HOW SLP'S CAN BEST SERVE STUDENTS WITH SPECIFIC READING DISORDERS

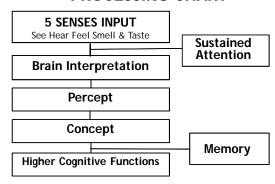
JOYCE S.PICKERING SLP/CCC, AMS/EC, CALT, QI, HUM. D

THE SHELTON WAY

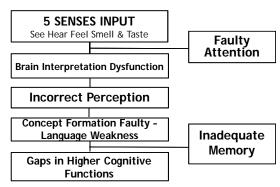


Mapping	the Mind
Frontal Lobe Thinking, planning, creativity; Primary motoriarea; Coordinates other brain functions	Parietal Lobe Bodily sensations Occipital Lobe Interpret visual Images; Evaluation of pieces
Left Hemisphere Processes language skills Temporal Interpret aud	Right Hemisphere Lobe Itory signals Processes spatial information & abstract thoughts

PROCESSING CHART



PROCESSING WITH DYSFUNCTIONS



TRAINING OF THE SPEECH LANGUAGE PATHOLOGISTS (SLP)

SPEECH

- Articulation
- ◆ Apraxia
- ◆ Stuttering

LANGUAGE

Oral(spoken) Language
 Delays/Disorders
 (Receptive/Expressive/ Mixed)

TRAINING OF ACADEMIC LANGUAGE THERAPIST (CALT)	
DISORDERS OF WRITTEN LANGUAGE	
 Dyslexia (Specific Reading Disorder) 	
Reading Decoding	
Spelling Written Expression	
(Composition)	
Reading Comprehension DisordersDysgraphia (Handwriting)	
DEVELOPMENT OF ORAL LANGUAGE	
◆ Birth To 3 Months -	
Crying/Cooing	
◆ 3-6 Months - Babbling	
♦ 6-9 Months - Echolalia	
♦ 9-12 Months - First Word	
DEVELOPMENT OF ORAL LANGUAGE	
SYNTACTIC DEVELOPMENT	
♦ Nouns ♦ Conjunctions	
◆ Verbs◆ Prepositions	
◆ Adverbs◆ Articles	
◆ Pronouns	

DEVELOPMENT OF ORAL LANGUAGE	
◆ 18 Months To 2 Years - Simple Sentences	
♦ 6-7 Years - Has Command Of	
Every Sentence Structure	
DEVELOPMENT OF ORAL LANGUAGE	
Syntax And Grammar - 5-8 YearsVerbal And Non-verbal	
Communication Accomplished By 3 - 8 Years	
 Average Vocabulary By 5 - 2500-5000 Words 	
DEVELOPMENT OF WRITTEN LANGUAGE	
PRE-READING SKILLS	
◆ Speech And Oral Language WNL◆ Auditory And Visual Perception WNL	
◆ Rhyming - 3 Years◆ Deletion Tasks - 4-5 Years	
 Recognition And Naming Letters 3-5 Letter Sounds 3-6 	
◆ Blending Sounds Into Words 3-6	
◆ Beginning Reading 3-6	

SOUND ANALTSIS

SOUND ANALYSIS

PATTING OUT SOUNDS



SOUND SYMBOL CORRESPONDENCE SANDPAPER LETTERS



SOUND SYMBOL CORRESPONDENCE SOUND SYMBOL CORRESPONDENC **MIRROR WORD FAMILIES**

WORD FAMILIES



SEE LESSON



MEMORY BOARD



COMPREHENSION/ORAL LANGUAGE



DEVELOPMENT OF WRITTEN LANGUAGE PRE-WRITING/WRITING

- Gross Motor Coordination(Large Muscles)
- Fine Motor Coordination (Small Muscles Of Hand)
- Grasp And Pincer Tasks
- Pencil Grasp
- Writing Letters
- Writing Words
- Writing Sentences

