


New innovations in psychological therapies for auditory hallucinations

Professor Neil Thomas, Dr Leila Jameel


Centre for Mental Health, Swinburne University of Technology

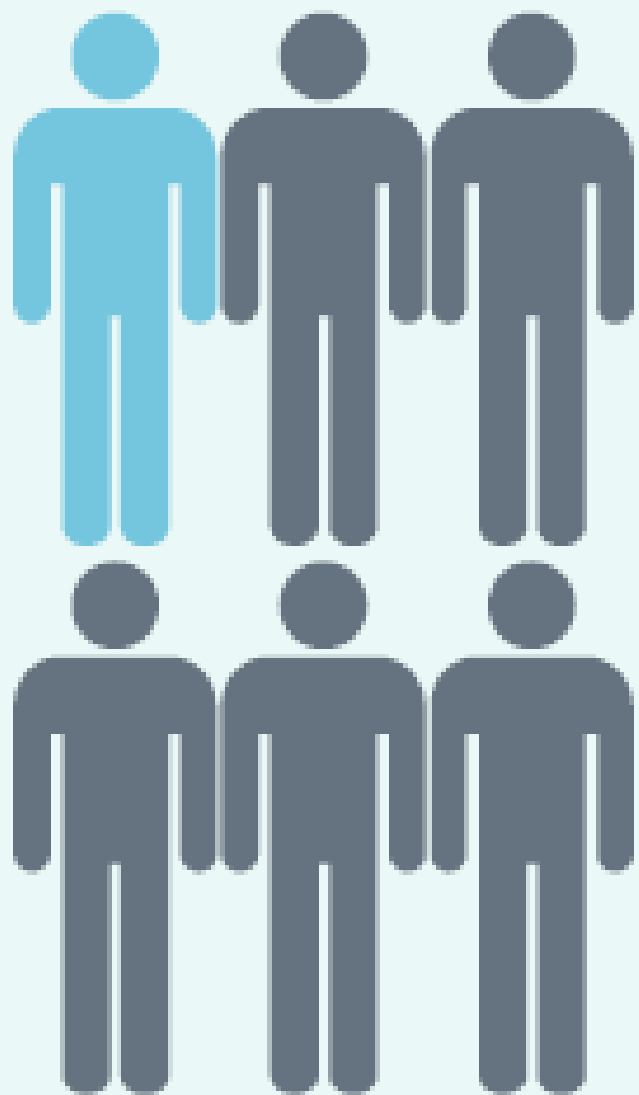
Voices Clinic

AMETHYST Trial

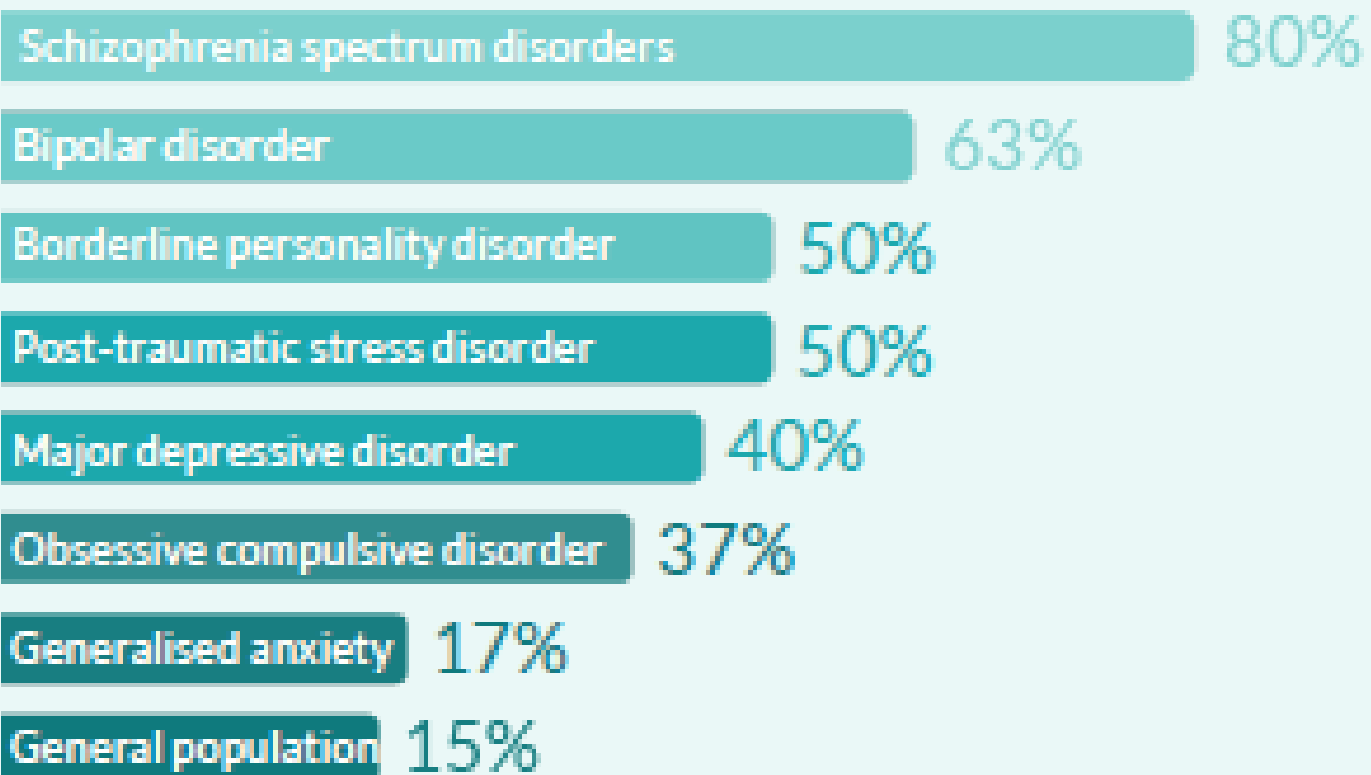


Hearing voices as a treatment target

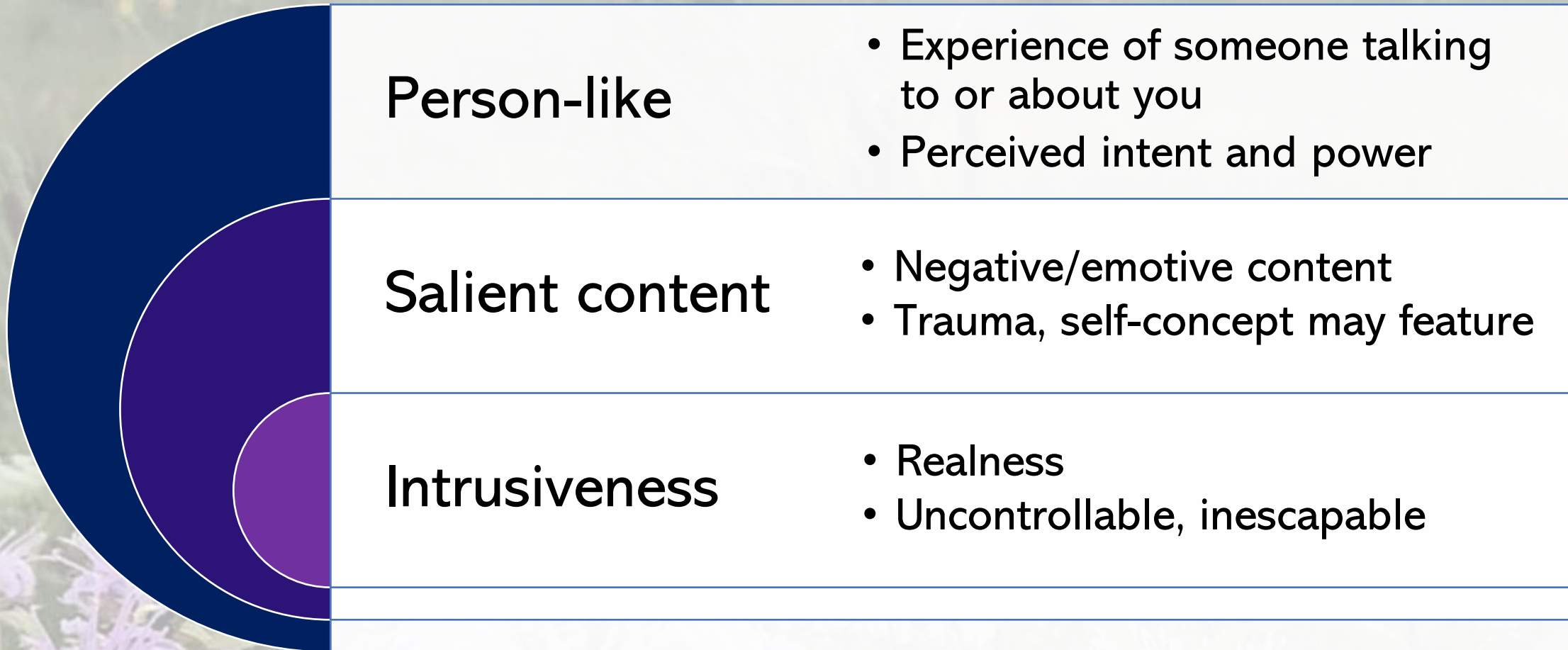
The background of the slide features several colorful speech bubble cutouts in shades of orange, green, blue, and brown, hanging from above by thin black strings. The bubbles are out of focus, creating a bokeh effect. The text is positioned on the left side of the slide, with a small orange horizontal bar above it.



