



Lecture
3

Infant/ Toddler
Development

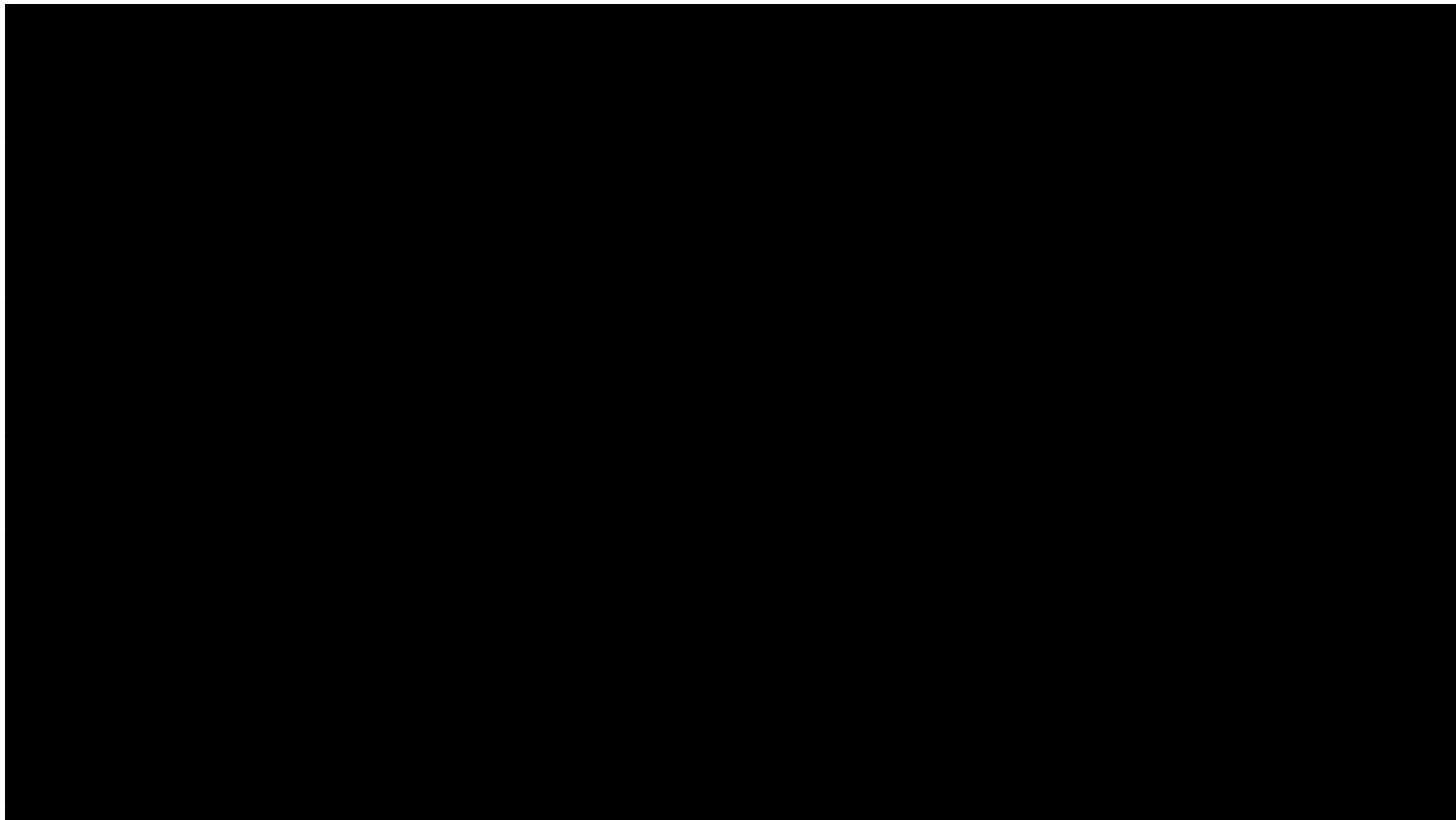
Reasons for Assessment

- Screening
- -Universal health screening : inherited metabolic disorders
- Hearing test