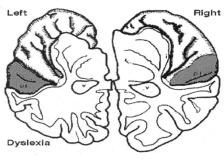
PRE-WRITING/METAL INSETS



NATIONAL INSTITUTES OF HEALTH	
One of several distinct learning	
disabilities; ◆ Specific language-based disorder of	
constitutional origin characterized by single word decoding	
◆ Reflects insufficient phonological	
processing abilitiesDifficulties in single word decoding -	
unexpected in relation to age & other cognitive & academic abilities.	
cognitive a academie abinities.	
DYSLEXIA - NIH DEFINITION	
◆ Not the result of generalized	
developmental disability or sensory impairment	
◆ Manifested by variable difficulty	
with different forms of language, including in addition to problems	
reading, conspicuous problem with	
acquiring proficiency in writing and spelling.	
"While no two brains are alike,	
the brains of people with	
dyslexia are distinctively	
different compared to those	
without dyslexia." Dr. Gordon Sherman	
	-

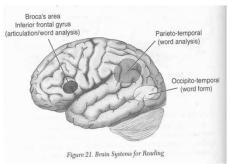
ECTOPIAS	
Estanta	
Ectopia	
Dr. Gordon Sherman	
NEURAL MIGRATION	
NEONAL MIGRATION	
 Occurs before the 6th month of gestation 	
 A genetic code sends the signal to migrate 	
 In non-impaired learning brains the neurons do not reach the first layer of 	
cerebral cortex-the language center of the brain	
Dr. Gordon Sherman	
ADDITIONAL CORTEX DIFFERENCE	
SYMMETRY	
Left	
CASCE DES	
575	

Dr. Gordon Sherman



Dr. Gordon Sherman

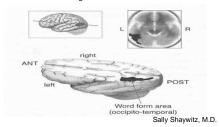
TWO NEURAL PATHWAYS



Sally Shaywitz, M.D.

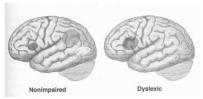
WORD FORM AREA OCCIPITO-TEMPORAL

 $\ensuremath{\, \bullet \,}$ The more skilled the reader, the more they activate this region



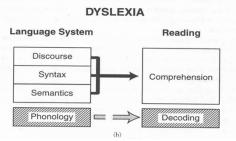
A NEURAL SIGNATURE FOR DYSLEXIA

Under activation of Neural Systems in the Back of the Brain



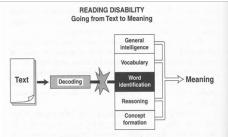
Sally Shaywitz, M.D.

IN DYSLEXIC CHILDREN THERE IS A GLITCH WITHIN THE LANGUAGE SYSTEM



Sally Shaywitz, M.D.

A PHONOLOGICAL WEAKNESS BLOCKS DECODING, WHICH IN TURN INTERFERES WITH WORD IDENTIFICATION.



Sally Shaywitz, M.D.

ATTENTION DEFICIT / HYPERACTIVITY DISORDER (AD/HD)	
◆ ADHD refers to a family of chronic neurobiological disorders that interfere with people's capacity to attend to	
tasks, regulate activity, and inhibit behavior in ways	
appropriate to their age and circumstances.	
F YOU WOULD IDENTIFY CHILDREN	
NHO ARE HIGH RISK FOR ACADEMIC LEARNING TASKS, WITH THE GOAL OF PROVIDING EARLY INTERVENTION,	
EVALUATE:	
◆ Coordination	
◆ Language◆ Attention, and	
◆ Perception	
THERAPY FOR WRITTEN LANGUAGE DISORDERS	
Multisensory Structured Language	
Education is an approach which was developed to instruct or remediate	,
those individuals with dyslexia and related disorders. The original	
therapy was created by Dr. Samuel T. Orton, Anna Gillingham And Bessie	
Stillman in the 1930's.	