Experienced by roughly 1 in 6 individuals



Hearing voices as an impactful experience

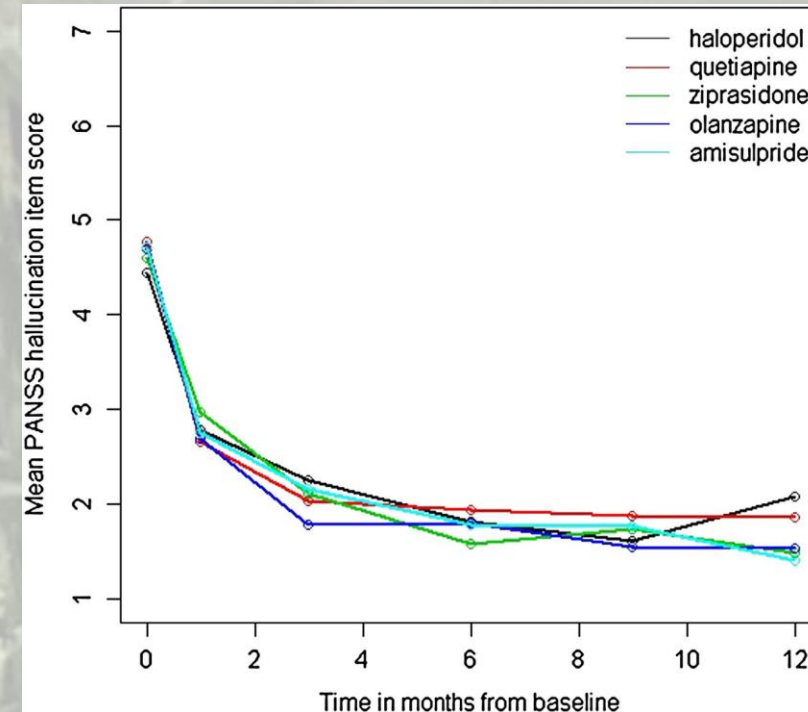


Is medication enough?

Antipsychotic medication

- Effective on average
- But 2/3 of patients do not experience full symptom remission
- Half fail to show minimal response
- No antipsychotic agents with particular utility/indication for hallucinations
- Side effects, patient reluctance to take, patients express desire for choice

Samara et al, 2019; Leucht et al, 2018



Sommer et al, *Schizophr Bull* 2012

Coping and hearing voices

- People have identifiable coping strategies
- Significant room for optimising coping strategies that people use
 - Strategies people say are most effective are not those that are done most often
 - Effective strategies may not be used as routinely as they could
- Coping may be deliberate or automatic/habitual
 - Habitual responses often where unhelpful responses arise
 - Common being drawn into argumentative or submissive responses to voices



Current best practice psychological therapy for hearing voices



Evolution of CBT for psychosis

Early interventions

- Walkman, Earplugs, Relaxation

Coping focused interventions

- Broadening coping repertoire and implementing coping more systematically
- Contemporary value as a low intensity intervention

