



# Severity of core symptoms in first episode schizophrenia and long-term remission



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## ABSTRACT

A definable concept of symptomatic remission in schizophrenia has been proposed by the Remission in Schizophrenia Working Group (RSWG). Nevertheless no studies to date assessed eventual differences in core symptoms at onset between remitters and non-remitters. The present study evaluated whether the severity of core symptoms differed among 48 patients with first episode schizophrenia (FES), and whether it predicted long-term (16-years) remission. Particularly, the present study aimed to verify if RSWG remission criteria might identify a sub-group of patients with mild core symptoms at their first episode. In the present study the severity of core symptoms was significantly lower in remitted than in non-remitted patients; interestingly, five out of the eight core symptoms already satisfied the severity criteria for remission in most remitted patients. Among the core symptoms only the severity of social withdrawal predicted the long-term outcome, while age at onset, duration of untreated psychosis and employment status did not exert any effect. Concluding, patients with FES presenting, mild core symptoms, particularly low negative symptoms, were more likely to reach long-term remission. Therefore, RSWG remission criteria seem to identify a subgroup of FES patients with mild severe core symptoms so with a higher probability to reach remission.

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## 1. Introduction

Since the description of dementia praecox (Kraepelin, 1899), schizophrenia has been conceptualized as a chronic illness and remission has long been considered largely impossible, with the consequence that diagnosis and prognosis were viewed as essentially the same (McGlashan, 2008). However, in the recent years the Remission in Schizophrenia Working Group (RSWG) (Andreasen et al., 2005) posited that “symptomatic remission is a definable concept and an achievable stage in the treatment of schizophrenia” and proposed criteria for symptomatic remission. According to such criteria, remission is defined as: “a state in which patients have experienced an improvement in core symptoms, to the extent that these symptoms no longer interfere significantly with daily life”. Core symptoms are those perceived as diagnostically characteristics for the condition, and eight items of the Positive and Negative Syndrome Scale (PANSS) were

proposed for their evaluation. Remission is achieved if all eight items are rated as mild (Andreasen et al., 2005).

According to these criteria a substantial proportion of patients with schizophrenia (45–70%) (Lambert et al., 2010) can be defined as remitters at some point during the course of their illness. However, patients who eventually reach the RSWG remission condition may be highly heterogeneous. For instance, remitted patients could have shown, at illness onset, a different severity of the core symptoms when compared to patients who will not achieve remission, even though no studies have specifically investigated this topic.

Therefore, the present study aimed to evaluate whether 1) patients with first episode schizophrenia (FES) who gained remission after several years of illness differed from non-remitters with respect to the severity of the core symptoms, and 2) which of the core symptoms predicted long-term remission. Particularly, we aimed to verify if RSWG remission criteria identified a sub-group of patients with mild core symptoms at their first episode.

## 2. Methods

The study protocol was approved by the local ethic committee. This study is a part of a more extensive evaluation of outcome in patients with a first psychotic

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episode and data on long-term outcome have been already published (Marchesi et al., 2014).

### 2.1. Sample

The study participants were recruited from patients who were consecutively admitted to the Psychiatric Clinic of the University of Parma, from January 1995 to December 1999, for the first psychotic episode. A physician or a psychiatrist requested the admission for the onset of delusions, hallucinations or behavior disorganization.

Patients were included in the study if: 1) they were aged over 17 years; 2) they were hospitalized for the first time in a psychiatric unit for a first psychotic episode; 3) they were discharged with a diagnosis of Schizophrenia, according to the DSM-IV; 4) they accepted to be re-evaluated after many years from the index admission; and 5) they gave a written informed consent during the index hospitalization.

Patients were excluded from the study if: 1) they were affected by drug abuse or drug dependence, delirium, mental retardation or organic mental disorders; 2) they were previously treated with psychotropic medication; 3) they did not assure treatment adherence or they discontinued the treatment program after discharge from hospital for more than two consecutive visits (see follow-up evaluation).

### 2.2. Assessment

#### 2.2.1. Baseline assessment

The baseline evaluation was carried out within the first week of hospitalization. Socio-demographic variables recorded at baseline were: age, gender, years of education, marital and employment status, housing situation, age at onset of schizophrenia and the time passed from the onset of psychotic symptoms or behavioral changes to the time of hospitalization (i.e., when patients received treatment for the first time).

The diagnosis of schizophrenia was assessed by means of the Structured Clinical Interview for Axis I DSM-IV disorders, carried out by trained psychiatrists.

Symptom severity was measured with the Positive and Negative Syndrome Scale (PANSS).

#### 2.2.2. Follow-up evaluation

After hospital discharge, patients accessed to continuous and, reasonably comprehensive, public mental health services (Amaddeo et al., 2012), where they attended nearly monthly visits.

