a 6 WEEKS
Smiles responsively

b 6-8 MONTHS
Puts food in mouth

c 10-12 MONTHS
Waves bye-bye, plays peek-a-boo

d 12 MONTHS
Drinks from a cup with two hands

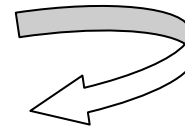
e 18 MONTHS
Holds spoon and gets food safely to mouth

f 18-24 MONTHS
Symbolic play

g 2 YEARS
Dry by day. Pulls off some clothing

h 3 YEARS
Parallel play. Interactive play evolving. Takes turn

When to refer



Social, emotional and behavioural



- Smiling, socially responsive
- Separation anxiety
- Self help skills, feeding, dressing, toileting
- Peer group relationships
- Symbolic play
- Social/communication behaviour

Social behaviour

- Smiles
- Fear of strangers
- Feeds self/spoon
- Symbolic play
- Interactive play

Limit ages

- 8 weeks
- 10 months
- 18 months
- 2-2.5 years
- 3-3.5 years

