Identifying the Need for Developmental Behavioral Pediatrics in Children: Recognizing Early Signs and Ensuring Timely Intervention



No conflict of interest





Objectives



Understand the Developmental Screening Process

Using standardized screening tools to identify children who may benefit from a DBP evaluation.



Recognize Red Flags for Referral

Identify key developmental and behavioral concerns that indicate the need for further evaluation, including delays in speech, motor skills, social interaction, emotional regulation, and academic progress.



Navigate the Referral Process and Collaborate with Specialists

Understand when and how to refer patients, what information is needed for an effective referral, and how to support families in accessing appropriate services.



Definition of Developmental Delay

According to the American Academy of Pediatrics (AAP), a developmental delay occurs when a child doesn't reach expected developmental milestones in one or more areas, such as motor skills, speech, language, cognitive abilities, or social skills, compared to other children of the same age

American Academy of Pediatrics



DEDICATED TO THE HEALTH OF ALL CHILDREN™



Global Developmental Delay



GDD, as defined in the DSM-5, refers to a significant delay in two or more areas of development, such as cognitive, motor, communication, social, and self-help skills.

The delay must be evident the age of 5 years old

Developmental Dissociation

 One area of development significantly more delayed





Developmental Deviation



Achieving developmental milestones unevenly in different areas

More atypical



Risk Factors

Prenatal exposures

Birth complications

Perinatal complications

Medical conditions

Genetic conditions



Risk Factors

ACE

Teen parents

Parent with unemployment/mental health issues

Parents with limit education/lite

Developmental Screeners

 There are several standardized screening tools that can be used to identify developmental delays in children. These tools are typically administered during routine pediatric visits or in specialized developmental evaluations.



Ages and Stages

- Age Range: 1 month to 5½ years
- Description: The ASQ is a parentcompleted questionnaire that screens for developmental delays in five domains: communication, gross motor, fine motor, problemsolving, and personal-social development.
- Purpose: It helps identify children who might need further assessment or intervention.
- Frequency: Typically given at well-child visits, especially around 9, 18, and 24 months.





Modified Checklist for Autism in Toddlers (M-CHAT)

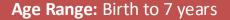


- Age Range: 16 to 30 months
- Description: M-CHAT is a parentreport tool designed to screen for signs of autism spectrum disorder (ASD). It consists of 23 yes/no questions that evaluate early behaviors associated with autism.
- **Purpose:** It helps identify children at risk for autism who may require further evaluation.
- around 18 months and months.



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The Brigance Screens





Description: The Brigance Screening tool includes a series of tests to assess areas such as motor skills, language development, cognitive skills, and social-emotional development.



Purpose: It helps identify children who may benefit from early intervention services.

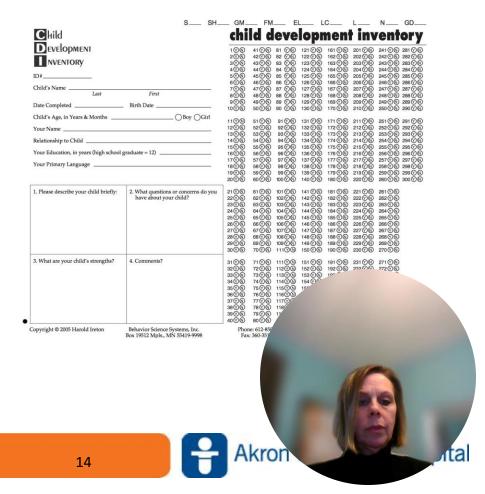
Frequency: The screenings are typically give developmental assessments during pe





Child Development Inventories (CDI)

- Age Range: 6 months to 6 years
- Description: The CDI is a parent questionnaire designed to assess a child's development in areas like language, motor skills, and social behaviors.
- Purpose: It can help identify developmental issues or concerns about milestones.
- Frequency: Administered at pediatric visits when there is concern about developmental progress.

