Allied Health Media SpeechPathology.com **Stuttering Treatment: Treating** the Whole Disorder J. Scott Yaruss, Ph.D., CCC-SLP, ASHA Fellow Presenter: Craig E. Coleman, M.A., CCC-SLP, BCS-F Moderated by: Amy Hansen, M.A., CCC-SLP, Managing Editor, SpeechPathology.com Allied Health Media SpeechPathology.com SpeechPathology.com Expert eSeminar **Need assistance or technical** support during event? Please contact SpeechPathology.com at 800-242-5183 Allied Health Media SpeechPathology.com **Earning CEUs** >Log in to your account and go to **Pending Courses under the CEU** Courses tab. >Must pass 10-question multiplechoice exam with a score of 80% or higher >Two opportunities to pass the exam

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Stuttering: Evaluating and Treating the Whole Disorder

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SpeechPathology.com Webinar

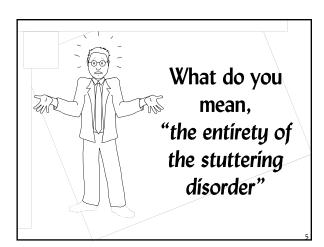
Learning Objectives

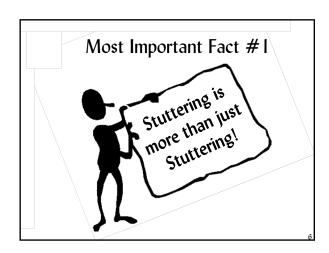
- After this course, participants will be able to:
 - Describe the World Health Organizations International Classification of Functioning, Disability, and Health (ICF).
 - List 4 ways in which the ICF relates to stuttering.
 - Describe 3 strategies for assessing impairment, reactions, and impact.
 - Describe 3 strategies for treating impairment, reactions, and impact.
 - Identify treatment goals for children who stutter.
 - Describe at least three treatment approaches for young children who stutter.

■ Financial ■ Overall Assessment of the Speaker's Experience of Stuttering (OASES), Pearson Assessments. (Royalties) ■ School-Age Stuttering Therapy: A Practical Guide and the Minimizing Bullying program, Stuttering Therapy Resources, Inc. (Royalties/Ownership) ■ Non-financial ■ Advisory Board, StutterTalk, SpeechPathology.com National Stuttering Association (USA)

Purpose

To consider how speech-language pathologists can understand the entirety of the stuttering disorder from the perspective of people who stutter







What Is Stuttering?

■ A speech **behavior**

- A speech disfluency is <u>any</u> interruption in the forward flow of speech.
- A stuttered disfluency is a disfluency in which the speaker experiences a feeling of "loss of control" (e.g., Perkins, 1990)

■ A communication <u>disorder</u>

A life experience, in which a person has difficulty doing the things he wants to do because of his speaking difficulties.

The Stuttering **Behavior**

- Certain <u>types</u> of speech disfluencies typically accompany the feeling of "loss of control"
 - Part-word repetitions

"li-li-like this"

■ Prolongations

"Illlike this"

■ Blocks

"l----ike this"

- These are different from normal disfluencies (pauses, revisions, phrase repetitions, interjections)
- All people produce disfluencies, but people who stutter are more likely to produce these "stuttered" (or "stutter-like") disfluencies

What does the stuttering disorder feel like?

Listen to the clients...

"Stuttering..."

- "Stuttering makes me sad." "I stutter cause I'm dumb."
- "Stuttering is a monster that chases me wherever I go..."
- "It's the reason I don't have any friends at school."
- "It means I can't do what I want to do when I grow up."
- "It is trying to ruin my life!" "I'm not like other people."
- "It must have happened because I did something bad."
- "It is something that is wrong with me."
- "It keeps me from saying what I want to say"
- "I'm never going to be able to get a job."
- "It's why nobody likes me." "I hate stuttering...

...

The stuttering *disorder* involves more than just the stuttering *behavior*.

