

Developmental Checkups – Three Good Choices for Practices and Providers: ASQ, PEDS and PEDS:DM*

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Tool	Description	Developmental Domains Covered	Accuracy**	Age Range	Adm. Time	Scoring	The Science Behind the Tool	Languages & Reading Level	Costs	To Purchase & for Details
ASQ <i>Ages and Stages Questionnaires</i> Parental-report about a child's skills and behavior	30 questions (answered <i>yes, sometimes, no, or not sure</i>), plus 7-8 unscored <i>Overall</i> questions. Parents indicate a child's developmental skills, using one of 19 age-specific questionnaires.	All Domains Covered communication, gross motor, fine motor, problem-solving, and personal-social skills	Sensitivity: 70-90% Specificity: 76-91%	4-60 months (5 years) Can be given as young as 3 months	15-30 minutes	Pass/fail score for each developmental domain. Provides a cutoff score in each developmental domain (2 standard deviations below the mean).	Standardized on 8,530 children from diverse ethnic and socioeconomic backgrounds, including Spanish-speaking. Validated on 1,613 children. Published validation studies.	English, Spanish, French and Korean Vietnamese expected in 2009. Unpublished versions in additional languages available from publisher. Reading level varies from 3rd to 12th grade.	Initial purchase: \$199 per kit (either paper or CD-ROM), including <i>ASQ User's Guide</i> and 19 age-specific forms to be copied as screenings are done. <u>To administer, score, interpret each screen:</u> \$4.60 (copying age-specific forms and staff time).	Paul H. Brookes Publishing Company, PO Box 10624, Baltimore, MD 21285, 800-638-3775; www.brookespublishing.com and www.agesandstages.com . <i>For ASQ-Online (expected 2009), see www.patienttools.com.</i>
PEDS <i>Parents' Evaluation of Developmental Status</i> Parental-report about parental concerns	10 questions (the same for all ages, answered <i>yes, no, a little</i>). Parents identify "concerns" they have in each developmental domain.	All Domains Covered expressive language and articulation, receptive language, gross motor, fine motor, school, self-help, social-emotional, behavior, and global-cognitive	Sensitivity: 74-79% Specificity: 70-80%	0-95 months (7 years, 11 months)	2-10 minutes	Low, moderate or high risk for each developmental domain. Provides algorithm to determine whether to refer, do additional screening, or reassure parents that development is normal.	Standardized on 6,360 children from diverse ethnic and socioeconomic backgrounds, including Spanish-speaking. Validated on 1,279 children. Published validation studies.	English, Spanish, Arabic, Chinese, French, Haitian-Creole Indonesian, Lao, Malay, Portuguese, Russian, Somali, Swahili, Taiwanese, Thai and Vietnamese 4th to 5th grade reading level.	Initial purchase: \$30 for starter set, including <i>Brief Guide to Scoring and Administration</i> , and Scoring and Interpretation forms for 50 children. Bulk discounts for Scoring and Interpretation forms. <u>To administer, score, interpret each screen:</u> \$1.20 (purchase copies of one-page PEDS forms and staff time). Cost per screen of PEDS-Online ranges from \$1-\$2 if licensed by a provider to \$9.95 if done individually online.	Ellsworth & Vandermere Press LLC, 1013 Austin Court, Nolensville, TN 37135, 888-729-1697, fax 615-776-4121; http://www.pedstest.com . <i>To request a trial license for PEDS-Online, email glascofp@pedstest.com.</i>
PEDS:DM <i>PEDS: Developmental Milestones</i> Parental-report about a child's skills and behavior	6-8 items or questions , depending on the age level. Parents indicate a child's developmental skills, using one of 22 age-specific questionnaires.	All Domains Covered expressive and receptive language, gross motor, fine motor, self-help, social-emotional, behavior, and reading and math (<i>for older children</i>)	By domain: Sensitivity: 75-87% Specificity: 71-88% Across ages: Sensitivity: 70-94% Specificity: 77-93%	0-95 months (7 years, 11 months)	3-5 minutes	Pass/fail score for each developmental domain. Provides a cutoff score for children below the 16th percentile in each developmental domain. The <i>Assessment Version</i> enables users to compute age-equivalent scores and percentage of delayed or advanced development.	Standardized on 1,296 children from diverse ethnic and socioeconomic backgrounds, including Spanish-speaking. Published validation studies.	English and Spanish Less than 2nd grade reading level.	Initial purchase: \$275 for kit, including reusable laminated form, grease pen, <i>Family Book, Professionals' Manual, Case Study</i> and 100 patient recording forms. <u>To administer, score, interpret each screen:</u> \$1.10 (purchase scoring forms and staff time).	Ellsworth & Vandermere Press LLC, 1013 Austin Court, Nolensville, TN 37135, 888-729-1697, fax 615-776-4121; http://www.pedstest.com .

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There are two types of **accuracy. **Sensitivity** refers to the percentage of children with a disability or problem who are correctly identified by the screening tool. **Specificity** refers to the percentage of children without a disability or problem who are correctly identified by the screening tool.