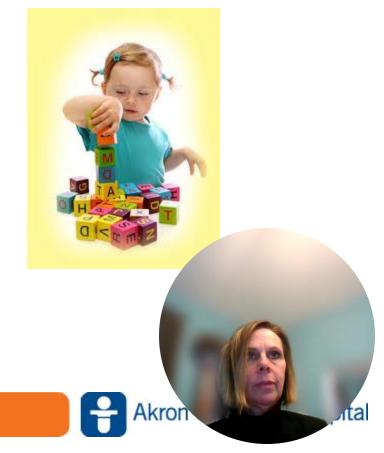


Pediatric Symptom Checklist (PSC)

- Age Range: 4 to 18 years
- **Description:** The PSC is a screening tool for emotional and behavioral problems in children. It is completed by the parent and evaluates signs of emotional difficulties or behavioral concerns.
- **Purpose:** It identifies children who might benefit from further psychological or developmental assessment.
- Frequency: Administered during routine well-child especially if behavioral or emotional concerns

Denver Developmental Screening Test II (DDST-II)

- Age Range: Birth to 6 years
- Description: The DDST-II
 evaluates a child's development
 in four areas: personal-social, fine
 motor-adaptive, language, and
 gross motor skills.
- Purpose: It is used for early identification of developmental delays and is often used by healthcare providers.
- Frequency: It is often used at early visits, such as the 9, 18, and 30-month checkups.



Screening Tool for Autism in Two-Year-Olds (STAT)



- Age Range: 24 months
- **Description:** The STAT is a structured screening tool to assess the risk of autism in two-year-olds. It involves a series of play-based activities and tasks to evaluate social and communication skills.
- Purpose: It is specifically designed for early autism screening at the 2-yr
- Frequency: Given 2-year well-child is suspected.



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Vanderbilts For ADHD



The number of symptoms required for an ADHD diagnosis (by age group) are as follows:

■ Six or more symptoms of inattention and/or hyperactivity-impulsivity for children up to age 16 years, OR

inattention and hyperactivity-impuladolescents ages and older and a

Anxiety Screeners

Preschool Anxiety Scale SCAREDparent and child

GAD-7

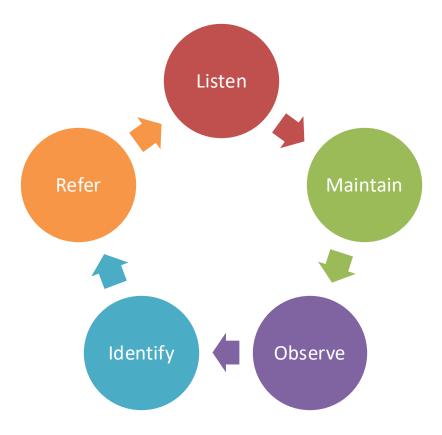


Pitfalls to Developmental Screenings

- Overreliance on screening tools
- False positives/false negatives
- Cultural/Linguistic Bias
- Lack of follow up
- Subjectivity



Approach to Surveillance





Protective/resilience factors

Strong connections

Active caregiver-child engagement

Opportunities to interact with other children



So, when do you refer



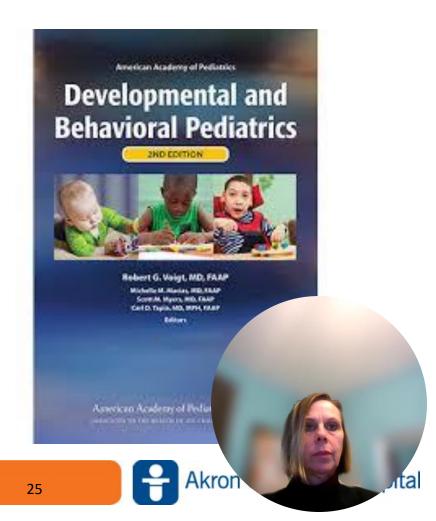


Official AAP Definition

 Developmental-behavioral pediatrics (DBP) is a boardcertified, medical subspecialty that cares for children with complex and severe DBP problems by recognizing the multifaceted influences on the development and behavior of children and addressing them through systems-based practice and a neurodevelopmental, strength-based approach that optimizes functioning. Developmental behavioral providers care for children from birth through young adulthood along a continuum including those suspected of, at risk for, or known to have developmental and behavioral disorders. (Pa April, 2022, Volume 149, Issue 4)

What is Developmental Behavioral Pediatrics?

- Definition: A subspecialty of pediatrics focused on the development and behavior of children.
- Importance: Helps identify and manage developmental and behavioral issues early.