"Stuttering is more than just stuttering."

What are we supposed to do with people who stutter?

Are we supposed to treat the stuttering behavior or the stuttering disorder?

That's a GREAT question!

People have been arguing about it for years!

To find an answer, let's look at the ASHA scope of practice...

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The ASHA Scope of Practice

"Speech-language pathologists work to improve quality of life by reducing impairments in body functions and structures, activity limitations, participation restrictions, and barriers created by contextual factors..."

-- ASHA (2007) Scope of Practice for Speech-Language Pathologists

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What's all that?!?

-Quality of Life
-Impairments in Body Functions and Structures
- Activity Limitations
- Participation Restrictions

- Environmental Barriers

(Where's "speech fluency" or "stuttering" in that list?!?)

It all comes from the WHO Framework

What Framework?WHO Framework!



- International Classification of Functioning, Disability, and Health (ICF)
 - World Health Organization (WHO, 2001)
- Designed to describe <u>all</u> aspects of human health experience, not just communication
 - The ICF includes components for describing not only what can go wrong with you, but what that means for your life as a whole.

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Key ICF Concepts – I

- **Body Function** and **Body Structure**: All of the structures and functions of the human body
 - <u>Impairment:</u> Something that goes wrong with a person's body function or body structure
- **Activities** and **Participation**: All of the things people might want to do in their lives
 - Activity <u>Limitations</u> / Participation <u>Restrictions</u>: The difficulties people might have in doing those things (impact on the person's *quality* of life)

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Key ICF Concepts – II

- **Contextual Factors:** Other factors that affect how the person experiences the problem:
 - <u>Personal</u> Factors: The person's coping styles, history and background, behavior patterns, etc.
 - Often, these are referred to as the person's **affective**, **behavioral**, and **cognitive** reactions.
 - Environmental Factors: The way those in the person's environment responds to the problem
 - These responses can be supportive or they can pose a **barrier** that increases limitations and restrictions.

The ICF for Stuttering



- A person who stutters has an:
 - Impairment in body function: a problem with the production of fluent speech
- Recent research shows that people who stutter also exhibit neurological differences.
- Thus, they may also have an:
 - Impairment in body structure, which may ultimately be associated with the underlying neurological cause of the disorder

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The ICF for Stuttering



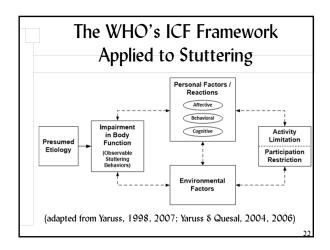
- He may also experience negative **personal** and **environmental** reactions ("contextual factors"):
 - Personal Reactions:
 - Affective Reactions: Feelings of frustration, depression, embarrassment, hopelessness, and especially shame
 - Behavioral Reactions: Actions such as avoidance, tension, circumlocution, struggle, starter words
 - Cognitive Reactions: Thoughts indicating low self-worth, self-confidence, self-efficacy, self-esteem
 - Environmental Reactions:
 - bullying, discrimination by teachers or employers, exclusion from social groups, pressure from parents and others

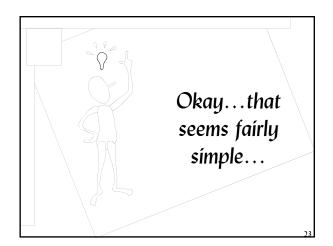
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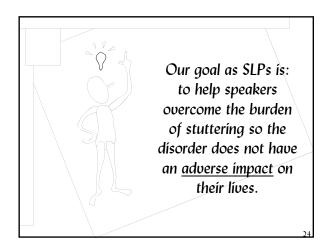
The ICF for Stuttering



