



## Screening Tools for Developmental Delays and Autism Spectrum Disorders

WCC age	Developmental Screening CPT 96110	Autism Spectrum Disorder Screening CPT 96110 <u>U</u> 1
9 months	X	
18 months	X	X
24 months		X
30 months	X	

Based on the Bright Futures Periodicity Schedule there are several recommended Structured Screenings throughout the child's life to screen for Developmental Delays and Autism. These structured screenings require the use of validated screening tools to assess for clinical indication that the child may need further clinical evaluation.

Highmark Wholecare plans do not endorse or require any specific screening tool for screening purposes. This list is not all-inclusive, and other validated screening tools may be available. Each practice is encouraged to utilize a validated screening tool that is best suited for their individual situation.

Screening for Developmental Delays – 9 months, 18 months, 30 months				
Validated Screening Tool	Age for Use	Description	Administration Time Scoring information (if available)	Where to find additional information / purchase
<b>Ages and Stages Questionnaire (ASQ) – 3rd Ed.</b>  <b>English / Spanish / French / Chinese, Arabic / Vietnamese</b>	Birth to 66 months	The parent-completed <b>Ages &amp; Stages Questionnaires®, Third Edition (ASQ®-3)</b> is the easiest, most accurate, and most cost-effective way to pinpoint delays early and celebrate children's milestones. ASQ-3 screens children between one month and 5½ years, without any gaps between the questionnaire age intervals. ASQ-3 is recommended by top organizations such as the American Academy of Neurology, First Signs, and The Child Neurology Society* and is used across the world by early childhood education programs, health care practices, social workers, and more.	~ 15 - 20 minutes, less if parents complete independently (each questionnaire takes 10-20 minutes to complete, with 2-3 minutes to score)  <b>Scoring:</b> In minutes	Product information: <a href="https://brookespublishing.com/">https://brookespublishing.com/</a>  May be administered by: Parents; home visitors; other providers; requires a 6th grade reading level. Professionals score the questionnaires.

		<b>Validated to screen for Autism.</b>		
<b>Battelle Developmental Inventory Screening Test, 2<sup>nd</sup> ed (BDI-2)</b>  <b>English / Spanish</b>	0 – 7 years 11 months	This directly administered screening tool is comprised of 96 items with a focus on: personal-social skills; adaptive behavior; psychomotor ability; communication and cognition (including subtests for fine and gross motor skills and expressive and receptive communications. The BDI-2 Screening Test can be modified for children with special needs	10-30 minutes  Scoring: Quantitative; scaled scores in all 5 domains are compared with cutoffs to determine need for referral.	The BDI-2 Screener Test and the BDI-2 Screener Kit may be purchased from:  Riverside Insights: 800-323-9540 <a href="https://www.riversideinsights.com/c/shop-all/">https://www.riversideinsights.com/c/shop-all/</a>
<b>Bayley Scales of Infant and Toddler Development® Third Edition Screening Test (Bayley-III®)</b>  <b>English</b>	1 Month to 3 years 6 months	Developmental areas measured focus on: cognitive; language (expressive and receptive communications); fine motor and gross motor domains.	15-25 minutes  Scoring: Cut scores according to age for cognitive language and motor scales	The Baley-III® Screening Test may be purchased from  Pearson: 800-211-8378 <a href="http://pearsonassess.com">http://pearsonassess.com</a>
<b>Child Development Inventories (CDI)</b>  <b>English / Spanish</b>	3 - 72 months;  IDI for 3-18 months;  ECDI for 18-36 months;  PDI for 36-60 months	Three separate instruments [the Infant Development Inventory (IDI), Early Child Development Inventory (ECDI), & the Preschool Development Inventory (PDI)] each with 60 yes-no descriptions. Inventories measure a child’s development in five domains: gross motor, fine motor, language, comprehension, and person-social. Items tap the better predictors of developmental status only. A 300-item assessment-level version may be useful in follow-up studies or sub-specialty clinics & produces age equivalent & cutoff scores in each domain.	~ 10 minutes, less if parents complete independently  <b>Scoring:</b> The ECDI & the PDI produce a single cutoff tied to 1.5 standard deviations. T-scores may be calculated from this information. The IDI provides cutoffs for each of five developmental domains & illustrates both significantly advanced & delayed development.	The CDIs can be mailed to families, completed in waiting rooms, administered by interview or by direct elicitation.  <a href="https://childdevelopmentreview.com/specialistools/child-development-inventory">https://childdevelopmentreview.com/specialistools/child-development-inventory</a>
<b>Parents’ Evaluations of Developmental Status (PEDS)</b>  <b>English / Spanish / Vietnamese</b>  <b>Licensing also available in: Somali, Hmung, Malaysian, Arabic, Chinese, Swahili, and many other languages.</b>	Birth to 8 years	A surveillance and screening tool, for children 0 to 8 years, that elicits and addresses, with evidence-based support, parents’ concerns about development, behavior and mental health. PEDS saves time, promotes family collaboration and willingness to return for future visits. It is published in many languages and includes abundant information to support helping parents learn about child-rearing. Available for licensing in Somali, Hmung, Malaysian, Arabic, Chinese, Swahili, and many other languages. Please contact PEDS for translation needs.	2 – 10 minutes, less if parents complete independently	Product information: <a href="http://www.pedstest.com/">http://www.pedstest.com/</a>  Written at the 4th to 5th grade level, parents can complete the measure while they wait for appointments.

