

Trial of improvisational music therapy's effectiveness for children with autism

Submission date 18/06/2011	Recruitment status No longer recruiting	<input checked="" type="checkbox"/> Prospectively registered
		<input checked="" type="checkbox"/> Protocol
Registration date 04/08/2011	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan
		<input checked="" type="checkbox"/> Results
Last Edited 12/10/2017	Condition category Mental and Behavioural Disorders	<input type="checkbox"/> Individual participant data

Plain English summary of protocol

Background and study aims

Autism spectrum disorders (ASDs) involve impairments or delayed development in social interaction and communication skills. A wide range of different approaches have been used to help children with ASD develop these skills. However, there is little evidence of effectiveness for most of these methods. Music therapy has been used to treat ASD for a long time, and there are many studies suggesting that music therapy may enhance social communication skills. The aim of this study is to find out about the effects of improvisational music therapy on the social communication skills of children with ASD. Additional aims are to examine if changing the number of music therapy sessions per week affects the outcome of therapy, and to determine cost-effectiveness.

Who can participate?

Children aged between 4 years and 6 years 11 months diagnosed with ASD. Participating children must not be affected by serious sensory disorders (blindness, deafness) and must not have received music therapy in the last 12 months

What does the study involve?

Participants are randomly allocated to one of three groups:

1. High-intensity music therapy (improvisational music therapy sessions three times per week for five months, and three sessions of parent counselling).
2. Low-intensity music therapy (improvisational music therapy sessions once a week for five months, and three sessions of parent counselling).
3. Standard care (three sessions of parent counselling).

Improvisational music therapy is a flexible, child-centred method where a trained therapist reacts musically to the child's (musical or other) behaviour and expression and uses various improvisational techniques to engage the child, establish contact, and enter a dialogue with him/her. While engaging in joint musical activities within a shared history of interaction, the child is offered opportunities to develop and enhance skills that are associated with later development in language and social competency.

What are the possible benefits and risks of participating?

There are no direct benefits or risks involved with participating in this study.

Where is the study run from?

Uni Research Health, The Grieg Academy Music Therapy Research Centre (GAMUT), Bergen (Norway)

When is the study starting and how long is it expected to run for?

August 2011 to December 2016

Who is funding the study?

1. The Research Council of Norway (Norway)
2. POLYFON Knowledge Cluster for Music Therapy, The Grieg Academy Department of Music, University of Bergen (Norway)
3. Melbourne Conservatorium of Music, The University of Melbourne (Australia)
4. Danish Council for Independent Research/Humanities (FKK) (Denmark)
5. Doctoral Programme in Music Therapy, Aalborg University (Denmark)
6. Faculty of Psychology, University of Vienna (Austria)
7. Research Incentive Fund (FIPE) of the Hospital de Clínicas de Porto Alegre (HCPA) (Brazil)
8. IRCCS Stella Maris Foundation, Pisa (Italy)
9. University of Pisa (Italy)
10. Research Institute of Health and Science, Jeonju University (Korea)
11. Health Authority of Western Norway (Norway)
12. Bergen municipality, Bergen culture school (Norway)
13. Fjell municipality, Fjell culture school (Norway)
14. National Institute for Health Research (UK)
15. Cambridge and Peterborough Foundation NHS Trust (UK)
16. The Evelyn Trust (UK)
17. Cambridgeshire Music (UK)
18. Anglia Ruskin University (UK)
19. Molloy College (USA)
20. Mid-Atlantic Region of the American Music Therapy Association (USA)

Who is the main contact?

Prof. Christian Gold
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Contact information

Type(s)

Scientific

Contact name

Prof Christian Gold

Contact details

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Additional identifiers

Protocol serial number

N/A

Study information

Scientific Title

Randomised controlled Trial of Improvisational Music therapy's Effectiveness for children with Autism spectrum disorders (TIME-A)

Acronym

TIME-A

Study objectives

Music therapy is superior to standard care in improving social communicative skills in children with autism spectrum disorders (ASD) as assessed by blinded clinicians at the end of the treatment period

Secondary hypotheses

1. Music therapy is superior to standard care in improving social responsiveness in children with ASD as assessed by parents/guardians at the end of the treatment period
2. Change in social communicative skills and social responsiveness varies with variation of treatment intensity
3. Changes in social communicative skills and social responsiveness are sustained until seven months after ending of treatment

Ethics approval required

Old ethics approval format

Ethics approval(s)

Approval by the responsible ethics committees will be secured before the start of participants enrolment at each site

Study design

Multi-centre three-arm single (rater) blind randomised controlled trial of intervention

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Autism spectrum disorders

Interventions

1. Individual improvisational music therapy over a period of 5 months, one session (low-intensity) or three sessions (high-intensity) per week
2. Standard care in all treatment arms: 3 sessions of parent counselling at 0, 2, and 5 months

Intervention Type

Other

Phase

Not Applicable

Primary outcome(s)

Autism Diagnostic Observation Schedule (ADOS) Social Affect score at 5 months

Key secondary outcome(s)

1. ADOS at 2 and 12 months
2. ADOS subscales: Communication, Reciprocal Social Interaction, Imagination/Creativity, Stereotyped Behaviors and Restricted Interests, at 2, 5, and 12 months
3. Social Responsiveness Scale (SRS) as rated by parents/guardians at 2, 5, and 12 months
4. SRS subscales: Social Awareness (receptive aspects of social behavior), Social Cognition (social information processing), Social Communication (capacity for reciprocal social communication), Social Motivation (social anxiety/avoidance), Autistic Mannerisms (autistic preoccupations and traits)
5. Cost-effectiveness ratios and incremental cost-effectiveness ratios for the different alternatives (Cost will be measured as real resources used in treatment, in terms of personnel hours of work; effectiveness is measured by ADOS)

