



|   |  |
|---|--|
| <p>Dixon et al. (2004). Exploring the utility of functional analysis methodology to assess and treat problematic verbal behaviour in persons with acquired brain injury. <i>Behav Intervent</i>, 19(2): 91-102.</p>   | <p>RoBiNT score - 12/30</p>  |
| <p>Method / Results</p>   | <p>Rehabilitation Program</p>  |
| <p><b>Design</b></p> <ul style="list-style-type: none"> <li>• <b>Study Type:</b> SCD. Functional analysis, followed by BAB design (A – baseline, B – differential reinforcement of alternative behaviour; DRA).</li> <li>• <b>Population:</b> n=4 with ABI. <ul style="list-style-type: none"> <li>○ Tommy: male, age 21, ABI (six-storey fall)</li> <li>○ Matt: male, age 20, ABI (motorcycle accident)</li> <li>○ Chaz: male, age 48, multiple brain injuries (two separate motor vehicle accidents)</li> <li>○ Eddie: male, age 61, TBI (automobile accident)</li> </ul> </li> <li>• <b>Setting:</b> One of a series of small rooms at the participants’ residence – inpatient centre for persons with severe brain injury.</li> </ul> <p><b>Target behaviour measure/s:</b></p> <ul style="list-style-type: none"> <li>• Frequency of inappropriate verbal behaviour.</li> </ul> <p><b>Primary outcome measure/s:</b></p> <ul style="list-style-type: none"> <li>• No other standardised measure.</li> </ul> <p><b>Results:</b></p> <p><u>Results of functional analysis:</u><br/>Tommy’s inappropriate depressive and suicidal vocalizations were maintained by attention from others. Matt’s inappropriate verbal behaviour was maintained by escape from verbal demands of the experimenter to talk about the difficulties he was having in his therapy sessions. Chaz’s inappropriate verbal behaviour was maintained by attention/extinction from the experimenter. Eddie’s inappropriate verbal behaviour was maintained by escape from the prompts to engage in physical therapy made by the experimenter.</p> <p><u>Results of DRA intervention:</u><br/>Visual inspection of graphed data showed that DRA reduced inappropriate verbal behaviour of all participants. No statistical analysis was performed.</p> | <p><b>Aim:</b> To reduce inappropriate verbal behaviour.</p> <p><b>Materials:</b> None specified.</p> <p><b>Treatment Plan:</b></p> <ul style="list-style-type: none"> <li>• <b>Duration:</b> Not specified in report.</li> <li>• <b>Procedure:</b> 6-18 sessions. No further detail provided.</li> <li>• <b>Content:</b></li> <li>• <u>Functional analysis:</u> Four conditions (attention, demand, alone, control) of 10 minutes in length alternated within each participant in a multi-element design. Frequency of inappropriate verbal behaviour monitored in each condition to determine maintenance factors.</li> <li>• <u>DRA – differential reinforcement of alternative behaviour:</u> <ul style="list-style-type: none"> <li>• Attempted to alter a behaviour maintained by attention – a 2-3 second verbal statement from the experimenter that was appropriate to the participant’s comment or question followed each appropriate verbal utterance.</li> <li>• Attempted to alter a behaviour maintained by escape from demands – the participant was instructed at the onset of the session ‘If you need to take a break, please ask appropriately’. Afterwards, each appropriate verbal utterance was followed by a 30 second termination of prompts to engage in a physical therapy exercise. Inappropriate utterances were ineffective in terminating the exercise.</li> </ul> </li> <li>• <u>Baseline:</u> Identical to the condition conducted in the functional analysis that yielded the highest frequency of problematic verbal behaviour.</li> </ul> |