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Schizophrenia and personality disorder patients’ adherence to music therapy

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Background: Music therapy is used in psychiatric treatment of severe psychiatric conditions such as schizophrenia, depression and personality disorder. Aim: To investigate adherence and predictors for adherence to music therapy treatment in patients diagnosed with schizophrenia or personality disorder. Method: Demographic, psychiatric and therapeutic data were collected for 27 patients receiving music therapy treatment over a 1-year observation period and a 1-year follow-up period. Predictors for adherence to music therapeutic treatment were determined by means of regression analysis. Results: Drop-out from treatment was low (11.5%) and none of the variables significantly predicted adherence. Lack of significance may be because of type 2 error. Conclusion: Patients with severe mental disorder may adhere to music therapy treatment.

Music therapy with a psychodynamic and relationally orientated approach to treatment is comprised of musical and verbal interventions that are used to create the necessary conditions for psychological change and support. Music therapy requires no musical skills from the patient. The interventions include active and/or receptive music therapy techniques (1). Active music therapy techniques involve the client in making music and may include musical improvisation (2), musical composition such as songwriting (3) or musical performance. Receptive music techniques include listening and responding to music, which is sometimes chosen by the patient or at other times by the therapist (4). Music therapists in psychiatry in Denmark often combine active and receptive techniques depending on the patient’s needs and the goals of the treatment (5).

Music therapy may be used to treat severe psychiatric conditions such as acute psychosis, schizophrenia (6), depression (7–9) and personality disorder (10, 11). In Denmark, music therapy is most frequently used in treatment of patients with schizophrenia and personality disorders.

A dose–response relationship has been documented when music therapy is compared with standard treatment, with dose defined as number of sessions (12). Music therapy has been shown to affect the global state, general symptoms, negative symptoms, depression, anxiety, functioning and musical engagement; large effect sizes have been shown after 16–51 sessions (12). Music therapy can be an effective treatment for people with severe psychotic and non-psychotic mental disorders and may help to improve the global state, symptoms and functioning (12).

Aims
To investigate adherence to treatment for all patients receiving music therapy in three Danish psychiatric centres, the authors defined adherence to treatment as staying in treatment as long as agreed upon. There was no lower limit to how many sessions were required. Dropout was used as an indicator of lack of adherence to treatment.

Material and methods
The researchers reviewed medical records of all patients who began music therapy treatment in the years 2005–2006 in this 1-year follow-up study. The medical team
referred most patients to music therapy; the remaining patients referred themselves. Each institution had individual referral procedures. Data recording procedures did not register specific indications for music therapy treatment, but the data distinguished between patients who had specific reasons for referral to music therapy treatment and those who had no specific reason for referral.

The project was approved by the Danish Data Surveillance Agency. Since only treatment records were used, the project is not within the Danish law of scientific ethical committees.

The following data were collected: demographic variables (age, gender, occupation and level of education), psychiatric variables (diagnosis, medical treatment at treatment start and ending, patient status at treatment start and ending, narco-curare-electroshock therapy treatment) and therapeutic variables (prior therapeutic experience, prior music therapy experience, concurrent therapy, therapy setting, assessment of treatment suitability, specific referral criteria, number of sessions, number of cancelled sessions). The therapist also assessed whether the patients became acquainted with music as a treatment tool and whether they could formulate treatment goals at the end of treatment. For the ease of data collection, data were dichotomised at a low level of detail. There was no assessment of function level (GAF) or registration of co-morbidity.

Clinical staff in the psychiatric departments at Horsens Hospital, Aalborg Psychiatric Hospital and the Centre for Social Psychiatry (Marielund, Kolding) referred participants to music therapy. Treatment settings included open wards, closed wards and day treatment wards/facilities. There were no external benefits, such as special privileges for the patients participating in the music therapy treatment, other than the treatment itself.