- These contextual factors can lead to:
 - Activity Limitations:
 - difficulty communicating with others (e.g., using the phone, talking to friends, socializing)
 - difficulty performing school- or work-related tasks (e.g., asking/answering questions, giving book reports)
 - Participation Restrictions:
 - difficulty achieving educational, social, vocational objectives (e.g., succeeding in school or at work)
 - Note: These are the aspects of a child's life that IDEA says we are supposed to address and, increasingly, third-party payers emphasize functional changes in determining treatment success







Evaluating the Entire Disorder

- Since stuttering is so broad-based, we must assess several levels during an evaluation
 - <u>Etiology:</u> Speech/language development, oral-motor development, and temperament
 - Impairment: Observable characteristics of speech
 - **Reactions:** Affective, Behavioral, Cognitive
 - Environmental Reactions: Communication model / Reactions of those in the speaker's environment
 - <u>Activity Limitation / Participation Restriction:</u> Impact of stuttering on speaker's life

Observable Characteristics

- Common measures include **frequency** of disfluencies, type of disfluency, and severity
- Stuttering behaviors are highly variable
 - People may not stutter at all in some situations, so we must collect speech samples in multiple situations



- What you see is not always what you get
 - As stuttering progresses, observable characteristics tell us less and less about the speaker's experience of the disorder

Measuring Reactions



- Numerous tools have been presented over the years aimed at examining the speaker's "Communication Attitudes"
 - **S-Scale** (Erikson, 1969) **S-24** (Andrews & Cutler, 1974)
 - ICA (Watson, 1988)
- **PSI** (Woolf, 1967)
- \$\$\$ (Lanyon, 1969)
- SSC (Brutten & Shoemaker, 1974)
- **SPP** (Silverman, 1980)
- SESAS (Ornstein & Manning, 1985)
- With a few notable exceptions (e.g., Boberg & Kully, 1994), these instruments have not been widely used in treatment outcomes research (or, it seems, in daily clinical practice)

Measuring The Rest of the Stuttering Disorder ---



- Fewer instruments have focused on the role of the environment or the negative impact of stuttering on the speaker's life
 - WASSP (Wright & Ayer, 2000) Crowe's Protocols (et al., 2000)
 - (I personally would like to see greater use of these instruments!)
- Many attitudes scales examine environmental factors by considering different situations
 - This has led to criticism (Ulliana & Ingham, 1984) that "attitudes" inventories simply reflect the speaker's fluency in different speaking situations

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Overall Assessment of the Speaker's Experience of Stuttering (OASES)

(Yaruss and colleagues, 2006, 2008, 2010)

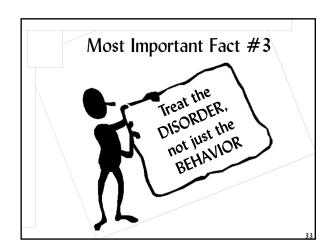
- Three instruments for assessing the overall impact of stuttering from the speaker's perspective
 - General Information about Stuttering
 - \blacksquare Affective, Behavioral, and Cognitive Reactions
 - <u>Communication</u> in Daily Situations
 - Impact of Stuttering on Overall Quality of Life
- OASES-A was published in 2008 by Pearson
- OASES for School-age children (age 7-12) and Teens (age 13-17) published in November, 2010

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The ICF Supports Comprehensive ASSESSMENT of Stuttering Personal Factors / Reactions Activity Limitation Participation Restriction Environmental Factors (adapted from Yaruss, 1998, 2007; Yaruss & Quesal, 2004, 2006)







Treating the Entire Disorder



- Addressing Impairment
 - Change speech production to improve fluency
- Addressing the **Speaker's ABC Reactions**
 - Improve speech attitudes, acceptance of stuttering
 - Reduce avoidance, tension, struggle, etc.
- Addressing the Negative Consequences
 (Activity Limitation / Participation Restriction)
 - Focus on communication skills, not just fluency
- Addressing Environmental Reactions
 - Educate others about stuttering to foster acceptance
 - Help speakers learn how to handle other people's reactions

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Addressing Impairment I:

Improving Fluency / Reducing Stuttering

■ Many techniques for improving fluency have been discussed. Fortunately, most of them focus on changing **timing** or **tension**.



