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NOTES FROM *AUDITEC*™

GENERAL INFORMATION

All recordings are duplicated from digital masters. With few exceptions, all recordings begin with a 1000 Hertz (Hz) calibration tone. This level represents the peak of a target word or sound as observed on a VU meter. Almost always, a stimulus word is preceded by an alerting phrase, called the "carrier phrase," and, in most cases, the target word is the word in the carrier phrase that precedes the stimulus word. The stimulus word is allowed to "fall naturally." The result is that the stimulus word will not peak at 0 VU often, but either above or below. Certain tests do not follow this paradigm; instead the stimulus word peaks at 0 VU +/- 2 dB. These tests are WIPI, SAAT & NU-CHIPS. The spondee words also peak at zero, but in this case there is no carrier phrase.

ANALOG RECORDINGS

The vast majority of the tests in ***AUDiTEC's***™ extensive inventory are available on standard cassette. We no longer supply open reel (reel-to-reel) recordings as standard items. Analog tape decks require constant care and cleaning. Tape heads must be cleaned and demagnetized periodically. Particles from the tape are dislodged and adhere to the tape head, lifting the tape from contact with the head with a consequent severe high frequency loss. Secondly, the constant passage of magnetized tape passing the tape heads will cause a residual head magnetization. This will degrade tapes by partially demagnetizing them, again resulting in a high frequency loss. Cleaning should be carried out monthly and demagnetizing semi-annually. In addition, after constant use, the tape heads will shift on axis slightly. If the heads are not perfectly aligned, there will be a severe high frequency loss. Head alignment should be carried out when demagnetizing.

DIGITAL RECORDINGS

All of our master recordings are in the digital domain. Digital recordings have alleviated several problems that are inherent in analog recordings. One, which is extremely vexing to the audiologist, is "print thru." Print thru occurs when recorded tape lies next to and in direct contact with unrecorded tape. Print thru occurs in our recordings because there are more silent periods than recorded sections. The result is a faint echo of the stimulus both prior to and after the stimulus, very disconcerting. This is not a problem with digital recordings. In addition, there is no tape hiss, signal to noise ratio is very good and there is no wow and flutter (most noticeable in the calibration tone). Additionally, sections of the recording can be labeled with program numbers or coded for easy and extremely quick access. For the audiologist, this means that tests and sub-tests that have been coded are quickly and easily accessed.

CUSTOM COMPACT DISCS

AUDiTEC™ has made its entire catalog available on CD. You will find several pre-recorded CD's in the catalog, but more important is that we are recording custom CD's. Any recorded material can be recorded on CD. There are 79 minutes available on CD's on two channels.

ABOUT *AUDiTEC*™

AUDiTEC™ is owned and operated by William F. Carver, Ph.D. a certified audiologist member and Fellow of ASHA and AAA. He is also an audio engineer. We understand your needs! We are constantly searching for new tests. If you have made one, or if you have an idea that only needs to be professionally recorded, please contact us. Because the owner is an audiologist, we will know what you are looking for and understand your requirements.

CATALOG

SPEECH THRESHOLD MATERIALS (Adult and Child)

SPONDEE WORD LISTS (CID W-1)

These are two-syllable words with equal stress on each syllable, which are employed to obtain thresholds for speech. There are two randomizations of 36 spondaic words spoken without a carrier phrase. The median speech reception threshold (SRT) for normal listeners is 20 dB SPL (0dBHL).

Spondees & Child's Spondees [Cat. #102[1]] Price $59.50
Spondees & Child's Spondees, Short Interval [Cat. #102SI[2]] Price $59.50
Spondees, W-22, Form A [Cat. #101] Price $95.00
Spondees, W-22, Form A, Short Interval [Cat. #101SI] Price $95.00
Spondees, NU-6, Form A [Cat. #145] Price $95.00
Spondees, NU-6, Form A [Cat. #145SI] Price $95.00
Spondees, Child's Spondees, W-22, NU-6, PBK-50, WIPI – 1st ed., Connected Discourse, Paired Comparison Sentences & Multitalker Noise (opposite W-22, NU-6, & PBK-50) [Cat. #CD101R] Price $106.00 (See Basic Auditory Test CD with 1st ed. WIPI in Prepressed Compact Discs)
Spondees, Child's Spondees, W-22, NU-6, PBK-50, WIPI – 2nd ed.**,** Connected Discourse, Paired Comparison Sentences & Multitalker Noise (opposite W-22, NU-6, & PBK-50) [Cat. #CD101RW2] Price $139.75 (See Basic Auditory Test CD with 2nd ed. WIPI in Prepressed Compact Discs)

[1] ### refers to the Test either cassette or CD, CD### refers to Compact Disc format only.

[2] "Short Interval (SI)" refers to a ~2.5 sec. interstimulus interval, which is ~4 sec. normally.

ASHA SPONDEE WORD LISTS

These are two sets of 18 spondaic words formulated by an American Speech-Language-Hearing Association (ASHA) committee of audiologists. The two lists are considered to be of equivalent difficulty. The SRT is 20 dB SPL.

ASHA Spondees & Child's Spondees [Cat. #102A] Price $59.50
ASHA Spondees & W-22, Form A [Cat. #101A] Price $95.00
ASHA Spondees & NU-6, Form A [Cat. #145A] Price $95.00

CHILDREN'S SPONDEE WORD LIST

This list of spondaic words was selected to be familiar to children. *AUDiTEC*™ recorded 51 words in one randomization. The medium SRT is 20 dB SPL.

Child's Spondees, Spondees [Cat. #102] Price $59.50
Child's Spondees, Spondees, Short Interval [Cat. #102SI] Price $59.50
Child's Spondees, PBK-50 [Cat. #185] Price $95.00
Spondees, **Child's Spondees**, W-22, NU-6, PBK-50, WIPI – 1st ed., Connected Discourse, Paired Comparison Sentences & Multitalker Noise (opposite W-22, NU-6, & PBK-50) [Cat. #CD101R] Price $106.00 (See Basic Auditory Test CD with 1st ed. WIPI in Prepressed Compact Discs)
Spondees, **Child's Spondees**, W-22, NU-6, PBK-50, WIPI – 2nd ed.**,** Connected Discourse, Paired Comparison Sentences & Multitalker Noise (opposite W-22, NU-6, & PBK-50) [Cat. #CD101RW2] Price $139.75 (See Basic Auditory Test CD with 2nd ed. WIPI in Prepressed Compact Discs)

PICTURED SPONDEE WORDS (PSW)

This is a picture-pointing speech threshold test for non-verbal or recalcitrant children. There are 12 spondaic words selected from the children's spondee word list for which there are corresponding pictures on an 8½ x 11 inch card. The 12 words are randomized five times for a total of 60 items.

Pictured Spondee Words [Cat. #153] Price $62.75
Pictured Spondee Words, Card only [Cat. #P143] Price $3.75

PICTORIAL REPRESENTATIONS OF SPONDEES (PROS)

NEW! Color photos instead of drawings! There are separate cards for each word, 18 in all.

PROS 1 Set of 18 [Cat. #P145R] Price $44.00

WORD RECOGNITION TESTS (SPEECH DISCRIMINATION TESTS)

CID W-22

This is a phonetically balanced test for word recognition (i.e. speech discrimination). There are four lists of 50 words each. They are made up of consonant-nucleus (CN), nucleus-consonant (NC) and consonant-nucleus-consonant (CNC) words. These lists have been recorded in four randomizations called "forms." The talker has a General American dialect. The articulation function is approximately 4% /dB.

CID W-22, Forms A [Cat. #103] Price $59.50
CID W-22, Forms B [Cat. #104] Price $59.50
CID W-22, Forms C [Cat. #105] Price $59.50
CID W-22, Forms D [Cat. #106] Price $59.50
CID W-22, Forms A, Short Interval [Cat. #103SI] Price $59.50
CID W-22, Forms B, Short Interval [Cat. #104SI] Price $59.50
CID W-22, Forms C, Short Interval [Cat. #105SI] Price $59.50
CID W-22, Forms D, Short Interval [Cat. #106SI] Price $59.50
CID W-22, Form A & Spondees [Cat. #101] Price $95.00
CID W-22, Form A & ASHA Spondees [Cat. #101A] Price $95.00
CID W-22, Form A & Spondees, Short Interval [Cat. #101SI] Price $95.00
CID W-22 (Hirsh Talker) [Cat. #103H] Price $59.50
CID W-22, Form A with Four Talker Noise [Cat. #132] Price $82.25
CID W-22, Form A with Cafeteria Noise [Cat. #133] Price $82.25
CID W-22, Form A with Multitalker Noise [Cat. #147] Price $85.00
W-22 Ordered by Difficulty [Cat. #115] Price $70.25

Spondees, Child Spondees**, W-22**, NU-6, PBK-50, WIPI – 1st ed., Connected Discourse, Paired Comparison Sentences & Multitalker Noise (opposite W-22, NU-6, & PBK-50) [Cat. #CD101R] Price $106.00 (See Basic Auditory Test CD with 1st ed. WIPI in Prepressed Compact Discs)
Spondees, Child's Spondees, **W-22**, NU-6, PBK-50, WIPI – 2nd ed., Connected Discourse, Paired Comparison Sentences & Multitalker Noise (opposite W-22, NU-6, & PBK-50) [Cat. #CD101RW2] Price $139.75 (See Basic Auditory Test CD with 2nd ed. WIPI in Prepressed Compact Discs)

NORTHWESTERN UNIVERSITY AUDITORY TEST NUMBER SIX (NU-6)

This is a phonetically balanced word recognition test that employs CNC words. There are four lists of 50 words each. These lists have been recorded in four randomizations called "forms." The talker has a General American dialect. The articulation function is approximately 4% /dB.

