



# Agentic Behavior

"Agency is thought of as the ability to live life and achieve a voice in a literal as well as a metaphorical sense; or you could think of it as having a lifestyle where the person can act for themselves and speak on their own behalf." (p. 301)

Monk, G., Winslade, J., Crocket, K, & Epston, D. (1997). *Narrative therapy in practice*. San Francisco, CA: Jossey-Bass Publishers.

Drewery, W., Winslade, J., Monk, G. (2000) Resisting the dominating story: Toward a deeper understanding of narrative therapy. In R. Neimeyer & J. D. Raskin (Eds.). *Constructions of Disorder.*Washington, D.C.: American Psychological Association.

"Health, in our view, has much to do with the capacity for agency and less to do with the absence of disease." (p. 256)

#### **Evidenced Based Treatment**

Parachutes reduce the risk of injury after gravitational challenge, but their effectiveness has not been proved with randomized controlled trials (Smith & Pell, 2003)



#### Evidenced Based Practice and the Medical Model

Sackett, D. L., Strauss, S. E., Richardson, W. S., Rosenberg, W., & Hayes, R. B. (2000) *Evidenced-based medicine*. Edinburgh: Churchill-Livingston.

- "...the conscientious, explicit, and judicious use of current best evidence in making decisions about the care of individual patients...
- "... the integration of best research evidence with clinical experience and patient values."

#### The medical model

... implies that there are *specific therapeutic* ingredients necessary for the remediation of a disorder; thus manuals are developed in order to specify clinician adherence to the ingredients.

The gold standard: RCTs

#### Ethical issues & other problems\*

- · Withholding treatment from controls
- Learning from previous treatment(s)
- · Compelling but superficial evidence
- · Support for "brands"

\*See Ratner, N. (2005). Evidenced-based practice in stuttering: Some questions to consider. *J. Fluency Disorders*, 30(1), 163-188.

### Other Problems



- Tyrannized by evidence (Sackett et al, 2000)
- Evidenced Based Practice as a club 🐞
- Ratner (2005) our real choice is not between . . .
- · some efficacious treatments are not acceptable
  - intention-to-treat
  - non-compliance
- currently without substantial evidence  $\neq$  without substantial value

Westen and Morrison (2001). Journal of Counseling and Clinical Psychology, 69, 875-899

- "To infer that one treatment is more efficacious than another because one has been subjected to empirical scrutiny using a particular set of procedures and the other... has not is a logical error." (p. 878)
- [There is] a need to distinguish the notion of empirically <u>unvalidated</u> from empirically <u>invalidated</u> treatments
- Limits development and application of new approaches

# Beyond efficacy data indicating that a treatment works . . .

we need to know why it works so . . .

we can understand the cause-and-effect relationships that are operating and adjust a protocol for individuals and circumstances, especially when things don't work

# Following Psychology



Bruce Wampold (2001) and the Common Factors Model



- Consistent findings of uniform efficacy across treatments provide indirect evidence that specific ingredients associated with treatment approaches are not responsible for treatment benefits
- > Indications that manuals decreased treatment effect

#### Wampold's Findings (2001, p. 205) Effects for Treatment Aspects

Descriptor	Proportion of Variance	Effect Size
Tx vs. Control (absolute efficacy)	13%	0.80
Tx A vs. Tx B (relative efficacy)	0 - 1%	0.20
Tx Ingredients	0%	0.00
Placebo (common factor)	4%	0.40

#### Wampold's Findings (2001, p. 205) Effects for Treatment Aspects

Descriptor	Proportion of Variance	Effect Size
Therapeutic allian (common factor)	ce 5%	0.45
Clinician Allegiance (common factor)	e 10%	0.65
Clinician competen	ice 6 – 9%	0.50 - 0.60
Proportion of variabi	ility due to the clinicia	n ranges up to 70%

Miller, S. D., Duncan, B. L., & Hubble, M.A. (1997) Escape from Babel: Toward a Unifying Language for Psychotherapy Practice. W. W. Norton & Company, New York & London

. based on 40 years of empirical and clinical research that facilitate positive change in clients regardless of the therapeutic approach.