Timing

Tension

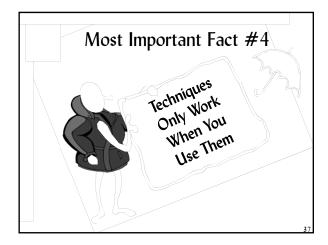


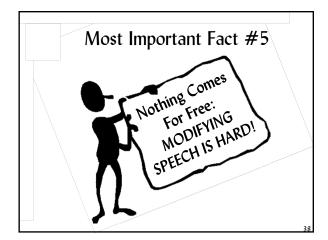
Reducing Speaking Rate Pausing and Phrasing Reducing PACE Easy Starts Light Contact
Easy Starts / "Easing In"
Pull-out / "Easing Out"
Cancellation

Changes to **Timing** and **Tension**

- One of the most common techniques for improving fluency is reducing speaking rate
- Speakers can also increase pause time between words and phrases
- Light contact can minimize physical tension in the articulators
- Easy Starts combine changes to both timing and tension

Turtle X-ing







Addressing Impairment II: Modifying Stuttering Behaviors

- With fluency-enhancing techniques such as easy starts, people *do* become more fluent (particularly in the therapy room).
 - However, no fluency technique is perfect...even successful clients will still stutter sometimes
- To improve communication further, we also need to help people *stutter* more *easily*
 - Modifying tension during stuttering
 - Reducing the causes of tension and struggle

Addressing ABC Reactions

- Strategies such as **education**, **increasing awareness**, **desensitization**, and **cognitive restructuring** (e.g., Murphy et al., 2007) can help speakers reduce their negative reactions
- Self-help can also play a key role in helping speakers overcome their negative feelings and thoughts about themselves and about their speech (e.g. Yaruss et al., 2007)
 - Connect <u>all</u> of the children, families, and adults on your caseload with self-help or stuttering support groups



Is It REALLY Okay To Talk About Stuttering ?!?

- YES! Talking about stuttering (in a supportive way) will not make stuttering worse
 - One approach to treatment even encourage parents to point out a child's disfluencies and ask them to say the words again without "bumps"
- It's even okay to say the "S" word
 - "Always use the proper name for things. Fear of a name increases fear of the thing itself."

— Albus Dumbledore

Addressing the Negative Impact of Stuttering

Activity Limitation Participation Restriction

- By reducing the speaker's impairment and ABC reactions, we reduce the likelihood that he will experience negative consequences
- To reduce educational, social, and vocational impact directly, we focus on *generalization* of treatment gains into real-world settings
- Speaker needs to be able to do every technique in every setting he faces on a typical day

Addressing the Environment

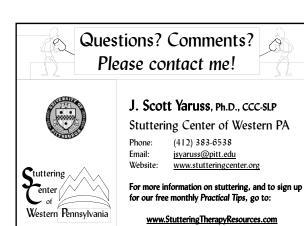


- People who stutter face an environment that does not understand the disorder
 - **Peers** may bully children about stuttering because it stands out and it looks different
 - **Teachers** may be afraid to draw attention to the child, yet they don't know how to help
 - **Parents** simply want a child to "stop stuttering" —they believe this should be possible because "he's fluent sometimes"
 - Other people "just don't get it..."