NU-6, Forms A [Cat. #107] Price $59.50
NU-6, Forms B[Cat. #108] Price $59.50
NU-6, Forms C [Cat. #109] Price $59.50
NU-6, Forms D [Cat. #110] Price $59.50
NU-6, Forms A, Short Interval [Cat. #107SI] Price $59.50
NU-6, Forms B, Short Interval [Cat. #108SI] Price $59.50
NU-6, Forms C, Short Interval [Cat. #109SI] Price $59.50
NU-6, Forms D, Short Interval [Cat. #110SI] Price $59.50
NU-6, Form A & Spondees [Cat. #145] Price $95.00
NU-6, Form A & Spondees, Short Interval [Cat. #145SI] Price $95.00
NU-6, Form A & ASHA Spondees [Cat. #145A] Price $95.00
NU-6, Form A with Four Talkers [Cat. #134] Price $82.25
NU-6, Form A with Cafeteria Noise [Cat. #135] Price $82.25
NU-6, Form A with Multitalker Noise [Cat. #148] Price $85.00
NU-6 Ordered by Difficulty (1/2 lists) [Cat. #116] Price $70.25
NU-6 Ordered by Difficulty, Version II [Cat. #211] Price $84.50
NU-6 Ordered by Difficulty, Version II, Short Interval [Cat. #211SI] Price $84.50
Spondees, Child's Spondees, W-22, **NU-6**, PBK-50, WIPI – 1st ed., Connected Discourse, Paired Comparison Sentences & Multitalker Noise (opposite W-22, NU-6, & PBK-50) [Cat. #CD101R] Price $106.00 (See Basic Auditory Test CD with 1st ed. WIPI in Prepressed Compact Discs)
Spondees, Child's Spondees, W-22, **NU-6**, PBK-50, WIPI – 2nd ed.**,** Connected Discourse, Paired Comparison Sentences & Multitalker Noise (opposite W-22, NU-6, & PBK-50) [Cat. #CD101RW2] Price $139.75 (See Basic Auditory Test CD with 2nd ed. WIPI in Prepressed Compact Discs)

DISCRIMINATION HALF-LISTS (CAMPBELL'S HALF-LISTS)

This is a series of eight lists of 25 words each. The words were selected from the W-22 lists.

Discrimination Half-Lists (Campbell's Half-Lists) [Cat. #181] Price $65.00

W-22 ORDERED BY DIFFICULTY

These are four lists of 25 words each selected by D. Rose so that they are ordered from most likely to be missed to the least likely. If the first 10 items (or 9 of the 10) are heard correctly, the test is halted, since it is assumed that an individual with word recognition difficulty will be most likely to miss the most difficult items. Persons who miss more than one of the first ten items are given the entire 25-word list.

W-22 Ordered by Difficulty [Cat. #115] Price $70.25

NU-6 ORDERED BY DIFFICULTY

These are seven lists of 25 words each ordered by difficulty from difficult to easy. The test is similar to the W-22 ordered by difficulty described above.

NU-6 Ordered by Difficulty [Cat. #116] Price $70.25

NU-6 ORDERED BY DIFFICULTY – VERSION II

This version of the NU-6 allows the audiologist to reduce the time of testing in cases where the patient has essentially normal word recognition ability. It is the result of recent research on our original recording by Raymond Hurley and Janet Sells.

The lists are ordered from the most difficult to the easiest. With normal listeners the test can often be terminated after the first 10 words. This is not a half list; however, there is a provision for termination of the test after 25 words in addition to after the first 10 words.

NU-6 Ordered by Difficulty, Version II [Cat. #211] Price $84.50
NU-6 Ordered by Difficulty, Version II, Short Interval [Cat. #211SI] Price $84.50

PSYCHOACOUSTIC LABORATORY (PAL) WORD RECOGNITION LISTS

These 50 word lists represent one of the earliest attempts to develop a test of communication ability. *AUDiTEC*™ has a total of 8 lists available. Lists 1-4 were recorded and spoken by James Jerger. Lists 9-12 are spoken by Rush Hughes (and are generally known as the Rush Hughes lists). Our Rush Hughes recording was dubbed from a disc recording and is somewhat noisy. The Rush Hughes recording is very difficult (better than 80% correct is within normal limits.) The Rush Hughes recording has been employed in central auditory processing assessments in addition to a word recognition test.

PAL Lists 1-4 (Jerger) [Cat. #186] Price $76.75
PAL Lists 5-12 (Rush Hughes) [Cat. #182] Price $76.75

CALIFORNIA CONSONANT TEST (CCT)

This is a closed-set, pencil/paper, multiple choice word recognition test. It consists of two 100-word lists. The CCT is particularly sensitive to high frequency hearing loss and is, therefore, considered to be useful in hearing aid evaluations.

It does **not** correlate highly with "phonetically balanced" word recognition tests such as the W-22 or NU-6, nor does it correlate with degree of hearing loss. Therefore, the CCT cannot be employed as a substitute for the more popular word recognition tests. The first and second halves of list one are equivalent and, therefore, half lists can be given with confidence. This is not true of list two, however.

California Consonant Test [Cat. #119] Price $102.75

EVERYDAY SPEECH

These are 10 sets of 10 sentences each with 50 "target" words in each set for word recognition assessment under contextual conditions. They can be employed in auditory training also. The sentences vary in length and are spoken with minimal inflection. There are no normative data on this recording.

Everyday Speech [Cat. #167] Price $59.50

SYNTHETIC SENTENCE IDENTIFICATION (SSI)

This test assesses word recognition in a sentence-like paradigm without contextual clues. It is designed to be used with competition, either contralaterally or ipsilaterally. In addition, the test has been employed

in auditory processing assessments, specifically the 0 dB MCR ipsilateral version

AUDiTEC™ has recorded four variations:

1. Contralateral competition (SSI CCM): The sentences are on the left track (channel) and the competition is on the right.

2. Ipsilateral competition (SSI ICM): Both the sentences and competition are recorded on one track (channel) at various message-to-competition ratios (MCR) or signal-to-noise ratios (S/N).

    a. SSI-ICM -20 - +10. The MCRs are mixed -20, -10, 0, +10, -20, -10, 0, +10, 0, & 0 dB per set of 10.

    b. SSI-ICM +10 - -20. Here the MCRs begin with +10 and progress to -20 dB similar to (a.) above.

    c. SSI-ICM +10 - 0. The first two sets of sentences are recorded at +10 dB MCR, the remaining eight at 0 dB MCR.

SSI-CCM [Cat. #123] Price $104.75
SSI-ICM [Cat. #136] Price $104.75
SSI-ICM Reverse Order [Cat. #160] Price $104.75
SSI-ICM +10&0 MCR's [Cat. #161] Price $104.75
Spanish SSI-CCM [Cat. #150] Price $120.00
Spanish SSI-ICM [Cat. #152] Price $120.00

EDGERTON-DANHAUER NONSENSE SYLLABLE TEST (NST)

This test was developed because of negative clinical and research experiences with traditional word test materials. These traditional tests lack the sensitivity and reliability desired of them, especially when used with hearing-impaired patients as the sole measures of word recognition ability.

Several advantages of nonsense syllable materials over words include: increased analytic accuracy, less contamination by memory effects, less susceptibility to word familiarity effects, easier test construction and more sensitivity to the presence of auditory pathology.

These advantages have been known for some time, but there has been a reluctance to use nonsense syllable tests because of so-called difficulties in administration and scoring. However, with few exceptions, all the data collected on the NST have shown that it is as easy to administer and score these as most of the traditional tests.

The NST consists of two 25-element lists in six randomizations.

Nonsense Syllable Test [Cat. #190] Price $80.50

KENT STATE UNIVERSITY SPEECH DISCRIMINATION TEST (KSU SDT)

This closed-set, pencil-paper word recognition test employs sets of sentences in which the test (key) words are imbedded. There are 13 sentences in each of eight forms (sets). The sentences within each form increase in difficulty from sentence one to sentence 13. Scoring is weighted for difficulty.

The patient, having a printed copy of the sentences, chooses the word heard from among five foils, one the key word. Therefore, scoring is not based on the examiner's perception of the patient's oral responses, errors occurring because of poor test conditions, poor patient articulation, examiner listening error (or bias) or foreign accents. In the latter cases the KSU SDT is particularly useful. Also, neither spelling, nor writing of the key word is required, the patient merely needs to be able to read and mark with a line. The KSU SDT has been used with children in the third grade and with many second grade children.

The KSU SDT is a useful tool in hearing aid evaluations, especially since each set of 13 sentences requires less than two minutes to administer.
In addition, the KSU SDT has been used in auditory training programs. Since the items within a form progress in difficulty, this utilization might be employed to show progress in auditory training and be useful from a prognostic standpoint as well.

Employing any of the foils in the sentence rather than just the key word can increase the usefulness of the sentences.

Kent State University-Speech Discrimination Test [Cat. #180] Price $86.00

ISOPHONEMIC WORD LISTS

We have recorded the series of isophonemic words published by Boothroyd.

Boothroyd Isophonemic Word Lists [Cat. #118] Price $83.25

MODIFIED RHYME TEST

This recording is a dub of a tape recording by Kruel at Stanford University many years ago. It consists of a series of four fifty word lists in quiet and in noise. The first and last fifty words are "in quiet" though there is a subdued white noise about 30 dB below the stimulus words. The second and third series of fifty words are in noise, the S/N selected to provide a predicted percent correct for normal listeners, labeled "P83 and P76" respectively. It is a multiple choice-pencil paper test. Each list begins with instructions and several practice items.