<p><b>PEDS: Developmental Milestones (PEDS:DM)</b></p> <p><b>English / Spanish / Vietnamese</b></p> <p><b>Licensing also available in: Somali, Hmung, Malaysian, Arabic, Chinese, Swahili, and many other languages.</b></p>	<p>Birth to 7-11 years</p>	<p>A surveillance and screening tool for children 0 – 8 that enables a swift view of children’s skills in development and mental health, including expressive and receptive language, fine and gross motor skills, self-help, academics, and social-emotional skills. The PEDS:DM also includes supplemental measures of psychosocial risk, resilience, autism-specific screening (M-CHAT-R), and several screens for older children including the Vanderbilt ADHD Scale. An Assessment Level version is also available to help with early intervention intake and NICU follow-up.</p> <p><b>Validated to screen for Autism.</b></p>	<p>2 – 10 minutes, less if parents complete independently</p>	<p>Product information: <a href="http://www.pedstest.com/">http://www.pedstest.com/</a></p> <p>Written at the 4th to 5th grade level, parents can complete the measure while they wait for appointments.</p>
<p><b>Survey of Well-Being of Young Children (SWYC)</b></p> <p><b>English / Spanish / Vietnamese / Arabic / Somali / Nepali / Burmese / Portuguese / Haitian-Creole / Khmer</b></p>	<p>0-60 months</p>	<p>The <b>SWYC</b> was created to provide a screening instrument that is comprehensive, including cognitive, language, motor, and social-emotional development as well as family risk factors (parental depression, conflict, or substance abuse, and hunger).</p> <p><b>Validated to screen for Autism.</b></p>	<p>10 minutes</p>	<p>Product information: <a href="https://www.floatinghospital.org/The-Survey-of-Wellbeing-of-Young-Children/Overview.aspx">https://www.floatinghospital.org/The-Survey-of-Wellbeing-of-Young-Children/Overview.aspx</a></p> <p>Age Range Guide: <a href="https://www.floatinghospital.org/the-survey-of-wellbeing-of-young-children/parts-of-the-swyc/milestones#">https://www.floatinghospital.org/the-survey-of-wellbeing-of-young-children/parts-of-the-swyc/milestones#</a></p>

<p align="center"><b>Autism Screening – 18 months, 24 months</b></p>				
<p><b>Autism Spectrum Rating Scales (ASRS®)</b></p> <p><b>English / Spanish</b></p>	<p>2 years to 18 years</p>	<p>Provides the first nationally standardized, norm-referenced ASD rating scale. This multi-informant measure helps identify symptoms, behaviors, and associated features of Autism Spectrum Disorders in children and adolescents.</p> <p>Measures key areas including Social/Communication, Unusual Behaviors, Self-Regulation (Full form for ages 6-19), Peer Socialization, Adult Socialization, Atypical Language, and Stereotypy.</p> <p><i>Short Form can be used for screening or treatment monitoring.</i></p>	<p>Full Form: 20 minutes</p> <p>Short Form: 5 minutes</p>	<p>Autism Spectrum Rating Scales (ASRS®) can be purchased from:</p> <p>Pearson: 800-211-8378 <a href="http://pearsonassess.com">http://pearsonassess.com</a></p>

<p><b>Checklist for Autism in Toddlers (CHAT)</b></p> <p><b>English / Spanish</b></p>	<p>18 to 24 months old</p>	<p>The Checklist for Autism in Toddlers is a short questionnaire which is filled out by the parents and a primary health care worker at the 18 month developmental check-up. It aims to identify children who are risk for social-communication disorders. It consists of two sections: the first nine items are questions asked to the parents, and the last five items are observations made by the primary health care worker. The key items look at behaviors which, if absent at 18 months, put a child at risk for a social-communication disorder. These behaviors are (a) joint attention, including pointing to show and gaze-monitoring (eg looking to where a parent is pointing), and (b) pretend play (eg pretending to pour tea from a toy teapot).</p>	<p>5 -10 minutes</p> <p>Scoring: Yes/No answers convert to high, medium, or low risk for autism based on answer conversion.</p>	<p>Checklist for Autism in Toddlers can be found at:</p> <p><a href="http://www.helpautismnow.com/CHAT_Checklist_English.pdf">http://www.helpautismnow.com/CHAT_Checklist_English.pdf</a></p> <p><a href="http://www.helpautismnow.com/CHAT_Checklist_Spanish.pdf">http://www.helpautismnow.com/CHAT_Checklist_Spanish.pdf</a></p>
<p><b>Modified Checklist for Autism in Toddlers, Revised with Follow-Up (M-CHAT-R/F)</b></p> <p><b>English / Spanish</b></p>	<p>16 to 30 months old</p>	<p>The M-CHAT-R/F is a 2-stage parent-report screening tool to assess risk for Autism Spectrum Disorder. This tool is designed for children ages 16 to 30 months of age. Results can identify who should receive a more thorough assessment for early signs of Autism Spectrum Disorder or Developmental Delay.</p>	<p>5 minutes</p> <p><b>Scoring:</b> Yes/No answers convert to pass/fail responses.</p>	<p>M-CHAT-R/F can be found at:</p> <p><a href="http://mchatscreen.com/">http://mchatscreen.com/</a></p>

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