

Section on Pediatrics

List of Assessment Tools Used in Pediatric Physical Therapy

Created by the Practice Committee 05/04

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This list of assessment and evaluation tools and measures is NOT exhaustive. The Practice Committee has attempted to compile a list of the tools that are most commonly used by pediatric physical therapists. There are many other tools, as well as many Web sites, with additional information. This list should serve as a starting point for anyone seeking information on assessment and evaluation tools and measures. The Practice Committee suggests the following Web site as one source of additional information: <http://nieer.org/assessment/>. If you have additional tools or measures that you believe should be added to this list, please complete the form at the end of this document and submit it to the Section on Pediatrics at cindysliwa@apta.org.

Assessment Tools

ABILITIES INDEX

Author: Rune J. Simeonsson, Donald B. Bailey

Publisher: FPG Publications, CB #8185, Chapel Hill, NC 27599-8185

Purpose: Documents the nature and extent of the functional characteristics of childhood disability.

Has potential to identify discrete profiles of functional characteristics

Age Range: 36-months to 69-months

Areas Tested: Index of 9 domains: Audition, Behavior and social skills, Intellectual function, Limbs, Intentional communication, Tonicity, Integrity of physical health, Eyes, and Structural status.

ACTIVITIES SCALE FOR KIDS (ASK)

Author: Nancy Young

Purpose: To assess physical function in children in both capacity and performance

Age Range: 5-years to 15-years

Areas Tested: 30-items in 7 domains: Personal care, Dressing, Other skills, Locomotion, Play, Standing skills, and Transfers. Scale is available in the performance (ASKp) and capability (ASKc) versions.

AGES & STAGES QUESTIONNAIRES (ASQ-3) – Third Edition

Authors: Diane Bricker, Jane Squires, & LaWanda Potter

Publisher: Paul H. Brookes Publishing Co., PO Box 10624, Baltimore, MD 21285-0624

Purpose: To determine the developmental level of a child through parent report

Age Range: 1-month to 66-months (2, 4, 6, 8, 9, 10, 12, 14, 16, 18, 20, 22, 24, 27, 30, 33, 36, 42, 48, 54, 60)

Areas Tested: 21-questionnaires each containing 30-items covering 5 areas of development: Communication,

Gross motor, Fine motor, Problem solving, Personal-social

AGES & STAGES QUESTIONNAIRES: Social Emotional (ASQ:SE)

Authors: Jane Squires, Diane Bricker, and Elizabeth Twombly

Publisher: Paul H. Brookes Publishing Co., PO Box 10624, Baltimore, MD 21285-0624

Purpose: To help identify young children at risk for social emotional difficulties.

Age Range: 3-months to 66-months (6, 12, 18, 24, 30, 36, 48, and 60)

Area Tested: 22 to 36-questions on social and emotional behavior

ALBERTA INFANT MOTOR SCALE (AIMS)

Author: Martha C. Piper and Johanna Darrah

Publisher: *WB Saunders Co., The Curtis Center, Independence Mall West, Philadelphia, PA 19106*

Purpose: To identify infants and toddlers with gross motor delay and to evaluate gross motor skill maturation over time

Age Range: Birth to 18-months

Areas Tested: 58-gross motor skill items divided among 4 positions: prone, supine, sitting, standing

Each item observed for the components of: weight bearing, posture, and anti-gravity movement

ASSESSMENT, EVALUATION, AND PROGRAMMING SYSTEM FOR INFANTS AND CHILDREN (AEPS) – Second Edition

Author: Diane Bricker, Kristie Pretti-Fontczak, JoAnn (JJ) Johnson, & Elizabeth Straka,

Publisher: Paul H. Brookes Publishing Co., PO Box 10624, Baltimore, MD 21285-0624

Purpose: To determine level of skill attainment, assist in the development of programmatic outcomes, goals and objectives, and monitor progress toward attainment of outcomes over time

Age Range: Birth to 3-years and 3-years to 6-years years

Areas Tested: 228-items divided among 6-domains which are further divided into strands: Fine motor (reach, grasp, release, functional use); Gross motor (movement in prone and supine, balance in sitting, standing and walking, and play); Adaptive (feeding, hygiene, undressing); Cognitive (sensory causality, problem-solving, pre-academic interaction with objects); Social (interaction with adults, peers, and environment); Communication (pre-linguistic, expressive, receptive)

ASSESSMENT OF LIFE HABITS (LIFE-H)

Authors: Luc Noreau, Patrick Fougeyrollas, Claude Vincent

Publisher: INDCP, 525, boul. Wildrif-Hamel Est, local A-08, Quebec, Canada G1M 2S8

Purpose: To evaluate social participation in life activities of people with disabilities.

Age Range: Birth to 13-years

Areas Tested: Long Form: 242-questions in 12-categories: Nutrition, Fitness, Personal care, Communication, Housing, Mobility, Responsibilities, Interpersonal relationships, Community life, Education, Employment, and Recreation. Each question scored on level of accomplishment, types of assistance required and level of satisfaction.

Short Form: 77-questions in the above 12-categories

BATTELLE DEVELOPMENTAL INVENTORY, SECOND EDITION (BDI-2)

Authors: Jean Newborg

Publisher: Riverside Publishing Co., 8420 Bryn Mawr Avenue, Chicago, IL 60631

Purpose: Judgment or performance based measure administered through structured format, interviews with caregivers or naturalistic observations. Screening, diagnosis, and evaluation of early development

Age Range: Birth to 8-years

Areas Tested: Gross motor, Fine motor, Personal-social, Language and Cognitive skills,

BAYLEY INFANT NEURODEVELOPMENTAL SCREENER (BINS)

Author: Glen P. Aylward

Publisher: Psychological Corporation, 19500 Bulverde Rd., San Antonio, TX 78259

Purpose: To identify infants who are at risk for delays or neurological impairments

Age Range: 3-months to 24-months

Areas Tested: 72-items divided among 6 age sets (3, 6, 9, 12, 18, 24 months) each containing 11-13 items. Items are categorized into 4 "conceptual areas of ability": Basic neurological functions/intactness (tone, reflexes, and abnormal signs); Receptive functions (visual, auditory, verbal); Expressive functions (gross motor, fine motor, vocalizations); Cognitive processes (memory, problem solving, object permanence, attention)

BAYLEY SCALES OF INFANT DEVELOPMENT-III

Author: Nancy Bayley

Publisher: Psychological Corporation, 19500 Bulverde Rd., San Antonio, TX 78259

Purpose: To identify developmental delay and to monitor a child's developmental progress

Age Range: 1-month to 42- months

Areas Tested: Consists of 3 scales: Mental (cognition, object permanence, memory, manipulation, problem solving, verbal communication, and comprehension) Motor (gross and fine motor development/ skill acquisition);

Behavior (qualitative aspects of child's behavior during administration of mental and motor scale)

BERG BALANCE TEST

Authors: Katherine Berg, Sharon Wood-Dauphinee, JI Williams, David Gayton

Purpose: Measures balance during movement activities

Age Range: 5-years and older

Areas Tested: 14 items including common movement activities such as picking an object up from the floor, walking and turning

BRIGANCE INVENTORY OF EARLY DEVELOPMENT, REVISED EDITION (BDIED-R)

Author : Albert Brigance

Publisher: Curriculum Associates, 5 Esquire Road, North Billerica, MA 01862-2589

Purpose: Commonly used assessment in early intervention and preschool programs to determine developmental delay in several domains and for program planning.

Age Range: Birth to 7-years

Areas Tested: Criterion-referenced test of: psychomotor, self-help, speech and language, general knowledge and comprehension, early academic skills and social-emotional development.

