Expert Clinicians' Survey: Psychosis Symptoms in Deaf Patients

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Psychosis often manifests through disturbances of sensory and linguistic functions in hearing people. The differing sensory and linguistic abilities of deaf people can yield unique symptom types and patterns if they become psychotic. There is little research in this area and no tool available to document the nature and severity of psychotic symptoms in deaf people. As a step toward developing such a tool, a survey of clinicians in the deafness field was undertaken. The 42 respondents provided opinions regarding 40 symptoms potentially suggestive of psychosis in deaf individuals. They ranked each symptom on a 1 – 4 scale indicating how ommon that symptom is in deaf psychotic patients and how exclusive (to psychosis) they think that symptom is. A single "experience" factor emerged from analysis of espondents' degree of service experience with deaf patients in general, with psychotic deaf patients, and the clinician's self-reported sign language fluency. Rankings of symptom commonness and exclusivity were analyzed as a function of this experience factor via dividing clinicians into four experience-level groups. The results suggest three different patterns of expertise development in this field. (1) Clinicians in the "medium-low" experience category were most likely to associate symptom rarity with exclusivity. Clinicians in the high experience group were least likely to show this illogical bias. (2) In comparison to the high experience group, the low experience group was equally likely to over- or under-estimate symptom exclusivity, while the medium-low and medium-high experience groups showed an increasing bias toward over-estimating symptom exclusivity. (3) In comparison to the high experience group, the low experience group under-estimated symptom commonness. The medium-low and medium-high experience groups, respectively, showed increasing degrees of agreement with the high experience group on rankings of symptom commonness. Clinician experience was further shown to impact exclusivity rankings of some symptoms more than others. Degree of inter-rater agreement among the high experience group was analyzed for each symptom. While the results of this study will be used in further development of the Psychosis Symptom Rating Scale, the clinician experience findings hold implications for both training and research in the deafness and mental health field.

LARGER PURPOSE OF THIS STUDY

This survey was part of a larger project, the goal of which is to develop a tool that will allow linicians to accurately document and judge the nature and severity of psychosis symptoms in deaf individuals. As a step toward development of this Psychosis Symptom Rating Scale, clinicians who specialize in the mental health and deafness field were surveyed to gather data on their ences and opinions regarding psychosis symptom manifestation in deaf individuals. The stained from these expert clinicians will be used in the development of the scale. However these survey data alone yielded useful and interesting insights, particularly regarding several apparent patterns of expertise development among clinicians in this field.

SURVEY CONSTRUCTION

- 40 symptoms selected from literature review, experience, and correspondence
- Included symptoms experienced by hearing people as well as deaf people
- Symptoms grouped into 7 categories
- · Exclude symptoms judged to be due to low IQ, poor signing ability, or low fund of information Write-in symptoms, comments accepted

THE 40 SYMPTOMS

- Hearing voices, words clear
 Hearing voices, words unclear
- Hearing music Other auditory hallucinations
- Visual perceptions of sign language Other visual hallucinations
- Olfactory (smell) hallucinations

- Tactile (touch) hallucinations Paranoid or persecutory delusion
- Somatic delusions
- · Religious delusions

Clanging

- Delusions of being controlled
- Thought broadcasting
- Unusual personal habits Special meaning attributed to colors
- · Emotional withdrawal
- Social isolation Other bizarre odd or illogical ideas
 - Lack of a sense of humor
 - hygiene and grooming

language skills

· Echolalia/echopraxia

Pressured speech or signing

Fingerspelling backwards

dysfluent communication

Volatile mood or hehavior

· Talking or signing to oneself

· Unusual mannerisms, movement

· Other unusual, impoverished or

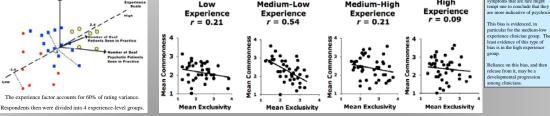
(not due to low IQ or history)

CLINICIANS WERE ASKED:

- Have you seen this symptom in any deaf individual before? (Yes, No, or Maybe) To what degree would you consider this symptom indicative of (exclusive to)
- a psychotic disorder or a psychotic aspect of another mental disorder? (1 4 scale)

 How frequently have you observed this symptom in deaf individuals with psychosis (1 4)
- Number of deaf individuals with (any) mental illness served over your career
 Number of deaf individuals with psychotic symptoms or illnesses (in their opinion)
- served over your career
 Sign language fluency self-rating (expressive and receptive)

There were 42 respondents to the survey.