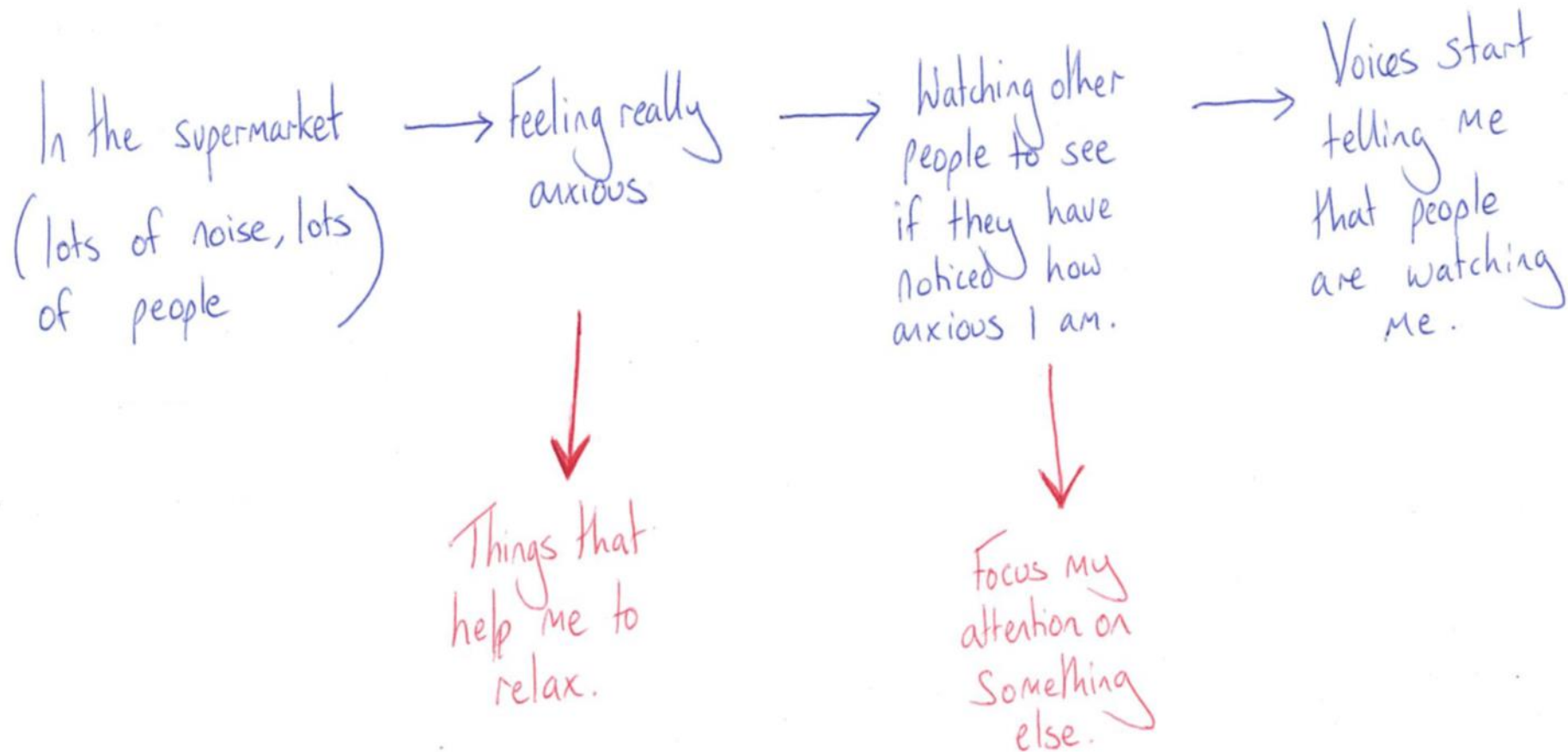
CBT for psychosis

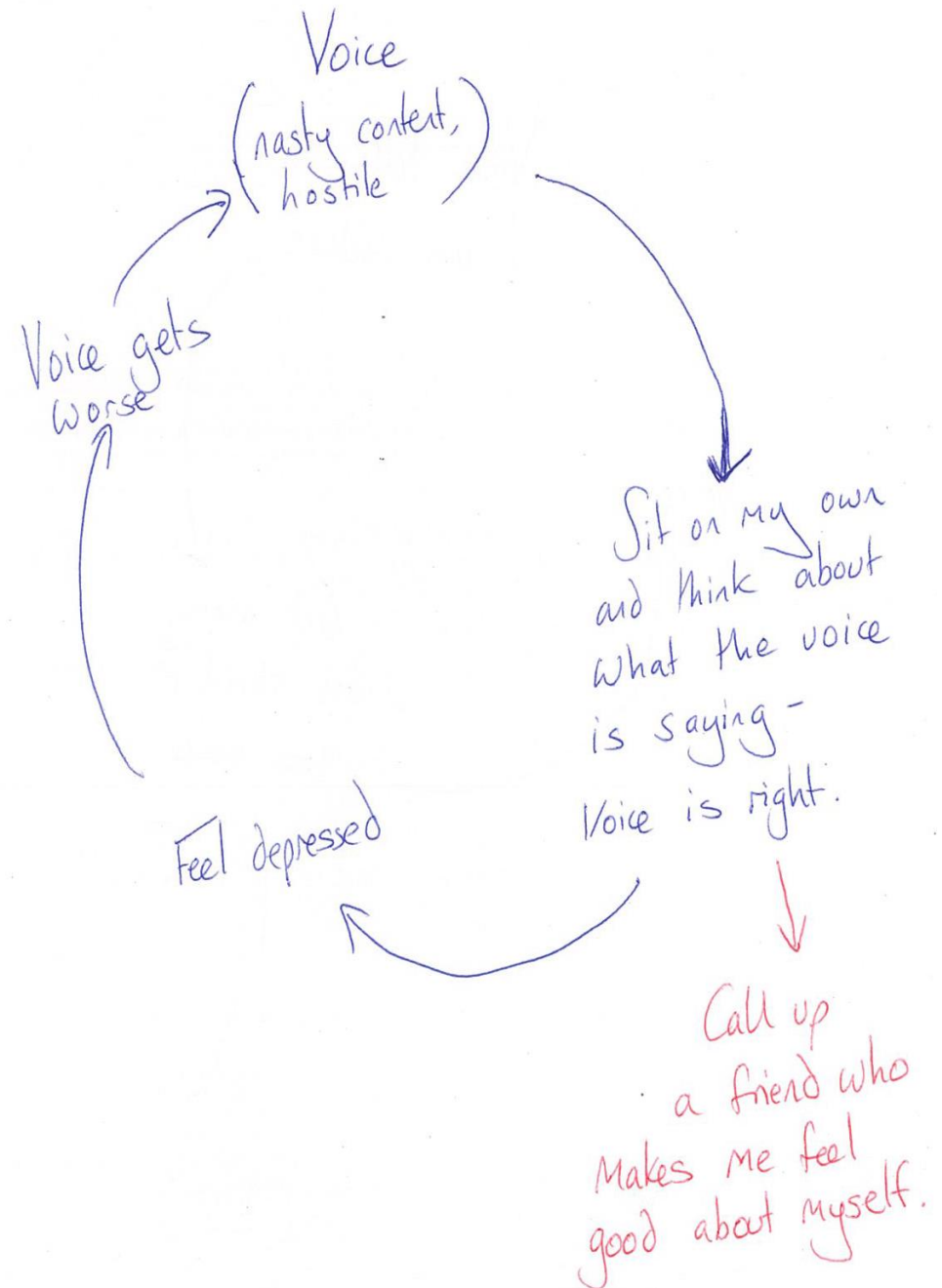
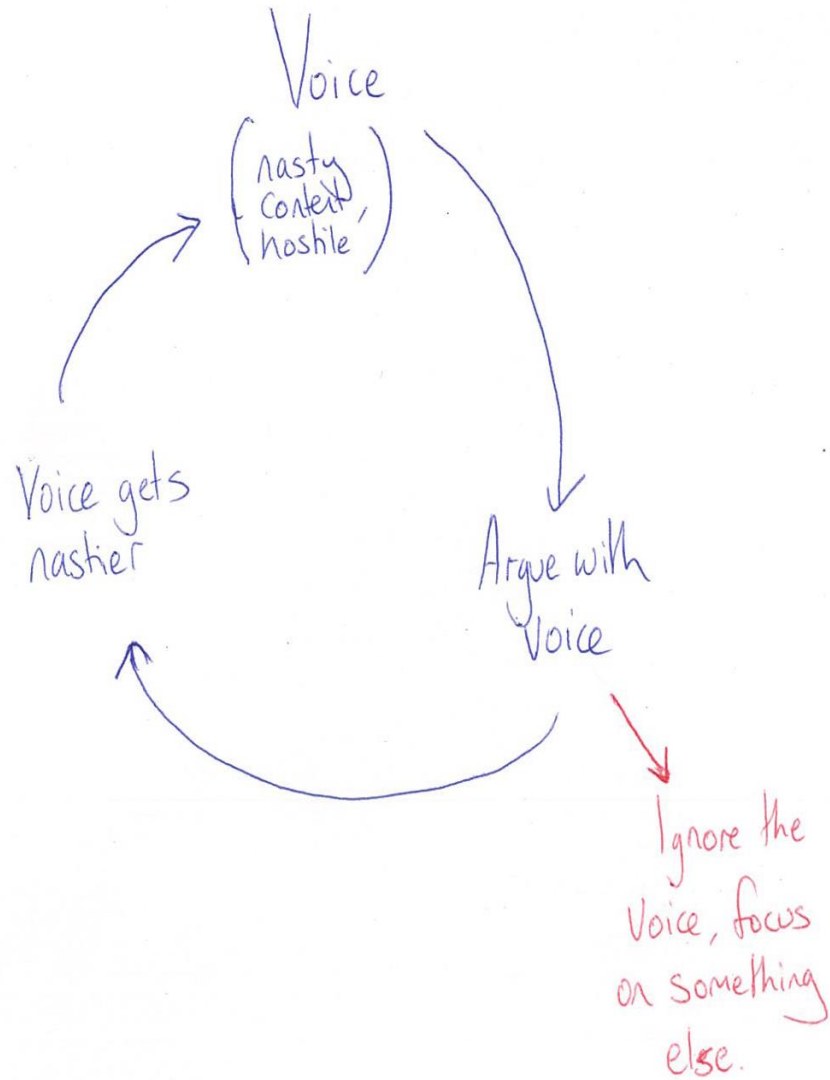
- Individualised, formulation-based approach for applying CBT methods to psychosis (including hallucinations)



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WHAT WAS HAPPENING JUST BEFORE THE VOICES STARTED?





CBTp efficacy

vs TAU (k = 22)

SMD = 0.35 [0.18, 0.52]

vs active control (k = 8)