BRUININKS-OSERETSKY TEST OF MOTOR PROFICIENCY, SECOND EDITION (BOT-2)

Author: Robert Bruininks, Brett Bruininks

Publisher: Pearson, 19500 Bulverde Road, San Antonio, TX 78259-3701

Purpose: Developmental motor skills

Age Range: 4-years to 21-years

Areas Tested: Fine motor precision, fine motor integration, manual dexterity, bilateral coordination, balance, running speed and agility, upper-limb coordination, strength

CANADIAN OCCUPATIONAL PERFORMANCE MEASURE

Author: Mary Law, Sue Baptiste, Anne Carswell, Mary Ann McCall, Helene Polatajko, & Nancy Pollock

Publisher: CTTC Building, Suite 3400, 1125 Colonel By Drive, Ottawa, Ontario K1S 5R1

Purpose: To detect changes in parent or child's self-perception of performance over time.

Age Range: Any

Areas Tested: Satisfaction and disability rating of daily activities and routines, which are, identified by the child and family as important part of daily life

CAPUTE SCALES: CAT/CLAMS

Author: Arnold J. Capute

Purpose: To quantify delay in language and problem solving

Age Range: 1-month to 36-months

Areas Tested: Cognitive Adaptive Test (CAT): visual-motor skills, problem solving

Clinical Linguistic and Auditory Milestone Scale (CLAMS): receptive and expressive language

CAROLINA CURRICULUM FOR INFANTS AND TODDLERS WITH SPECIAL NEEDS, THIRD EDITION (CCITSN)

Authors: Nancy M. Johnson-Martin, Susan M. Attermeier, and Bonnie J. Hacker

Publisher: Paul H. Brookes Publishing Co., PO Box 10624, Baltimore, MD 21285-0624

Purpose: Curriculum based assessment used to determine approximate developmental level of children and programming strategies

Age Range: Birth to 36-months

Areas Tested: 359-items and curricula content covering 24 areas of development (sequences) divided among 5 developmental domains: Cognition, Communication, Social/adaptation, Fine motor, Gross motor

CAROLINA CURRICULUM FOR PRESCHOOLERS WITH SPECIAL NEEDS (CCPSN)

Authors: Nancy M. Johnson-Martin, Susan M. Attermeier, and Bonnie Hacker

Publisher: Paul H. Brookes Publishing Co., PO Box 10624, Baltimore, MD 21285-0624

Purpose: Curriculum based assessment used to determine approximate developmental level of children and programming strategies

Age Range: 2-years to 5-years

Areas Tested: More than 400 items and curriculum content covering 22 sequences divided among 5 domains of development: Cognition, Communication, Social Adaptation, Fine Motor, Gross Motor

CHILD HEALTH AND ILLNESS PROFILE- ADOLESCENT EDITION (CHIP-AE)

Author : B. Starfield, M. Berger, M. Ensminger, A. Riley, S. Ryan, B.Green,

Publisher: Johns Hopkins School of Public Health, 615 N. Wolfe Street, E4519, Baltimore, Maryland 21205

Purpose: Detects differences in health status among children with chronic illness.

Age Range: 11-years to 17-years

Areas Tested: Self-administered questionnaire of health assessment. Domains covered: comfort, satisfaction with health, risk, disorder, achievement of social expectations and resilience

CHILD HEALTH QUESTIONNAIRE (CHQ)

Author: Jeanne Landgraf, Linda Abetz, John Ware

Publisher: Quality Metric Inc., 640 George Washington Hwy., Suite 201, Lincoln, RI 02865

Purpose: Measures physical and psychosocial health concepts

Age Range: 2-months to 17-years

Areas Tested: Judgment based quality of life instrument, completed by parent or child.

CHILD HEALTH ASSESSMENT QUESTIONNAIRE (CHAQ)

Author: G. Singh, B. Arthreya, JF Fries, D. Goldsmith, B. Ostrov

Purpose: Judgment based quality of life measure; developed primarily for children with arthritis but has been used for children with other physical disabilities

Age Range: Any age

Areas Tested: Performance of activities of daily living and assistance required.

CHILDREN'S ASSESSMENT OF PARTICIPATION AND ENJOYMENT (CAPE) & PREFERENCES FOR ACTIVITIES OF CHILDREN (PAC)

Authors: Gillian King, Mary Law, Susanne King, Patricia Hurley, Peter Rosenbaum, Steven Hanna, Marilyn Kertoy, and Nancy Young

Publisher: Pearson, 19500 Bulverde Road, San Antonio, TX 78259-3701

Purpose: To examine how children and youth participate in recreation and leisure activities outside of school

Age Range: 6-years to 21-years

Areas Tested: Both measures contain 55-items related to children's participation scored on 3 levels: overall participation; formal and informal activities; and type of activity (recreational, active physical, social, skill-based, and self-improvement). Scores in these areas can be obtained for 5-dimensions on CAPE (diversity, intensity, enjoyment, with whom and where) and for 1-dimension on the PAC (preference)

CHILDREN'S HOSPITAL OF EASTERN ONTARIO PAIN SCALE (CHEOPS)

Authors: P.J. McGrath, G. Johnson, J.T. Goodman, J. Schillinger, and J. Dunn

Publisher: *Advances in Pain Research Therapy*. 1985;9:395-402.

Purpose: To evaluate postoperative pain in young children

Age Range: Birth to 4-years

Areas Tested: Points awarded for observation of 6-parameters: cry, facial, child verbal, torso, touch, legs

CHILDREN'S AND INFANTS POSTOPERATIVE PAIN SCALE (CHIPPS)

Authors: W. Buttner, W. Finke, M. Hilleke, S. Reckert, L. Vsianska, A. Brambrink

Publisher: *Paediatric Anaesthesia* 2000 **10**: 303–318

Purpose: To assess postoperative pain in infants

Age Range: Birth to 5-years

Areas Tested: crying, facial expression, posture of the trunk, posture of the legs, and motor restlessness

CLINICAL OBSERVATIONS OF MOTOR AND POSTURAL SKILLS 2ND EDITION (COMPS)

Author : Brenda Wilson, Nancy Pollack, Bonnie Kaplan, & Mary Law

Publisher: Therapro, 225 Arlington Street, Framingham, MA 01702-8723

Purpose: Screens for subtle motor coordination problems.

Age Range: 5-years to 9-years screening

Areas Tested: Tests subtle motor coordination during slow movements, arm rotation, finger-nose touching, prone extension posture, prone extension posture, asymmetrical tonic neck reflex, and supine flexion posture.

CRIES (CRIES, REQUIRES OXYGEN, INCREASED VITAL SIGNS, EXPRESSION, SLEEPLESSNESS)

DEGANI-BERK TEST OF SENSORY INTEGRATION (TSI)

Author : Georgia Degani & Ronald Berk

Publisher: Western Psychological Services, 12031 Wilshire Blvd., Los Angeles, CA 90025

Purpose: Screens for sensory integration dysfunction in preschoolers.

Age Range: 3-years to 5-years

Areas Tested: Criterion-referenced test of postural control, bilateral motor integration and reflex integration.

DENVER DEVELOPMENTAL SCREENING TEST-II

Author: William K. Frankenburg, Josiah Dodds, Phillip Archer, Beverly Bresnick, Patrick Maschka, Norman Edelman, and Howard Shapiro

Publisher: Denver Developmental Materials, Inc., PO Box 6919, Denver, CO 80206-0919

Purpose; to detect potential developmental problems in young children and monitor children at-risk for developmental problems

Age Range: 1-week to 6-years, 6-months

Areas Tested: 125-items divided among 4 areas of function: Personal-social (behavior, caring for self); Fine motor-adaptive (eye-hand coordination, manipulation of small objects, problem solving); Language (hearing, speaking, and understanding); Gross motor (sitting, walking, and jumping.) Also, 5 subjective "Test Behavior" items assessing overall test behavior.

