Cognitive stimulation group: An Exploration of a successful Intervention with people with Huntington's Disease.

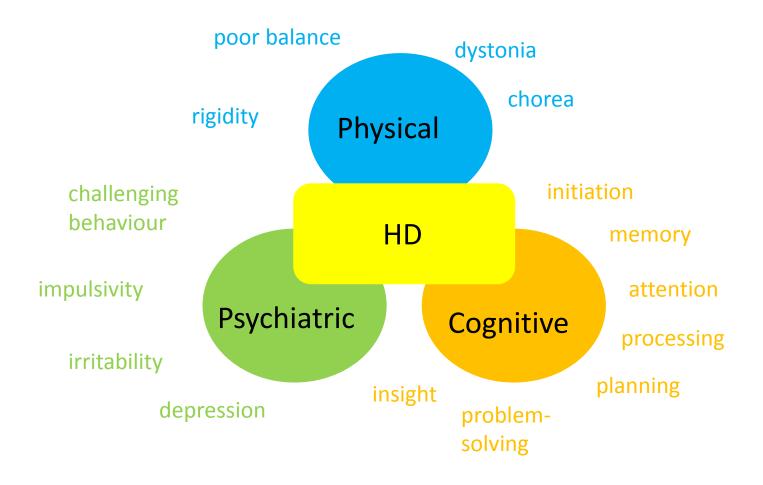
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Huntington's Disease (HD) - what is it?

- Genetic neurodegenerative disorder that affects physical,
 psychiatric and cognitive functioning
- Prevalence: Approximately 4-10 per 100,000 (Paulsen, 2011)
- Typically diagnosed in mid-adulthood but individuals can become symptomatic at any age (Myers, 2004)
- Typical disease duration of 15-20 years (Walker, 2007)
- 50% chance of inheriting the condition

Triad of Impairment



Cognitive difficulties in HD

- Cognitive changes already in the prodromal stage of HD (could be decades before motor diagnosis).
- Early signs: emotional recognition difficulties, changes in time perception, speed of processing, and olfaction.
- Judgment, attention, executive functions, awareness and perceptual skills (space, emotions, time) typically affected.
- Progression: global deterioration and memory deficits, implicit memory in particular.

Communication difficulties in HD

- **SPEECH** Dysarthria. Impacts on other people understanding what person saying.
 - Difficulty producing sounds with tongue, lips and palate.
 - Reduced coordination of breathing and using voice
 - Harsh/strained voice
 - Volume can vary
 - Lack of rhythm

COGNITIVE-COMMUNICATION

- Reduced understanding of complex/abstract info
- Delayed response
- Word finding difficulties & reduced vocabulary
- Shorter and simpler sentences
- Difficulty staying on topic
- Repeating self/getting 'stuck' on a topic

SOCIAL INTERACTION

- Reduced body language, gesture, facial expression, eye-contact
- Reduced initiation & attention
- Agitation, frustration, irritability, impulsivity, behaviour



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HD Service at RHN

- In-patient care
- Specialist assessment
- Therapeutic input from therapists specialising in HD
 - SLT, MT, Psychology, OT, PT, DT
- Management of challenging behaviours
- Management of complex physical, cognitive and communication difficulties
- Complex capacity assessments and supporting decision making/future planning
- Specialist clinics: e.g. respiratory, wheelchair, mealtime, tone and splinting
- Support for families
- Seamless discharge home/to alternative placement with a comprehensive management plan
- Long term residential placements
- Palliative care

What is cognitive stimulation?

Cognitive Stimulation Therapy (CST) is an intervention that offers a range of enjoyable activities providing general stimulation for thinking, concentration, and memory, usually in a social setting such as a small group.

Group CST is an evidence-based treatment designed through a systematic literature review of the non-pharmacological therapies for dementia. (2)
This was followed by a pilot study conducted in 2003 by Aimee Specter et. al. (1)

The Evidence Base

*Pilot Study

- -Randomised Control Trial in 23 centres
- -201 participants with a diagnoses of dementia, randomly allocated to either CST group or a 'treatment as usual' control group
- -Results: CST led to significant benefits in peoples' cognitive functioning
- → As measured by the MMSE and the ADAS-COG

NICE Guidelines

The UK Department of Health NICE guidelines on dementia, 2006, state that:

"People with mild / moderate dementia of all types should be given the opportunity to participate in a structured group cognitive stimulation programme. This should be commissioned and provided by a range of health and social care workers with training and supervision. This should be delivered irrespective of any anti-dementia drug received by the person with dementia".