#### Factors accounting for positive Tx outcomes:

Extra-therapeutic events: 40% Client-therapist alliance: 30% Placebo effects: 15% Method or technique: 15%

#### Wampold & colleagues concluded . . .

A Contextual (or Common Factors) Model does a better job of explaining therapeutic change than the Medical Model.

Predicted by:

Rosenzweig, S. (1936), Smith and Glass (1977)

Beginning to find similar results in SLP

The equivalency of both validated and empiricallyinformed treatments in fluency disorders



Huinck, W. J. & Peters, H. F. M. (2004). Effect of speech therapy on stuttering: Evaluating three therapy programs. Paper presented to the IALP Congress, Brisbane.

Franken, M. C., Van der Schalk, C. J., & Boelens, H. (2005). Experimental treatment of early stuttering: A preliminary study, *Journal of Fluency Disorders*, 30, 189–199.

Herder, C. Howard, C., Nye, C., & Vanyckeghem, M. (2006). Effectiveness of behavioral stuttering treatment: A systematic review and meta-analysis. Contemporary Issues in Communication Science and Disorders, 33, 61-73.

#### For Example

Herder, C. Howard, C., Nye, C., & Vanyckeghem, M. (2006) Meta-analysis of 11 treatment studies

Descriptor	Proportion of Variance	Effect Size
Tx vs. Control (absolute efficacy)	13%	0.91
Tx A vs. Tx B	0 - 1%	0.21

Concluded that the critical elements of successful therapy were most likely *common factors* observed across treatment approaches or factors related to the clinician delivering the treatment.

#### Similar findings in other areas

- Gillam, RG., Loeb, D F., Hoffman, L M., Bohman, T., Champlin, C A., Thibodeau, L., Widen, J., Brandel, J., & Friel-Patti, S. (2008). The efficacy of Fast Forward language intervention in school-age children with language impairment: A randomized controlled trial. *Journal of Speech, Language, and Hearing* Research. 51, 97-119.
- Law, J., Garrett, Z., & Nye, C. (2004). The efficacy of treatment for children with developmental speech and language delay/disorder, *Journal of Speech, Language, and Hearing Research.* 47, 924-943.
- Robey, R., (1998). A meta-analysis of clinical outcomes in the treatment of aphasia. *Journal of Speech, Language, and Hearing Research*, 41, 172-187.

Developing Expertise

Berliner, D. C., (1994). Expertise -The wonder of exemplary performances, In
J. N. Mangleri,& C. C. Block, (Eds.) *Creating powerful thinking in teachers and students*. Fort Worth, TX: Holt, Rinehart & Winston.

- Novice
- · Advanced Beginner
- Competent
- Proficient
- Expert
  - Characteristics
  - Requirements

#### The Novice

- · Tends to act deliberately; focus on context free rules (e.g., driving)
- · relatively inflexible
- · pays attention to protocol & rules
- · labeling & attaching terms to activities

[Characteristic of: students and first year professionals]

# Advanced Beginner

- like the novice, tend to set up barriers to keep authority in their own hands.
- although they now know the rules they are unsure what to do/not to do during unusual circumstances (driving on ice, fog)
- · begin to learn when to ignore or break rules

### Competency

- · have motivation & additional experience
- · make own choices, setting priorities & strategies
- · takes responsibility for outcome (their plan)
- learn what to attend to (or not)
- · develop a sense of timing

## **Proficiency**

- develop an intuitive sense of situation; able to make micro adjustments (riding a bike)
- · take a holistic approach; see patterns others don't
- · able to predict events with greater precision

[Characteristic of 5+ year professionals]

#### To Achieve expert performance

- Focus and excel in specific domain(s)
- great dedication and persistence
- - 10-20k hours for chess players
  - · 10-15k hours of teaching
  - read 100,000 X rays)