DEVELOPMENTAL HAND DYSFUNCTION 2ND EDITION

Author : Rhonda Erhardt

Publisher: Therapy Skill Builders, 19500 Bulverde Rd., San Antonio, TX 78259-3701

Purpose: Used to determine delay or dysfunction in prehension skills, but without standardized scores. Useful tool in intervention planning.

Age Range: Birth-15-months

Areas Tested: Criterion-referenced assessment of prehension including positional-reflexive, cognitively directed movement and prewriting skills.

DEVELOPMENTAL OBSERVATION CHECKLIST SYSTEM (DOCS)

Author: Wayne P. Hresko, Shirley Miguel, Rita Sherbenou, & Steve Burton

Publisher: PRO ED, Inc., 8700 Shoal Creek Blvd., Austin, TX 78757-6897

Purpose: Provides general developmental assessment.

Age Range: Birth – 6-years

Areas Tested: Norm-referenced checklist covering language, motor, social and cognitive development. Also includes adjustment behavior and parent stress and support.

DEVELOPMENTAL PROGRAMMING FOR INFANTS AND YOUNG CHILDREN - REVISED (DPIYC)

Author: D. Sue Schafer, Martha S. Moersch, and Diane B. D'Eugenio

Publisher: University of Michigan Press, 389 Green Street, Ann Arbor, MI 48104

Purpose: To describe the developmental status of a child with a disability and assist with program planning and implementation

Age Range: Early Intervention Developmental Profile (EIDP): Birth to 36-months

Areas Tested: The EIDP has 299 items divided into 6 areas of development: Cognition, Gross Motor, Fine Motor, Language, Social-emotional, Self-care

DEVELOPMENTAL TEST OF VISUAL-MOTOR INTEGRATION – SIXTH EDITION (VMI)

Author : Keith E. Beery, PhD, Norman A. Buktenica, and Natasha A. Beery

Publisher: Pearson, 19500 Bulverde Road, San Antonio, TX 78259-3701

Purpose: Easy test to determine problems in visual-motor integration important in writing and reading.

Age Range: 2-years and older

Areas Tested: Norm-referenced test of visual perception, motor coordination, and integration.

DEVELOPMENTAL TEST OF VISUAL PERCEPTION – 2ND EDITION (DTVP-2)

Author : Donald Hammil, Nils Person, & Judith Voress

Publisher: Assists in distinguishing between problems in visual perception verses visual-motor problems.

Purpose: PRO-ED, Inc., 8700 Shoal Creek Blvd., Austin, TX 78757

Age Range: 4-years to 10-years

Areas Tested: Norm-referenced test of form consistency, figure ground, position in space and spatial relation.

DEVEREUX EARLY CHILDHOOD ASSESSMENT PROGRAM (DECA)

Author: P. A. LeBuffe, & J. A. Naglieri

Purpose: To measure resilience in preschool children. Resilience is defined as the ability to recover from or adjust to misfortune or change.

Age Range: Ages 2-years to 5-years

Areas Tested: The tool therefore addresses the child's social emotional development

EARLY INTERVENTION DEVELOPMENTAL PROFILE (EDP)- Revised Edition

Authors: D. Susan Schafer, Martha Moersch

Purpose: Developmental screening tool

Age Range: Birth to 3-years

Areas Tested: Cognition, gross motor, language, perceptual / fine motor, self-care, social/emotional

ENERGY EXPENDITURE INDEX (EEI)

Authors: Jessica Rose, James G. Gamble, Jane Lee, Robert Lee, William L. Haskell

Publisher: (1991) Journal of Pediatric Orthopaedics. 11(5):571

Purpose: Measure of endurance

Age Range: 3-years and older

Areas Tested: Calculation of heart rate, distance walked and time, Working HR – Resting Heart Rate/ Speed

ERHARDT DEVELOPMENTAL PREHENSION ASSESSMENT (EDPA) - Second Edition

Author: Rhonda P. Erhardt

Purpose: To describe the quality of both right and left arm and hand prehension patterns for treatment planning

Age Range: Birth to 15-months

Areas Tested: 341-items divided into 3 sections: 1. Positional-reflexive: involuntary arm-hand patterns; 2. Cognitively directed: voluntary movements of approach, grasp, manipulation, and release 3. Pre-writing skills: pencil grasp and drawing

FACE, LEGS, ACTIVITY, CRY, AND CONSOLABILITY BEHAVIORAL PAIN SCALE (FLACC)

Authors: Sandra I. Merkel, Terri Voepel-Lewis, Jay R. Shayevitz, Shobha Malviya

Publisher: Pediatric Nursing. 1997 May-Jun;23(3):293-7.

Purpose: To quantify pain behaviors in children who are not able to verbalize pain

Age Range: Birth to 18-years

Areas Tested: Observation of facial expression, leg movement, activity, cry and consolability

FACES PAIN SCALE

Author : D. Bieri, R. Reeve, L. Addicoat, & J. Ziegler.

Publisher: (1990). The Faces Pain Scale for the self-assessment of the severity of pain experienced by children. Pain, 41, 139-150.

Purpose: Measures self reporting of pain intensity, although probably a better measure of child's emotional distress.

Age Range: 6-years to 8-years

Areas Tested: Pain intensity rating scale using pictures of faces

FIRSTSTEP: SCREENING TEST FOR EVALUATING PRESCHOOLERS (FirstSTEP™)

Author : Lucy Jane Miller

Publisher: The Psychological Corporation, 19500 Bulverde Road, San Antonio, TX 78259

Purpose: Determine delay in all developmental areas.

Age Range: 2.9-years to 6.2-years

Areas Tested: Norm-referenced screening test of cognition, communication, motor, social-emotional, and adaptive behavior.

FUNCTIONAL INDEPENDENCE MEASURE FOR CHILDREN (WeeFIM)

Authors: Carl Granger, Susan Braun, Kim Griswood, Nancy Heyer, Margaret McCabe, Michael Msau, and Byron Hamilton

Publisher: Uniform Data System for Medical Rehabilitation, State Univ. of New York, Research Foundation, 82 Farbert Hall SUNY South Campus, Buffalo, NY 14214

Purpose: To determine the severity of a child's disability, the measurement of caregiver assistance needed in the performance of functional activities, and outcomes of rehabilitation

Age Range: Children without disabilities: 6-months to 8-years; Children with developmental disabilities: 6-months to

12-years; Children with developmental disabilities and mental ages less than 7-years

Areas Tested: 18-items grouped into 2 major categories of function: motor and cognition that are divided into 6 domains divided into sub domains:

Motor: Self-care (eating, grooming, bathing, dressing, toileting); Sphincter control (bladder and bowel management); Transfers (chair, wheelchair, toilet, tub, and shower); Locomotion (wheelchair/crawl, stairs);

Cognitive: Communication (comprehension, expression); Social cognition (social interaction, problem solving, and memory.)

FUNCTIONAL INDEPENDENCE MEASURE (FIM)

Authors: Dodds, Heinemann

Purpose: Measures mobility in the home and community environment & ability to perform ADLs

Age Range: 7-years through adulthood

Areas Tested: Performance in self-care, sphincter control, transfers, locomotion, communication and social cognition

FUNCTIONAL OUTCOMES ASSESSMENT GRID (FOAG)

Author: Phillipa H. Campbell

Purpose: To assist team in developing and implementing functional outcomes for children with disabilities

Age Range: No specific age range. Individualized based on desired outcomes thus age is not a factor

Areas Tested: 6 functional outcome areas associated with 4 disability categories (physical, sensory, special health care needs, and other): Caring for self, Communication, Learning and problem solving, Mobility, Play and leisure skills, Socialization. Performance areas delineated within each outcome area. Performance areas: posture and alignment against gravity, movement patterns, movement of body in space, secondary physical disabilities. Performance areas are further divided into performance components with items such as weight shifting, muscle tone, oral-motor control, transitional movements and movement patterns, etc.