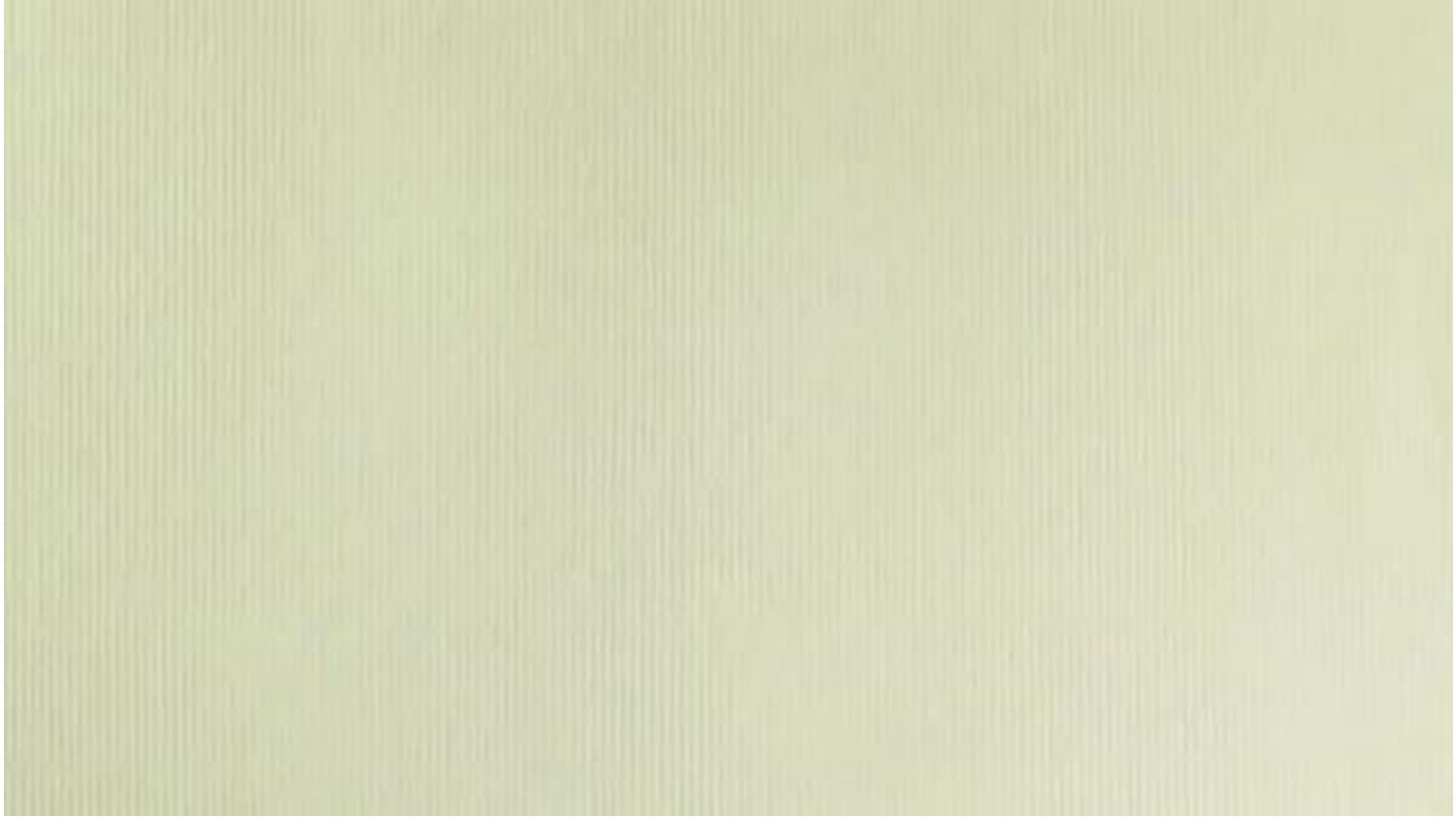
Newborn Health Screening



Heel prick or Guthrie test (Robert Guthrie)



Hearing test



APGAR test

Virginia Apgar



Appearance,
Pulse,
Grimace,
Activity,
Respiration.