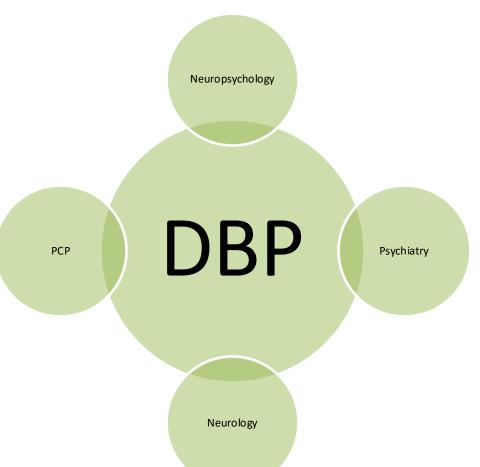
Referring to DBP

 "It would be an impossible task for DBPs or other subspecialists to care for all children with DBP problems, given the high prevalence and the limited numbers of board-certified DBPs practicing nationally. DBPs, therefore, are needed when children have problems of greater severity or complexity, such as multiple co-occurring problems and disorders; general pediatricians need to be able to care for the majority of children with mild or moderate develops behavioral concerns"

Different Roles of DBP providers

 Due to long wait lists, DBPs' role may be restricted to establishing a diagnosis and plan for intervention; at other centers, it may involve providing longitudinal, coordinated care. DBPs can determine a developmental-behavioral diagnosis; direct the etiological evaluation; provide counseling to children and families; prescribe psychotropic medications to address behavior, emotional and regulatory problems; and offer recommendations for intervention in children with neurodevelopmental disorder including ASD, intellectual disability, and and learning disabilities.

Professional Overlaps





Key Areas of Focus



Autism Spectrum Disorder

ADHD

Learning Disabilities

Intellectual Disabilities

Developmental Delays

Behavior Concerns



Additional Diagnoses

Genetic Disorders

Feeding Disorders

Anxiety

Sleep Difficulties

 Vary substantially between hospital systems



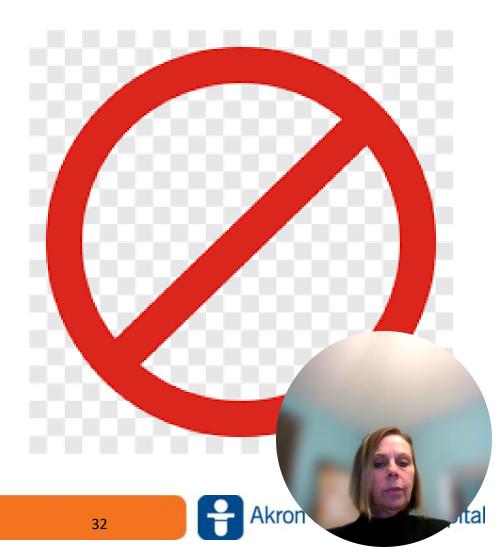
Reasons for Referrals

Aggression	
Attention-deficit/hy peractivity disorder	
Adoption and foster care	
Anxiety and depression	
Autism spectrum disorder	
Cerebral palsy	
Developmental delay	
Enuresis and encopresis	
Feeding and eating problems	
Fetal alcohol spectrum disorders	
Gender identity and sexuality	
Genetic disorders with associated DBP problems	
Hearing impairment	
Intellectual disability	
Learning problems	
Medically complex patients with DBP problems	
Motor delay	
Obsessive-compulsive and related disorders	
Oppositional behaviors and other disruptive behavior disorders	
Parent-child interaction problems	
Parent guidance for children in distress	
Preterm infants at risk for DBP problems	
School problems	
Sleep problems	7
Speech and language disorders	
Spina bifida	
Temper amental variation	
Tourette's and other tic disorders	
Trauma	
Visual impairment	



NOT DBP appropriate

- Suicidal Ideation
- Arson
- Animal cruelty
- Bipolar/Mood disorder



The American Board of Pediatrics Entrustable Professional Activities for Developmental-Behavioral Pediatrics

