Video Modeling: A Tool for Improving Awareness and Self Regulation for Individuals with Acquired Brain Injuries

Jerry K. Hoepner, PhD, CCC-SLP University of Wisconsin – Eau Claire



Disclosures

- Financial: Jerry Hoepner received conference registration, travel and lodging
- Non-financial: Jerry Hoepner is a member of ANCDS and the right hemisphere damage writing group; an affiliate of Aphasia Access and interviewer for the Aphasia Access Conversations Podcast; Associate Coordinator of the ASHA SIG 20: Counseling, and Editor of Teaching and Learning in Communication Sciences and Disorders (TLCSD)

Hoepner, 2023





















Video-self modeling: The good ole days...

Act natural...

















Catch yourself in the act!

- What went well?
- What improved?
- What didn't go well?
- What could still improve?
- What could you try next time?



Goal Attainment Scales Made Easier Set goals together, measure/monitor them together, ask them to recall their goals each week Goal: This goal should be framed in the client/family's words or words they agree upon and understand +2 5 Dream a little - if you woke up tomorrow morning and everything was great, this is what it would look like (equidistant from better than expected) +1 4 Better than expected - equal increment from expected outcome level Expected outcome – equal increment above baseline 3 0 -1 2 Baseline - this is how you're performing at the outset In Their Own Words -2 1 Worsened – equidistant increment below baseline 21















Collaboration don'ts





Not elaborating





Not Collaborating













Metaphors (TBI Connect, TBI Express, Convers-ABI-lity)

- Pass the ball, share the ball (don't hold the ball, try not to drop the ball)
- Stay on track (don't get off track)
- Doing my share
- Flat tire, out of gas



Rietdijk et al., 2022; Rietdijk et al., 2020; Rietdijk et al., 2019



GAS Level	Criteria
+2 – The best outcome possible – back to status before iniury	You never or rarely struggle answer the question in the way you mean to or with the words you want to use
+1 – More than expected but not back to status before injury	You seldom struggle to answer the question in the way you mean to or with the words you want to use
0 Expected outcome – if things improved from baseline of this intervention	Occasionally , you do not answer the question in the way you mean to or with the words you want to use
-1 – Level you started at in the beginning of this intervention	Often, you do not answer the question in the way you mean to or with the words you want to use
-2 – Worse than when you started this intervention	You never answer the question the question in the way you mean to or with the words you want to use (e.g., this might happen after a seizure)





Facilitating a metacognitive discussion about goals

- 1. Client discusses status prior to ABI
- 2. Client discusses current status and limitations to his social interactions (i.e., not asking others about themselves, being egocentric and self-focused)
- 3. Note: his partner has been frustrated that he doesn't give back, ask about her ~ a goal they're working on [previous video]
- 4. Now, see the change bubbling up \odot



Pausing the video...

- 1. Open ended question about the video they just watched
- 2. Both reflect on change in behaviors simply because they know the video is on
- I have people say, "I'm only good because I know the video is on!" I say, "Knock yourself out! If you can do it then, you can do it anytime." POSITIVE behavior yields more positive behavior
- 3. Reflection on conversations outside of therapy sessions (GENERALIZATION)











Internalization of strategies

- Disclaimer he's hypophonic one of our other goals ☺
- 2. But, he's asking her questions instead of just telling her about how his day is going
- 3. Awareness is improving



The age-old pitfall still exists....

- It's all too easy to fall into the pitfall of answering/making a judgment for them [see video on next slide]
 - If we ensure a means of response through rating scales, written choice, replaying the video, the right types of prompts... they CAN respond
 - Specificity depends on the right form of support and prompting rating scales, choices, etc.

55

Wrap-up

- 1. Fosters self-assessment and self-confrontation
- 2. Improves self awareness and changes behaviors for client & partner
- 3. Monitoring own goals changes awareness of goals and progress towards goals

References

- Hoepner, J.K., Sievert, A., & Guenther, K. (2021). Joint VSM for persons with traumatic brain injuries and their partners: A case series. ICCDC special issue of American Journal of Speech-Language Pathology
- Hoepner, J.K., Salo, M., & Weich, H. (2019). Replication of a dynamic coaching program for college students with acquired brain injuries. Clinical Archives of Communication Disorders. 4(2), 98-112.
- Hoepner, J.K., & Olson, S.E. (2018). Joint video self-modeling as a conversational intervention for an individual with a traumatic brain injury and his everyday partner: A pilot investigation. Clinical Archives of Communication Disorders. 3(1), 22-41.
- Hoepner, J.K., Sell, L., & Kooiman, H. (2015). Case study of partner training in corticobasal degeneration. *Journal of Interactional Research in Communication Disorders*. 6(2). 157-186.
- Hoepner, J.K., & Turkstra, L.S. (2013). Video-Based Administration of the La Trobe Communication Questionnaire for Adults with Traumatic Brain Injury and Their Communication Partners. *Brain Injury*, April 27(4), 464-472.
- McGraw-Hunter, M., Faw, G.D., & Davis, P.K. (2006). The use of video self-modeling and feedback to teach cooking skills to individuals with traumatic brain injury: a pilot study. Brain Injury, 20(10), 1061-1068.
- Ylvisaker, M. (2006). Self-coaching: A context-sensitive, person-centred approach to social communication after traumatic brain injury. *Brain Impairment*, 7(03), 246-258.

57

References

- Avramovic, P., Rietdijk, R., Attard, M., Kenny, B., Power, E., & Togher, L. (2023). Cognitive and Behavioral Digital Health Interventions for People with Traumatic Brain Injury and Their Caregivers: A Systematic Review. *Journal of neurotrauma*, 40(3-4), 159-194.
- Rietdijk, R., Power, E., Brunner, M., & Togher, L. (2019). A single case experimental design study on improving social communication skills after traumatic brain injury using communication partner telehealth training. *Brain injury*, *33*(1), 94-104.
- Rietdijk, R., Power, E., Attard, M., Heard, R., & Togher, L. (2020). Improved conversation outcomes after social communication skills training for people with traumatic brain injury and their communication partners: a clinical trial investigating in-person and telehealth delivery. *Journal of Speech, Language, and Hearing Research, 63*(2), 615-632.
- Rietdijk, R., Power, E., Attard, M., Heard, R., & Togher, L. (2020). A clinical trial investigating telehealth and in-person social communication skills training for people with traumatic brain injury: participant-reported communication outcomes. *The Journal of head trauma rehabilitation*, *35*(4), 241-253.
- Rietdijk, R., Power, E., Attard, M., & Togher, L. (2022). Acceptability of telehealth-delivered rehabilitation: Experiences and perspectives of people with traumatic brain injury and their carers. *Journal of telemedicine and telecare*, *28*(2), 122-134.
- Togher, L., McDonald, S., Tate, R., Rietdijk, R., & Power, E. (2016). The effectiveness of social communication partner training for adults with severe chronic TBI and their families using a measure of perceived communication ability. *NeuroRehabilitation*, *38*(3), 243-255.