Key Principles of CST

- Orientating people sensitively / when appropriate
- Information processing and opinion rather than factual knowledge -> implicit learning
- Multi-sensory stimulation
- Flexible activities to cater for group's needs and abilities
- Using reminiscence (as an aid to here-and-now)
- Building / strengthening relationships (4)

Rationale for CSG with HD

The Cognitive Stimulation Group (CSG) trialled on a specialist HD ward at the Royal Hospital for Neuro-disability (RHN) is based on the CST group programme (Spector et al., 2006 & Aguirre et al., 2012).

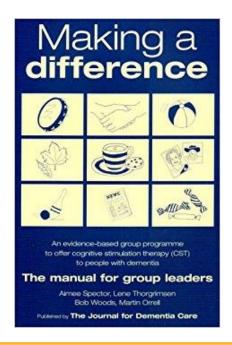
Even though the original programme was developed for people with dementia, CSG was hypothesised to be a suitable intervention for the HD patients at RHN due to the nature of the cognitive, psychological, and social difficulties they experience.

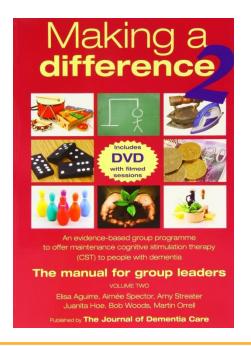
Aims

- Facilitate verbal expression and choice making.
- Encourage social communication.
- Encourage use of total communication approach.
- Facilitate naturalistic assessment of communication, cognition and functional ability.
- Assess for appropriateness of activities on discharge from hospital/during RHN placement.
- Improve mood and manage anxiety
- Increase wellbeing and quality of life through social inclusion.

Structure

The group runs once a week for 45 minutes in blocks of 8 weeks. The structure is loosely based on the manuals: 'Making a Difference: An Evidence-based Group Programme to Offer CST to People with Dementia' volumes 1 and 2 (Spector et al., 2006 & Aguirre et al., 2012).





Structure

- Orientation: discussion of the day, date, location, providing contextual cues and choices as appropriate.
- Theme Song: chosen by group members, providing a link between sessions.
- Newspaper Article: supported conversation of current affairs using article with simplified language, large text, and highlighted key words
- Main Activity: see Figure 1 for sample topic.
- Self-Rating Scale: patients self-rate enjoyment using a visual analogue scale.

| Activity | Content | Ideas for facilitative techniques | | | | | | |
|---|--|---|--|--|--|--|--|--|
| Topic: 'Current Affairs: past and present' | | | | | | | | |
| Famous British political figures throughout history | Recognizing and naming famous faces -Ordering from most current to oldest -Who do you prefer? Prompt for justification of opinions | Show video clip of prime ministers through the decades Use pictures of prime ministers/politicians Pointing to choice of two Phonemic cues for naming Closed yes/no questions | | | | | | |
| Notable quotes from political campaigns and speeches | Match the distinctive quote to the figure who said it Who do you think said it? What do you think it means? Prompt for justification of opinions | Print out large text of each quote Pictures of campaign slogans Ask patients who are able, to read aloud text Offer visual/verbal/written choices of two; did x or y say this? | | | | | | |
| Landmark political events- past and present | Do you remember what event this is? Where were you when it happened- did you watch it on the TV? | Print out visual images of events e.g. Profumo scandal, 'Brexit' vote, coal miners' strike, 7/7 bombings, Channel Tunnel completion | | | | | | |
| Closing Sequence | | | | | | | | |
| Rating scale | Patients self-rate enjoyment using a visual scale | - Use visual rating scale | | | | | | |

Record Form

Version 3 – February 2017 TOPIC:

Wolfson Cognitive Stimulation Group - Participation and Activity Analysis

Name: NHS Number: D.O.B: Date: Communication skills Scale: 1 = Extreme difficulty/unable; 2= Moderate difficulty; 3 = Minimal difficulty; 4 = Independent with no difficulty 2 Comment Initiates comments/topics Appropriate social interaction (e.g. turn taking, appropriate language and topics) Uses non-verbal communication (e.g. eye contact, gestures, facial expression, AAC) Use of verbal communication (e.g. speech intelligibility, sentence length etc) Comprehension (e.g. following instructions, responding appropriately to conversation) Cognition 1 2 3 4 Comment Maintaining arousal (e.g. alertness) Speed of information processing (e.g. length of time before responds) Maintaining attention (e.g. shifting attention between speakers/topics, distractibility) Reasoning (e.g. justification of opinions) Remembering information (e.g. recent events, past knowledge)

