### Little Steps, Big Progress: Developmental Assessments

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#### **Development Basics**

- The most important reason for monitoring a child's development is to determine if their development is progressing as expected.<sup>1</sup>
- Children with developmental problems are at increased risk for poor outcomes in many areas important to health, well-being, and success in life.<sup>2</sup>
- High quality early intervention services can change a child's developmental trajectory and improve outcomes for both the child and the family.<sup>3</sup>
- Intervention is likely to be more effective and less costly when it is provided earlier in life rather than later.<sup>4</sup>

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#### Developmental Monitoring/Surveillance

- Physicians, other health care providers, and early childhood educators are among those who might use developmental monitoring and surveillance to consider whether children are meeting developmental milestones.
- Developmental monitoring/surveillance does not include formal evaluation tools, but observations of the child should include an understanding of basic developmental milestones and expected developmental progress.

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https://sites.ed.eov/idea/files/Early-Learning-Monitoring-English-508.or

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- Social/Emotional Responds to other people's emotions and often seems happy
- Language/Communication Begins to say consonant sounds (jabbering with "m," "b")
- Cognitive Begins to pass things from one hand to the other
- Movement/Physical Begins to sit without support









# Developmental Milestones Resources ACT Program Child Development Fact Sheets 0 contitive and Social Skills to Expect From 0-18 Montal 0 contitive and Social Skills to Expect From 3-5 fears 0 contitive and Social Skills to Expect From 3-5 Years 0 contitive and Social Skills to Expect From 6-10 Years vertexentence

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#### **Developmental Evaluation**

- Developmental assessments are usually done because of a concern that the child may have a developmental delay or disorder. Such assessments can:
  - help identify possible developmental problems and the need for further diagnostic evaluation
  - provide an objective description of the child's abilities and deficits determine eligibility for programs (such as early intervention programs)

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aid in planning for appropriate interventions

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#### **Developmental** Evaluation (Cont.) • It is important that the developmental assessment be individualized to the child by: using age-appropriate testing and scoring methods

- focusing on the child's presenting problems (such as suspected delays or deviations in development or behavioral problems)
- assessing specific areas of strength and weakness, including specific discrepancies in functioning across and within developmental domains

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#### **Developmental History**

- Why is the information collected in an evaluation?
- What is the standard for comparison?
  - Typically developing (i.e., 12 months "firsts")
- Do language and cultural backgrounds influence expectations? (i.e., signed language, ELL)
- What influence (if any) does the social environment in the home have on a child's development?
- Is the evaluator only looking for deficits?

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#### Cultural Differences

- Developmental milestone expectations
- Eye contact
- Approaches to pretend play
- Public displays of emotion



Communicative gestures

, K., Slotta, J., & Nállez, R. (2018). The p



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Norm- versus Criteria-Referenced Assessments

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#### So, which should we use?

#### Per IDEA:

"...a variety of assessment tools and strategies are to be used to "gather relevant functional, developmental and academic information, including information provided by the parent" to determine and assist in designing the most appropriate educational program for students with disabilities."

- RecordsInterviews
- Observations
- Direct Assessments
- Rating Scales
- Informal Measures
- Clinical Judgement

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#### Score Interpretation

- Test scores provide an estimate of one's performance in a particular area of behavioral functioning, compared to a specific reference group, at a given point in time
- Results must be analyzed across a broader context and from a range of sources; relate to previous levels of function and/or coordinate explanations with other team members when possible
- Rule out possible alternative explanations
- Use caution when administering Spanish translation forms
- Remember, behaviors are highly dependent on cultural factors! Know the family to best understand the data

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### Individuals with Disabilities Education Act (IDEA)

**Recommended Evaluation Practice** 

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IDEA Fait	C vs Part B	
Part C	Part B	
Early intervention (EI) services for eligible children ages birth to 3	Special education services for eligible children ages 3-21	
Services provided in "natural environments" (e.g., child's home or child care setting)	Services provided in "Least Restrictive Environment" (e.g. classroom or clinic setting)	
Coordination of care and services provided by El Service Coordinator	Corodination of educational and related services provided by Special Education Case Manager	
Eligibility for services based on developmental delay	Eligibility for services based on a current adverse educational impact	
Individualized Family Service Plan (IFSP): Outlines family-centered goals, services, and outcomes based on how child participates in family life and daily routines	Individual Educational Program (IEP): Outlines goals and objectives to address child's individual needs in an educational setting, along with additional supports, service and accommodations (if eligible)	
Services generally reviewed every 6 months	Services generally reviewed once a year	

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#### Recommended Practice: Initial Part C Evaluation

3 key components recommended:

- Use of a variety of tools and measures
- Completing the initial evaluation in a natural setting