FUNCTIONAL REACH TEST (FRT)

Purpose: Measure of anticipatory standing balance when reaching

Age Range: 4-years and older

Areas Tested: Measurement of the distance that the child can reach forward from a stationary standing position

GESELL AND AMATRUDA DEVELOPMENTAL AND NEUROLOGIC EXAMINATION - REVISED

Author: Hilda Knobloch, Frances Stevens, Anthony Malone (1987)

Purpose: It is a norm-referenced test identifying minor deviations in the areas of development and it is used to determine developmental status.

Age Range: 4-weeks to 36-months

Areas Tested: 5 areas of development: gross motor, fine motor, language, personal/social, adaptive

GROSS MOTOR FUNCTION MEASURE (GMFM)

Authors: Dianne Russell, Peter Rosenbaum, Carolyn Gowland, Susan Hardy, Mary Lane, Nancy Plews, Heather McGavin, David Cadman, and Sheila Jarvis

Publisher: Clinics in Developmental Medicine, No. 159, London, England: Mac Keith Press

Purpose: To evaluate change in gross motor function in children with cerebral palsy, describe a child's current level of motor function, and determine treatment goals

Age Range: No specific age range is recommended by the authors; however, the test has been validated on children between 5-months and 16-years.

Areas Tested: 88- items of gross motor function divided into 5 dimensions: Lying and rolling, Sitting, Crawling and kneeling, Standing, Walking, running, and jumping. Items were selected to represent those typically performed by children by age 5. Also, available in a 66-item version.

GROSS MOTOR PERFORMANCE MEASURE (GMPPM)

Author: W. Boyce, C. Gowland, P. Rosenbaum, S. Hardy, C. Lane, N. Plews, C. Goldsmith, D. Russell, V. Wright, S. Potter, D. Harding

Publisher: Social Program Evaluation Group at Queen's University in Kingston, Ontario, Canada.

Purpose: To evaluate the quality of movement of children with cerebral palsy

Age Range: 5-months to 12-years

Areas Tested: 20-items for 5 attributes: Alignment, Coordination, Dissociated movements, Stability, and Weight shift.

HARRIS INFANT MOTOR TEST (HINT) (Development Edition 3)

Author: Susan Harris

Publisher: Pro-Ed Inc, Austin, TX

Purpose: to screen for potential motor and cognitive developmental disorders in infants.

Age Range: 2.5-months to 12.5-months

Areas Tested: 4-general areas: Background information about the child and caregiver; Assessment of caregiver's level of concern about the infant's movement and play; 21-item assessment of infant's movement against gravity, muscle tone, behaviour and cooperation, stereotypical behaviours, and head circumference; and Overall clinician impression of the infant's development

HEALTH UTILITIES INDEX – MARK 3 (HUI-3)

Author: William Furlong

Purpose: Measures children's functional health status; can compute cardinal utility value to represent Health Related Quality of Life

Age Range: Any age

Areas Tested: Questionnaire completed by caregiver in 8 domains: Ambulation, Dexterity, Speech, Vision, Hearing, Cognition, Emotion, and Pain

HELP- STRANDS - INSIDE THE HAWAII EARLY LEARNING PROFILE (Inside-HELP)

Author: Stephanie Parks

Publisher: VORT Corporation, PO Box 6032, Palo Alto, CA 94306

Purpose: To provide definitions and guidelines for administration and scoring of skills and serve as a reference for all the HELP curriculum and assessment materials

Age Range: Birth to 36-months

Areas Tested: 685 skills divided among 40 developmentally sequenced conceptual strands covering 7 domains-Regulatory/sensory organization (sensory processing); Cognition (symbolic play, imitation, sound awareness, spatial relationships, concepts, discrimination); Language (receptive, expressive); Gross motor (weight bearing, mobility and transitional movements, reflexes and reactions, advanced postural control); Fine motor (visual tracking, grasp, reach, voluntary release, midline skills, spatial perception, manipulative prehension); Social-emotional (attachment/separation, development of self, emotional expression, learning rules, social interactions); Self- help (oral motor development, dressing, independent feeding, sleep patterns, grooming and hygiene, toileting, household independence)

HOME OBSERVATION FOR MEASUREMENT OF THE ENVIRONMENT (HOME)

Author: Bettye M. Caldwell and Robert H. Bradley

Purpose: A screening tool to identify the quality and quantity of social, emotional and cognitive supports available to the child in the home environment

Age Range: Infant and toddlers version birth to 3-years

Areas Tested; Infant and toddlers version: 45-items clustered into 6 subscales: Parental responsiveness, Acceptance of child, Organization of the environment, Play materials, Parental involvement with the child, Variety of stimulation.

INFANT DEVELOPMENTAL SCREENING SCALE (IDSS)

Author: W. Jane Proctor

Purpose: To assess developmental status of newborns

Age Range: Normal and at-risk infants between 38 to 42 weeks gestational age; can also be used sequentially on infants from 32 to 40 weeks gestational age.

Areas Tested: 24-items divided into 2 groups:

Behavioral (habituation, attention/interaction, motor responses, physiological system, abnormal posture or movements) Reflexes (rooting, suck, hand grasp, toe grasp, Babinski, ankle clonus, positive support, walk, placing, crawl, ATNR, Moro)

INFANT MOTOR PROFILE (IMP)

Author: Kirsten Heineman, Arend Bos, Mijna Hadders-Algra

Publisher: Developmental Medicine & Child Neurology. 2008;50(4):275-82.

Purpose: to assess neuromotor condition in infancy to screen for early detection of developmental motor disorders.

Age Range: 3-months to 18-months

Areas Tested: Motor behavior is evaluated in: supine, prone, sitting, standing and walking.

Reaching, grasping and manipulation of objects are evaluated in supine and in supported sitting conditions

INFANT MOTOR SCREEN (IMS)

Author: Robert E. Nickel

Purpose: To determine the neuromotor status of infants prematurely born

Age Range: 4-months to 16-months corrected age

Areas Tested: 25-items adapted from the Milani-Comparetti and the Movement Assessment of Infants

Muscle tone, Primitive reflexes, Automatic responses, Symmetry

INFANT NEUROLOGICAL INTERNATIONAL BATTERY (INFANIB)

Authors: Patricia H. Ellison

Publisher: Therapy Skill Builders, 19500 Bulverde Rd., San Antonio, TX 78259-3701

Purpose: To distinguish infants with normal neuromotor function from those with abnormal findings and to predict need for follow-up treatment

Age Range: 1-month to 18-months infants and toddlers at risk for developmental delay, especially those born premature

Areas Tested: 20-items divided into 5 content domains: Spasticity (TLR, ATNR, hands open/closed); Vestibular function (parachute, body rotative); Head and trunk control (pull to sit, body derotative, sitting, prone posture); French angles (scarf sign, heel-to-ear, popliteal angle, and hip abduction); Legs (foot grasp, positive support reaction, dorsiflexion)

INFANT TODDLER DEVELOPMENTAL ASSESSMENT (IDA)-PROVENCE PROFILE

Author: Sally Provence, Joanna Erikson, Susan Vater, and Saro Palmeri

Purpose: To determine a performance age range and a descriptive summary of a child's developmental competencies

Age Range: Birth to 3-years

Areas Tested: 6-phase process of evaluation with phase 4 a developmental assessment (Provence Profile).

Assessment items are grouped by age sets and the number of items varies at each age set and within each domain

Phase One: Referral and Pre-interview Data Gathering. Phase Two: Initial Parent Interview.

