

BIAP Recommendation 30/1 Annex 2: Central Auditory Processing Disorders – Test Disposabiliy

Foreword

This document presents a Recommendation by the International Bureau for Audiophonology BIAP.

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Recommendation

To date, only tests published in English, French, German and Dutch have been collected. This list is certainly not exhaustive.

Ideally, a battery of assessment of the central auditory function should be composed at least of:

- intensity, frequency and phonetic discrimination tests and temporal resolution tests;
- low redundancy speech tests;
- temporal configuration or patterning tests;
- binaural interaction tests.

1. Discrimination tests

Intensity and frequency

- Lüscher, SISI test ... (Audiomètres commerciaux)
- Wave discriminator (Demanez) (5)
- Distorsions (Lasry) 22

Time

- Gap test, (Demanez) (5)
- Distorsions (Lasry) (22)
- Psychoakustisches Testsystem (PATSY) (6)
- Brain Boy (7)

Phonemes

- Auditory Discrimination Test (ADT), (Reynolds, 1987)
- Heidelberger Lautdifferenzierungstest (H-LAD) (8)
- Hannoverscher Lautdiskriminationstest (9)
- Bremer Lautdiskriminationstest (10)
- Mottiertest (18)
- Auditory speech sounds Evaluation (AŞE), (Govaerts) (20)

2. Speech tests with low redundancy

Low-pass filtering (Bocca, Calearo et Cassinari, 1953)

- Yvey filtered speech test (2)
- Low-pass filtered version of Northwestern University N°6 (NU-6) (1)
- Nijmegen auditory processing test battery (19)

Time compressed speech, time compressed plus Reverberation (1)

- Hörtest mit zeitkomprimierter Sprache für Kinder (13)

Speech-in-noise tests

- Synthetic Sentence Identification test with Ipsilateral Competing Message (SSI-ICM)
- Lafon 60 (3)
- Nijmegen auditory processing test battery (19)
- Oldenburger Kinder-Satztest (11)
- Oldenburger Satztest (12)
- Göttinger Kindersprachverständnistest im Störgeräusch
- Freiburger Sprachtest im Störgeräusch.
- Münchner Auditiver Sceningtest für Verarbeitungs- und Wahrnehmungsstörungen (MAUS) (13)
- Test de résistance de l'intelligibilité dans le bruit (Elbaz) (21)

3. Dichotic speech tests

- Dichotic Digits (Kimura, 1961, 3 items), (Musiek, 1983, 2 items)
- Dichotic Consonant-Vowels (Berlin et al., 1972)
- Staggered Spondaic Word Test (SSW) (Katz, 1962)
- Competing Sentences Test (CST) (Willeford, 1968,) (1)
- Synthetic Sentence Identification Test with Controlateral Competing Message (SSI-CCM) (Jerger, 1974)

- Dichotic Sentence Identification Test (Figer et al., 1983)
- Monosyllabic words (SCAN) (4)
- Dichotic Rhyme Test (DRT)
- Subtest dichotique du BAC (3)
- Nijmegen auditory processing test battery (19)
- Dichotischert Sprachtest für Kinder (14)
- Dichotischer Hörtest (15)

4. Temporal configuration or patterning tests

- Pitch Pattern Sequence Test (PPST) (Pinheiro et Ptacek, 1971) (1) (3)
- Duration Pattern Test (DPT) (Pinheiro et Musiek, 1985) (1) (3)
- Psychoacoustic Pattern Discrimination Test (Blaettner et al., 1989)
- Brain Fit Low-Level-Tests (16)
- Nijmegen auditory processing test battery (19)

5. Binaural interaction tests

- Rapid Alternating Speech Perception (RASP) (Willeford and Bilger, 1978) (2)
- Low-pass (500-800 Hz) – High-pass (1815-2500 Hz)
- Matzker, 1959
- Yvey, 1969 (2)
- Segmented-Alternated CVC Fusion task (Wilson, Arcos and Jones, 1984) (1)
- Interaural time or intensity Just Noticeable Differences (JND) (Pinheiro and Tobbin, 1969, Matzker, 1953)
- Masking Level Difference (MLD) (1) (3) (Audiomètres commerciaux)
- Nijmegen auditory processing test battery (19)
- Binauraler Summationstest (9)

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This recommendation was created and approved in multidisciplinary cooperation between professionals of all audiophonologic disciplines, which are medicine, pedagogy, speech therapy, psychology and hearing instrument audiology.

The original language of this document is French.

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