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- Use of a transdisciplinary team approach
- Must utilize:

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- Variety of assessment tools and strategies
- Include parent or caregiver reports

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## How to Calculate Corrected Age

 Chronological Age minus (40 weeks – Gestational Age at birth) = Corrected Age

#### Example:

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16-month-old toddler who was born at 28 weeks gestation

- 16 months Chronological Age (40 weeks 28 weeks Gestational Age at birth) = Corrected Age
- 16 months 3 months = 13 months Corrected Age

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#### Texas New Category: Developmental Delay



- Between the ages of 3-9
- Evaluated by a multidisciplinary team for at least 1 of the other 12 disability categories and
- Whose evaluation data indicates a need for special education and related services and
- Shows evidence of, but does not clearly confirm, the presence of the suspected disability or disabilities due to the child's young age.



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#### Developmental Delay, (cont.)

 (C) a body of evidence from multiple direct and indirect sources, such as play-based assessments, information from the student's parent, interviews, observations, work samples, checklists, and other informal and formal measures of development, that clearly document a history and pattern of atypical development that is significantly impeding the student's performance and progress across settings when compared to age-appropriate expectations and developmental milestones in one or more areas of development as listed in this paragraph.

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#### Maternal Substance Use During Pregnancy: Alcohol

- 8 studies that included over 10,000 children 6 months to 14 years, any binge drinking during pregnancy resulted in the child exhibiting problems with cognition.<sup>1</sup>
- 3 studies that included 11,900 children ages 9 months to 5 years, moderate drinking during pregnancy resulted in the child exhibiting problems with behavior.<sup>2</sup>
- Alcohol use during pregnancy can cause miscarriage, stillbirth, and a range of lifelong physical, behavioral, and intellectual disabilities, collectively known as fetal alcohol spectrum disorders (FASDs).<sup>3</sup>

der 16 1111 Noor 12214. Epib 2013 Aug 1. The association of mild, moderate, and bings prenatal alcohol exposure and child neuropsychologica Market That, "End alcoholad betweet" (and it Reary 1116 & Casanolad Nov. F. Consent 3. CDC: Alcohol use during Pregnancy: <u>bits: Evenue do ovyhchólóf Isadhichulyus bini</u>

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s: a meta-analysis

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#### Maternal Substance Use During Pregnancy: Polysubstance

- A 2020 study found that about 10% of pregnant women reported current alcohol use, and among them, use of other substances was common – about 40% reported current use of one or more other substances.<sup>1</sup>
- A study published in 2020 found that among women who continued marijuana use before and during pregnancy, 74% also smoked cigarettes during pregnancy.<sup>2</sup>
- According to the CDC, the effects of polystubstance use on infants is not well known, mainly due to data collection limitations with the studies conducted to date.<sup>3</sup> https:// userscience.accord.edu/accord.e
- <sup>1</sup> Tagland Li, Barnett C, Barry CH, et al. Net of an end on one of other substances among program if femdes aged 12–44 pears United States, 2025–2018. MAMM Morb Moral Wely Registre (34), 1000-0014.
  <sup>1</sup> Not JC OK, Vick (14), CK, et al. Obschriftlich of marijuania use during program-(-eight states, Notpear-). Relie Assessment Northoring Systems, 2027. MAMM Morb Moral Wely Nep 2008, (2012), 2003.

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#### Prematurity, (cont.)

- Factors that can contribute to prematurity range from multiple gestations or physical characteristics of the uterus, little or no prenatal care, chronic medical conditions, poor nutrition and substance use.
- Premature babies are at higher risk of such developmental issues as
  - cerebral palsy
  - Ianguage and cognitive deficits
  - learning disabilities

Chung E. H., Chou J. & Brown K. A. (2020). Neurodevelopmental outcomes of preterm infants: A recent literature revir Translational Pediatrics, 9(Suppl 1), S3-S8. https://doi.org/10.21037/tp.2019.09.10

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#### **Health Disparities**

#### Healthy People: US Department of Health and Human Services

"Health differences that are closely linked with social, economic and/or environmental disadvantage. Health disparities adversely affect groups of people who have systematically experienced greater obstacles to health based on their racial or ethnic group; religion; socioeconomic status; gender; age; mental health; cognitive, sensory, or physical disability; sexual orientation or gender identity; geographic location; or other characteristics historically linked to discrimination or exclusion."