#### Characteristics of Experts

- · perform appropriately and effortlessly
- · become one with the activity driving, flying, speaking
- · appear to be non-analytic and non-deliberative
  - (e.g., martial artist, fluent speaker)
  - deliberate calculation is not necessary
  - not easily described as deductive or analytic behavior

Wayne Gretsky



#### **Expert Instructors** (& Clinicians)

- able to transfer their ability to new and changing situations
- · willing to change strategy when appropriate
- flexible in approach, not likely to follow a manual
  - opportunistic about ways to connect and change (rather than following pre-planned approach)
  - consider alternative responses, follow the lead of the learner
- become integrated individual; focus moves from self to the other person; unusually sensitive to the affective concerns of the learner.

#### Decision Making with Rules & **Principles**

**Rules** - specific prescriptions for regulating or evaluating:

- formalized, consistently applied, often quantitative
- follows a prescribed or programmed approach & specific techniques
- · work best when the activity is
  - · simple, context free
  - · results in "gaming" the rules

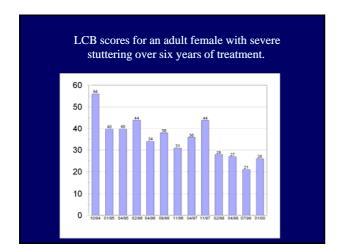
## **Principles**

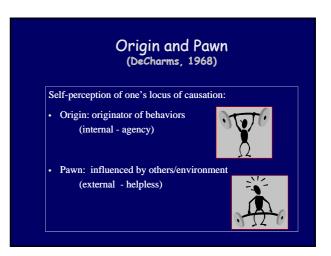
... Are less specific and clear cut

- Emphasize expert discretion, intuition, personal knowledge
- Qualitative and contextual
- Allows choice of several approaches and associated techniques
- Work best when the activity is complex, dynamic, contextual



# Locus of causality No Who is in charge ... me or the stuttering? Self-reporting by the speaker How to determine? Locus of Control - 17 item scale (Craig, et al. 1984) \* a single dimensional trait construct Pawns & Origin Scaling \* a two dimensional state construct





# Origin and Pawn Scaling A psychological state is reflected in a language that a person uses Less restrictive than the LCB scale (a limited set of 17 specific, clinician-provided responses) Individual verbal or written responses by the speaker to an open-ended question Thus: more sensitive and valid than the LCB? Westbrook, M. T., & Viney, L. L. (1980). Scales measuring people's perception of themselves as origins and powns, Journal of Personality Assessment, 44, 167-174.



# Origin and Pawn

(DeCharms, 1968)

- · Self-perception of one's locus of causation
- Origin: originator of behaviors (internal — agency)
- Pawn: influenced by others/environment (external — helpless)

#### Examples of Pawn Statements (P)

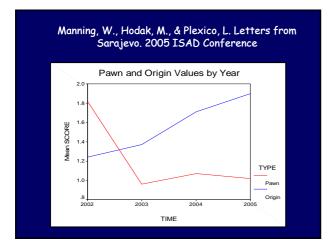
...but sometimes it looks like progress is coming too slow and that demoralize me totally from time to time. (P) I am 22 years old now, and I don't know how much time I have left for overcoming stuttering in order to achieve normal life. (P) I feel like I'm spending best years of my life in the "mud", (P) not using all the available opportunities out there. (P) Despite the fact that I understand stuttering better now, some emerging fears are making progress difficult: (P) If I don't succeed in time I don't know how my life is gonna turn out. (P)

#### Examples of Origin Statements (O)

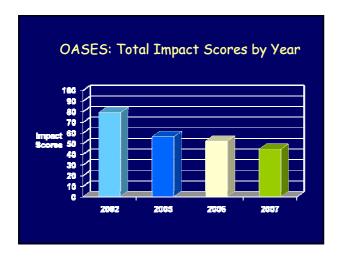
But I am trying to enter them (stuttering blocks) without avoiding and using tricks. (O) But I am gaining more and more self-confidence, (O) and I think it is the most important thing in all this. Also I feel much more freedom (O) as I am accepting my stuttering (O) and decreasing emotional attachment and sensibility to it. I am now in position to feel and to see the full potential of the struggle free life (O) that I can achieve (O) if I put enough effort in this process of change. (O) Generally speaking I am now focusing more on reducing fear and emotional tension, (O) on improving the quality of my life, (O) than on techniques for improving fluency.