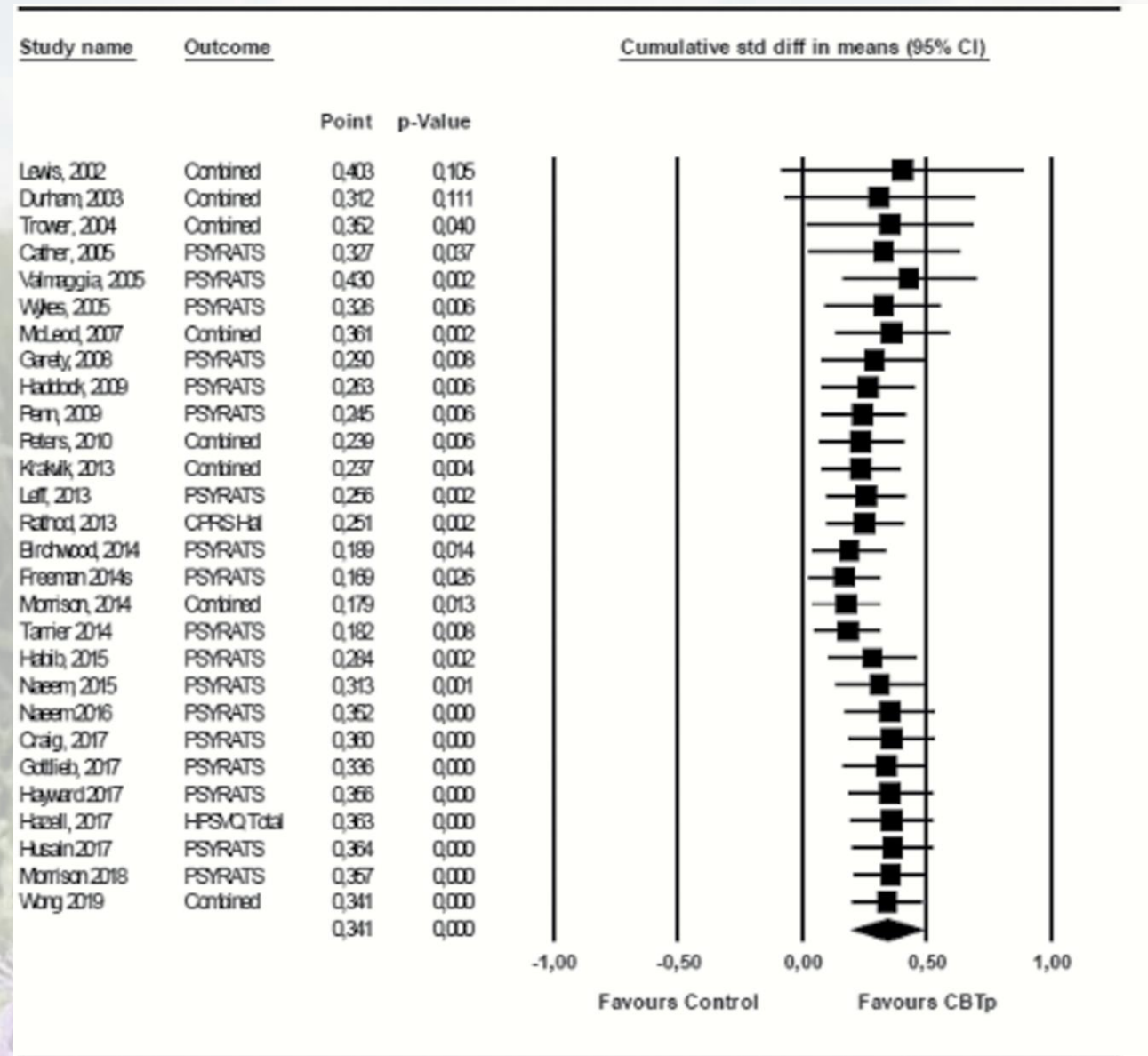
SMD = 0.34 [0.15, 0.53]

Lowest risk of bias (k = 19):

SMD = 0.40 [0.22, 0.58]

Hallucinations primary outcome

SMD = 0.40 [0.24, 0.56]



CBT for voices in recent practice guidelines



Evidence-based psychological interventions in the treatment of mental disorders: A literature review

Fifth Edition
2024

CBT is supported by Level I evidence in targeting overall symptoms of psychosis and “for the specific outcomes of negative symptoms, delusions and hallucinations, and psychotic symptoms that have not responded to antipsychotic medication”

CBT for voices in recent practice guidelines

INTEGRATE: international guidelines for the algorithmic treatment of schizophrenia

Robert A McCutcheon*, Toby Pillinger*, Ioana Varvari, Sean Halstead, Olatunde O Ayinde, Nicolás A Crossley, Christoph U Correll, Margaret Hahn, Oliver D Howes, John M Kane, Thomas Kabir, Åsa Konradsson-Geuken, Belinda Lennox, Christy Lai Ming Hui, Susan L Rossell, Marco Solmi, Iris E Sommer, Heidi Taipale, Hiroyuki Uchida, Ganesan Venkatasubramanian, Nicola Warren, The INTEGRATE Advisory Group, Dan Siskind

Schizophrenia is a mental illness involving multiple symptom domains and is often associated with substantial physical health comorbidities. Guidelines exist, but these tend to be country-specific and are often missing a concise yet comprehensive algorithmic approach. From May 1, 2023, to Jan 1, 2025, International Guidelines for Algorithmic Treatment (INTEGRATE) authors from all UN regions collaborated to develop a consensus guideline focused on the pharmacological treatment of schizophrenia. Following an umbrella review of the literature, input from expert workshops, a consensus survey, and lived experience focus groups, a consensus algorithmic guideline and associated digital tool were developed. Key recommendations include a focus on metabolic health from treatment initiation, timely assessment and management of non-response, symptom domain-specific interventions, mitigation of side-effects, and the prompt use of clozapine in cases of treatment resistance.

“At all points treatment decisions should consider psychological interventions such as cognitive behavioural therapy as an additional means of managing positive symptoms” (*Lancet Psychiatry*, 2025)

Key challenges to address

1. Efficacy remains relatively modest
2. Difficulties accessing in most countries
3. Need better fit with frontline practice



New therapeutic directions

Key areas of therapy development

- Acceptance and mindfulness-based therapies
e.g. Chadwick et al, 2017; Shawyer et al 2017
- Trauma-focused therapies
e.g. Brand et al, 2021, Paulik et al 2023
- Relational therapies
e.g. Hayward et al 2017; Craig et al, 2018; Longden et al 2024

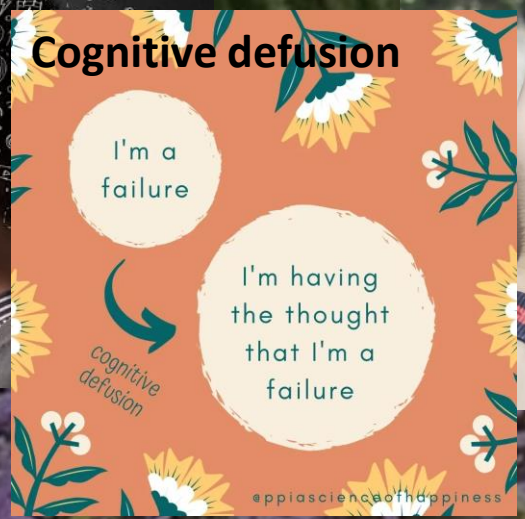
Acceptance and mindfulness

The Acceptability, Feasibility and Potential Outcomes of an Individual Mindfulness-Based Intervention for Hearing Voices



	Theme	Formal practice	Home practice
Session 1	Current coping and an introduction to mindfulness	• Body scan (15 min)	• Body scan • Daily mindful activity
Session 2	Choiceless awareness	• Breathing space (3 min) • Mindful hearing (5 min) • Mindful stretching (10 min)	• Mindful stretching • Daily mindful activity
Session 3	Mindful observation: noting and observing voices	• Mindfulness of breath (10 min) –boring speech recording –specific voice content recording	• Breathing space • Mindfulness of breath • Mindful responding to voices
Session 4	Acceptance and letting go of habitual reactions	• Mindful hearing (5 min) • Mindfulness of breath (10 min)	• Breathing space • Mindfulness of breath

BJPsych The British Journal of Psychiatry (2017) 210, 140–148. doi: 10.1192/bjpp.bpp.116.182865



Acceptance and commitment therapy for psychosis: randomised controlled trial

Frances Shawyer, John Farhall, Neil Thomas, Steven C. Hayes, Robert Gallop, David Copolov and David J. Castle

Background
The efficacy of acceptance and commitment therapy (ACT)

Results
There was no group difference on overall mental state. In primary analyses the ACT group showed greater improvement in positive symptoms and hallucination distress (w-up: Cohen's $d=0.52$ (95% CI 0.07–0.98) and 0.65 (1.02–1.06), respectively).

Conclusions
Findings reflected the treatment focus on positive symptoms; however, absence of process-measure changes suggests that the ACT intervention used did not manipulate processes beyond befriending. Symptom-specific refinements, improved investigation of process and impact on cognitive functioning and dose are warranted in research.