Education Is the Key

- Helping people learn how to educate others about stuttering gives them the tools they need to improve other people's reactions
 - Bringing stuttering out into the open / not trying to hide stuttering or pretending to be a fluent speaker
 - Explaining what stuttering is and is not especially that it is not a psychological or mental disorder
 - Talking to people about stuttering and responding appropriately to bullying
 - Self-disclosure / advertising, pseudostuttering

By setting goals for treating the whole disorder, you can help speakers overcome the burden of stuttering Personal Factors / Reactions Affective Behavioral Impairment in Body Function Etiology Participation Restriction Environmental Factors



Goal Writing in Stuttering Treatment

Craig E. Coleman, M.A., CCC-SLP, BCS-F Assistant Professor, Marshall University

Putting it all together: Goals & Report Writing

- ← Goals should address all aspects of the disorder, not just the number of disfluencies
- ${\it c}{\it s}$ Goals should be geared toward increasing the overall communication skills of the person who stutters
 - ☑ Is it better to speak freely and stutter or avoid situations/words that may be problematic?
- $\ensuremath{\bowtie}$ Target the "quantity" AND "quality" of stuttering $\ensuremath{\bowtie}$ Goals should be individualized

Goals to Address Education

- c₃ Children need to be educated about stuttering (Empowerment)
- pprox Education helps the child deal with stuttering long-term rather than getting a "quick fix"
- № Helps the child teach others, such as their peers, about stuttering

Sample Goals-Education

- OB
- Johnny will increase his knowledge about stuttering by passing 3 quizzes on basic stuttering facts.
- ${\it c}$ ${\it c}$ Johnny will educate 2 friends about his stuttering treatment techniques.
- Gal Johnny will give a presentation to his family members, peers, or teachers on stuttering.
- □ Johnny will be able to identify and explain the process of producing speech and the anatomical structures involved in this process through use of drawings and other illustrations.

Quality and Quantity of Stuttering

- ™ Stuttering Modification: changing the way on stutters
 - ঙ্গে Easy Stuttering
 - ∞ Pull outs
 - ഗ്ദ Cancellations
- ⇔ Speech Modification ("Fluency Shaping"): changing the way one talks
 - cs Easy onsets
 - A Pausing and Phrasing
- ✍ Important to note that "quantity" and "quality" are not exclusive goals-one often ties in with the other

Quality and Quantity of Stuttering

- On't place too many of your eggs in this basket—it can be the most variable target
- RELAPSE is not really a word
- ∝ Toolbox

_		

Goals to Address "Quality" of Stuttering Goals to Address "Quality" of Stuttering These goals should target decreased physical tension during stuttering Kids can learn that they sometimes can't control "if"	
they stutter, but they can control "how" they stutter Ga Goals here should also target reduction of secondary behaviors Ga These are often stuttering modification techniques	
	1
Reduced Tension / Secondary Behaviors CS Tension and secondary behaviors are a learned reaction. They often result from negative reactions toward stuttering CS Desensitization CS Stuttering Modification CS Regaining control	
Sample Goals-Quality of Stuttering Goals-Quality of Stuttering Solonny will demonstrate the ability to reduce physical tension during stuttering using the "easing out" technique, for 50% of disfluencies during various tasks. Solonny will use cancellation and pull-out techniques for 75% of disfluencies in a structured conversational task. Solonny will be able to correctly identify location of physical tension during 80% of stuttering episodes in a structured task. Solonny will decrease the use of any secondary behaviors associated with his stuttering to less than 10% of disfluencies.	

Goals to Address "Quantity"	of
Stuttering	

(%

☼ These goals are speech modification techniques
 ☼ They target reduction of the number of disfluencies
 ఢ Goals should be viewed in terms of reduction, not how often children can speak fluently

Sample Goals Quantity of Stuttering

- Solution is 30 shows a substrate the ability to reduce the number of disfluencies in his speech by using easy starts 85% of the time in a structured conversation.
- Qiohnny will decrease the number of disfluencies in a structured conversational task by 15%.
- Golden is a substant of disfluencies in his speech by reducing rate of communication by 20%.

Goals for Targeting Overall Communication

OB

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Sample Goals Overall Communication

- Salahany will demonstrate desensitization to stuttering by using 5 pseudostutters during a conversation in the classroom.
- ☐ Johnny will increase participation in educational and social situations, as noted on a weekly basis by his parents and teachers.
- ca Johnny will use correct posture and eye contact 85% of the time in conversational speech with the clinician.