Phase Three: Health Review. Phase Four -The Provence Profile: Developmental Observation and Assessment: 8 developmental domains: Gross Motor, Fine Motor, Relationship to Inanimate Objects (Cognitive), Language/Communication, Self-Help, Relationship to Persons, Emotions and Feeling States (affects), and Coping. Phase Five: Integration and Synthesis. Phase Six: Share Findings, Completion, and Report

INFANT/TODDLER SENSORY PROFILE

Author: Winnie Dunn

Publisher: Psychological Corporation, 19500 Bulverde Rd., San Antonio, TX 78259

Purpose: Provides a standard method for measuring an infant's sensory processing with the child's daily life performance.

Age Range: Birth to 36-months

Areas Tested: sensory systems

INFANT/TODDLER SYMPTOM CHECKLIST: A Screening Tool for Parents (ITS)

Author: Georgia A. DeGangi, Susan Poisson, Ruth Z. Sickel, and Andrea Santman Wiener

Publisher: Pearson, 19500 Bulverde Road, San Antonio, TX 78259-3701

Purpose: To identify infants at risk for sensory integrative disorders, attentional deficits, and emotional or behavioral problems

Age Range: 7-months to 30-months

Areas Tested: 5 age specific checklists (7-9, 10-12, 13-18, 19-24, 25-30) containing information on 9 domains. Self-regulation (fussy-difficult behaviors such as crying, difficulty with transitions); sleep patterns (difficulty falling asleep, attention, difficulty initiating and shifting attention); eating, feeding dressing or bathing (gagging, vomiting, food preferences, behavior problems during feeding, dressing, bathing); touch (tactile hypersensitivities, intolerance in being confined); movement (activity level, motor planning difficulties, balance, postural insecurity); listening-language and sound (hyposensitivity to sound, language problems); looking and sight (sensitivity to light, visual distractibility); attachment/emotional functioning (gaze aversion, mood deregulation, flat affect, separation problems.) There is also a general screening version.

KIDSCREEN

Author: U. Ravens-Sieberer, A. Gosch, L. Rajmil, M. Erhart, J. Bruil, W. Duer, P. Auquier, M. Power, T. Abel, L. Czemy, J. Mazur, A. Czimbalmos, Y. Tountas, C. Hagquist, J. Kilroe, and the European KIDSCREEN Group.

Publisher: Lengerich: Pabst Science Publishers.

Purpose: To assess children's and adolescents' subjective health and well-being.

Age Range: 8-years to 18-years

Areas Tested: Three versions: 1. KIDSCREEN-52 contain 52-items in 10 dimensions: physical well-being, psychological well-being, moods and emotions, self-perception, autonomy, parent relations and home life, financial resources, peer and social support, school environment, and bullying; 2. KIDSCREEN-27 contains 27-items in 5 dimensions: physical well-being, psychological well-being, autonomy and parent relations, peer and social support and school environment; 3. KIDSCREEN-10 contains 10-items on general health related quality of life.

LEG LENGTH DISCREPANCY TAPE MEASURE

Authors: Staheli

Purpose: Measure of leg length

Age Range: Any age

Areas Tested: Tape measurement from ASIS to medial malleoli

MANUAL MUSCLE TEST (MMT)

Purpose: Measure of muscle strength

Age Range: 4-years and older

Areas Tested: Contraction of muscles and if strong enough, application of manual resistance to the muscle contractions; Strength judged on ordinal scale

MEADE MOVEMENT CHECKLIST (MMCL)

Author: Vicki Meade

Purpose: To screen infants for neuromotor delays

Age Range: 4-months to 6-months

Areas Tested: Flexor and extensor control is observed in 6 positions or transitional movements: - Sitting on lap (awareness to the surroundings); Prone (orientation of infant's body, tolerance of position); Rolling to back (position of head, shoulder, pelvis, and hips); Supine (infant's alertness to self and external stimulus); Sitting (position of head, shoulders, pelvis, and hips); Standing (weight bearing through body, tolerance to position, Ventral suspension, lifting of the head and active movement of legs throughout hips/pelvis)

MERRILL-PALMER SCALE-REVISED (2003)

Authors : Gale H. Roid, and Jackie L. Sampers

Publisher: Stoelting Co., 620 Wheat Lane, Wood Dale, IL 60191

Purpose: The new addition of the motor measures makes this a comprehensive assessment that can be used from birth to kindergarten to determine delay or dysfunction and evaluate intervention effectiveness.

Age Range: 2-months to 78-months

Areas Tested: Norm-referenced, standardized measure of cognitive (reasoning, memory, visual, etc.), language and motor (fine and gross), self-help/adaptive and social-emotional development. Patterns of development are assessed. Includes supplemental parent and examiner ratings.

MILANI-COMPARETTI MOTOR DEVELOPMENT SCREENING TEST, Third Edition (MC)

Author: A. Milani-Comparetti and E.A. Gidoni, Wayne Stuber, Project Director for revised edition

Publisher: Meyer Children's Rehabilitation Institute, University of Nebraska Medical Center, 444 South 44th Street, Omaha, NE 68131-3795

Purpose: To identify motor dysfunction in infants by systematically examining the integration of primitive reflexes and the emergence of volitional movement against gravity

Age Range: Birth to 2-years

Areas Tested: 27- items divided into 2 groups: Spontaneous motor behaviors (locomotion, sitting, standing); Evoked responses (equilibrium reactions, protective extension reactions, righting reactions, primitive reflexes).

MILLER ASSESSMENT OF PRESCHOOLERS (MAP)

Author : Lucy Jane Miller

Publisher: The Foundation for Knowledge in Development, 1855 West Union Avenue, Suite B-8, Englewood, CO 80110

Purpose: Determination of preschoolers, without major problems, who are at risk for preacademic problems.

Age Range: 2-years, 9-months to 5-years, 8-months

Areas Tested: Norm-referenced test of sensory and motor foundations and coordination, verbal and nonverbal cognitive skills and complex tasks.

MODIFIED ASHWORTH SCALE (MAS)

Authors: Bohannon RW. Smith MB.

Purpose: Measure of resistance to passive movement associated with spasticity

Age Range: 4-years and older

Areas Tested: Passive movement of a limb (usually the leg) through range while judging the resistance to the movement; resistance judged on ordinal scale

MOTOR SKILLS ACQUISITION IN THE FIRST YEAR & CHECKLIST

Author: Lois Bly

Publisher: Therapy Skill Builders, 19500 Bulverde Rd., San Antonio, TX 78259-3701

Purpose: To monitor motor development and assist in intervention planning for infants with motor delays or dysfunction.

Age Range: Birth to 12-months

Areas Tested: Detailed explanation with photographs and checklist of gross motor development and indications of possible disturbances in motor development.

MOVEMENT ASSESSMENT BATTERY FOR CHILDREN – SECOND EDITION (MOVEMENT ABC-2)

Author: Shelia Henderson & David Sugden

Publisher: Pearson, 19500 Bulverde Road, San Antonio, TX 78259-3701

Purpose: Identifies impairments in motor function of children with milder movement disorders. Includes qualitative & quantitative information.

Age Range: 3-years to 12-years

Areas Tested: Norm-referenced standardized performance test of manual dexterity, ball skills and static and dynamic balance. Also included is a checklist of daily routine activities, consideration of the context of performance and behavioral attributes.

MOVEMENT ASSESSMENT OF INFANTS (MAI)

Author: Lynnette S. Chandler, Mary S. Andrews, and Marcia W. Swanson

Publisher: Infant Movement Research, PO Box 4631, Rolling Bay, WA 98061

Purpose: To identify motor dysfunction in infants, especially those considered at-risk and monitor the effects of physical therapy on infants whose motor behaviors is at or below one year of age

Age Range; Birth to 12-months

Areas Tested: 65-items within 4 areas of neuromotor functioning: Muscle tone (anti-gravity postures, resistance to passive stretch, and consistency); Reflexes (relative presence or absence of primitive reflexes); Automatic reactions (righting, equilibrium, and protective); Volitional movement (gross and fine motor behaviors, hearing and vision).