Added 05/06/2017:

6. Ratings of quality of life of the child and of the family as a whole, respectively, at 2, 5 and 12 months
7. Adverse events
8. Binary analysis of proportion of participants who improved on the primary outcome

Completion date

31/12/2016

Eligibility**Key inclusion criteria**

1. Aged 4 years to 6 years, 11 months
2. With a diagnosis of autism spectrum disorder according to ICD-10 criteria as assessed by a child psychiatrist or clinical psychologist; diagnosis of ASD needs to be reconfirmed in the baseline assessment with children fulfilling diagnostic criteria for ASD on both the Autism Diagnostic Observation Schedule (ADOS) and the Autism Diagnostic Interview-Revised (ADI-R)

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Child

Lower age limit

4 years

Upper age limit

6 years

Sex

All

Key exclusion criteria

1. Children with serious sensory disorders (blindness, deafness)
2. Children who have had any previous experience of music therapy

Date of first enrolment

01/11/2011

Date of final enrolment

10/11/2015

Locations**Countries of recruitment**

United Kingdom

Australia

Austria

Brazil

Israel

Italy

Korea, South

Norway

United States of America

Study participating centre

Grieg Academy Music Therapy Research Centre (GAMUT)

Bergen

Norway

5015

Sponsor information

Organisation

GAMUT - The Grieg Academy Music Therapy Research Centre

ROR

<https://ror.org/03zga2b32>

Funder(s)

Funder type

Research council

Funder Name

Norges Forskningsråd

Alternative Name(s)

Forskningsrådet, Norwegian Research Council, Research Council of Norway, The Research Council of Norway

Funding Body Type

Government organisation

Funding Body Subtype

National government

Location

Norway

Funder Name

Universitetet i Bergen

Alternative Name(s)

University of Bergen, UiB

Funding Body Type

Government organisation

Funding Body Subtype

Local government

Location

Norway

Funder Name

University of Melbourne

Alternative Name(s)

University of Melbourne in Australia, The University of Melbourne, Melbourne University, UNIMELB

Funding Body Type

Government organisation

Funding Body Subtype

Universities (academic only)

Location

Australia

Funder Name

Det Frie Forskningsråd

Alternative Name(s)

Danish Council for Independent Research, Independent Research Fund Denmark, Det Frie Forskningsrad, DK Frie Forsk.fond, DFF

Funding Body Type

Government organisation

Funding Body Subtype

National government

Location

Denmark

Funder Name

Aalborg Universitet

Alternative Name(s)

Aalborg University, AAU

Funding Body Type

Private sector organisation

Funding Body Subtype

Universities (academic only)

Location

Denmark

Funder Name

Universität Wien

Alternative Name(s)

University of Vienna, univienna

Funding Body Type

Government organisation

Funding Body Subtype

Universities (academic only)

Location

Austria

Funder Name

Hospital de Clínicas de Porto Alegre

Alternative Name(s)

Hospital of Clinics of Porto Alegre, Hospital de Clínicas, Porto Alegre, HCPA

Funding Body Type

Government organisation

Funding Body Subtype

Universities (academic only)

Location

Brazil

Funder Name

IRCCS Stella Maris Foundation, Pisa

Funder Name

Università di Pisa

Alternative Name(s)

Università degli Studi di Pisa, Universidad de Pisa, University of Pisa, UniPi

Funding Body Type

Government organisation

Funding Body Subtype

Universities (academic only)

Location

Italy

Funder Name

Jeonju University

Alternative Name(s)

JJ

Funding Body Type

Private sector organisation

Funding Body Subtype

Universities (academic only)

Location

Korea, South

Funder Name

Helse Vest

Alternative Name(s)

Western Norway Regional Health Authority, WNRHA, Helse Vest Regionalt Helseføretak, Helse Vest RHF

Funding Body Type

Government organisation

Funding Body Subtype

Local government

Location

Norway

Funder Name

Bergen municipality, Bergen culture school

Funder Name

Fjell municipality, Fjell culture school

Funder Name

National Institute for Health Research

Alternative Name(s)

National Institute for Health Research, NIHR Research, NIHRresearch, NIHR - National Institute for Health Research, NIHR (The National Institute for Health and Care Research), NIHR

Funding Body Type

Government organisation

Funding Body Subtype

National government

Location

United Kingdom

Funder Name

Cambridge and Peterborough Foundation NHS Trust

Funder Name

Evelyn Trust

Alternative Name(s)**Funding Body Type**

Private sector organisation

Funding Body Subtype

Other non-profit organizations

Location

United Kingdom

Funder Name

Cambridgeshire Music

Funder Name

Anglia Ruskin University

Alternative Name(s)**Funding Body Type**

Private sector organisation

Funding Body Subtype

Universities (academic only)

Location

United Kingdom

Funder Name

Molloy College

Funder Name

American Music Therapy Association

Alternative Name(s)

American Music Therapy Association, Inc., AMTA

Funding Body Type

Government organisation

Funding Body Subtype

Associations and societies (private and public)

Location

United States of America

Results and Publications

Individual participant data (IPD) sharing plan

The datasets generated during and/or analysed during the study will be stored in a publically available repository (NSD - Norwegian Centre for Research Data, <http://www.nsd.uib.no/nsd/english/index.html>).

IPD sharing plan summary**Study outputs**

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article	results	01/06/2015		Yes	No

Results article	pilot cohort results	01/06/2016		Yes	No
Results article	results	08/08/2017		Yes	No
Protocol article	protocol	05/01/2012		Yes	No
Other publications	editorial	08/08/2017		Yes	No
Study website	Study website	11/11/2025	11/11/2025	No	Yes