Modified Rhyme Test [Cat. #117] Price $119.00

WORD RECOGNITION TESTS--CHILDREN

PBK-50

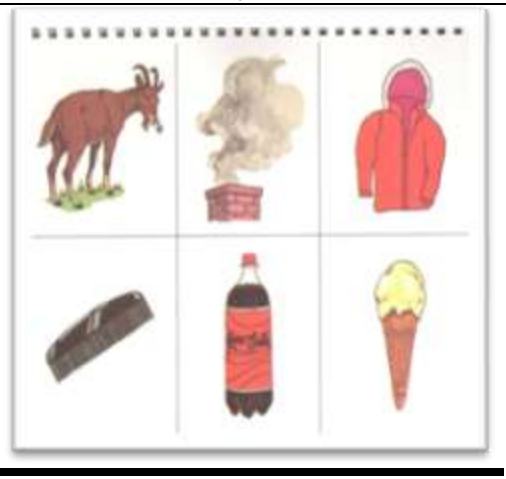
This test consists of three 50 word lists in four randomizations for testing the word recognition ability of lower grade school age children. The articulation function is approximately 4%/dB.

PBK-50, Forms A-D [Cat. #111-114] Price $59.50 each
PBK-50, Forms A-D, Short Interval [Cat. #111SI-114SI] Price $59.50 each
Child Spondees, PBK-50, Form A [Cat. #185] Price $95.00
Child Spondees, PBK-50, Form A, Short Interval [Cat. #185SI] Price $95.00
Spondees, Child's Spondees W-22, NU-6, **PBK-50,** WIPI – 1st ed., Connected Discourse, Paired Comparison Sentences & Multitalker Noise (opposite W-22, NU-6, & PBK-50) [Cat. #CD101R] Price $106.00 (A basic auditory tests CD)
Spondees, Child's Spondees, W-22, NU-6, **PBK-50**, WIPI – 2nd ed., Connected Discourse, Paired Comparison Sentences & Multitalker Noise (opposite W-22, NU-6, & PBK-50) [Cat. #CD101RW2] Price $139.75 (A basic auditory tests CD)

WORD INTELLIGIBILITY BY PICTURE IDENTIFICATION (WIPI) 2nd EDITION

The WIPI test is a closed-set picture-pointing word recognition test appropriate for children whose language age is between 5 and 10-11. The test is comprised of four 25-word lists. The picture book contains 26 color plates (one for practice), six pictures per page. The book has been revised. Note: We still have copies of the first edition.

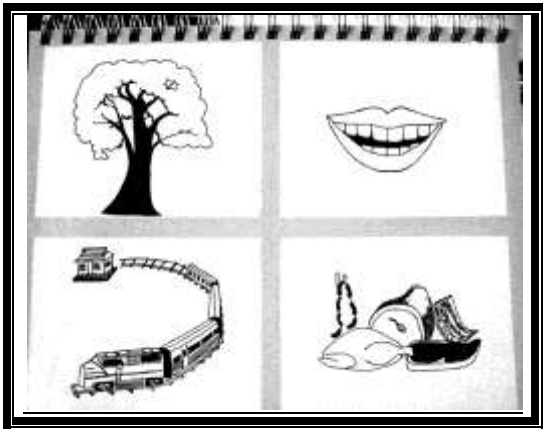
WIPI 2nd ed.[Cat. #142R] Price $194.75
Spondees, Child's Spondees, W-22, NU-6, PBK-50, **WIPI – 2nd ed.,** Connected Discourse, Paired Comparison Sentences & Multitalker Noise (opposite W-22, NU-6, & PBK-50) [Cat. #CD101RW2] Price $139.75 (A basic auditory tests CD)



NORTHWESTERN UNIVERSITY--CHILDREN'S PERCEPTION OF SPEECH (NU-CHIPS)

NU-CHIPS is a closed-set picture-pointing word recognition test for children whose language age is as low as three. The test is made up of 50 words familiar to three-year-old children in four randomizations called forms. The test includes one CD-Rom that displays picture books with 50 monochrome plates, four pictures per plate. Book A is used for forms A & B; book B for C & D. There are two recordings, one male and one female talker.

NU-CHIPS [Cat. #144] Price $142.25
NU-CHIPS Female Talker [Cat. #144F] Price $142.25



PEDIATRIC SPEECH INTELLIGIBILITY TEST (PSI)

The importance of speech audiometry, especially where the test materials include both monosyllabic words and sentences, has been well established for adults. Experience with performance vs. intensity (PI) functions and message to competition ratio (MCR) functions with adults led to the development of an analogous test for children; the Pediatric Speech Intelligibility (PSI) test.

The PSI includes both monosyllabic words and sentences recorded in quiet and with competition. The test employs color plates with pictures of animals (animals were use to avoid ethnic biases) which represent either the sentences or the words. It is an extremely useful tool for the investigation of peripheral ***and*** auditory processing with children down to a language age of three or slightly younger.

There are two versions: the Standard Version which includes three CD's (or five cassettes). In this version there are two sets of sentence materials allowing for re-testing without having to use the same sentences. The Basic Version includes two CD's (or three cassettes). The basic version is a complete test, but has only one set of sentences. The basic version is recommended for those who will be testing on a one-time basis, the standard version should be used when repeat testing is required.

PSI Basic Version [Cat. #184] Price $219.75
PSI Standard Version [Cat. #183] Price $299.00

AUDITORY PERCEPTION OF ALPHABET LETTERS (APAL)

The Auditory Perception of Alphabet Letters (APAL) was developed for use with hearing impaired children for whom the more standard tests are unsuitable. Children may be unfamiliar with some of the pictured items on the WIPI, PSI, or NU-CHIPS, or some of the PBK-50 words may not be in the child's vocabulary or the child's speech may be unintelligible, or the materials may be too easy or uninteresting. In these cases the APAL may prove useful.
The APAL test uses oral production of the letters of the alphabet. It is a closed-set of the 26 letters. Responses may be oral, by sign, or by pointing to a response board (supplied). The test consists of five forms; all 26 letters are used. Scoring is weighted by the proximity of the response to the phonetic content of the letter.

APAL [Cat. #191] Price $102.75

MATERIALS FOR COCHLEAR IMPLANT PATIENTS, AND ALSO THE NON-VERBAL OR DIFFICULT TO TEST

MINIMAL AUDITORY APDABILITIES (MAC) BATTERY, 2ND EDITION

The Minimal Auditory capabilities (MAC) battery is specifically targeted to the cochlear implant patient. It consists of a series of tasks which are graded in difficulty. Most of the MAC battery sub-tests assume that a patient's hearing loss has occurred post-lingual, but it can be employed as a means of evaluating the hearing abilities of persons for whom traditional speech materials are too difficult. The second edition has been standardized.

The recorded materials include gross sound identification, inflection detection, contrast detection, accent discrimination, and word identification. There are 14 sub-tests, 13 audio and one video (not available from *AUDiTEC*™).

MAC Battery [Cat. #155] Price $141.00

SOUND EFFECTS RECOGNITION TEST (SERT)

The SERT was developed for those instances where conventional word recognition measures are not appropriate, such as those with language limitations due to hearing impairment. It has been shown that certain children who are unable to discriminate even simple speech can perceive correctly environmental sounds to which they are exposed in their daily lives. Under these circumstances, the SERT can provide valuable information about the integrity of the auditory system.

This is a closed-set, picture-pointing task. There are three sets of 10 sounds plus a practice sound.

SERT [Cat. #137] Price $126.50

LEXICAL NEIGHBORHOOD TEST MUTISYLLABIC LEXICAL NEIGHBORHOOD TEST (LNT/MLNT)

The Lexical Neighborhood/Multisyllabic Lexical Neighborhood Tests (LNT-MLNT) were developed primarily for use with cochlear implant children. Determining the benefits of sensory aids (i.e. hearing aids or cochlear implants) is essential for the proper management of hearing impaired children. Open-set word recognition tests have provided important diagnostic information relative to the benefits of sensory aids. The information garnered from these tests indicates the extent of neural representation of words in a child's long-term lexical memory.

The most used open-set word recognition test for children has been the PBK-50 lists. However, it has been noted that for *hearing-impaired* children the PBK-50 does not assess the abilities of these children

validly. *The LNT-MLNT has been shown to be a more sensitive measure of spoken word recognition in these children.*

The LNT-MLNT was developed along theoretically motivated current models of spoken word recognition in listeners with hearing impairment. The development of the LNT-MLNT was based on the assumptions of the Neighborhood Activation Model (NAM), which proposes that words are organized into "similarity neighborhoods" based on their frequency of occurrence in the language and the number of phonemically similar words, or neighbors, within the lexical neighborhood. A dense lexical neighborhood contains many phonemically similar words, whereas a sparse lexical neighborhood has few phonemically similar words. Words that occur often and come from sparse lexical neighborhoods are easier for children to identify than words with the opposite lexical characteristics.

The stimulus words for the LNT-MLNT were selected according to two criteria: 1. The words had to be familiar to young children with limited vocabularies. 2. The selection was based on current models (NAM) of word recognition and lexical access. Stimuli on the LNT-MLNT are separated into easy and hard word lists.

Lexical Neighborhood & Multisylabic Lexical Neighborhood [Cat. #205] Price $153.50

AUDITORY PERCEPTION OF ALPHABET LETTERS (APAL)

See under Word Recognition Tests--Children.