NATURALISTIC OBSERVATION OF NEWBORN BEHAVIOR (NONB)

Author: Heidelise Als

Purpose: To develop a profile of the infants' physiological and behavioral responses to environmental demands and care giving.

Age Range: Neonates to 4-weeks post term

Areas Tested: 91-behaviors based on the conceptual framework underlying the Assessment of Preterm

Infant Behavior (APIB): Autonomic (respiration, color, tremors, and twitch); Visceral (gagging, burp, spit

up, and sounds); Motor (tone, posture, gross motor flexion or extension, upper and lower extremity movement);

State-related (attention related behaviors) (eye movement, facial expressions, and gross body movements)

NEONATAL BEHAVIORAL ASSESSMENT SCALE, 3rd Edition (NBAS)

Author: T. Berry Brazelton and J. Kevin Nugent

Publisher: Cambridge University Press, 40 W. 20th Street, New York, NY 10011

Purpose: To assess and describe infant's interactions and behaviors within the context of a dynamic relationship with a caregiver. Results provide information regarding infant's ability to handle stressors and self-organize.

Originally designed to study individual differences in neonates that contribute to infant-caregiver interactions and for studying group differences among infants.

Age Range: Full term neonates 37-weeks to 48-weeks post-conceptual age. Supplemental items are provided to test infants born less than 37-weeks

Areas Tested: 28- behavioral and 18-elicited items that provide information in 5 packages: Habituation (response decrement); Motor-Oral (reflexes of the feet, rooting, sucking, glabella); Truncal (undressing and moderate handling such as pull to sit, grasp); Vestibular (maximal handling and stimulating items (TNR, Moro)); Social-Interactive (state dependent orientation items.) There are also 9 supplemental (optional items), 5 of which were devised by Als and 1 devised by Horowitz to be used with babies born premature

NEONATAL INDIVIDUALIZED DEVELOPMENTAL CARE AND ASSESSMENT PROGRAM (NIDCAP)

Author: Heidelise Als

Publisher: National NIDCAP Training Center, Enders Pediatric Research Laboratories, The Children's Hospital, 320 Longwood Avenue, Boston, MA 02115

Purpose: Used to determine the infant's physiological and behavioral responses to the environment to assist parents and caregivers.

Training program recommended to become reliable in test administration.

Age Range: Neoates to 4-weeks post-term

Areas Tested: Criterion-referenced assessment of physiological and behavioral responses in the areas of autonomic, motor and attention.

NEONATAL INFANT PAIN SCALE (NIPP)

Author: J. Lawrence, D. Alcock, P. McGrath, J. Kay, S.B. MacMurray, C. Dulberg

Publisher: Neonatal Network. 1993;12(6):59-66.

Purpose: To measure pain in preterm and full term infants

Age Range: Birth to 1-year

Areas Tested: Scored on 6 parameters: facial expression, cry, breathing patterns, arms, legs, state of arousal

NEONATAL NEUROBEHAVIORAL EXAMINATION (NNE)

Author: Andrew Morgan, Vera Koch, Vicki Lee, and Jean Aldag

Purpose: To determine neurobehavioral status of infants

Age Range: 32-weeks to 42-weeks post conceptional age

Areas Tested: 27- items divided into 3 sections each having 9 items: Tone and motor patterns, Primitive reflexes, Behavioral responses

NEONATAL ORAL MOTOR ASSESSMENT SCALE (NOMAS)

Author: Murray A. Braun and Marjorie M. Palmer

Purpose: To screen for oral motor dysfunction in the neonate, distinguish infants with normal sucking from those with disorganization, identify infants with poor feeding abilities, and distinguish inefficient from efficient feeders

Age Range: Neonate to 3-months of age

Areas Tested: 26-items divided into 2 categories: jaw movements and tongue movements: Rate, Rhythmicity, Consistency of degree of jaw excursion, Direction, range of motion, timing of tongue movement, Tongue configuration

NEUROBEHAVIORAL ASSESSMENT OF PRETERM INFANT (NAPI)

Author: Anneliese Korner and Valerie Thom

Purpose: To assess neurobehavioral status of prematurely born infants, to monitor effects of intervention, and to document individual differences

Age Range: 32-weeks to 37-weeks conceptual age

Areas Tested: 71- items divided into 7 clusters: Motor development and vigor, Scarf sign, Popliteal angle, Alertness and orientation, Irritability, Vigor of cry, Percent sleep

NEUROLOGICAL ASSESSMENT OF THE PRETERM AND FULL-TERM NEW BORN INFANT, 2nd Edition (NAPFI)

Author: Lilly Dubowitz, Victor Dubowitz, Eugenio Mercuri

Publisher: Cambridge University Press, 40 W. 20th Street, New York, NY 10011

Purpose: To document status of the nervous system in infants, document neurological maturation and/or change in infants

Age Range: Full term infants up to the third day of life and preterm infants who are medically stable and can tolerate handling up to term gestation age

Areas Tested: 33-items divided into 4 categories: Habituation (visual and auditory stimuli); Movement and tone (posture, tone of limbs, trunk and neck, abnormal movements); Reflexes (tendon reflexes, primitive reflexes); Neurobehavioral characteristics (selected items from *Neonatal Behavioral Assessment Scale*)

NEUROLOGICAL EXAM OF THE FULL TERM INFANT, 2nd Edition

Author: Heinz Prechtl

Publisher: Cambridge University Press, 40 W. 20th Street, New York, NY 10011

Purpose: To diagnose infants with neurological abnormality and predict future neurological problems. A screening test is also available which can be used to determine the need for further testing in low risk infants.

Age Range: Full term and preterm infants 38-weeks to 42-weeks gestation

Areas Tested: 12-summary items that include primitive reflexes and responses. Posture (symmetry); Opisthonus-Eyes (reaction to light, reflexes); Power and passive movements (tone, range of motion, recall, muscular consistency); Spontaneous and voluntary movements (head control, tremors, clonus); State

NINE MINUTE WALK TEST (Screening tool)

Purpose: Endurance

Age Range: 5-years and older

Areas Tested: Distance walked in 9-minutes. Subtest from a full fitness battery of the Health-Related Fitness Test.

OBSERVATIONAL GAIT SCALE (OGS)

Authors: Mackey

Purpose: Structured scale to rate gait parameters from video recordings

Age Range: 6-years to 21-years

Areas Tested: 7-sections rated: Knee mid-stance; Initial foot contact; Foot contact mid-stance; Heel rise; Hind foot; Base of support; Assistive devices

ORAL MOTOR/FEEDING RATING SCALE

Author: Judy Michaels Jelm

Purpose: To document oral motor/feeding patterns and feeding function

Age Range: 1-year to adulthood

Areas Tested: 2 major areas of oral motor/feeding behavior: Oral motor/feeding patterns lip/cheek movement, tongue movement, jaw movement Related areas of feeding function: self-feeding, adaptive feeding equipment, diet adaptation, position, sensitivity, food retention, swallowing, oral-facial structures

OUCHER SCALE

Author : J.E. Beyer.

Publisher: (1984). The Oucher: A user manual and technical report. Evanston, IL: The Hospital Play Equipment Co.

Purpose: Measures self reporting of pain intensity

Age Range: 5-years to 12-years

Areas Tested: Pain intensity rating scale using actual pictures

PEABODY DEVELOPMENTAL MOTOR SCALES SECOND EDITION (PDMS-2)

Author: M. Rhonda Folio and Rebecca R. Fewell

Publisher: Pro-ed, 8700 Shoal Creek Blvd., Austin, TX 78757-6897

Purpose: To determine level of motor skill acquisition, detect small changes in motor development in children with known motor delays or disabilities, and assist in programming for children with disabilities

Age Range: 1-month to 83-months

Areas Tested: Two hundred forty-nine items divided into two scales which are further divided into subtests.