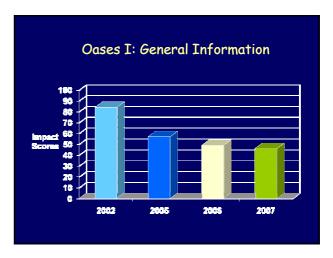
#### Examples of Origin Statements (O)

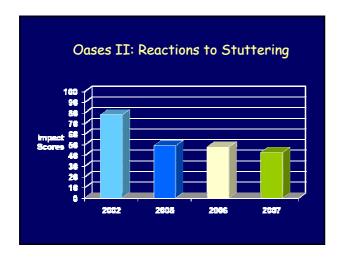
I think it will be much easier to use those techniques (O) when I substantially improve my self-confidence and psychological health or life quality in general. I already achieved that in some extent (O) through facing feared situations, voluntary stuttering and changing negative attitudes, (O) but there is still a lot to be done in the coming weeks, months and years. (O) Also I am trying to increase physical activities (O) and to engage in some sport, (O) because I noticed such activities are contributing significantly to increasing my self-confidence. (O)

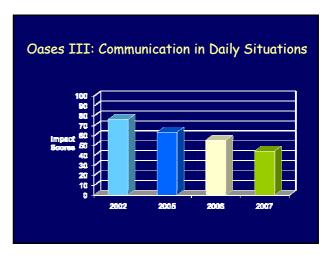


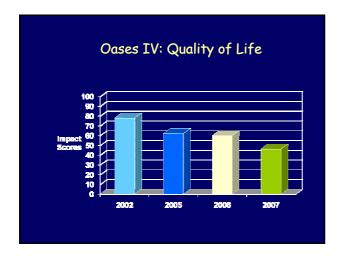


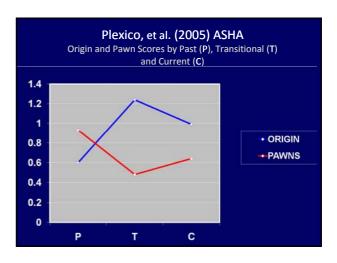












# Origin and Pawn Scaling for Adults who Stutter:

Documenting Changes in Self-Perception
During Treatment

Kyungjae Lee, Ph.D. Oklahoma State University

#### Goals of the investigation

- · Achieve better reliability from previous studies
  - · Refine guidelines for scoring
- Determine patterns of Origin and Pawn scores as a result of treatment
- Determine concurrent validity with other measures of therapeutic change
- Determine the relationship between Origin & Pawn scores & the LCB

#### **Participants**

- · 20 adult native speakers of English who stutter
  - X age: 26 yrs old
  - 15 males, 5 females
- 3-week intensive stuttering treatment provided by the American Institute for Stuttering in NYC

#### Pre- and post-treatment Measures

#### Overt Features

%SS (average of interview and reading)

#### **Covert Features**

Origin and Pawn Scales

LCB (Craig et al., 1984)

PSI - A, E & S (Woolf, 1967)

OASES (Yaruss & Quesal, 2008)

# Training: a clause is categorized as Origin if it expresses . . .

#### Intention

"I intended to speak slowly."

#### Exertion or trying

"I tried to focus on breathing."

#### Ability

"I was able to maintain slow speech."

#### Overcoming influence from others or environment

"I have become more open about my stuttering."

#### Self-perception as a cause or Origin

"I own my voice and speech."

# Training, a clause is categorized as Pawn if it expresses . . .

#### Lack of Intention

"I was surprised that I stuttered to her."