FORTY FAMILIAR SOUNDS (FFS)

These forty sound effects are offered as attention-getting stimuli. Most of the sounds are familiar, while the remaining sounds, by their strange and/or unusual nature, were designed to attract attention. Some of the sounds are: trains, sirens, crowds, airplanes, motorcycles, horses, dog barking, breaking glass, guns, cuckoo clocks, gongs, chimes, etc.

Forty Familiar Sounds [Cat. #154] Price $60.50

NOTE: *AUDiTEC*™ has an extensive library of sound effects and non-copyrighted music. Call for information.

FILTERED ENVIRONMENTAL SOUNDS

Selections from Forty Familiar Sounds (see above) have been band-pass filtered. The test includes ten sounds with a center frequency of 500 Hz at 48 dB per octave and an additional ten at 2 kHz again at 48 dB/oct. The purpose is attention getting, with some frequency specificity.

Filtered Environmental Sounds [Cat. #164] Price $65.00

ECHOES ON ECHOES

The title of this recording is comparatively descriptive. Various frequencies, steady and changing, were frequency-modulated, interrupted and reverberated between tracks at various rates and degrees. Often the signal appears to move from one transducer to the other (when presented dichotically, or through stereo speakers).

The purpose is to provide novel stimuli for attracting attention. The recording has been employed successfully to estimate hearing levels of severely mentally retarded individuals who had resisted more conventional efforts to ascertain hearing function. It is most effective when presented through a two-channel speaker system.

Echoes on Echoes [Cat. #165] Price $62.75

FILTERED ECHOES ON ECHOES

Selected sections of the Echoes on Echoes recording have been filtered in three-pass bands with center frequencies of 500 Hz, 1 kHz & 2 kHz at 48 dB/oct. However, filtering destroyed the stereo effect of the Echoes on Echoes recording.

Filtered Echoes on Echoes [Cat. #166] Price $65.00

AUDITORY TRAINING

CONSTRAINT-INDUCED AUDITORY TRAINING (CIAT)

Constraint-Induced Auditory Therapy (CIAT) is a dichotic listening therapy program. Developed by Annette Hurley, Ph.D and D. Bradley Davis, AuD, Department of Communication disorders, LSU Health Sciences Center, this program is based upon Dichotic Interaural Intensity Difference (DIID) training. Designed for persons with specific ear deficits on dichotic listening tests (including children with dyslexia, persons with hypersensitivity to noise, adults with aphasia, or anyone who would like to improve their listening ability), the program employs a variety of stimuli, dichotic in nature, specifically for the purpose of strengthening auditory processing by targeting an individual's weaker ear through dichotic listening. Dichotic listening therapy activities can be of assistance to a person with a weak ear, will help with attention, and can facilitate listening in noise.

The CIAT program consists of exercises employing numbers, syllables, words, sentences of various lengths, short stories, fables and a longer story. All are dichotic exercises. The competition is either of the same genre i.e. number vs. number or four talker babble. CIAT is available in a Basic version (4 CD's) which excludes the longer story, or the Standard Version (12 CD's) which includes the longer story. Or one may purchase just the longer story (8 CD's).

CIAT-Basic [Cat. #CD123] Price $995.00
CIAT-Standard [Cat. #CD124] Price $1395.00
CIAT-Longer Story [Cat. #CD125] Price $795.00

AUDITORY TRAINING LESSONS FOR ADULTS

This is a series of 21 auditory training lessons for the adult and older child. Each lesson consists of words, phrases and sentences. The words, spoken in isolation, are paired for contrast. The phrases and sentences are completion tasks which employ many of the words in the word section. A General American dialect male is the talker. The lessons can be used either individually or in a group setting. While it is self-administering, a clinician's presence is recommended.

ATL-A Lessons 1-7 [Cat. #156] Price $81.00
ATL-B Lessons 8-14 [Cat. #157] Price $81.00
ATL-C Lessons 15-21 [Cat. #158] Price $81.00
ATL-ABC Lessons 1-21 [Cat. #159] Price $194.75

CUNY SENTENCES

A male talker has recorded forty sets of 12 sentences. These sentences vary in length and subject matter. These sentences are not designed specifically for word recognition, and there are no data available. They were recorded for a special project and are being made available to anyone who may want to have a large series of sentences to use as auditory training exercises, for instance.

CUNY Sentences [Cat. #162] Price $131.75

AUDITORY TRAINING WITH OUR TEST RECORDINGS

Several of our tests can be employed as auditory training exercises. See for instance, the **Kent State University Speech Discrimination Test (KSU SDT), Synthetic Sentence Identification (SSI), Forty Familiar Sounds (FFS)** and **Sound Effects Recognition Test (SERT).**

NOISES AND "NON-TEST" SPEECH

CAFETERIA NOISE (CN)

This recording was made in an employee cafeteria of a large hospital. The noise was over-dubbed three times at different time offsets in an attempt to maintain a more constant level over time. The recording has some intelligible speech and many transients.

Cafeteria Noise [Cat. #127] Price $59.50

MULTITALKER (20 TALKERS) (MT)

Twenty young adults were recorded simultaneously reading different passages. It is babble, obviously speech, but completely unintelligible so that it is less likely to be a semantic distracter than Four Talkers (see below), a single talker or perhaps cafeteria noise. The level is remarkably stable over time.

Multitalker Noise [Cat. #146] Price $62.75
Spondees, Child's Spondees, W-22, NU-6, PBK-50, WIPI – 1st ed., Connected Discourse, Paired Comparison Sentences & **Multitalker Noise** [Cat. #CD101R] Price $106.00 (A basic auditory tests CD)
Spondees, Child's Spondees, W-22, NU-6, PBK-50, WIPI – 2nd ed., Connected Discourse, Paired Comparison Sentences **& Multitalker Noise** [Cat. #CD101RW2] Price $139.75 (A basic auditory tests CD)

FOUR TALKERS (FT)

Four talkers, three females and a male, were recorded separately and then mixed. The male is quite intelligible, the females variably intelligible. See Foreign Language Materials for Spanish version.

Four Talker Noise [Cat. #126] Price $59.50
Four Spanish Talker Babble [Cat. #212] Price $78.25

NOISES BY AND FOR CHILDREN

This is a recording of children in two venues, the school cafeteria and a busy school classroom. It is believed that this type of recording may be a superior distracter for children testing.

Children's Noises, Classroom & Playground [Cat. #210] Price $71.25

SOUND EFFECTS, ENVIRONMENTAL SOUNDS

AUDiTEC™ has an extensive library of sound effects, too numerous to list. Call for information.

SPEECH IN NOISE

NU-6 or W-22 with

- CAFETERIA NOISE,
- FOUR-TALKER BABBLE, or
- MULTITALKER (TWENTY) BABBLE

NU-6 or W-22 lists are available with cafeteria noise, four-talker babble, or multitalker babble as competition. The primary signal (word list) is recorded on the left track, the competition on the right.

Though not listed in our catalog, we can record the word recognition tests with either white noise or speech spectrum noise, or we can record both the signal and the competition on the same track at any signal to noise ratio desired at slight additional cost. Similarly, we can record on special order any of the noises mentioned with any of the other word recognition tests in our catalog.

NU-6 with Cafeteria Noise [Cat. #135] Price $82.25
NU-6 with Four Talker Babble [Cat. #134] Price $82.25
NU-6 with Multitalker (Twenty) Noise [Cat. #148] Price $85.00
W-22 with Cafeteria Noise [Cat. #133] Price $82.25
W-22 with Four Talker Babble [Cat. #132] Price $82.25
W-22 with Multitalker (Twenty) Babble [Cat. #147] Price $85.00

SPRINT

SPRINT is another speech in noise test. It consists of the Auditec recording of NU-6 form C mixed with Multi-Talker Noise at a signal to noise ratio (SNR) of +9 dB.

SPRINT (NU-6 Form C & MT at +9 dB) [Cat. #224] Price $85.00

SPEECH IN NOISE (SIN) and QuickSIN

See under Hearing Aid Evaluation.

AUDITORY PROCESSING DISORDERS (APD[3])

(FOREIGN LANGUAGE APD TESTS: SEE UNDER FOREIGN LANGUAGE MATERIALS)

PLEASE NOTE:
Some of our APD tests have minimal normative information. There is good evidence that regional differences affect scores more for distorted, and/or less redundant speech stimuli, than for the normal speech. Therefore, it is recommended that the clinician develop his/her own data that is pertinent for his/her region. Many of our tests do have extensive data, and while these will be included with the test, they should be validated on the local population.

In addition, it is assumed that purchasers of APD tests are well trained in the use of APD tests and are aware of the purpose of these tests, and how to use them. It is not the intent of this catalog, or of the materials that accompany these tests to inform the purchaser of the purpose of the tests or how to interpret them. What follows are descriptions of the contents of each test. Further information should be obtained from the literature and/or seminars.

[3] A CD with samples of all APD tests is available at no cost to accredited graduate programs. Write or call for information.

MULTIPLE AUDITORY PROCESSING ASSESSMENT (MAPA)

The Multiple Auditory Processing Assessment (MAPA) battery is a comprehensive compendium of tests developed to identify children and adults who have auditory processing disorders. It was designed for ages 8 through adult.

MAPA's purpose is to provide professionals with an auditory test that 1) is standardized with two forms, 2) covers the three most important auditory processing domains as defined by ASHA and 3) uses convenient CD technology for application in the classroom or sound booth.