Registration of interest
ClinicalTrials.gov NCT01451111

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7

Acceptance and Commitment Therapy for Voices

Neil Thomas, Eric Morris, Fran Shawyer and John Farhall



ELSEVIER

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Schizophrenia Research

journal homepage: www.elsevier.com/locate/schres

Mindfulness- and acceptance-based interventions for psychosis: Our current understanding and a meta-analysis

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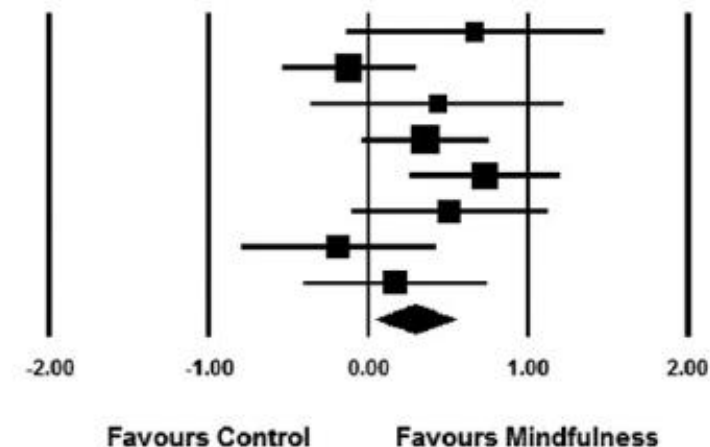
^d Sussex Partners

^e Psychiatry, St Vi

Effect of Mindfulness on Psychotic Symptoms

Outcome	Study name	Statistics for each study						
		Hedges's g	Standard error	Variance	Lower limit	Upper limit	Z-Value	p-Value
Psychotic Symptoms	Langer et al. (2012)	0.666	0.414	0.172	-0.145	1.478	1.609	0.108
Psychotic Symptoms	Shawyer et al. (2016)	-0.126	0.215	0.046	-0.548	0.295	-0.587	0.557
Psychotic Symptoms	White et al. (2011)	0.432	0.405	0.164	-0.361	1.225	1.067	0.286
Psychotic Symptoms	Chien & Lee (2013)	0.356	0.205	0.042	-0.045	0.757	1.741	0.082
Psychotic Symptoms	Chien & Thompson (2014)	0.728	0.241	0.058	0.256	1.201	3.023	0.003
Psychotic Symptoms	Gaudiano & Herbert (2006)	0.505	0.315	0.099	-0.113	1.123	1.602	0.109
Psychotic Symptoms	Shawyer et al. (2012)	-0.190	0.311	0.097	-0.799	0.419	-0.611	0.541
Psychotic Symptoms	Lopez-Navarro et al. (2015)	0.167	0.297	0.088	-0.414	0.749	0.564	0.573
		0.291	0.126	0.016	0.043	0.538	2.303	0.021

Hedges's g and 95% CI



Trauma focused therapies

voicestherapy.com



the british
psychological society
promoting excellence in psychology

Psychology and Psychotherapy: Theory, Research and Practice (2020)
© 2020 The Authors. Psychology and Psychotherapy: Theory, Research and Practice
published by John Wiley & Sons Ltd on behalf of British Psychological Society

www.wileyonlinelibrary.com

Trauma-focused imaginal exposure for auditory hallucinations: A case series

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Susan L. Rossell^{1,6} and Neil Thomas^{1*}

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²Orygen: The National Centre of Excellence in Youth Mental Health, Parkville, Victoria, Australia

³The Centre for Youth Mental Health, The University of Melbourne, Melbourne, Victoria, Australia

⁴Institute of Psychiatry, Psychology & Neuroscience, King's College London, UK

⁵South London & Maudsley NHS Foundation Trust, UK

Clinical Psychology & Psychotherapy

RESEARCH ARTICLE **OPEN ACCESS**

Effectiveness of Imagery Rescripting for Trauma-Affected Voice Hearers: An Open Trial

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Correspondence: Georgie Paulik (georgiepaulik@perthvoicesclinic.com.au)

Received: 4 July 2024 | Revised: 14 August 2024 | Accepted: 17 August 2024

Keywords: auditory verbal hallucinations | imagery rescripting | post-traumatic stress | PTSD | trauma | voices



Peters et al. *Trials* (2022) 23:429
<https://doi.org/10.1186/s13063-022-06215-x>

Trials

STUDY PROTOCOL

Open Access



Multisite randomised controlled trial of trauma-focused cognitive behaviour therapy for psychosis to reduce post-traumatic stress symptoms in people with co-morbid post-traumatic stress disorder and psychosis, compared to treatment as usual: study protocol for the STAR (Study of Trauma And Recovery) trial

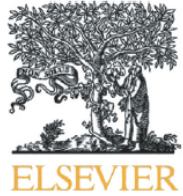
Emmanuelle Peters^{1,2}, Amy Hardy^{1,2*} , Robert Dudley^{3,4}, Filippo Varese^{5,6}, Kathryn Greenwood^{7,8}, Craig Steel^{9,10}, Richard Emsley¹¹, Nadine Keen^{1,2}, Samantha Bowe¹², Sarah Swan^{1,2}, Raphael Underwood^{1,2}, Eleanor Longden^{6,12}, Sarah Byford¹³, Laura Potts¹¹, Margaret Heslin¹³, Nick Grey^{7,8}, Doug Turkington^{3,4}, David Fowler^{7,8}, Elizabeth Kuipers^{1,2} and Anthony Morrison^{6,12}

Abstract

Background: People with psychosis have high rates of trauma, with a post-traumatic stress disorder (PTSD) prevalence rate of approximately 15%, which exacerbates psychotic symptoms such as delusions and hallucinations. Pilot studies have shown that trauma-focused (TF) psychological therapies can be safe and effective in such individuals. This trial, the largest to date, will evaluate the clinical effectiveness of a TF therapy integrated with cognitive behavioural therapy (CBT).

The se
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Method
(TAU)
health

STAR
Study of Trauma And Recovery



Do trauma-focussed psychological interventions have an effect on psychotic symptoms? A systematic review and meta-analysis

Rachel M. Brand ^{a,b,*}, Carla McEnery ^a, Susan Rossell ^{a,b}, Sarah Bendall ^{c,d}, Neil Thomas ^{a,b}

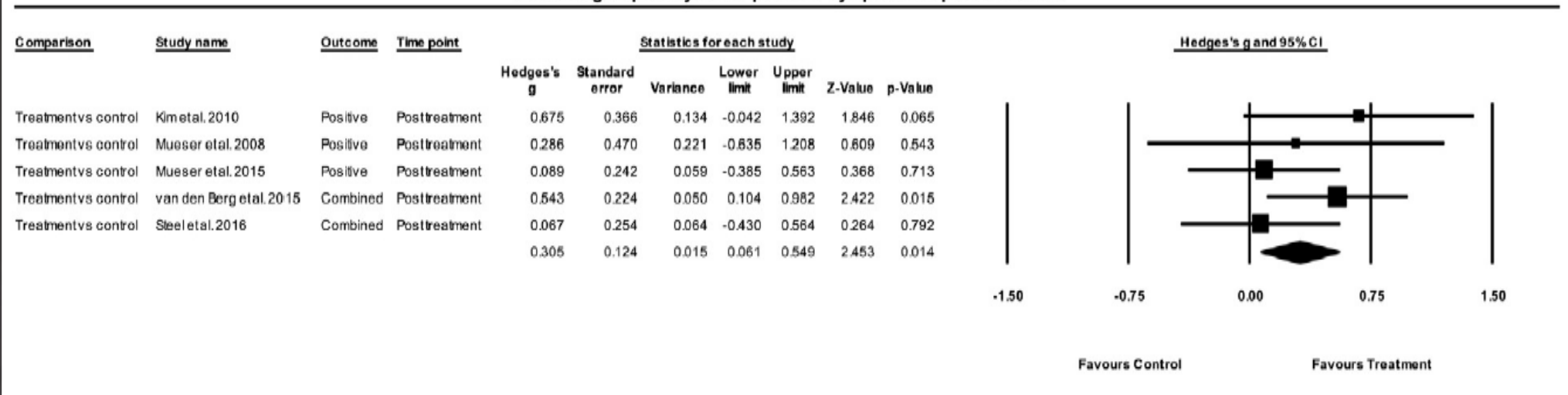
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^b The Voices Clinic, Monash Alfred Psychiatry Research Centre, Alfred Hospital, Monash University Central Clinical School, Melbourne, VIC 3004, Australia