THERAPY FOR WRITTEN LANGUAGE DISORDERS MSLE APPROACHES

- ◆ Orton Gillingham
- ◆ Alphabetic Phonics MTA

Take Flight

- ◆ Spalding
- ◆ Slingerland
- ◆ Sequential English Education
- Wilson
- ◆ Dubard Association Method Developed From The Work Of Mildred McGinnis

SAMUEL T. ORTON, M.D. & MARGARET BYRD RAWSON





ORTON GILLINGHAM APPROACH

DR. CHARLES L. SHEDD & JOYCE S PICKERING





APSL / SEE

MAUREEN MARTIN & ETOILLE DU BARD





DU BARD ASSOCIATION METHOD

LUCIUS WAITE & AYLETT ROYALL COX





ALPHABETIC PHONICS

THERAPY FOR WRITTEN LANGUAGE DISORDERS

MSLE CONTENT

- Phonology And Phonological Awareness
- Sound Symbol Correspondence
- Syllables
- Syntax
- Morphology
- Semantics

SYLLABLE TYPES	
 ◆ Closed ◆ Open ◆ Vowel-consonant E ◆ Consonant-le ◆ R Controlled ◆ Dipthong Or Vowel Pair 	
PHONOLOGICAL AWARENESS	
THERAPY FOR WRITTEN LANGUAGE DISORDERS CONT'D	
MSLE PRINCIPLES OF INSTRUCTION ◆ Visual-auditory-kinesthetic/Tactile (VAKT)	
◆ Direct Instruction	
◆ Systematic And Cumulative	
Diagnostic Teaching To AutomaticitySynthetic/Analytic Instruction	

DYSLEXIA	
"The differences are personal; The diagnosis is clinical; The treatment is educational; The understanding is scientific"	
-Rawson/Sauders	
THERAPY FOR WRITTEN LANGUAGE DISORDERS (SEE) HIERARCHY OF WRITTEN LANGUAGE (SIMPLE TO COMPLEX PATTERNS)	
Consonant vowel consonant pattern (CVC) HAT PET BIB COT JUT	
CVC Words with consonant digraph as a beginning sound CHAT CHET CHIP CHOP CHUM CVC Words with consonant blends as a beginning	
BLAB BLED BLIP BLOB BLUB	
THERAPY FOR WRITTEN LANGUAGE DISORDERS (SEE)	
◆ C V C	
◆ C A T	
◆ CH A T	
◆ FL A T	
▼ 1 □	

THERAPY FOR WRITTEN LANGUAGE DISORDERS (SEE)	
DECODING PATTERN FOR CVC WORDS	
Sound By SoundBeginning Sound + Word Family = Word	
THERAPY FOR WRITTEN LANGUAGE DISORDERS (SEE)	
INTRODUCTION OF LONG VOWEL PATTERNS	
◆ CVC + E HAT HATE	
LONG VOWEL COMBINATIONS	
◆ AI EE IE O◆ AY EA IGH OA	
◆ EIGH IE Y◆ EY	
THERAPY FOR WRITTEN LANGUAGE	
DISORDERS (SEE)	
◆ Vowels With L And R - Palm/Arm◆ Diphthongs - Au Aw Ew Oi Oy Ow	
◆ Silent Letters- Comb◆ Homonyms - Made/Maid	
◆ Homographs - Bat (Multiple Meanings)	

THERAPY FOR WRITTEN LANGUAGE DISORDERS (SEE)	
PROCEDURES	
◆ Decoding Words	
◆ Defining	
◆ Spelling	
◆ Reading Sentences	
◆ Paraphrasing Sentences	
◆ Sentence Dictation	
◆ Independent Sentences	
THERAPY FOR WRITTEN LANGUAGE	
DISORDERS (SEE)	
ADDITIONAL CONTENT	
◆ Alphabetizing	
◆ Word Studies	
◆ Outlining	
◆ Writing Paragraphs◆ Essential Information	
◆ Affixes (Prefixes/Suffixes)◆ Use Of Technology	
• use of fectifiology	
OBSERVATIONS FROM EXPERIENCE	
OBSERVATIONS FROM EXPERIENCE	
◆Children referred for articulation are	
exhibiting auditory discrimination	
difficulties which are seen in children with reading disorders	
◆Early intervention - help young	
children discriminate and produce all	
sounds between 4 ½ and 5 ½ (if	
they can't discriminate them in oral	
language it will affect their ability to	
learn to read)	