The areas covered are:

MONAURAL (Low Redundancy)—(Monaural Separation Closure-MSC)

1) Monaural-Selective Auditory Attention Test (MSAAT)

TEMPORAL (Auditory Pattern Temporal Ordering-APTO)

2) TAP Test
3) Pitch Pattern (PP) Test

BINAURAL (Dichotic Speech)—(Binaural Integration/Binaural Separation-BIBS)

4) Dichotic Digits (DD)
5) Competing Sentences (CS)

In addition several supplementary tests are included:
Pattern Perception
Speech in Noise
Gap Detection

Complete manual and related materials on CD-Rom are included with the test CD. Test time is approximately 21 minutes, while scoring should take an additional 5 minutes.

MAPA [Cat. #CD119] Price $299.00 (See Multiple Auditory Processing Assessment (MAPA) in Prepressed Compact Discs)

SCAN-3

SCAN-3 is a battery of tests for the detection of (central) auditory processing disorders. SCAN-3 was developed to assist in the identification of specific auditory processing difficulties; differentiating auditory processing disorders form auditory processing skills and auditory attention difficulties. The pattern of an individual's test results will help in the planning of intervention activities to help minimize the impact that an auditory processing disorder can have on school, work, home and the community.

SCAN-3 can be used as a screening test, requiring only about 10-15 minutes to administer, or a diagnostic assessment can be achieved in 30-45 minutes. The screening tests have normative based criterion –referenced scores. The diagnostic test results in scaled scores, and percentile ranks. Ear advantage scores for most of the tests are obtained. Age range is 5 – 12 for the child version and 13 – 60 for the adolescent and adult version.

SCAN-3 Children [Cat. #CD121] Price $259.00 (See SCAN-3 Children in Prepressed Compact Discs)
SCAN-3 Adolescents & Adults [Cat. #CD122] Price $259.00 (See SCAN-3 ADLS & ADLT in Prepressed Compact Discs)

PITCH PATTERN SEQUENCE (PPS)

The Pitch Pattern Sequence (PPS) test consists of a series of three tones presented at either of two frequencies (pitches). The subject's task is to describe the pitches of the tones presented. The test is a monaural test that evaluates both pattern perception and temporal sequencing ability while excluding verbal cues.

The test is available in two versions: 1. Adult Version and 2. Child Version. There are just two differences: 1. The duration of the tones is 300 msec in the adult version, 500 msec in the child's version. 2. The interstimulus interval (between triplets) is 6 seconds in the adult version and 9 seconds in the child's.

Relative hemispheric involvement can often be observed by having the patient give a motor response (usually verbal) in the first trial and a humming response for the second trial.

Pitch Pattern Sequence – Child [Cat. #139**]** Price $107.00
Pitch Pattern Sequence –Adult [Cat. #138] Price $103.75
Duration Pattern Sequence, **Pitch Pattern Sequence – Child & Adult**, Random Gap Detection Test – Expanded, Masking Level Difference - Tone [Cat. #CD117] Price $329.75 (See NCAP Battery in Prepressed Compact Discs)

FREQUENCY PATTERN SEQUENCE (FP) (PITCH PATTERN SEQUENCE)

A Frank Musiek recording
Post production: AUDiTEC

The Frequency Pattern (FP) test was recorded by Dr. Frank Musiek and is usually sold as part of a package with Dichotic Digits and Duration Pattern Test, also by Dr. Musiek. FP test is similar to AUDiTEC'S Pitch Pattern Sequence (PPS)(recorded by Marilyn Pinheiro) in that groups of three tone bursts at either of two frequencies are presented monaurally. While the Pinheiro version has a children's and adult's version, Musiek's is only one version.

Frequency Pattern (Pitch Pattern Sequence, Musiek Version) [Cat. #138FM**]** Price $107.25
Musiek DD-**PPS**-DPS [Cat. #216FM] Price $255.00

DURATION PATTERN SEQUENCE (DPS)

Similar to the Pitch Pattern Sequence (PPS) test, the Duration Pattern Sequence (DPS) test also explores pattern perception. However, instead of employing tones of different frequencies, the DPS test uses a single frequency tone at two dissimilar durations. Specifically, each pattern is made up of three 1000 Hz tones of one of two durations. That is, two short, one long or one long, two short, in disparate patterns.

There is a total of 60 presentations plus 10 additional patterns for practice.

Duration Pattern Sequence [Cat. #198] Price $94.75
Duration Pattern Sequence, Pitch Pattern Sequence – Child & Adult, Random Gap Detection Test – Expanded, Masking Level Difference - Tone [Cat. #CD117] Price $329.75 (See NCAP Battery in Prepressed Compact Discs)
Dichotic Digits, **Duration Pattern Sequence,** Dichotic Word Listening Test, Masking Level Difference – Tone, NU-6 Low Pass Filtered at 750 Hz, Time Compressed Sentence Test, Random Gap Detection Test, Selective Auditory Attention Test, Competing Sentences [Cat. #CD115] Price $549.00 (See ACAP Battery in Prepressed Compact Discs)

DURATION PATTERN SEQUENCE (DPS) (MUSIEK VERSION)

A Frank Musiek recording
Post production: AUDiTEC

This Dr. Frank Musiek recording of the Duration Pattern Sequence is identical to AUDiTEC's version.

Duration Pattern Sequence, Musiek Version [Cat. #198FM**]** Price $102.50
Musiek DD-PPS-**DPS** [Cat. #216FM] Price $255.00

TIME COMPRESSED MONOSYLLABIC WORD TESTS

Several of our standard word recognition lists have been time compressed. That is, the speech stimuli have been accelerated, but without a shift in pitch. Most of the tests have been compressed 30% and 60%; however, the WIPI has been compressed 30, 40, 50, & 60%. The time compressed tests are: NU-6, W-22, and WIPI. Normative data are available for the W-22 only.

NU-6 Time Compressed [Cat. #129] Price $82.25
W-22 Time Compressed [Cat. #128] Price $82.25
WIPI, 1st ed. Time Compressed [Cat. #141] Price $106.50
WIPI, 2nd ed. Time Compressed [Cat. #141R] Price $139.00

TIME COMPRESSED SENTENCE TEST (TCST)

The Time Compressed Sentence Test (TCST) is an additional test for identifying and quantifying disorders of auditory processing in children specifically the child's ability to understand acoustically distorted or rapid rates of speech. In addition, results of testing with the TCST may yield insights into children with slow reaction times and speed of mental processing.

Time Compressed Sentence Test [Cat. #209] Price $129.75
Time Compressed Sentence Test - Spanish [Cat. #213] Price $143.25
Dichotic Digits, Duration Pattern Sequence, Dichotic Word Listening Test, Masking Level Difference – Tone, NU-6 Low Pass Filtered at 750 Hz, **Time Compressed Sentence Test**, Random Gap Detection Test, Selective Auditory Attention Test, Competing Sentences [Cat. #CD115] Price $549.00 (See ACAP Battery in Prepressed Compact Discs)

DICHOTIC DIGITS

The Dichotic Digits test is another attempt to assess the ability to process different materials arriving at the ears simultaneously. Fifty sets of digits, one through nine (except seven, having two syllables) are presented either in single pairs or double pairs. The digits begin and end simultaneously.

Dichotic Digits [Cat. #197] Price $94.75
Dichotic Digits, Duration Pattern Sequence, Dichotic Word Listening Test, Masking Level Difference – Tone, NU-6 Low Pass Filtered at 750 Hz, Time Compressed Sentence Test, Random Gap Detection Test, Selective Auditory Attention Test, Competing Sentences [Cat. #CD115] Price $549.00 (See ACAP Battery in Prepressed Compact Discs)

DICHOTIC DIGITS (MUSIEK VERSION)

A Frank Musiek recording
Post production: AUDiTEC

The Dichotic Digits test by Dr. Frank Musiek is similar to AUDiTEC's version. That is, digits from one to ten are presented dichotically. One set is single pair, the second is double pair. Usually, the single pair set is for practice. Dr. Musiek's version differs from AUDiTEC's in that the AUDiTEC version does not include the digit "seven' since it is a two syllable word in contrast to the other nine digits.

Dichotic Digits, Musiek Version [Cat. #197FM**]** Price $102.50
Musiek **DD**-PPS-DPS [Cat. #216FM] Price $255.00

LOW PASS FILTERED LISTS

NU-6, PBK-50 and WIPI tests have been low pass filtered. We provide a choice of tests and cut-off frequencies. The originator of this concept employed a 500 Hz low pass filter, but it is believed by many that a 500 Hz low pass filter is too difficult even for normal listeners and, therefore, tends to produce too many false positives.

AUDiTEC™ has, therefore, recorded three different low-pass versions: 500, 750, & 1000 Hz. Research with the NU-6 low-pass filters supports the belief that 500 Hz is too difficult, and indicates that the preferred cut-off frequency is 750 Hz.

Data are available for the NU-6 versions only.

NU-6 Low Pass Filtered [Cat. #169-#[4]] Price $65.00 each
PBK-50 Low Pass Filtered [Cat. #170-#] Price $65.00 each
WIPI, 1st ed. Low Pass Filtered [Cat. #171-#] Price $65.00 each
WIPI, 2nd ed. Low Pass Filtered [Cat. #171-#R] Price $128.75 each

[4] "#" Add -5 for 500 Hz, -7 for 750Hz &-1 for 1000 Hz low pass filter to the catalog number.