During each visit their psychopathological condition, treatment adherence, medications prescription, and use of illicit drugs were clinically monitored and these data were freely accessible from the therapists over the 16 year follow-up.

Patients were re-examined in 2010 by a psychiatrist, blind to the baseline evaluation. The follow-up assessment consisted in the administration of SCID-I and PANSS. After eight months the patients were re-evaluated with the PANSS in order to determine whether the time criterion of 6 months requested by RSWG for remission was satisfied. Only after the follow-up assessment, patients were defined in remission (R) or in non-remission (NR), according to both severity and time criteria proposed by the RSWG.

### 2.3. Treatment

All patients received antipsychotic medications. In the effort to maximize treatment adherence, a medication control by relatives was recommended and the count of pills was performed at any time the medication was prescribed. The use of long-acting compounds was proposed to patients who did not assure treatment adherence.

### 2.4. Data analysis

Before the start-up of the study and the follow-up evaluations an inter-rater reliability was calculated for the diagnosis of schizophrenia (baseline:  $k=0.92$ ; follow-up:  $k=0.95$ ) and for the PANSS core symptoms scores (baseline:  $k=0.72-0.86$ ; follow-up:  $k=0.73-0.90$ ).

The clinical and socio-demographic features were compared in R and in NR using two-tailed Student's *t*-test for continuous variables and Fischer's exact test for categorical variables.

Lastly, a logistic regression analysis (a stepwise method) was applied to evaluate whether core symptoms severity at baseline together with gender, age at onset, DUP and working status (independent variables) predicted the remission status at follow-up (dependent variable: R vs NR).

The statistical software IBM SPSS Statistics 20 version was used for the analyses. Statistical significance was set at the level of  $p \leq 0.05$ .

## 3. Results

### 3.1. Sample

During the period of recruitment, 75 patients with FES were consecutively admitted to the Psychiatric Clinic. Twenty-seven patients were not included in the study: eight were lost at follow-up; three refused to be re-evaluated; 16 were non-adherent to the monthly visits or treatment and therefore they were excluded from the study. The remaining 48 patients participated in the study and were re-evaluated in 2010.

The SCID-IV re-administration confirmed the diagnosis of schizophrenia in all 48 patients. None of them was using illicit drugs.

Eighteen patients (37.5%) satisfied the remission RSWG criteria (R), while the remaining 30 patients (62.5%) did not (NR). Among remitted patients, three of them (16.7%) were in complete symptomatic recovery, nine (50%) showed minimal symptom severity and six (33.3%) had mild symptom severity at follow-up.

The socio-demographics and clinical features at baseline were reported in Table 1.

At the follow-up R and NR patients showed similar age (R:  $40.5 \pm 9.8$  yrs; NR:  $44.8 \pm 11.7$  yrs) ( $t=1.3$ ;  $p=0.19$ ) and duration of illness (R:  $16.0 \pm 4.8$  yrs; NR:  $16.3 \pm 5.1$  yrs) ( $t=0.1$ ;  $p=0.85$ ), while the number of psychotic episodes requiring hospitalization were higher in NR ( $3.6 \pm 1.0$ ) than in R ( $2.2 \pm 0.6$ ) ( $t=4.7$ ;  $p < 0.001$ ).

### 3.2. Core symptoms severity

At baseline, the severity of core symptoms was lower in R than in NR (Table 1). Furthermore, the severity criterion for remission (item score  $\leq 3$ ) was already satisfied for unusual thought content, blunted affect and social withdrawal more frequently in R than in NR patients. Lastly, five out of the eight core symptoms already satisfied the severity criterion for remission in most R patients ( $n=11$ ; 61%) but only in a minority of NR patients ( $n=3$ ; 10%).

### 3.3. Core symptoms severity and prediction of remission

At baseline, among the core symptoms only the severity of social withdrawal predicted the long-term outcome: this core symptom was negatively associated with remission status at follow-up ( $\beta = -2.1$ ; wald=11.7; OR=0.11; CI 95%=0.03–0.040;  $p=0.001$ ). Moreover, gender, age at onset, DUP and working status did not exert any effect on long-term symptomatic remission.

## 4. Discussion

In the present study patients with schizophrenia were evaluated with the PANSS at their first episode of illness and 16 years thereafter.

At the time of their first episode of illness, patients who reached remission during the follow-up (R patients), showed a lower severity of almost all core symptoms than NR; in fact, only the severity of hallucinations and conceptual disorganization was comparable in R and in NR. Interestingly, if applying the severity criteria of the RSWG at the first episode, most of the core symptoms (unusual thought content, mannerisms, conceptual disorganization, blunted affect and social withdrawal) would have already satisfied such criteria in the majority (50–88%) of R patients, whereas only mannerism would have satisfied this criterion in most (53%) NR. In other words, in R patients the first episode was mainly characterized by delusions, hallucinations and

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