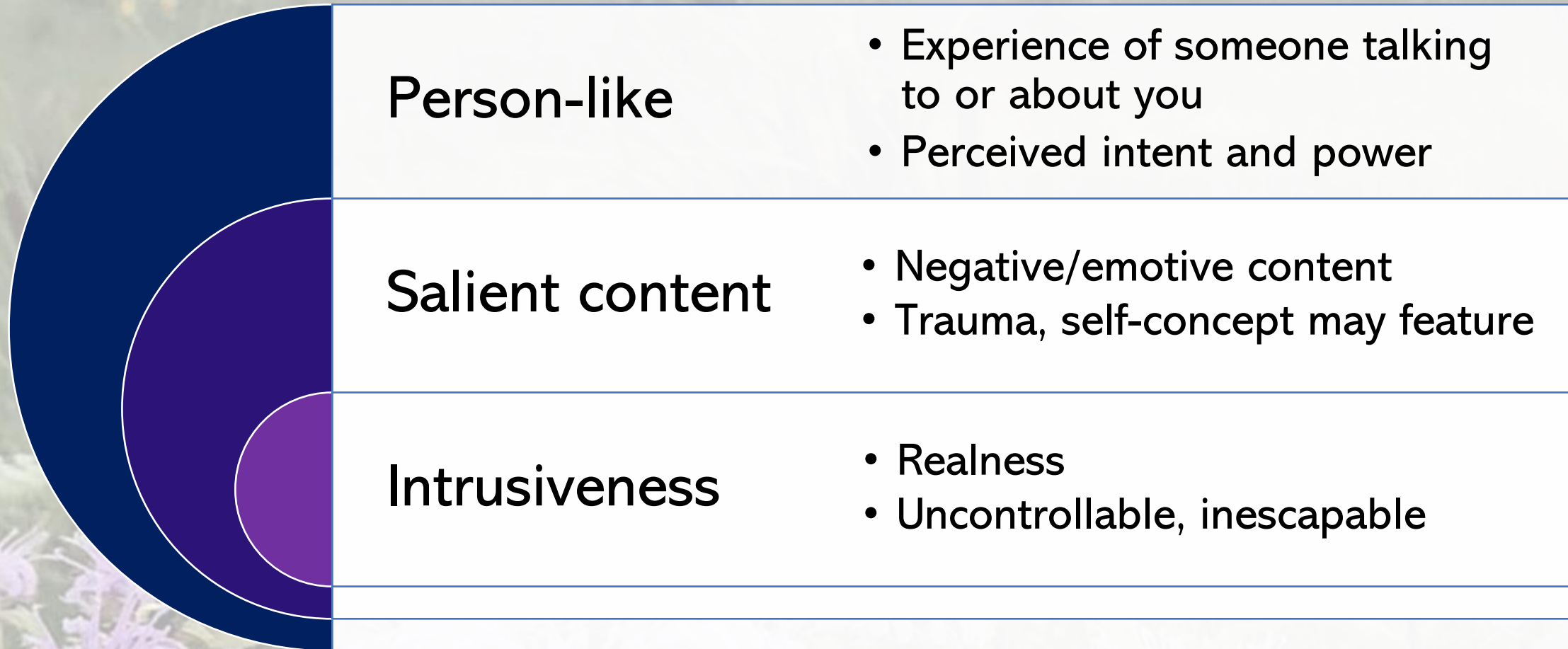
^c Orygen: The National Centre of Excellence in Youth Mental Health, 35 Poplar Road, Parkville, VIC 3052, Australia

^d The Centre for Youth Mental Health, The University of Melbourne, VIC 3010, Australia

Between group analysis for positive symptoms at post-treatment



Relational therapies



Relational therapies

voicestherapy.com

Psychosis, 2014

Vol. 6, No. 3, 242–252, <http://dx.doi.org/10.1080/17522439.2013.839735>



Beyond the omnipotence of voices: further developing a relational approach to auditory hallucinations

Mark Hayward^{a,b,*}, Katherine Berry^c, Simon McCarthy-Jones^d, Clara Strauss^b and Neil Thomas^{e,f}

^aDepartment of Psychology, University of Melbourne



Schizophrenia Research 183 (2017) 137–142

Contents lists available at ScienceDirect

Schizophrenia Research

journal homepage: www.elsevier.com/locate/schres



Relating Therapy for distressing auditory hallucinations: A pilot randomized controlled trial

Mark Hayward^{a,*}, Anna-Marie Jones^b, Leanne Bogen-Johnston^b, Neil Thomas^c, Clara Strauss^a



BMJ Open RELATE – a randomised controlled feasibility trial of a Relating Therapy module for distressing auditory verbal hallucinations: a study protocol

Tania M Lincoln,¹ Matthias Pillny¹, Björn Schlier,¹ Mark Hayward^{2,3}

Schizophrenia Research 250 (2022) 172–179



Contents lists available at ScienceDirect

Schizophrenia Research

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A psychological intervention for engaging dialogically with auditory hallucinations (Talking With Voices): A single-site, randomised controlled feasibility trial

Eleanor Longden^{a,b,c,*}, Sarah Peters^b, Alison I Natasha Holden^a, Amy Anthony P. Morrison^a



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Psychology and Psychotherapy: Theory, Research and Practice (2021), 94, 558–572
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A treatment protocol to guide the delivery of dialogical engagement with auditory hallucinations: Experience from the Talking With Voices pilot trial

Eleanor Longden^{*1,2,3}, Dirk Corstens⁴, Anthony P. Morrison^{1,2}, Amanda Larkin¹, Elizabeth Murphy¹, Natasha Holden¹, Ann Steele¹, and Samantha Bowe¹

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Relational therapies

“Relational therapies for voice hearing are those that consider patterns of interaction, and/or the relational dynamics between hearer and voice, as targets for therapeutic change, and use an experiential process of dialogue with identities associated with voices as a primary therapeutic method”

Thomas et al. (in revision)



Can we harness digital
technology to improve
efficacy and access?