EPA	Description
EPA-1	Effectively advocate for children and families affected by developmental and behavioral disorders.
EPA-2	Effectively communicate with families, schools, and community organizations to facilitate their understanding of children's developmental-behavioral diagnoses and to promote their engagement in clinical decision making and treatment.
EPA-3	Perform comprehensive histories and physical and neurodevelopmental examinations to make accurate diagnoses for patients presenting with developmental-behavioral concerns from infancy through young adulthood.
EPA-4	Recognize and longitudinally manage behavioral variations problems, and disorders in typically developing childr children with developmental disorders.
EPA-5	Recommend appropriate medical workup and even medical, therapeutic, educational, and behaviors children with developmental-behavioral disorder

Multidisciplinary Clinics

Myelo

Downs Syndrome

Neurofibromatosis

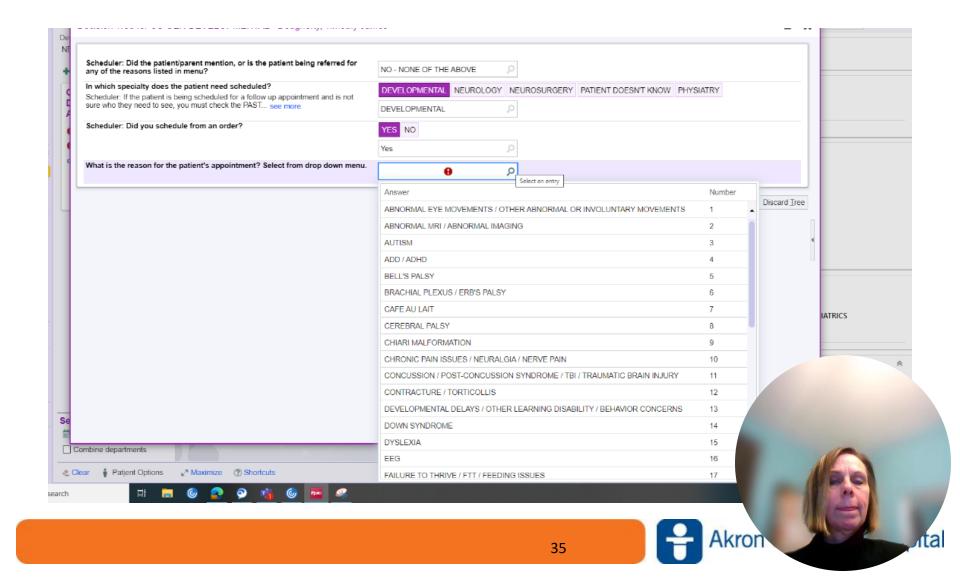
Autism Diagnostic Center

NICU

LYFT

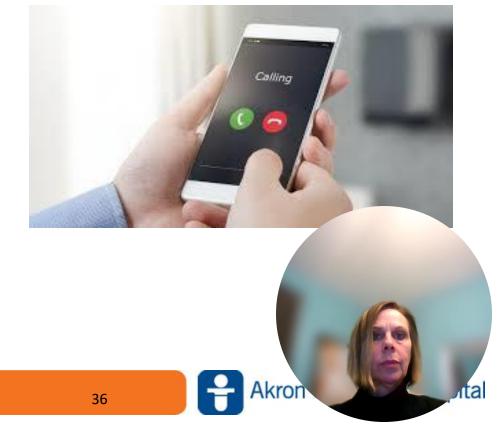


What referral looks like

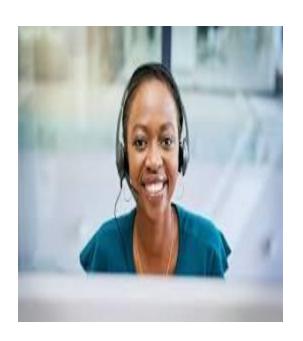


Then what happens....

 Appointment center will try two times to call the number on file before the referral will be deferred for one year. If the family calls back in at any time during the year, they can schedule a nurse intake. If the patient is NEW to DBP, they will automatically be filtered to nurse intake so we can best help the family determine next steps. These can be a phone call or video appt.



What happens during nurse triage





Nurse will discuss guardian concerns and enter a note into the chart



Nurse will explain what is needed for the appointment with DBP provider



Nurse will give suggestions v for appointn





Pilot Program

- Five ACHP Providers educated on administering RITA-T, DSM 5 criteria for autism and ADOS
- Order for DBP will be entered as it is now
- Families will be contacted and offered to have ADOS evaluation at nearby ACHP office



Initial DBP appointment

 gather a detailed history, conduct a physical exam, and observe your child's behavior to assess developmental and behavioral concerns, ultimately leading to a treatment plan, which may include medication, therapies and/or school interventions or further testing

Review previous evaluations from other species school and therapists

While you wait.....