OBSERVATIONS FROM EXPERIENCE	
◆Children referred for delayed or disordered oral language development are at risk for reading comprehension problems ◆ Early intervention - help young children with direct therapy for oral language development beginning as early as possible and no later than 3	
OBSERVATIONS FROM EXPERIENCE	
Speech language pathologists have the ideal background to help children with reading disorders Speech language pathologists need specific training in multisensory structured language education by an accredited training course (IMSLEC/AOGPE) Speech language therapists should aspire to certification as a Certified Academic Language Therapist (CALT)	
QUOTE BY LYDIA H. SOIFER	
"In depth knowledge of oral language development and language related to learning and reading comes from the discipline of speech-language pathology." The following quote has been taken from: Judith R. Birsh, Ed.D., T 2005, Multisensory Teaching of Basic Language Skills, Paul H. Brookes Publishing Co.	

"An understanding of the many	
aspects of learning and flexibility in skill and strategy development emerges from the study of learning	
disabilities."	
QUOTE BY LYDIA H. SOIFER	
"Reading research and instruction	
provide an intense consideration of all aspects of the enormous task of	
"breaking the code" and then encoding to complete the reading process."	
QUOTE BY LYDIA H. SOIFER	
"Educational theory and practice offer a wide array of	
techniques for encouraging learning."	

QUOTE BY LYDIA H. SOIFER	
"For teachers an awareness and	
integration of this information	
offers the opportunity for	
greater power in teaching."	
REFERENCES	
INTERNATIONAL MULTISENSORY STRUCTURED LANGUAGE EDUCATION COUNCIL(IMSLEC)	
ACREDITATION OF TRAINING COURSES	
INSLEC c/o Shelton School 15720 Hillcrest	
Dallas, TX 75248 972-774-1772 ext. 2227 ncooley@shelton.org	
www.imslec.org	
ACADEMIC LANGUAGE THERAPY ASSOCIATION (ALTA) CERTIFICATION OF INDIVIDUALS FROM AN ACCREDDITED TRAINING COURSE	
ALTA NATIONAL OFFICE 14070 Proton Road, Suite 100, LB 9	
Dallas, Texas 75244 Phone: 972-233-9107 x 208	
www.altaread.org office@altaread.org	
DEFEDENCES	
REFERENCES	
THE INTERNATIONAL DYSLEXIA SOCIETY	
(IDA) SOURCE OF INFORMATION ON DYSLEXIA AND RELATED DISORDERS	
IDA	
40 York Rd., 4th Floor Baltimore, MD 21204 (410) 296-0232 Fax: (410) 321-5069	
(410) 29-04232 Fax: (410) 321-3069 www.interdys.org	

REFERENCES

CHILDREN / ADULTS WITH ATTENTION DEFICIT/HYPERACTIVITY DISORDER (CHADD)

CHADD National Office

8181 Professional Place - Suite 150 Landover, MD 20785 Tel: 301-306-7070 / Fax: 301-306-7090 or call 617-777-5235 www.CHADD.org

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Child And Adult Psychiatrist, Bestselling
Author, Leading Authority In The Field Of ADHD.
www.drhallowell.com//meet-dr-hallowell/
Email: HallowellEvents@drhallowell.com
Or call 617-777-5235



HOW SLP'S CAN BEST SERVE STUDENTS WITH SPECIFIC READING DISORDERS

 $\begin{tabular}{ll} \textbf{Joyce S. Pickering} \\ \textbf{SLP/CCC,AMS/EC/CALT,QI, HUM.D} \end{tabular}$ Executive Director Emerita Shelton School & Evaluation Center 15720 Hillcrest, Dallas, TX 75248 www.shelton.org jpickering@shelton.org 972/774-1772 ext 2225