Potential roles of digital technology

Telehealth

- Opportunities to increase reach and scale up

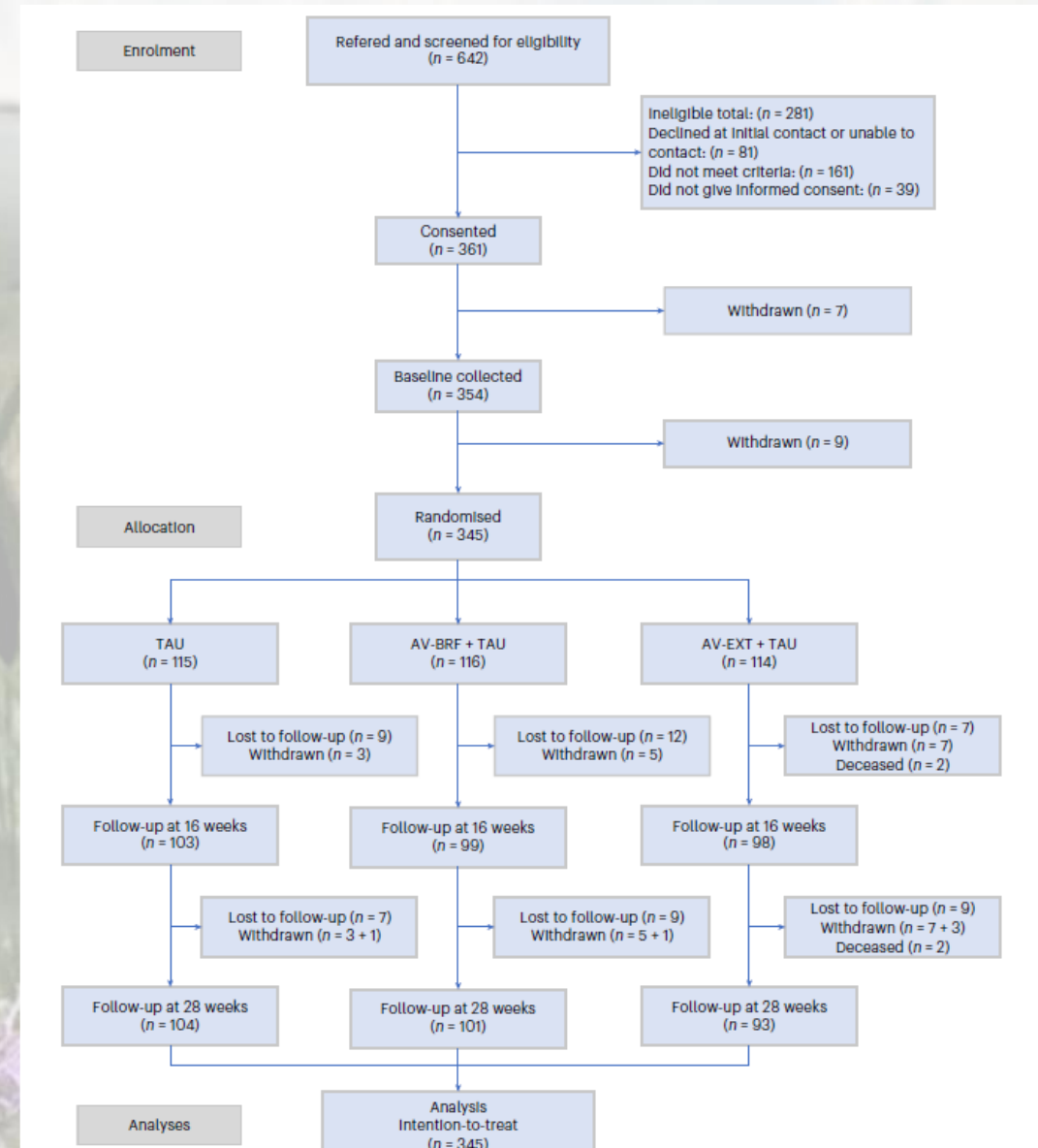
VR

- Creating avatar to simulate voice-like experiences within session for the therapist and client to use in practicing different ways of responding

AVATAR-2 Trial

- Multisite trial in UK
- Participants: 345 with psychotic disorder + persisting hallucinations
- Intervention: avatar therapy in person, avatar presented on a computer screen, 7 or 13 sessions
- Comparator: TAU
- Primary outcome: PSYRATS-AH distress
Both arms superior to TAU at post-therapy
- Voice frequency also reduced at post-treatment and at follow up in longer version

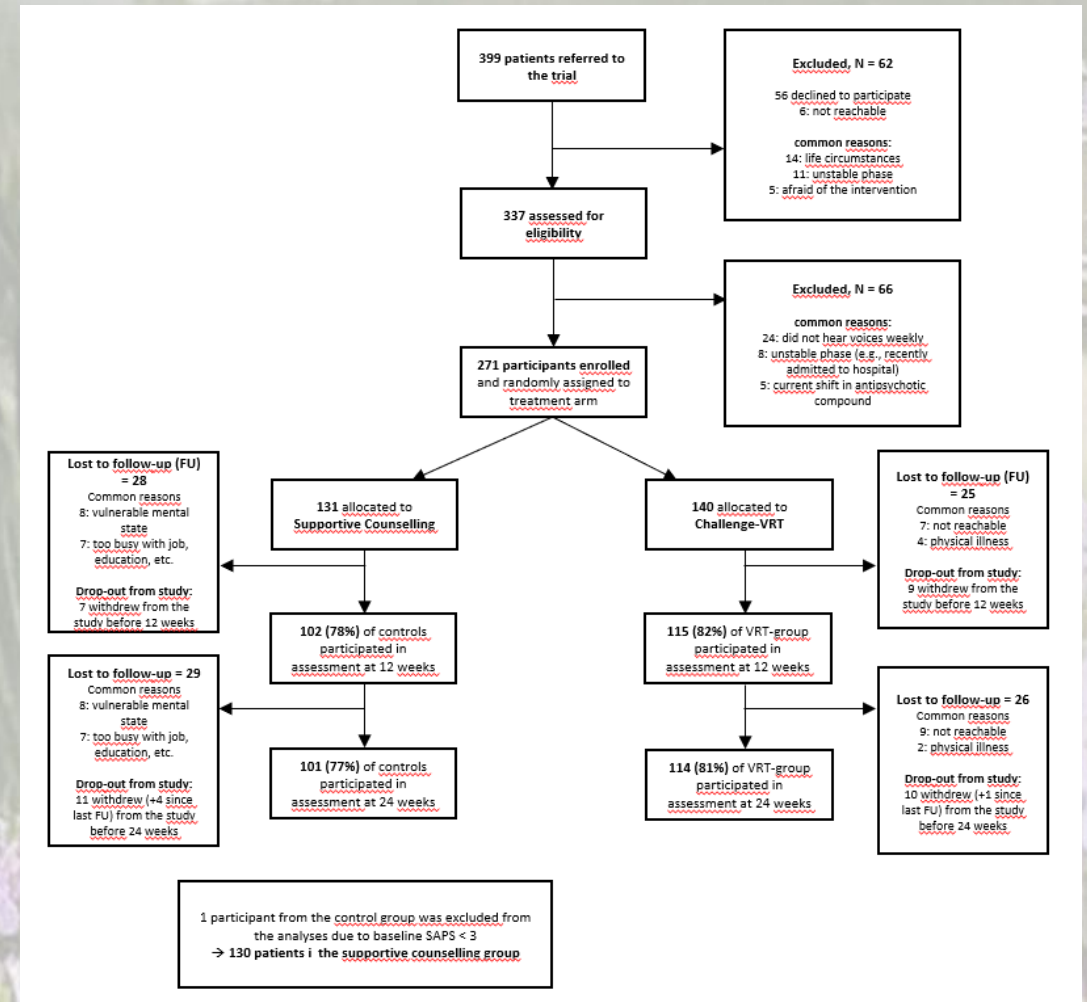
Garety et al., *Nature Medicine* 2025



CHALLENGE Trial

- Multisite trial in Denmark
- Participants: 270 with schizophrenia related disorder + persisting hallucinations
- Intervention: avatar therapy in person, using immersive VR, 7 sessions
- Comparator: supportive counselling
- Primary outcome: PSYRATS-AH total Superiority shown at post treatment
- Voice frequency reduced at post-treatment and follow up

Smith et al. *Lancet Psychiatry*, in press



**AUSTRALIA WIDE
RECRUITING UNTIL MARCH 2026!**

Design	Randomised controlled trial (2-arm, superiority) Measures at baseline, and 3 (end of therapy), 6 and 9 months
Participants	212 adults with persisting experiences of hearing negative or distressing voices, psychotic disorder diagnosis
Intervention	Avatar supported therapy, 7 sessions, via telehealth
Comparator	Standard best practice therapy (CBT for voices), 7 sessions, telehealth
Outcomes	Changes in hearing voices at end of therapy (PSYRATS) Broader mental health and quality of life measures Relative satisfaction with and tolerability of the two therapies

**AUSTRALIA WIDE
RECRUITING UNTIL MARCH 2026!**

Eligibility:

- ✓ Aged over 18 years
- ✓ A diagnosis of a schizophrenia spectrum disorder or a mood disorder with psychotic symptoms
- ✓ Currently experiencing hearing voices with significant negative/ distressing content
- ✓ Currently on treatment with antipsychotic medication OR has tried at least two different antipsychotics in the past
- ✓ Access to the internet and a computer/other device on which videoconferencing software can be used
- X Auditory verbal hallucinations are attributable to a primary substance use disorder or organic disorder
- X IQ < 70
- X Auditory verbal hallucinations are spoken in a language other than English

Hold for 3 months

Currently receiving or has received individual psychological therapy for hearing voices in the past 3 months
Currently receiving or has received ECT or other brain stimulation treatment