Inclusion criteria were all patients who: 1) began music therapy treatment in the period; 2) had an ICD 10 diagnosis and had either an F2 or an F6 diagnosis; and 3) were suitable or possibly suitable for treatment. Exclusion criteria were all patients who: 1) were in treatment when the observation period began; 2) had a diagnosis other than F2 or F6; 3) were unsuitable for treatment; and 4) were in a one-session treatment setting. Of 50 patients who were in music therapy during the study period, researchers excluded 23, and included 27 who initiated treatment during the study period. They were diagnosed with schizophrenia ($n = 10$) or personality disorder ($n = 17$). Of these, 12 were male, and 15 were female. Seven had education beyond public school and only one was employed during the period studied. Participants ranged in age from 19 to 59, with an average age of 30 years. The majority ($n = 24$) were outpatients at the onset of the study, although two were hospitalized during the observation period. Most ($n = 22$ at the beginning, $n = 24$ at the end) were receiving medication. The average dose of music therapy treatment was 18 sessions (standard deviation, $s = 5.5$); and most patients ($n = 20$) received group sessions, whereas only seven received individual music therapy. The group size for patients with personality disorder was between five and seven participants. The group size for patients with schizophrenia was smaller, but the actual size was not included in the data. A total of four patients with schizophrenia received group music therapy in all.

Patients cancelled their sessions 18% of the time. Among those included in the study, 52% of the patients were able to formulate treatment goals during the music therapy and 85% became acquainted with music as treatment.

The study used Fisher’s test to explore the associations between adherence and other variables. A multiple regression analysis sought predictors for non-adherence to treatment. Variables used as predictor variables in the regression analysis included gender, age, education, employment, diagnosis, patient status at start and end of treatment, medication at start and end of treatment, prior therapeutic experience with either verbal and music therapy, concurrent therapy, reason for referral, specification of treatment goals, therapeutic setting, treatment suitability, treatment longer than 20 sessions, and familiarity with music as treatment. The analyses did not control for psychiatric facility neither for therapist providing treatment because of limited sample size.

**Results**

In total, 24 patients remained in treatment and three dropped out. Adherence to treatment was 90% for patients with schizophrenia and 87% for patients with personality disorder. None of the variables predicted adherence significantly.

**Discussion**

The study is a naturalistic follow-up study investigating adherence and identifying predictors for adherence. The findings suggest that it is possible for patients with severe psychiatric illnesses to adhere to music therapy treatment in a psychiatric institution. The findings differ from other non-music therapy studies that find low adherence and high drop-out from psychiatric treatment (13–16). Whether this high level of adherence to treatment is related to music therapy as an intervention, other factors or a combination is not clear.

One recent study describing day treatment for patients with personality disorders (group, individual, group music therapy, cognitive psychotherapy, and drawing therapy) showed that adherence to treatment also may be possible for patients with personality disorder when the approach is intensive psychotherapeutic treatment (17).
The authors reported that 82% of patients with personality disorder remained in treatment. Adherence to music therapy treatment in this study suggests that the patients may have developed an alliance to the music therapists. Piper et al. (18) reported that drop-out from treatment was related to a weaker alliance, less work, less exploration and greater focus on transference. Johansson & Eklund (19) investigated the development of the helping alliance and early drop-out from psychiatric out-patient care and concluded that factors related to the interpersonal processes seemed important in establishing alliance and for predicting early drop-out. They hypothesised that it is not the general severity of problems that has the highest impact on the establishment of helping alliance. Their multivariate analysis showed that low levels of the cold/distant factor and high levels of motivation and interpersonal sensitivity on the part of the client were important in establishing helping alliance. The most essential variable was the alliance as perceived by the patient. They also showed through logistic regression analysis that low helping alliance, low age and high levels of cold/distant factor predicted early drop-out (19).

The findings in the present study indicate that an alliance may be possible despite general severity of illness, as the population in this study had severe problems of both psychotic and non-psychotic nature. Previous research has shown music therapy to be a means to develop alliance to treatment in patients who abuse alcohol and drugs (20, 21).

The study is limited by the small sample size. This together with the skewed distribution of outcome (24 adherent patients and three drop-outs) may explain the non-significant findings in the predictor analyses for drop-out. The data collected did not include information about some possible confounding variables, such as comorbidity and self-referral. Also the phenomenon of adherence is seen only from a quantitative perspective and not through a qualitative investigation of the experience of the adherence to music therapy treatment.

This study suggests some specific characteristics as indicators for drop-out from music therapy that need to be investigated in multicentre studies with a larger sample such as length of treatment, prior music therapy experience, gender and occupational status. These parameters need to be invested as possible predictors for no adherence to treatment in future research.

Moreover, the study shows that adults in psychiatric treatment for mental disorders may adhere to music therapy treatment. Researchers should conduct further research on a large scale targeting specific patient populations and treatment settings. Such research should also include treatment specific variables such as change or decrease in symptoms, increase of function and cost-benefit parameters such as length of hospitalisation and need for support.

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