1 minute after birth

5 minutes after birth

Dr. Apgar's advice to mothers is summarized in the slogan "Be Good to Your Baby before It Is Born;" c. 1968

Baby screening by midwives



Just after birth – APGAR Score

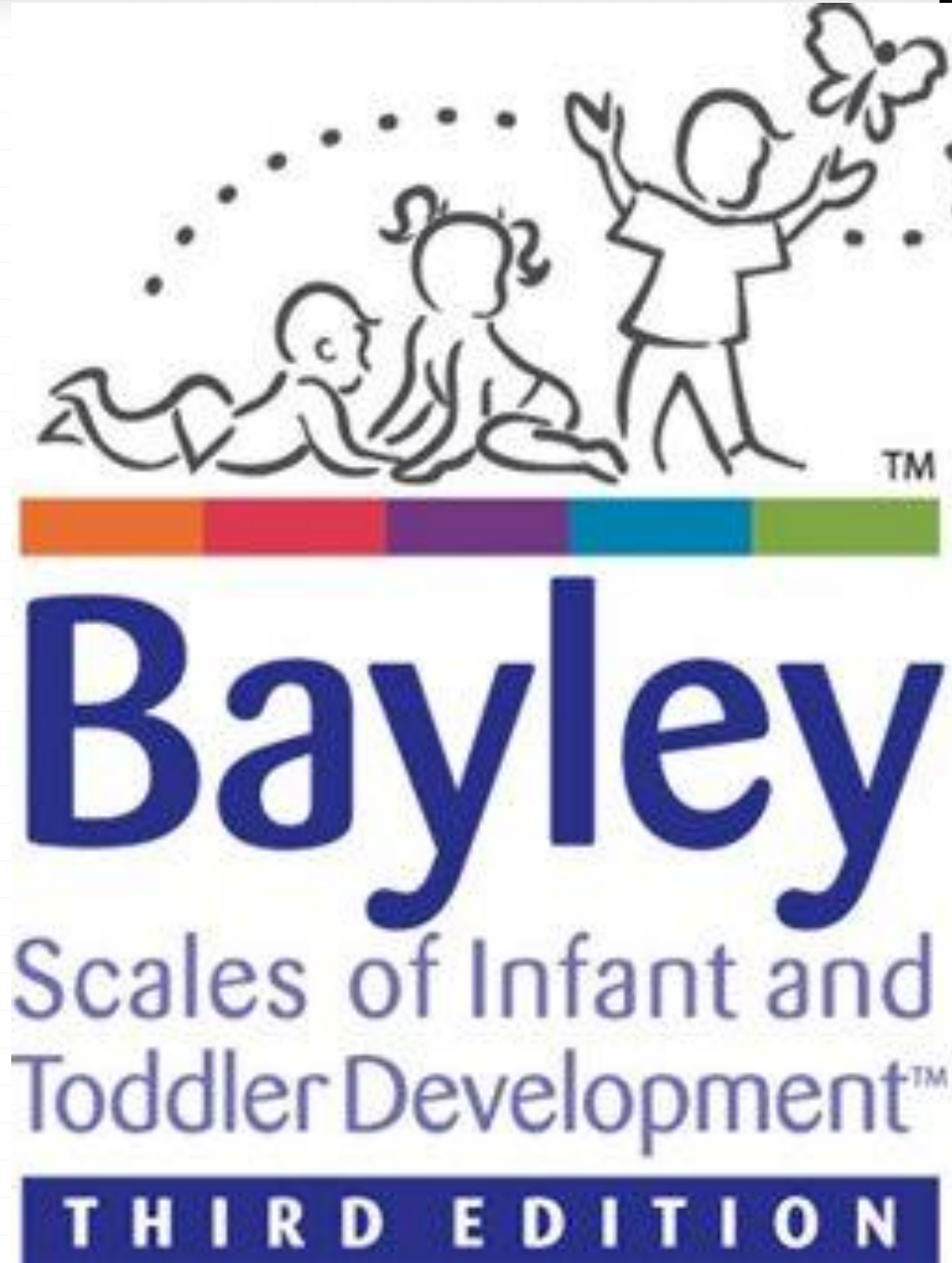
- Five factors are used to evaluate the baby's condition and each factor is scored on a scale of 0 to 2, with 2 being the best score:
- appearance (skin coloration)
- pulse (heart rate)
- grimace response (medically known as "reflex irritability")
- activity and muscle tone
- respiration (breathing rate and effort)