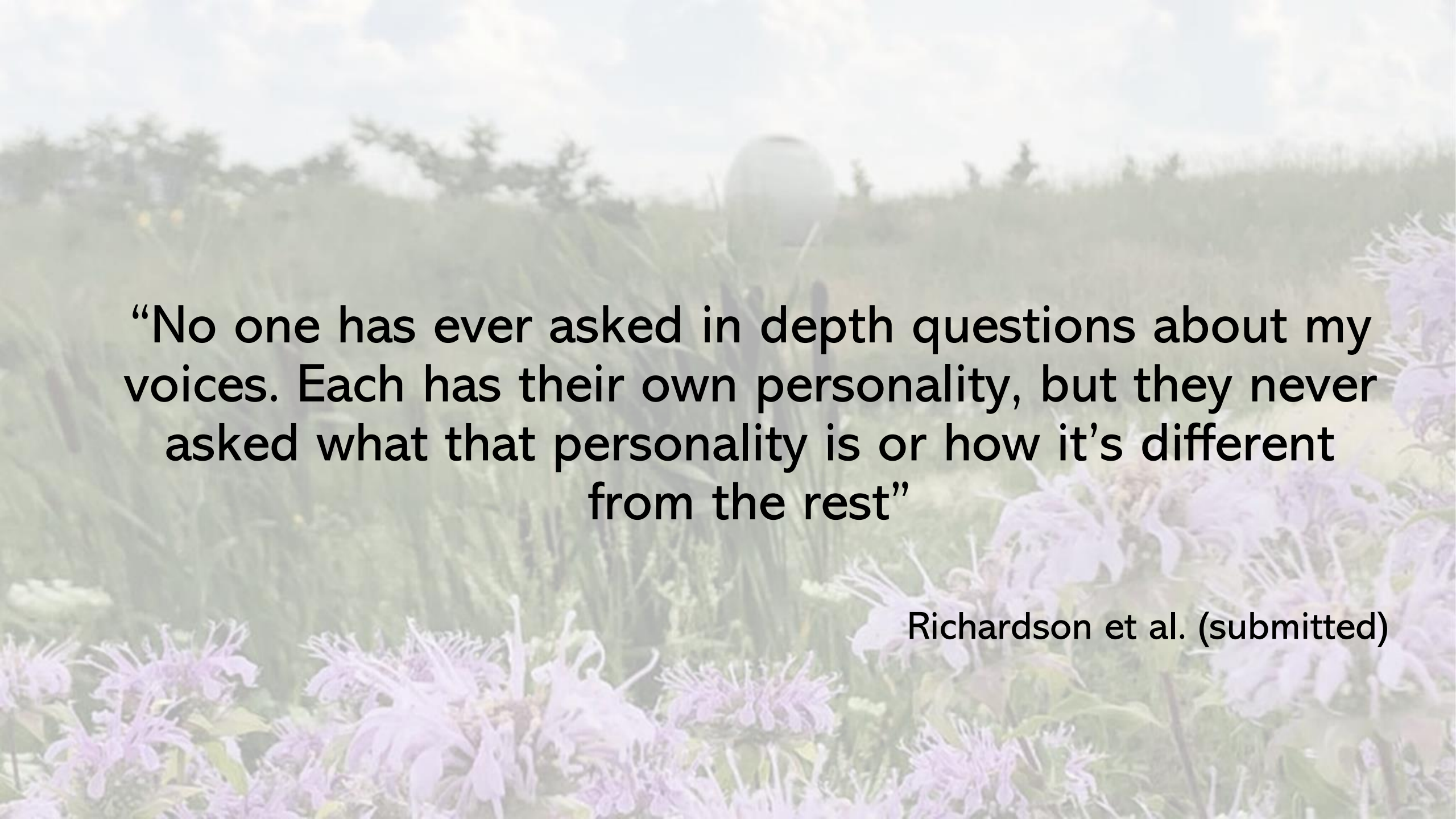
Hold for 1 month

A change of antipsychotic medication within last month



Improving frontline practice





“No one has ever asked in depth questions about my voices. Each has their own personality, but they never asked what that personality is or how it’s different from the rest”

Richardson et al. (submitted)

Hearing Voices Movement values

Schizophrenia Bulletin vol. 40 suppl. no. 4 pp. S285–S294, 2014
doi:10.1093/schbul/sbu007

Emerging Perspectives From the Hearing Voices Movement: Implications for Research and Practice

Dirk Corstens^{*1}, Eleanor Longden², Simon McCarthy-Jones^{3,4}, Rachel Waddingham⁵, and Neil Thomas^{6,7}

¹RIAGG Maastricht, Maastricht, The Netherlands; ²Institute of Psychological Sciences, University of Leeds, Leeds, UK; ³ARC Centre for Excellence in Cognition and Its Disorders, Macquarie University, Sydney, Australia; ⁴Department of Psychology, Durham University, Durham, UK; ⁵London Hearing Voices Project, Mind in Camden, London, UK; ⁶Brain and Psychological Sciences Research Centre, Swinburne University of Technology, Melbourne, Australia

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Table 1. Key Values of the Hearing Voices Movement

1. Hearing voices can be understood as a natural part of human experience
2. Diverse explanations are accepted for the origins of voices
3. Voice-hearers are encouraged to take ownership of their experiences and define it for themselves
4. Voice-hearing can be interpreted and understood in the context of life events and interpersonal narratives
5. A process of understanding and accepting one's voices may be more helpful for recovery than continual suppression and avoidance
6. Peer support and collaboration is empowering and beneficial for recovery



International Consortium on
Hallucination Research

ICHR

Challenges in engaging people

- Difficulties sharing the experience
 - Differing views of reality
 - Experiences can often be hard to put into words
 - Embarrassing, concerning or traumatic content
- Symptoms disrupting
 - Voices distracting, may verbalise messages not to engage
 - Paranoia, disorganised speech, cognitive difficulties, negative symptoms
- The practitioner and treatment system
 - We may lack of confidence in discussing, fear doing something wrong
 - Systems can channel us into symptom identification and risk management
 - Concerns about practitioner over-reaction, past negative service experiences

What do practitioners do when they interact about voices?

Theme	Example subthemes
Help person feel understood and safe to discuss voices	<ul style="list-style-type: none">• Try to help the person feel safe talking about voices• Use counselling skills; Empathy; Help feel understood• Normalise experience of voices
Explore the person's experience of voices	<ul style="list-style-type: none">• Content of voices; level; sensory characteristics• Positive experiences of hearing voices• How voices relate to broader life
Explore how the experience of voices affects the person	<ul style="list-style-type: none">• How voices make the person feel• Impact on person's life
Explore meaning associated with voices	<ul style="list-style-type: none">• Work within the person's own understanding of voices• Mixed experiences of normalising
Give information	<ul style="list-style-type: none">• As part of illness; role of stress and trauma• Distress arising from meaning attached to voices
Help the person be less impacted by voices	<ul style="list-style-type: none">• Ask how can help them• Reassure treatment options are available• Discuss coping skills; Help see voices in a different way• Assess risk and prevent harmful impact of commands

What have voice hearers found helpful?

Theme	Subthemes
Connection, understanding, listening and empathy	<ul style="list-style-type: none">• Need for a strong relationship• Empathy, listening, compassion vs dismissiveness• Whole life approach
Broader professional roles have an impact on therapeutic interactions	<ul style="list-style-type: none">• Focus on risk can undermine trust• It is risky to disclose voice hearing• Clinical environments and approaches experienced differently by individuals• Peers have an unspoken understanding
Acknowledging how real the experience is	<ul style="list-style-type: none">• Voice hearing feels very real• Validation vs invalidation of distressing voices• Believing a person's account of voice hearing
Impact of making assumptions about voice hearing	<ul style="list-style-type: none">• Voices are not always negative• Mixed experiences of normalising

What do expert practitioners rate as most important?

1. Show care, compassion, and empathy towards the person
3. Attempt to be an ally with whom the person can feel safe in discussing their experiences
4. Show a willingness to understand what the experience of hearing voices is like for the person
5. Empathise with what the person finds comforting and/or distressing about hearing voices
6. Let the person know that you take their experiences seriously
10. Take care not to make assumptions about the person's experience
14. Check with the person about what words they would like to use to refer to their experience
17. Try to ensure that the person feels heard and believed
18. Check with the person that you have understood their experience correctly
19. Make a particular effort to listen to and acknowledge the person's experiences of hearing voices
23. Be mindful of your reaction when the person discloses hearing voices, as clinicians' responses may influence future disclosure
25. When normalising the experience of hearing voices, take care not to trivialise how distressing it may be for the person
38. Ask about how the voices impact on the person's life and day-to-day functioning
39. Explore how the voices make the person feel
44. Take care not to question the authenticity of the person's experience
57. Invite the person to share their thoughts and beliefs about the voices
69. Ask how the person would like you to help them
82. Explore what the person currently does to cope with their voices
88. Validate how distressing the person finds their voices







AMETHYST
THERAPIES FOR VOICE HEARING

**AUSTRALIA WIDE
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amethyst@swin.edu.au

03 9214 4365

voicetherapy.com

Referral and self registration forms

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