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#### Healthy People 2030. (2021 January). How does Healthy People 2030 define health disparities and health equity? https://health.gov/our-work/healthy-people/healthy-people-2030/oz

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# Abuse/Neglect

- Neglect. When caregivers don't meet a child's physical, emotional, and social needs. Failing to ensure a safe and healthy upbringing.
- Physical Abuse. Non-accidental physical harm caused by hitting, punching, kicking, shaking, beating, burning, or throwing.
   Emotional Abuse. Causing intentional emotional pain and distress through threats, insults, humiliation, rejection, and inciting fear.
- through threats, insults, humiliation, rejection, and inciting fear.
  Sexual Abuse. Any sexual contact with a child, such as inappropriate touch, sexual acts, or rape.

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# Abuse/Neglect (Cont.) • Hyperarousal and Hypervigilance. Being unable to relax. Always alert, no matter what the situation. • Excessive and Constant Fear. Struggling to differentiate between danger and safety. Constantly on the lookout for potential threats. More emotionally reactive, even to seemingly harmless situations. • Challenged by Social Situations. Difficulties relating to other people and reading social cues.

- Attachment Difficulties. Inability to form healthy relationships. Struggling to trust other people or becoming too dependent on others' approval.
- Learning Difficulties. Abuse can lead to diminished executive functioning. Poor memory and cognitive flexibility can reduce academic and professional performance.

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Abuse/Neglect, (cont.)	unlocking potential
<ul> <li>Sensitized Stress Response. Brain may adap sensitized to stressful situations. Their threat di on hyperalert, and they may see a threat in a n situation.</li> </ul>	ot to become overly etection systems are onthreatening
<ul> <li>Diminished executive functioning and self-r trauma of maltreatment can create deficits in a functioning and self-regulation</li> </ul>	egulation. The Il areas of executive
Hang, K. S., Golla, G., Jani, G., Jong, L. K., Mang, K. S. (2016). This ingout of targing to transits and antibiostatist of international programs, and policy. A. K. Han, A. J. Garu, K. H. Wang, A. Y. Handino, J. K. J., the strip statest hardward and structure antibi- tariangual, K. G. Martin, M. M. Handi, K. J. K. Hand, K. J. Wang, M. Handino, J. K. J. Handino, M. Handino, M. Handino, J. Handino, J. Handi, K. Handino, Y. Handi, K. Handino, J. Handi, K. J. Handi, K. J. Handi, K. Handi, M. Handi, K. Handi, K. Handi, K. J. Handi, K. J. Handi, K. Han	nan musikaan ku jaantu jantu jantu Ka iyo ali-ahii uu gu harannaan Kuusikaanku
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#### Cognitive Scale

- Measures the following:
  - An individual's level of cognitive functioning as rated by the parent, teacher, or clinician
  - At younger ages, it measures skills that are prerequisite to scholastic functioning in academic areas such as reading, writing, arithmetic, computer use, and logic
  - At preschool and older ages, the skills measured are more directly tied to actual school curriculum



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Judith K. Voress Taddy Maddox



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ABAS-3 Forms				
Rating Form	Ages	Setting	Respondents	
Parent/Primary Caregiver	0-5	Home and community	Parents or others responsible for the child's primary care	
Teacher/Daycare Provider	2-5	School or daycare	Teachers, teacher's aides, preschool instructors, daycare or other childcare providers	
Parent	5-21	Home and community	Parents or others responsible for the child's primary care	
Teacher	5-21	School	Teachers, teachers' aides or other school professionals	
Adult	16-89	Home and community	Family members, professional caregivers, supervisors or the individual	





































## Bracken Basic Concept Scale: Receptive 4<sup>th</sup> Edition (BBCS-4: R)

Bracken School Readiness Assessment 4<sup>th</sup> Edition (BSRA-4)

Bruce A. Bracken, PhD

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#### Bracken School Readiness Assessment Fourth Edition (BSRA-4)

- Ages 3 years, 0 months 7 years, 11 months
- Assessment of 134 foundational school readiness concepts in six conceptual categories
- Inclusion of 64 concepts frequently associated with science, technology, engineering, arts, and math curricula

Administration time: 10-17 minutes

Six Subtests



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Transdisciplinary Play Based Assessment, Second Edition (TPBA-2)

Toni Linder

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	TPBA-2	Overvie	9W
<ul> <li>Benefit: play base links assessment</li> <li>Administration T</li> <li>Ages: birth to 6 ye</li> <li>Published: 2008</li> <li>Optional: Transdi Intervention-2<sup>nd</sup> Edit</li> <li>Domains:         <ul> <li>Sensorimotor</li> <li>Emotional anni</li> <li>Communicativi</li> <li>Cognition</li> </ul> </li> </ul>	ed and child direct and intervention ime: 60-90 minut ars sciplinary Play-Ba dition (TPBI2) d social on and language	ted that directly es ased	Transdisciplinary Play-Based Assessment Play-Based Play













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Bright Futures
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 mental, physical, and emotional health issues in children from before birth through 21 years of age.

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