Gross Motor Scale: 151-items divided among 3 subtests: Reflexes (primitive, automatic reactions); Stationary (static, dynamic); Locomotion (walk, run, jump, hop); Object manipulation (ball handling);

Fine Motor Scale: 98-items divided among 2 subtests: Grasping (basic reach, grasp patterns, hand use); Visual-motor integration (visual perceptual skills paired with motor, eye hand coordination)

PEDIATRIC CLINICAL TEST OF SENSORY INTERACTION FOR BALANCE (P-CTSIB)

Authors: Crowe, Luyt, Westcott,

Purpose: Measures sensory system effects on stationary standing postural control (balance)

Age Range: 4-years to 10-years

Areas Tested: 6 conditions: Standing on floor with eyes open, eyes closed, and with dome (eyes open, but vision stabilized); Standing on foam with eyes open, eyes closed, and with dome (eyes open, but vision stabilized)

PEDIATRIC EVALUATION OF DISABILITY INVENTORY (PEDI)

Authors: Stephen M. Haley, Wendy J. Coster, Larry H. Ludlow, Jane T. Haltiwarger, and Peter J. Andrellas

Publisher: The Psychological Corporation, 19500 Bulverde Road, San Antonio, TX 7825-37019

Purpose: To determine functional capabilities and performance, monitor progress in functional skill performance, and evaluate therapeutic or rehabilitative program outcome in children with disabilities

Age Range: 6-months to 7-years, 6-months

Areas Tested: 271-items divided into 3 subtests in the Functional Skill Scale: Self care (eating, grooming, dressing, bathing, toileting); Mobility (transfers, indoors and outdoors mobility); Social function (communication, social interaction, household and community tasks). Also environmental modification and amount of caregiver assistance is systematically recorded in Modification Scale and Caregiver Assistance Scale

PEDIATRIC QUALITY OF LIFE INVENTORY (PEDS QL)

Author: James W. Varni

Purpose: To measure health related quality of life

Age Range: 2-years to 18-years

Areas Tested: The generic core scale consists of 23 items measuring the core dimensions of health from the World Health Organization, physical, emotional, and social functioning, as well as school functioning. The test contains child self-report forms for children 5 and older and parent proxy forms for children 2-18 years of age. Disease-Specific Modules are available for children with asthma, rheumatology, diabetes, cancer, and cardiac conditions.

POSNA PEDIATRIC MUSCULOSKELETAL FUNCTIONAL HEALTH QUESTIONNAIRE

Author : L.H. Daltroy, M.H. Liang, A.H Fossel, & M.J. Goldberg

Publisher: (1998). Pediatric Outcomes Instrument Development Group.

Pediatric Orthopaedic Society of North America. Journal of Pediatric Orthopedics, 18, 561-571.

Purpose: Used to assess functional health outcomes, generally post orthopedic surgery. Can also examine child-parent agreement.

Age Range: 2-years to 18-years with musculoskeletal disorders

Areas Tested: Scales completed by child and parent to measure upper extremity function, transfers and mobility, physical function and sports, comfort (pain free), happiness and satisfaction, and expectations for treatment.

POSTURE AND FINE MOTOR ASSESSMENT OF INFANTS

Author: Jane Case-Smith & Rosemarie Bigsby

Publisher: Therapy Skill Builders, 19500 Bulverde Rd., San Antonio, TX 78259-3701

Purpose: Assists in intervention planning and documenting progress over brief periods of time.

Age Range: 2-months to 12-months

Areas Tested: Fine motor scales addressing infant's reaching and grasping patterns, finger and thumb movements, release and manipulation.

QUALITY OF WELL-BEING SCALE (QWB)

Author: R.M. Kaplan, J.W. Bush, C.C. Berry

Publisher: (1976). Health status: types of validity and the index of well-being. Health Services Research, 11, 478-507.

Purpose: Summarizes health across symptoms, problems and functional states.

Age Range: 14-years and older

Areas Tested: 4 scales focus on the physical impact of an illness related to symptoms, functions, social and mobility levels.

RILEY INFANT PAIN SCALE

Author : J. Schare, B. Joyce, J. Gerkenmeyer, & J. Keck

Publisher: (1996). Comparison of three preverbal scales for postoperative pain assessment in a diverse pediatric sample. *Journal of Pain and Symptom Management*, 12 (6), 348-359.

Purpose: Indication of pain in infants and pre or non verbal children.

Age Range: Infants & pre or non verbal children

Areas Tested: Behavioral observation as an indication of pain

SCALES OF INDEPENDENT BEHAVIOR-REVISED (SIB-R)

Authors: Robert H. Bruininks, Richard W. Woodcock, Richard F. Weatherman, and Bradley K. Hill

Publisher: Riverside Publishing Co., 8420 Bryn Mawr Avenue, Chicago, IL 60631

Purpose: To measure functional independence and adaptive functioning in school, home, employment, and community settings

Age Range: 3-months to 90+ years

Areas Tested: Adaptive Behavior Full Scale contains 259- items divided into 14 subscales which are organized into 4 clusters: Motor skills (gross, fine); Social interaction and communication skills (social interaction, language comprehension and expression); Personal living skills (eating and meal preparation, toileting, dressing, personal self-care, domestic skills); Community living skills (time and punctuality, money and value, work skills, home/community orientation);

Screening Forms: Short Form: 40-selected items from the 14 subscales;

Early Development Form: 40-items from developmental areas of Full Scale, for children up to 6 years of age, and individuals with a developmental level below 8 years of age

Problem Behavior Scale: Divided into 3 broad maladaptive behavior indexes with 8 problem behavior areas: Internalized Maladaptive Behavior (hurtful to self, unusual or repetitive habits, withdrawal or inattentive behavior); Asocial Maladaptive Behavior (socially offensive behavior, uncooperative behavior); Externalized Maladaptive Behavior (hurtful to others, destructive to property, disruptive behavior)

SCHOOL FUNCTION ASSESSMENT (SFA)

Authors: W. Coster, T. Deeney, J. Haltiwanger, S. Haley

Publisher: Psychological Corporation, 19500 Bulverde Rd., San Antonio, TX 78259

Purpose: Measures function in the school environment & can be used to guide program planning

Age Range: Elementary school students

Areas Tested: 3 parts: Participation in school activity settings; Task supports; Activity Performance. Includes physical and cognitive/behavioral tasks.

SENSORY INTEGRATION AND PRAXIS TEST

Authors: Jane Ayres

Publisher: Western Psychological Services, 12031 Wilshire Blvd., Los Angeles, CA 90025

Purpose: Measures sensory systems contributions to balance and motor coordination

Age Range: 4 years to 8-years, 11-months

Areas Tested: Numerous tests of postural control, motor coordination & planning, fine and gross motor function, & sensory integration

SENSORY PROFILE

Author: Winnie Dunn

Publisher: Pearson, 19500 Bulverde Road, San Antonio, TX 78259-3701

Purpose: Determine basic sensory processing patterns in daily life

Age Range: 3-years to 10-years

Areas Tested: 15-minute questionnaire on how child processes and responds to sensory experiences in everyday life with categories of sensory processing, modulation, and behavioral and emotional responses. children by their Children are characterized by responsiveness to sensory input including, Sensory seeking, Emotional reactive, Low endurance/tone, Oral sensory sensitivity, Inattention/distractibility, Poor registration, Sensory sensitivity, Sedentary, and Fine motor/perceptual

TEST FOR HIP JOINT INTEGRITY

Authors: Staheli

Purpose: Measures hip joint placement to determine likelihood of dislocation

Age Range: Any age

Areas Tested: Manual movement of the hip joint

TEST OF GROSS MOTOR DEVELOPMENT – 2 (TGMD2)

Author: Dale Ulrich

Publisher: PRO ED, Inc., 8700 Shoal Creek Blvd., Austin, TX 78757-6897

Purpose: Used to identify children who are significantly behind their peers in gross motor skill development.