Record Form

| Patient Name: | | | | | NHS: | | |
|---|---|--------|---|---|--------------------|--|--|
| Orientated to person (e.g. | | | | | | | |
| name, family members etc.), | | | | | | | |
| place, time | | | | | | | |
| | • | | | • | | | |
| Behaviour & Mood | | | | | | | |
| Scale: 1 = Extreme; 2 = Moderate; 3 = Minimal; 4 = Not at all | | | | | | | |
| Level of | 1 | 2 | 3 | 4 | Comments | | |
| Impulsivity | | | | | | | |
| Agitation | | | | | | | |
| Distress | | | | | | | |
| Withdrawal | | | | | | | |
| Dation to all voting | | | | | | | |
| Patient self-rating 1 = Didn't enjoy 2 = Neutral 3 = Enjoyed session | | | | | | | |
| 1 = Didn't enjoy 2 = Neutra | | | 3 | Т | Comment | | |
| | 1 | 2 | 3 | | Comment | | |
| Level of patient enjoyment | | | | | | | |
| Comments | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Signed: | | Print: | | | Designation: Date: | | |

Case Study

Patient: Older person with HD, female

Presentation:

- **Executive dysfunction** including impulsivity, reduced problem solving, reduced reasoning, disinhibition.
- Cognitive rigidity.
- Perseveration and fixation on ideas.
- Mild-moderate dysarthria. Communicating verbally.
- Cognitive-communication impairment
- Challenging behaviour including verbal & physical agitation,

Case Study cont. ...

Initially in the group...

- Difficulties with inhibition, talking over others, not considerate of other people.
- Jumping in to respond when comments/questions directed at another group member.
- Hostile towards other patients at times e.g. hurtful verbal comments.

After 8 weeks of group sessions...

- ✓ Participated well in sessions, self-reporting enjoyment.
- ✓ Increase in ability to inhibit responses to allow others to participate with minimal prompts from staff.
- ✓ Actively supporting others in group.
- ✓ No further negative comments about/irritation towards other patients.

Benefits

Key areas of benefit to patients as observed by clinicians running the group:

- Increased quality of life through provided additional stimulation and opportunities for social engagement with others. 95% of ratings of enjoyment at the end of group sessions are 3/3.
- Increase in spontaneous interactions between group members, observed both in the group and on the ward setting.
- Some patients showed functional gains in behaviour/interaction.

What worked well...

- Patients engaged positively in the group.
- Skilled professional facilitation by staff specific needs considered.
- Careful choice of topics and materials aided engagement.
- Consistent structure each week.
- Analysis sheets assisted in monitoring changes.

Challenges...

- Timetabling difficulties, irregularity of attendance.
- Would have been more beneficial to have the same cohort of patients each session.
- Varying needs and abilities of the patients.
- Initial preparation and documentation time consuming.
- Analysis sheet although useful needs adjustment.

Future directions

- Beneficial to use the same format in other wards in the hospital.
- An official pack of resources could be created for easier future facilitation.
- Can be recommended for use in other inpatient settings to aid maintenance of cognitive and social skills and provide pleasurable activity.
- Could the trial the CSG with other patient populations and collect data to establish effectiveness.

Video

References

- 1. Spector A, Thorgrimsen L, Woods B, Royan L, Davies S, Butterworth M and Orrell M (2003). Efficacy of an evidence-based cognitive stimulation therapy programme for people with dementia: Randomised Controlled Trial. British Journal of Psychiatry, 183: 248-254.
- 2. Spector A, Orrell M, Davies S and Woods B (2000). "Reality Orientation for dementia: A review of the evidence of effectiveness from randomised controlled trails." The Gerontologist, 40 (2), 206-212.
- 3. National Institute for Health and Clinical Excellence (2006). Dementia: supporting people with dementia and their carers in health and social care. NICE clinical guideline 42, November 2006. www.nice.org.uk/guidance/cg42
- 4. Aguirre E, Spector A, Streater A, Hoe J, Woods B and Orrell M (2011). Making a Difference 2. Hawker Publications: UK.