Exclusivity Ratings vs. Commonness Ratings

EXPERIENCE AND SPECIFIC SYMPTOM RANKINGS

- 1 = Experience dependent (p < .05)

hearing voices (unclear meaning), music, tactile, "other auditory"
 visual perceptions of sign language, "other visual," gustatory

Delusions

There is no reason to expect that

ymptoms that are more or less

ommon should be more or less

exclusive to psychosis. Yet

symptoms that are rare might

reference, religious, grandiose, being controlled, insertion, broadcasting

special meaning attributed to colors or patterns

loose associations bizarre ideas

Language Symptoms

: loss of prior language ability : clanging, pressured speech/signing, echolalia, fingerspelling backward

Overt Behavioral Symptoms

talking or signing to oneself, unusual man

act, unusual habits, poor hygiene

nore rare = more

mmonness) a bias

merience - a third

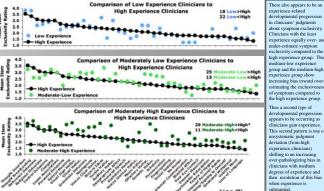
: blunted affect, inappropriate affect, emotional withdrawal

volatile mood social isolation no sense of humor

EXCLUSIVITY RANKINGS

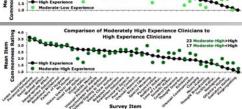
EXPERIENCE FACTOR

The experience factor accounts for 60% of rating variance.



Comparison of Low Experience Clinicians to We've already seen that **High Experience Clinicians** symptom common will bias low- and medium-experienced clinicians' judgments of symptom exclusivity exclusive to psychosis). Another analysis shows : logical pattern of low Comparison of Moderately Low Experience Clinicians to over-estimating sympton rarity (under-estimating which diminishes steadily evidenced in this study Comparison of Moderately High Experience Clinicians to **High Experience Clinicians**

COMMONNESS RANKINGS



CONCLUSIONS REGARDING EXPERIENCE ence matters greatly in how clinicians in the deafness field judge

and exclusivity in deaf psychotic patients

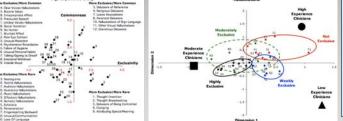
As experience increases, clinicians are consistently less likely to perceive

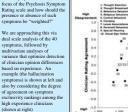
• In less experienced groups, perceived symptom rarity is illogically

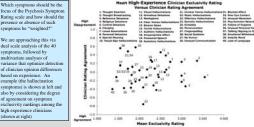
 A moderate degree of experience is associated with a systematic bias oward judging symptoms as indicative of psychosis - clinicians with the east experience do not evidence this bias

. The implications for clinician training, continuing education, and

TOWARD DEVELOPMENT OF THE PSYCHOSIS SYMPTOM RATING SCALE EXCLUSIVITY AGREEMENT AMONG HIGH EXPERIENCE CLINICIANS







CONCLUSIONS REGARDING PSYCHOSIS SYMPTOMS

. thought insertion, ideas of reference, religious delusions, clanging, delusions of control, thought broadcasting Most exclusive (some disagreement):

 Rare: thought insertion, thought broadcasting, delusions of being controlled, clanging, attributing special meaning to colors/patterns

• More common: ideas of reference, religious delusions, loose associations, paranoia, sign language hallucinations, other visual hallucinations, grandiose delusions

 Difference from hearing psychotic symptom patterns is notable (e.g., the rarity of auditory hallucinations)