Dichotic Digits, Duration Pattern Sequence, Dichotic Word Listening Test, Masking Level Difference – Tone, **NU-6 Low Pass Filtered at 750 Hz**, Time Compressed Sentence Test, Random Gap Detection Test, Selective Auditory Attention Test, Competing Sentences [Cat. #CD115] Price $ (See ACAP Battery in Prepressed Compact Discs)

SPONDEE BINAURAL FUSION

Selected spondaic words from the children's list have been band-pass filtered in two frequency bands, one for one channel (ear) and the other for the second channel. The low band extends from 500 to 700 Hz, the high band from 1.9 kHz to 2.1 kHz. The recording begins with pulsed speech spectrum noise, passed through the same filters for the purpose of establishing thresholds for those particular frequency bands. These thresholds are to be used to establish the proper presentation levels.

Spondee Binaural Fusion [Cat. #173] Price $65.00

RAPID ALTERNATING SPEECH

This is a series of sentences that alternate between the ears as they are spoken. The period is 600 msec. with a 50% duty cycle (i.e. 300 msec. per ear).

Rapid Alternating Speech [Cat. #178] Price $65.00

COMPETING SENTENCES

This is a dichotic sentence test. There are 20 pairs of sentences, with similar subject matter within each sentence pair. These sentences were recorded so that each pair begins and ends simultaneously.

Competing Sentences [Cat. #179] Price $70.25
Dichotic Digits, Duration Pattern Sequence, Dichotic Word Listening Test, Masking Level Difference – Tone, NU-6 Low Pass Filtered at 750 Hz, Time Compressed Sentence Test, Random Gap Detection Test, Selective Auditory Attention Test, **Competing Sentences** [Cat. #CD115] Price $549.00 (See ACAP Battery in Prepressed Compact Discs)

DICHOTIC SENTENCE IDENTIFICATION (DSI) TEST

The DSI test was developed in an attempt to conceive a dichotic listening task that would be only minimally affected by peripheral hearing loss. Sentences selected from the Synthetic Sentence Identification (SSI) test are presented dichotically. Onsets and offsets of the sentences are aligned with an accuracy of 100 microseconds. The developers claim that the DSI is less susceptible to hearing loss than the SSW test.

The DSI is a viable test of central auditory function in the hearing impaired population. The test is applicable for use in auditory assessment of impaired ears through pure tone averages (PTAs) up to 50 dB at least. The DSI is made up of two sets of 30 pairs of sentences. Normative data are available.

Dichotic Sentence Identification [Cat. #176]
Price $110.25

DICHOTIC CONSONANT/VOWEL (D-CV)

The Dichotic Consonant/Vowel (D-CV) test consists of pairs of consonant-vowel (CV) syllables. They are recorded: 1. with simultaneous onset. 2. with staggered onset. In the latter (staggered), one CV leads the other by 90 milliseconds. Three major behavioral measures can be observed: 1. a right ear advantage. 2. A lag effect. 3. An auditory capacity effect. Data are available.

Dichotic Consonant Vowel [Cat. #175] Price $74.75

SELECTIVE AUDITORY ATTENTION TEST (SAAT)

The Selective Auditory Attention Test (SAAT) was developed to aid in the early identification of young children who have poor ability to attend (attention deficit), especially in noise.

The SAAT is a closed-set, picture-pointing task, employing the WIPI, 1st ed. words and pictures. SAAT consists of two parts, two lists of WIPI words in quiet and two lists imbedded (mixed) in a semantic distracter, which is a competing message (an interesting story). The signal-to-noise ratio is a nominal 0 dB.

The SAAT can be given with any good tape deck in a moderately quiet environment, either through earphones or over a loudspeaker. Normative data for children from age four to nine are included in the manual.

Selective Auditory Attention Test [Cat. #143]
Price $86.00

Dichotic Digits, Duration Pattern Sequence, Dichotic Word Listening Test, Masking Level Difference – Tone, NU-6 Low Pass Filtered at 750 Hz, Time Compressed Sentence Test, Random Gap Detection Test, **Selective Auditory Attention Test**, Competing Sentences [Cat. #CD115] Price $549.00 (See ACAP Battery in Prepressed Compact Discs)

DISCRIMINATION OF PB-K IN NOISE (PBKN)

The Discrimination of PB-K in Noise (PBKN) test was developed to identify those normally hearing children who exhibit difficulty listening in noise (attention deficit). It employs words selected from the PBK-50 lists. There are five 25-word lists; two are in quiet, and the remaining three are imbedded in white noise. Part of the test is presented through earphones and part through a loudspeaker. A sound-treated room is not required. The PBKN was standardized on children from kindergarten through the fifth grade.

Discrimination of PBK in Noise [Cat. #149]
Price $75.75

DICHOTIC WORD LISTENING TEST (DWLT) REVISED

The Dichotic Word Listening Test (DWLT) was developed specifically to demonstrate relative unilateral extinction or suppressions in neurologic patients with focal electrophysiological lesions, neuropsychiatric patients whose symptoms are presumed to be associated with underlying electrophysiological dysfunction and patients with so-

called "subclinical" EEG abnormalities following closed head injury. Since observations indicate that multiple neuropathological processes impair dichotic listening performance, the DWLT may prove relevant to investigation of brainstem disorders, subcortical lesions, etc.

The DWLT stimuli are common words varying in length from one to three syllables. The test is in two equivalent parts with 10 practice items and 30 test items in each part.

Dichotic Word Listening Test [Cat. #194] Price $121.00
Dichotic Word Listening Test, Spanish Version [Cat. #195] Price $139.50
Dichotic Digits, Duration Pattern Sequence, **Dichotic Word Listening Test**, Masking Level Difference – Tone, NU-6 Low Pass Filtered at 750 Hz, Time Compressed Sentence Test, Random Gap Detection Test, Selective Auditory Attention Test, Competing Sentences [Cat. #CD115] Price $549.00 (See ACAP Battery in Prepressed Compact Discs)

AUDITORY FUSION TEST--REVISED (AFT-R) A Gap Detection Test

Until recently, one aspect of temporal (central) processing, gap detection (temporal resolution), has been generally ignored. The Auditory Fusion Test--Revised (AFT-R) was produced in response to the ASHA task force position statement on central auditory processing to fill this void. AFT-R is an easily administered and efficient test for identifying temporal processing deficits including problems with temporal resolution and gap detection. AFT-R has the distinct advantage of being a non-linguistic measure, making linguistic background irrelevant in interpretation of results.

Normative data are included in the manual.

Auditory Fusion Test – Revised [Cat. #203] Price $137.25

RANDOM GAP DETECTION TEST (RGDT)

The Random Gap Detection Test (RGDT) is a variation on the AFT-R. It differs from the AFT-R: First, in the AFT-R, the stimulus presentations are in serial order from no gap to large gap and back to no gap, often resulting in perseveration in some subjects. Since randomization successfully eliminates the problem of perseveration, the RGDT gap duration presentations of the stimuli are randomized. Second, the number of test frequencies has been reduced to four. Third, Click stimuli have been added.

Random Gap Detection Test [Cat. #207] Price $113.00
Dichotic Digits, Duration Pattern Sequence, Dichotic Word Listening Test, Masking Level Difference – Tone, NU-6 Low Pass Filtered at 750 Hz, Time Compressed Sentence Test**, Random Gap Detection Test**, Selective Auditory Attention Test, Competing Sentences [Cat. #CD115] Price $549.00 (See ACAP Battery in Prepressed Compact Discs)

RANDOM GAP DETECTION TEST-EXPANDED (RGDT-EXP)

There is only one difference between the RGDT and RGDT-EXP.

The Expanded RGDT test is included for individuals whose gap detection threshold exceeds 40 msec. This test begins at time intervals longer than those measured by the standard RGDT, and includes time intervals of 10 msec. between 40 and 100 msec, and 50 msec. intervals between 100 and 300 msec. The test is administered in the same manner as the standard RGDT.

Individuals who require this test to establish a gap detection threshold have already demonstrated abnormal temporal processing abilities. The single purpose is to determine the time interval in which their gap detection thresholds exist. These data can be used to measure improvement in temporal processing abilities following remediation.

By definition, patients with temporal processing disorders will have a wide range of gap detection thresholds. Therefore, there are no normative data associated with this subtest.

Random Gap Detection Test, Expanded Version [Cat. #208] Price $137.25

Duration Pattern Sequence, Pitch Pattern Sequence– Child & Adult, **Random Gap Detection Test – Expanded**, Masking Level Difference - Tone [Cat. #CD117] Price $329.75 (See NCAP Battery in Prepressed Compact Discs)

GAPS IN NOISE (GIN)

The GIN test is designed to measure temporal resolution. Temporal resolution refers to the ability to detect changes either in the duration of an auditory stimulus and/or the time intervals or gaps of silence embedded within an auditory stimulus. The ability to detect small silent intervals is an important factor in speech perception. This GIN test is a valuable test for the evaluation of this ability.

The GIN test is composed of a series or lists of noise bursts which contain various intervals of silence. The recording consists of four forms called lists plus a shorter practice list to ensure the patient understands the task. The silent intervals vary from 0 (i.e. no gap) to 20 msec. The gaps, or periods of silence, are 2, 3, 4, 5, 6, 8, 10, 12, 15 or 20 msec. There are a total of 60 randomized gaps (6 of each gap) in each list (series).

To facilitate accurate scoring the recording is two channels, one being the test track, the other, for the examiner, indicates with a brief tone when the gap occurs in the other (test) track.

Included with the recording is a CDRom with instructions and scoring form templates which the examiner can copy for use.

