# Normal Behavioral Development-2

Elham Shirazi MD
Board of General Psychiatry
Board of Child & Adolescent Psychiatry



**Egocentrism:** 

See them selves as the center of the universe

Have limited point of view

Unable to take the role of another person

Unable to modify their behavior for someone else



- Centration
- Private speech
- Self-guidance & self-direction
- Talks to self & teaches self
- Lack of hierarchy
- Irreversibility



- Transductive reasoning
- Thinking & reasoning are intuitive
- Children learn without the use of reasoning
- Unable to learn logically or deductively



- Their concepts are primitive
- Can name objects
- Can not name classes of objects
- Can not grasp the sameness of an object in different circumstances
- No conservation



- Events are not linked by logic
- No sense of cause and effect

  (e.g. if they drop a glass that then breaks, they believe that the glass was ready to break)
- Lack of hierarchy



- Phenomenalistic causality:
  - A type of magical thinking: Events that occur together are thought to cause one another
- Benefit more from role-playing than verbal descriptions



M Animistic Thinking:

Endow physical events & objects with lifelike psychological attributes, such as feeling & intentions

- Things are represented in terms of their function
- (e.g. defines a bike as "to ride" & a hole as "to dig")



- Mave a sense of what is good or bad
- But cannot deal with moral dilemmas
- Immanent justice: Believe that punishment for bad deeds is inevitable
- Interpret physical illness as punishment for bad thoughts or deeds



Most important sign that a child is still in the preoperational stage:

Have not achieved conservation & reversibility!



#### 3 Years Motor & Sensory Behavior

- Rides tricycle
- Jumps from bottom steps
- Alternates feet going up stairs

#### 3 Years Adaptive Behavior

- Builds tower of 9-10 cubes
- Imitates a three-cube bridge
- Copies a circle & a cross



#### 3 Years Personal & Social Behavior

- Puts on shoes
- Unbuttons buttons
- Feeds self well
- Understands taking turns

- Count 1-3 objects
- Know colors
- Know age



#### 4 Years Motor & Sensory Behavior

- Walks down stairs one step to a tread
- Stands on one foot for 5-8 seconds

#### 4 Years Adaptive Behavior

- Copies a cross
- Repeat 4 digits
- Counts 3 objects with correct pointing



#### 4 Years Personal & Social Behavior

- Washes & dries own face
- Brushes teeth
- Joint play

#### 4 Years Cognitive Development

Fantasize without concrete props



### 5 Years Motor & Sensory Behavior

- Skips, using feet alternately
- Complete sphincter control
- Fine coordination improves



### 5 Years Adaptive Behavior

- Copies a square
- Draws a recognizable person with a head, a body, limbs
- Counts 10 objects accurately



#### 5 Years Personal & Social Behavior

- Dresses & undresses self
- Prints a few letters
- Plays competitive exercise games

#### 5 years Cognitive Development

- Get humor
- Understand good & bad
- Can do some chores



#### 6 Years Motor & Sensory Behavior

Rides two-wheel bicycle

#### 6 Years Adaptive Behavior

- Prints name
- Copies triangle

#### 6 Years Personal & Social Behavior

Ties shoelaces



- Concrete operational stage
- Hierarchical classificationCan organize objects into hierarchies
- Categorization
- Reversibility
- Conservation
- Decentration

  Worry about small details

  Obsessive



- Spatial Operations
  Like models for directions
- Horizontal decalageConservation of weightLogic
- Transitive inferenceSyllogismCompare everythingBrand names important



- M Internal speech
- Complex cognition
- Self-reflection
- Sustained attention
- M Good memory



- Recall
- Problem solving
- Planning
- Begin to think logically
- Seem rational & organized



### 11-19 Years Cognitive Development "Formal operational stage"

#### Is characterized by the ability to:

- Think abstractly
- Propositional thinking (logic)
- Reason deductively
- Define concepts
- Deal with permutations
- Deal with combinations
- Grasp to concept of probabilities



# 11-19 Years Cognitive Development Formal operational stage

- Hypothetical-Inductive reasoning:Moves from particular to general
- Hypothetical-Deductive reasoning:Moves from general to particular (more complicated)Highest organization of cognition!
- Enables the person to make a hypothesis & to test it against reality



# 11-19 Years Cognitive Development Formal operational stage

- Language use is complex & is grammatically correct
- May return to egocentric thought but on a higher level:
- May think they can accomplish everything
- May think they can change events by thought alone



# 11-19 Years Cognitive Development Formal operational stage

- Personal fable
  Inflated opinion of themselves
- Imaginary audience Everyone is looking at them!
- M Adolescent quick thinking & excuses
- Can think of all possibilities



Some people may not reach the stage of formal operational thought at all!



- Adult under stress may regress cognitively & emotionally
- Their thinking may become preoperational, egocentric & sometimes animistic!