APGAR SCORING SYSTEM

SIGN					
	0	1	2	1 min	5 min
Heart Rate	Absent	Less Than 100	Over 100	2	2
Respiratory Effort	Absent	Slow, Irregular	Good Cry	1	2
Muscle Tone	Limp	Some Flexion	Active Motion	1	2
Reflex Irritability	No Response	Grimace	Cry	1	2
Color	Pale	Body Pink, Extr. Blue	All Pink	1	2
TOTAL SCORE				6	10

Other tests

**Bayley Scales
of Infant and
Toddler
Development**



Bayley scales of infant and toddler development

Psychologist, Nancy Bayley

Published: 2005

For: 0-3 years

To measure:

- Motor (gross/ fine)
- Language (receptive/ expressive)
- Cognitive development

ACTIVITY





Sample qualified personnel: psychologists, psychiatrists, speech and language therapists, occupational and physical therapists specializing in early intervention, early interventionists, social workers, developmental pediatricians, pediatric nurse practitioners. Those who qualify will most likely have at least a Master's degree.

If you are an appropriately trained, experienced practitioner in these areas, you can benefit from using Bayley-III.

- Early intervention specialist
- Early childhood specialist
- Childhood development specialist
- Cross-disciplinary professional
- School psychologist
- Assessment specialist

http://www.pearsonassessments.com/NR/rdonlyres/85D4E8D6-3048-4DCF-A5B9-45F8DD7C9F72/0/Bayley_ObsChklst_RF_final.pdf

Consists of...

5 distinct scales that yield scores for 5 developmental domains:

- o Cognitive (91 items)
- o Language (expressive 48, receptive 49)
- o Motor (fine 66, gross 72)
- o Social-emotional (questionnaire for caregiver to complete)
- o Adaptive behaviour subtest (questionnaire completed by caregiver)
- o Screening test
- o Caregiver report

Takes about

- o 50 minutes (under 1 year)
- o Up to 90 minutes for older than 1 year)

Strengths:

- o - allows for parental input
- o 5 scales correspond to the Individuals with Disabilities Act guidelines for early childhood (US)
- o High correlation scores with related tests such as the Adaptive Behaviour Assessment System- II

Weaknesses

- Cannot be used to obtain norm referenced score for severely physically or sensory disabled child (may underestimate child's ability as administration in the standardised way may place the child at a disadvantage)
- Inter-rate reliability was not established.

Recommendations

- Used as a multi-disciplinary approach
- Not to use as a measure of intelligence or as a predictor of academic achievement

Activity

- Motor skills: gross and fine motor
- Language: Receptive/ Expressive
- Cognition: memory, imitation, planning, problem solving

Children playing with cars and trucks



National Quality Standard
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Early Childhood
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A voice for young children

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Activity- for 2 year old child

- o Tasks to measure:
- o Attention and memory
- o Gross and fine motor skills
- o Symbolic play
- o Test expressive and receptive language
- o Self-help skills

Report writing