Gaps In Noise (GIN) [Cat. #215] Price $125.00

MASKING LEVEL DIFFERENCE (MLD) (Release from Masking)

Two variations of masking level difference assessment have been produced.

MLD Speech: This recording employs spondee words imbedded in speech spectrum noise bursts. It is in two sections; section 1 is where both the noise and the spondees are in phase, section 2 is where the noise is in phase and the spondees are 180 degrees out of phase. A release from masking is expected in the latter section.

Masking Level Difference-Speech [Cat. #204] Price $123.25

MLD Tone: Designed and recorded by Richard Wilson, this is a short test in which both hetero- and homo-phasic trials are contained. A release from masking is expected in the heterophasic conditions.

Masking Level Difference-Tones [Cat. #206] Price $81.00

Dichotic Digits, Duration Pattern Sequence, Dichotic Word Listening Test**, Masking Level Difference – Tone**, NU-6 Low Pass Filtered at 750 Hz, Time Compressed Sentence Test, Random Gap Detection Test, Selective Auditory Attention Test, Competing Sentences [Cat. #CD115] Price $549.00 (See ACAP Battery in Prepressed Compact Discs)

FOREIGN LANGUAGE MATERIALS

FRENCH: LISTS FOR SRT AND WORD RECOGNITION

This recording consists of a list of bisyllables for obtaining speech reception threshold (SRT) and four lists of monosyllables for word recognition. A French person from Paris speaks the lists.

French SRT and Word Recognition [Cat. #121] Price $87.50

SPANISH: LISTS FOR SRT AND WORD RECOGNITION

These recordings consist of: 1. Trisyllable words for obtaining speech reception threshold (SRT) and four lists of bisyllables for word recognition. 2. Two lists of monosyllables randomized twice, (for a total of four lists) also for word recognition. Because of the nature of the Spanish language, *the latter list (monosyllables) is not recommended as a test of word recognition*. It is made available for those who believe monosyllables should be employed in word recognition measurements.

Spanish SRT and Word Recognition [Cat. #120] Price $87.50
Spanish Monosyllables [Cat. #151] Price $75.75
Spanish SRT, Monosyllables, Bisyllables, Paired Comparison Sentences [Cat. #CD103] Price $81.00 (A basic Spanish auditory tests CD)

FOUR SPANISH TALKER BABBLE

Four talkers, two females and two males, were recorded separately and then mixed.

Four Spanish Talker Babble [Cat. #212] Price $78.25

SYNTHETIC SENTENCE IDENTIFICATION SPANISH VERSION (SSI-S)

This test is directly analogous to the English version of the SSI. There are 10 sets of 10 synthetic sentences. It is available in either the contralateral competition (SSI-S CCM) or ipsilateral competition (SSI-S ICM) modes.

Spanish Synthetic Sentence Identification with Contralateral Competing Message [Cat. #150] Price $120.00
Spanish Synthetic Sentence Identification with Ipsilateral Competing Message [Cat. #152] Price $120.00
Spanish Synthetic Sentence Identification with Contralateral & Ipsilateral Competing Messages, Staggered Spondaic Word – Spanish, Dichotic Word Listening Test – Spanish, Time Compressed Sentence Test – Spanish [Cat. #CD118] Price $449.75 (See SCAP Battery in Prepressed Compact Discs)

STAGGERED SPONDAIC WORD TEST SPANISH VERSION (SSW-S)

The SSW-S is a central processing test patterned after the Staggered Spondaic Word (SSW) test by Katz. Administration, scoring and interpretation information is included in the extensive manual (in Spanish).

Staggered Spondaic Word - Spanish [Cat. #196] Price $144.00
Spanish Synthetic Sentence Identification with Contralateral & Ipsilateral Competing Messages, **Staggered Spondaic Word – Spanish**, Dichotic Word Listening Test – Spanish, Time Compressed Sentence Test – Spanish [Cat. #CD118] Price $449.75 (See SCAP Battery in Prepressed Compact Discs)
Spanish Dichotic Digits, Spanish Binaural Fusion, Spanish Speech in Noise, Spanish Filtered Speech, **Spanish SSW**, Spanish TCST, Spanish DWLT [Cat. #CD120] Price $595.00 (See Santiago APD Plus in Prepressed Compact Discs)

DICHOTIC WORD LISTENING TEST SPANISH VERSION (DWLT-S)

The Spanish version of the Dichotic Word Listening Test (DWLT) is presently an experimental recording. No normative data. It was designed to be equivalent to the English version of the DWLT.

Dichotic Word Listening Test - Spanish [Cat. #195] Price $139.50
Spanish Synthetic Sentence Identification with Contralateral & Ipsilateral Competing Messages, Staggered Spondaic Word – Spanish **, Dichotic Word Listening Test - Spanish**, Time Compressed Sentence Test – Spanish [Cat. #CD118] Price $449.75 (See SCAP Battery in Prepressed Compact Discs)
Spanish Dichotic Digits, Spanish Binaural Fusion, Spanish Speech in Noise, Spanish Filtered Speech, Spanish SSW, Spanish TCST, **Spanish DWLT** [Cat. #CD120] Price $595.00 (See Santiago APD Plus in Prepressed Compact Discs)

TIME COMPRESSED SENTENCE TEST SPANISH VERSION (TCST-S)

Data on this version are from children who reside in Mexico. It is believed that these data are valid, but we wish to validate them further. Data from Spanish-speaking children in the U.S. are being derived.

Time Compressed Sentence Test - Spanish [Cat. #213] Price $143.25
Spanish Synthetic Sentence Identification with Contralateral & Ipsilateral Competing Messages, Staggered Spondaic Word – Spanish, Dichotic Word Listening Test - Spanish, **Time Compressed Sentence Test – Spanish** [Cat. #CD118] Price $449.75 (See SCAP Battery in Prepressed Compact Discs)
Spanish Dichotic Digits, Spanish Binaural Fusion, Spanish Speech in Noise, Spanish Filtered Speech, Spanish SSW, **Spanish TCST**, Spanish DWLT [Cat. #CD120] Price $595.00 (See Santiago APD Plus in Prepressed Compact Discs)

SANTIAGO AUDITORY PROCESSING DISORDERS (SAPD)

The Santiago Auditory Processing Disorders test battery (SAPD) is a set of four tests that assess (central) auditory processing (AP) in native Spanish-speaking adults. SAPD was developed by Adrian Fuente, Ph.D. of the Audiology Lab School of Speech and Hearing Sciences Medical Faculty, University of Chile. Since auditory processing includes various auditory abilities, different tests should be carried out to assess AP. Some of these tests utilize verbal stimuli while others do not. For those auditory abilities that require verbal material to be assessed, e.g., dichotic listening, auditory performance in competing acoustic signals and auditory performance with degraded acoustic materials, tests with verbal stimuli in the language of the patient must be used. The SAPD battery was created because of this need. The aim of these tests is to assess some of the aspects of AP in Spanish-speaking adult patients suspected to have APD and/or with hearing complaints other than those associated with reduced hearing thresholds.

The Santiago APD comprises the following tests:

1. Speech-in-noise at +10 dB and 0 dB signal-to-noise ratios
2. Binaural fusion
3. Filtered speech
4. Dichotic digits

Each of these tests aims to assess different aspects of central auditory processing.

Speech-in-noise requires recognition of monosyllable in the presence of white noise, according to ASHA (1996) it fits the low redundancy monaural speech category.

Filtered Speech requires recognition of monosyllables that have been low pass filtered, a low redundancy category.

Binaural fusion requires recognition of monosyllables whose low frequency spectrum is presented to one ear and high frequency spectrum simultaneously to the other ear, this test is in the binaural interaction category.

Dichotic digits requires the patient to repeat two pairs of digits which are presented simultaneously to both ears, it is in the dichotic speech category.

While these tests are formed into a single compact disc as a battery, one can purchase single tests. Normative data was derived from a population of native Spanish speaking persons living in Chile. As in any language, there are differences in dialect and one needs to verify these data on the local population.

Spanish Dichotic Digits [Cat. #218] Price $112.00
Spanish Binaural Fusion [Cat. #220] Price $79.00
Spanish Speech in Noise [Cat. #219] Price $103.00
Spanish Filtered Speech [Cat. #221] Price $74.00
Santiago APD Battery [Cat. #217] Price $275.00
Spanish Dichotic Digits, Spanish Binaural Fusion, Spanish Speech in Noise, Spanish Filtered Speech, Spanish SSW, Spanish TCST, Spanish DWLT [Cat. #CD120] Price $595.00 (See Santiago APD Plus in Prepressed Compact Discs)

HEARING AID EVALUATION

SPEECH IN NOISE (SIN)

The Speech in Noise (SIN) test was developed to help determine how much a given hearing aid or pair of hearing aids helps an individual understand speech in a background of noise, compared to listening unaided or with other hearing aids. The test consists of a series of female-talker recordings of the IEEE (modified Harvard) sentences as the target speech, and four-talker babble (three women and one man) as the noise source. Five sentences are recorded at each of four signal-to-noise (S/N) ratios: 15 dB, 10 dB, 5 dB and 0 dB S/N, all at the 0 dB VU meter calibration level, followed by a similar series recorded at a signal level 30 dB lower than the calibration level (-30 dB re 0 VU).

Therefore, there are 20 sentences at each level for a total of 40 sentences (or 4 IEEE lists), all of which constitutes a block. There are nine blocks of the SIN test, so that nine comparisons can be made without repeating sentences.