Age Range: 3-years to 10-years

Areas Tested: Norm referenced test of 12 gross motor skills involving locomotion and object control

TEST OF INFANT MOTOR PERFORMANCE (TIMP)

Authors: S.K. Campbell, G. Kolobe, G. Girolami, E. Osten, and M. Lenke

Publisher: Infant Motor Performance Scales, LLC, 1301 W. Madison St. #526, Chicago, IL 60607-1953

Purpose: To identify infants with deficits in postural control and to document the effects of developmental therapy to improve postural control needed for functional movement in early infancy

Age Range: 32-weeks gestational age through 4-months post-term (or full term to 4-months)

Areas Tested: 27 observed behaviors and 26 elicited behaviors assessing the ability to orient and stabilize the head in space and in response to auditory and visual stimulation in supine, prone, side lying, upright, and during transitions from one position to another, body alignment when the head is manipulated, distal selective control of the fingers, wrists, hands, and ankles, antigravity control of arm and leg movement

TEST OF SENSORY FUNCTION IN INFANTS (TSFI)

Authors: Georgia DeGangi and Stanley Greenspan

Publisher: Western Psychological Services, 12031 Wilshire Blvd., Los Angeles, CA 90025

Purpose: To determine sensory processing and reactivity in infants as an assist to diagnosing sensory processing dysfunction

Age Range: 4-months to 18-months

Areas Tested: 24-items divided into 5 subtests: Reactivity to tactile deep pressure, Adaptive motor function, Visual-tactile integration, Ocular motor control, Reactivity to vestibular stimulation

TEST OF VISUAL-MOTOR SKILLS-3 (TVMS-3)

Author: Nancy Martin

Publisher: Academic Therapy Publications, 20 Commercial Boulevard, Novato, CA 94949

Purpose: Simple test of visual-motor skills.

Age Range: 3-years to 90+years

Areas Tested: Tests of visual perception, motor planning, and execution.

TIMED OBSTACLE AMBULATION TEST (TOAT)

Authors:

Purpose: Measures time and quality of walking at several points when walking through a specified path

Age Range: Any

Areas Tested: Negotiation over different surfaces, picking up an object, stepping up, over, going around, ducking under obstacles.

TIMED UP AND DOWN STAIRS TEST (TUDS)

Authors: C.A. Zaino, V.G. Marchese, S.L. Westcott

Publisher: Pediatric Physical Therapy. 2004;16(2):90-98

Purpose: To measure functional mobility needed to ascend and descend one flight of stairs

Age Range: 8-years to 14-years

Areas Tested: Measurement of the time it takes to ascend and descend one flight of stairs

TIMED UP AND GO (TUG)

Authors:

Purpose: Measure of anticipatory standing balance & gait control, motor function through a typical activity

Age Range: 4-years and older

Purpose: Measurement of the time it takes to rise from a chair, walk 3 meters, turn around and return to a seated position in the chair.

TODDLER & INFANT MOTOR EVALUATION (TIME)

Authors: Lucy Jane Miller and Gale H. Roid

Publisher: The Psychological Corporation, 19500 Bulverde Road, San Antonio, TX 7825-37019

Purpose: To identify those children with mild to severe motor problems, identify patterns of movement, evaluate motor development over time, plan intervention, and conduct treatment efficacy research

Age Range: 4-months to 3-years, 6-months

Areas Tested: 8 subtests: 5 primary, 3 optional (clinical)

Primary Subtests: mobility, motor organization, stability, functional performance, social-emotional abilities

Clinical Subtests: quality rating, component analysis, atypical positions

TRANSDISCIPLINARY PLAY-BASED ASSESSMENT- SECOND EDITION (TPBA2)

Author: Toni W. Linder

Publisher: Paul H. Brookes Publishing Co., PO Box 10624, Baltimore, MD 21285-0624

Purpose: To identify intervention needs, develop intervention plans and to evaluate progress made by children

Age Range: Birth to 6-years

Areas Tested: Comprehensive assessment of developmental processes, learning style, and interaction patterns in 4 developmental areas: Cognitive, Social-emotional, Communication and language, and Sensorimotor

VINELAND ADAPTIVE BEHAVIOR SCALES, SECOND EDITION (VINELAND-II)

Authors: Sara S. Sparrow, Domenic Cicchetti, & David Balla

Publisher: PsychCorp, 19500 Bulverde Road, San Antonio, TX 78259-3701

Purpose: To measure adaptive behavior

Age Range: Birth to 90-years

Areas Tested: 5 domains each with subdomains including: Communication (receptive, expressive, written); Daily Living Skills (personal, domestic, community); Socialization (interpersonal relationships, play and leisure time, coping skills); Motor Skills (fine and gross motor); Maladaptive Behavior Index (internalizing, externalizing, other)

VISUAL ANALOG SCALE

Author : B. Shields, D. Cohen, C. Harbeck-Weber, J. Powers, & G. Smith

Publisher: (2003). Pediatric pain measurement using a visual analogue scale. Clinical Pediatrics, April.

Purpose: Measures self report of pain intensity

Age Range: 5-years and older

Areas Tested: Pain intensity rating scale using numerical scale on a vertical or horizontal continuum

VULPE ASSESSMENT BATTERY-REVISED (VAB-R)

Author: Shirley German Vulpe

Publisher: Slosson Educational Publications, Inc., PO Box 280, East Aurora, NY 14052

Purpose: To determine skill performance, strengths and needs, degree of central nervous system functioning, and environmental influence on task performance

Age Range: Birth to 6-years

Areas Tested: 1300 developmental tasks divided into 3 sections:

Assessment of Basic Senses and Function (analysis of sensory-motor abilities such as muscle tone, joint range of motion, coordination, planning);

Assessment of Developmental Behavior: 60-skill sequences contained in 6 domains of behavior: gross motor, fine motor, language, cognitive processing, adaptive behavior, and activities of daily living,

Assessment of the Environment: includes caregiver characteristics and interaction and information regarding the settings such as home, child-care, hospital,

Performance Analysis System composed of 3 sections used to analyze the child's processing related to task performance

YOUTH QUALITY OF LIFE INSTRUMENT-RESEARCH VERSION (YQOL-R)

Author:

Publisher: The Association for Professionals in Services for Adolescents

Elsevier Science Ltd. , 360 Park Ave, South, New York, NY 10010-1710

Purpose: To assess quality of life with an emphasis on aspects of positive health.

Age Range: 12-years to 18-years

Areas Tested: Self-report measure in four domains: sense of self, social relationships, environment and general quality of life.

WONG-BAKER FACES SCALE

Author: D.L. Wong, M. Hockenberry-Eaton, D. Wilson, M.L. Winkelstein, P. Schwartz

Publisher: Mosby, Inc., St. Louis

Purpose: To help children communicate their pain intensity effectively

Age Range: 3-years and older

Areas Tested: Pain intensity rating scale using pictures of faces

**Recommendation for Addition to
Section on Pediatrics List of Assessment Tools
for Use in Pediatric Physical Therapy**

Name of Tool:

Author(s):

Purpose of Tool:

Age Range:

Areas Tested:

Publisher & Date:

How to Obtain:

In case we have any questions, we would appreciate your name and a way to contact you.

Name:

Phone/E-Mail:

Thank you for contributing to the Section on Pediatrics' List of Assessment Tools for Use in Pediatric Physical Therapy!

Please fax this form to: 703/706-8575
mail to: Section on Pediatrics, 1111 N Fairfax St, Alexandria, VA 22314
or e-mail to: cindysliwa@apta.org