Lack of Exertion or trying (unintended outcomes)

"I happened to speak fluently."

#### Lack of Ability

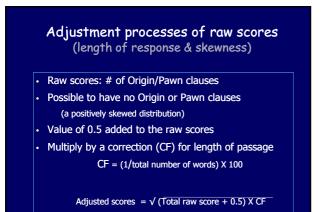
"I was unable to say what I wanted to say."

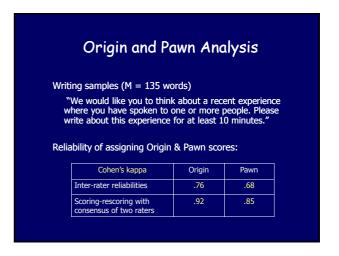
#### Being influenced by others or environment

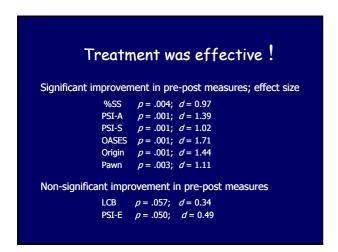
"Familiarity with friends made me fluent."

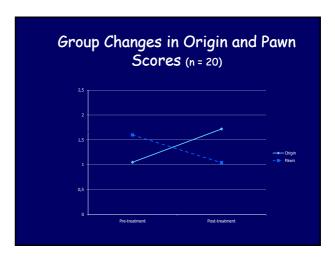
#### Self-perception as a Pawn

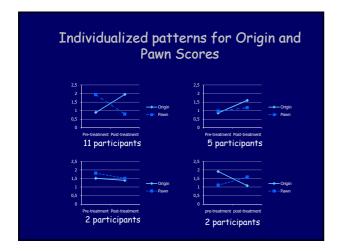
"I'm never completely sure when I'm going to get stuck."

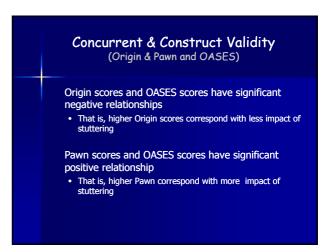












## Concurrent & Construct Validity

(PSI and %SS)

A significant positive relationship between Pretreatment Pawn scores and PSI-Avoidance (r = .52)

That is, higher Pawn scores correspond to greater avoidance

A significant positive relationship between *decreases* in disfluency (%SS) and lower post-treatment Pawn scores (r = .45)

A significant positive relationship between pretreatment disfluency (%SS) and <code>increases</code> in the Origin scores (r=.47) (Sig. increase in fluency post Tx)

#### Origin and Pawn & LCB Scale

Origin & Pawn Scaling may be more sensitive than the LCB

Using a threshold of 5% as an indicator of clinically meaningful change (Craig et al., 1984; Craig & Andrews, 1985):

- 18 of the 20 participants (90%) showed an increase in Origin or a decrease in Pawn scores
- However, pre-treatment LCB scores (28.68) were similar to normally fluent speakers (28.30) (Craig, et al., 1984)
- Still, 12 of the 20 participants (60%) showed (desirable) decreases of 5% in their LCB scores.

#### Origin and Pawn & LCB Scale

- Non significant relationships (r) among (Pre, Post, Change) Origin scores, Pawn scores and LCB Scale
- Support for Origin & Pawn as a two-dimensional state (rather than a single-dimensional trait) construct
  - Prior to therapy, a non significant relationship for Origin and Pawn scores (r = -.15, p = .531)
  - Following therapy, a significant negative relationship for Origin & Pawn scores (r = -.70, p = .001)

#### Other considerations

- Origin and Pawn scaling procedure likely to be less reactive and allow multiple testing
- A clinician who knows and understands a speaker may be better able to identify Origin and Pawn clauses (we did not administer the treatment)
- Adjustment of post-treatment pawn clauses for increased sensitivity (references to pre-Tx speaking)
- Future study: Patterns of change in Origin and Pawn scores to predict post-treatment success