Support Services



Infant Therapy for global developmental delays

Help Me Grow

Speech, PT or OT

Developmental preschool

Educational evaluation



Additional Support



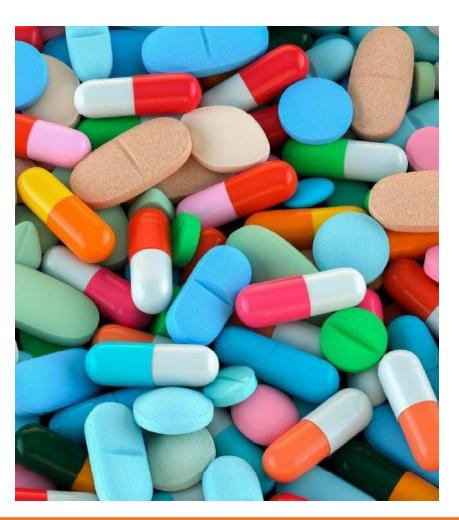
Triple P

Behavioral Therapy

Counseling



ADHD Medication



Stimulants
 Methylphenidates
 Amphetamine Salts
 -IR-under 6 yo, XR-6 and older

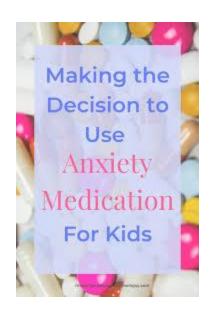
Non-stimulants

Alpha Agonists-Clonidine/Kapvay/Onyda, Guanfacine/Intuniv

Strattera Qelbree



Anxiety Medication



Buspar

Zoloft

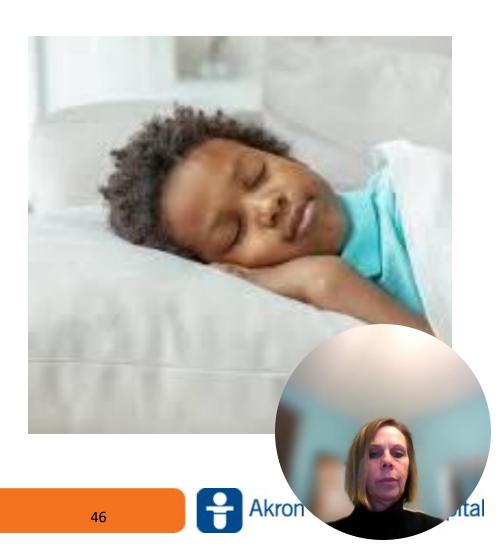
Prozac





Sleep

- *Encourage good sleep hygiene
- *daytime exercise
- *limit screen time
- *draw ferritin if picky eater-want it over 50
- *trial melatonin in small amounts-1 mg every week or so but don't exceed 6 mg
- *Clonidine, Atarax, Trazodone
- *Sleep Clinic



Online Resources

ADHD

- CHADD
- ADDitude
- National Institute of Mental Health
- Understood.org
- AACAP

Autism

- Autism Speaks
- Autism Society of Great Akron
- OCALI
- Milestones



E-consult

a secure online communication between a primary care physician (PCP) and a specialist healthcare provider. It allows for real-time exchange of medical information and expert advice without the need for an in-person visit.



References

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 Defining developmental-behavioral pediatrics. *Pediatrics*, 149(4). https://doi.org/10.1542/peds.2021-054771
- Lipkin, P. H., Macias, M. M., Council on Children with Disabilities, & Section on Developmental and Behavioral Pediatrics. (2020). Promoting Optimal Development: Identifying Infants and Young Children With Developmental Disorders Through Developmental Surveillance and Screening. *Pediatrics*, 145(1),

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 Baum RA, Berman BD, Fussell JJ, Patel R, Roizen NJ, Voigt RG, Leslie LK. Child Health Needs and the Developmental—Behavioral Pediatrics Workforce Supply: 2020–2040. *Pediatrics*. 2024 Feb 1; [Supplement Article].

Great Resource!!!

Cohen Children's Medical Center ADHD Medication Guide

adhd med guide 082824 1203.pdf