The SIN is available only on Compact Disc (CD). The entire package is made up of: 1) the recording, 2) instructions, 3) scoring forms, and 4) a CD Rom with a spreadsheet program for data analysis. (Hand analysis is straightforward; the spreadsheet is not required.)

Speech in Noise [Cat. #CD102] Price $50.00

QuickSIN

This is a modification of the SIN and, as the title suggests, is a shorter version of the SIN.

The QuickSIN is the result of several years of research at Etymotic Laboratories. The lists are equivalent and provide a quick and accurate assessment of hearing aid performance. It is available on compact disc only.

QuickSIN [Cat. #CD106] Price $160.00

BKB SIN

This test was developed for children (ages 5 and up), cochlear implant patients, and adults for whom the QuickSIN test is too difficult. The BKB-SIN uses 18 equivalent list pairs for estimating SNR loss. CD 1 (Standard BKB-SIN) has the target talker and background babble recorded on the same channel of the CD, at pre-recorded signal-to-noise ratios. CD 2 (Split Track BKB-SIN) has the target talker and background babble recorded on separate channels of the CD.

Other uses include: demonstrating the benefits of amplification, predicting performance with hearing aids in loud, noisy environments, assessing directional microphone performance, estimating children's performance for soft speech, and screening for auditory processing disorders in children.

The BKB-SIN features Bramford-Kowal-Bench sentences in four talker babble, uses easier sentences than the QuickSIN, and has norms for children, adults, and cochlear implant users. It is available on compact disc only.

BKB SIN [Cat. #CD112] Price $195.00

CONNECTED DISCOURSE (COLD RUNNING SPEECH)

This is a single talker, male or female, reading text in a monotonic voice. The cassette version has both the male and female talkers recorded.

The male talker is reading from "Dissertation on a Roast Pig" by Charles Lamb, the female from "On

Walden Pond" by Henry David Thoreau. Other talkers on different subjects have also been recorded and are available on special order.

Connected Discourse [Cat. #122] Price $59.50
Spondees, Child's Spondees, W-22, NU-6, PBK-50, WIPI – 1st ed., **Connected Discourse**, Paired Comparison Sentences & Multitalker Noise (opposite W-22, NU-6, & PBK-50) [Cat. #CD101R] Price $106.00 (See Basic Auditory Test CD with 1st ed. WIPI in Prepressed Compact Discs)
Spondees, Child's Spondees, W-22, NU-6, PBK-50, WIPI – 2nd ed.**, Connected Discourse,** Paired Comparison Sentences & Multitalker Noise (opposite W-22, NU-6, & PBK-50) [Cat. #CD101RW2] Price $139.75 (See Basic Auditory Test CD with 2nd ed. WIPI in Prepressed Compact Discs)

PAIRED COMPARISON SENTENCES

These are a series of sentences, repeated twice, for use as in a forced choice paradigm, these sentence pairs can be used to determine most and maximum comfort levels during hearing aid evaluation procedures. These sentences are not designed for word recognition measures.

Paired Comparison Sentences [Cat. #188] Price $59.50
Spondees, Child's Spondees, W-22, NU-6, PBK-50, WIPI – 1st ed., Connected Discourse, **Paired Comparison Sentences** & Multitalker Noise (opposite W-22, NU-6, & PBK-50) [Cat. #CD101R] Price $106.00 (See Basic Auditory Test CD with 1st ed. WIPI in Prepressed Compact Discs)
Spondees, Child's Spondees, W-22, NU-6, PBK-50, WIPI – 2nd ed.**,** Connected Discourse**, Paired Comparison Sentences** & Multitalker Noise (opposite W-22, NU-6, & PBK-50) [Cat. #CD101RW2] Price $139.75 (See Basic Auditory Test CD with 2nd ed. WIPI in Prepressed Compact Discs)

TELECOIL EVALUATION PROCEDURE

The Telecoil Evaluation Procedure (TEP) was developed to provide a definitive, valid and reliable method for determining client performance with hearing aid telecoils when coupled to a standard telephone. With this recording, one may make comparative judgments relative to telecoil sensitivity (power) and fidelity.

TEP employs a hierarchical set of stimuli beginning with numbers, progressing through letters and names, and ending with connected discourse. There are five male and five female talker sets. In addition, telephone signals (busy, dial tone, and ringing) are also included in the recording.

Telecoil Evaluation Procedure [Cat. #189] Price $107.00

OTHER, UNCLASSIFIED MATERIALS

RAINBOW PASSAGE

(*Voice and Articulation Drill Book, 2nd Ed*., Grant Fairbanks. Harper & Row, NY)

This passage was spoken by a male talker with a general American accent. The recording is in two sections; one is spoken with normal inflection and the second in a monotone, or "cold running speech." The intensity of normal inflection will vary considerably over time, while the cold running speech will maintain a more constant level. Both variations are on the same recording so the audiologist can select according to the requirements of the situation at hand.

Rainbow Passage [Cat. #214] Price $62.75

TEMPORAL SPEECH STENGER

Recall that the Stenger test is employed to investigate persons who have exhibited questionable unilateral hearing losses. The Temporal Speech Stenger was developed to enhance the effectiveness of a variation of the Stenger test which uses spondee words instead

of pure tones as the stimuli. Spondee words were recorded on both tracks of a two-track tape deck.

The first set of spondees was recorded simultaneously (diotic) while the second was recorded so that the spondees on one track lagged the other track by 2.25 milliseconds (dichotic). The effect is to maintain the intracranial sound image on the lead ear side as the interaural intensities are varied. As a consequence the patient does not perceive the shifting image that normally occurs as interaural intensities approach equality. In other words, the intensity/time of arrival (a special case of phase) trade-off is upset by delaying the onset of the spondee opposite from the claimed deafened ear. Thus a positive result is NO response.

Temporal Speech Stenger [Cat. #131] Price $65.00

TENNESSEE TEST OF RHYTHM AND INTONATION (T-TRIP)

The T-TRIP was developed to reliably investigate persons who exhibit poor rhythm and intonation patterns. Basically, the test looks at the ability to perceive different rhythm and intonation patterns. The recording contains stress, tempo and intonation items. Music symbols are employed to identify the patterns.

T-TRIP [Cat. #192] Price $81.75

HEARING LOSS SIMULATION (HLS)

This recording attempts to demonstrate what a hearing loss might sound like to the hearing impaired. It is in two main parts; part one demonstrates a flat "conductive" loss down to 40 dB in 10 dB steps (40 dB of attenuation), and part two simulates high frequency losses. The latter section employs both male and female talkers in quiet and in noise. The demonstration consists of sharp (48 dB/oct) low-pass filters at 2000, 1000 and 500 Hz, illustrating precipitous high frequency losses. Brief introductions precede each section. Representative audiograms accompany the recording.

Hearing Loss Simulation [Cat. #177] Price $54.00

VIDEOS

OTOSCOPIC INSPECTION OF THE EARCANAL AND TECHNIQUES FOR CERUMEN MANAGEMENT

A video by Roeser, Rolland and Carver, C&R Productions, Producer

This video demonstrates the proper techniques for otoscopy and what to watch for prior to attempting the removal of cerumen. The video employs a video otoscope to show what the view from an otoscope should be like. Correct, safe, and acceptable methods for cerumen removal are shown. Proper irrigation techniques are described and demonstrated. The authors are careful to describe contraindications for cerumen removal.

Otoscopic Inspection of the Earcanal & Techniques for Cerumen Management [Cat. #CR101]
Price $104.50

IT'S YOUR HEARING

By Meesey and Carver, Produced by Hearing Conservation Programs

These four short videos were produced to fulfill OSHA requirements for annual training of workers at risk for noise induced hearing loss. Four were made so that a different video could be shown each year. Each of the four videos covers the three areas of the hearing mechanism, the hearing test, and ear protection. They are, by necessity, similar. It is hoped that they are sufficiently different so that it will not appear too repetitive to the worker.

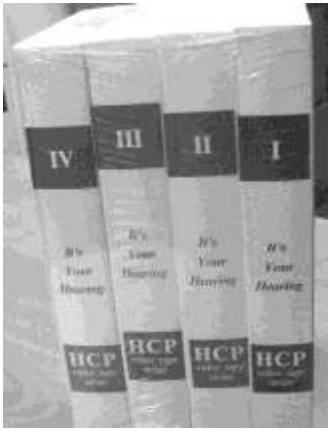
It's Your Hearing [Cat. #HCP1] Price $156.50

IT'S YOUR HEARING SPANISH VERSION

By Meesey and Carver

One video from above with a Spanish language voice over.

It's Your Hearing, Spanish [Cat. #HCP1S]
Price $51.50



NTID SPEECH READING DVD VIDEO

This DVD video with Diane Castle, Ph.D., audiologist and former NTID faculty member as the speaker, has been used as a test of speechreading and auditory recognition at NTID since 1972. There are ten sets of ten sentences each. The purpose of this test is to assess the ability to receive information when:

a) Speechreading alone
b) Speechreading and listening combined.
c) Listening alone.

The sentences are from the CID Everyday Speech sentences developed by Central Institute for the Deaf in concert with thecriteria set forth by the Committee on Hearing and Bio-Acoustics (CHABA) of the National Research Council. These criteria specified that sentences should closely resemble "everyday speech" in such parameters as vocabulary, sentence length,syntactical structure and redundancy

The information gleaned from the use of this movie will help the professional describe functional receptive communication skills and may be used to assist in planning aural rehabilitation. The test DVD may be played back via a DVD player with a remote control, or via a computer employing the DVD media player software.

NTID Speechreading DVD Video [Cat. #NTID 1]
Price $195.00

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