

Universitätsklinik im Hamburg-Ospendurf

**Treatment:** 

Rating-scales:

**Results:** 

allowed as comedication.

# Gender-specific effects in the treatment of acute schizophrenia with risperidone

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Positive and Negative Syndrome Scale

(PANSS), Clinical Global Impression of

performed on days 0, 1, 3, 7, 14, 21 and 28.

25 males and 23 females participated in this

open-label observational study. Patients were

diagnosed with schizophrenia (n = 40),

phreniform disorder (n = 3).

schizoaffective disorder (n = 5) or schizo-

Table 1 shows the demographic information

for the male and female participants in our

study. While females were older and treated

Severity (CGI-S) and Clinical Global Impression of Improvement (CGI-I) were

# Introduction:

The 'one hat fits all' approached has been abandoned in modern psychopharmacology. A treated with risperidone 2 - 4 mg b.i.d. variety of different variables including gender, Benzodiazepines and anticholinergics were ethnic background, body-composition and genetics should be taken into consideration when a pharmacological treatment is planned. The importance of gender for treatmentplanning in schizophrenia was emphasized by a recent review1.

Atypical antipsychotics have an established role in the treatment of schizophrenia and have proven superiority to typical antipsychotics in terms of tolerability and efficacy. We recently published a study demonstrating the efficacy of the atypical antipsychotic risperidone in the management of acute psychotic decompensations2. We now present a reanalysis of the clinical data to assess the effects of gender on treatment and outcome.

# **Methods:**

From December 2000 until June 2002, we screened all admissions to the secure unit for possible inclusion in this observational study. The following inclusion- and exclusioncriteria were used:

#### Inclusion-criteria:

- Diagnosis of schizophrenia, schizoaffective disorder or schizophreniform disorder
- Minimum age 18 years
- Minimum-score of " 4 on two items of the positive symptom subscale of the PANSS (Positive and Negative Symptom Scale)
- Antipsychotic treatment clinically required

#### **Exclusion-criteria**:

- Acute intoxication
- last three months
- Prior non-response to risperidone
- Refusal to be treated with risperidone
- Acute suicidal ideation
- Acute administration of intramuscular antipsychotics
- Use of other antipsychotics

- Medical or neurological problems that

require immediate intervention

Figure 1: CGI-S change under treatment On admission, all eligible subjects were with risperidone

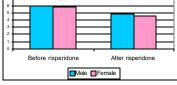
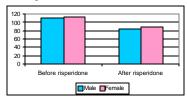


Figure 2: Change in PANSS total score under risperidone



#### Table 2: Discontinuation rates

	Males	Female	es
Im-Injection	3	5	
Switch to clozapine	4	2	
Switch to another AF	P 1	3	
Combination treatme	ent 0	1	
Side-effects	0	1	
Noncompliance	0	2	

# **Conclusions:**

While we found no significant differences in clinical ratings between males and females in the treatment of acute psychotic episodes with risperidone, significantly more females discontinued this treatment. To our surprise, females were treated with slightly higher average doses than males. While the reasons for the better outcome in males are not clear, our results suggest that risperidone may be more beneficial in males for the treatment of acute schizophrenia. Therefore, gender should be taken into consideration when planning antipsychotic treatment.

1Seeman MV. Gender differences in the prescribing of Section AV, Jedice unrefleces in une preschollig of antipsychotic drugs. An J Psychiatry 2004;161:1324-1333.
'Raedler TJ, Schreiner A, Naber D, Wiedemann K, Risperidone in thetreatment of acute schizophrenia. J Clin Psychopharmacol 2004;24:335-538.

with higher doses of antipsychotics, both samples did not differ significantly in any of the demographic variables (all p > 0.10).

Table 1: Demographic information			
	Males	Females	
n:	25	23	
Age:	$34.0\pm12.6~y$	$40.0\pm13.7\;y$	
Duration:	$13.4 \pm 9.2 \text{ d}$	$13.3\pm10.4~d$	
Max. dose:	$5.9 \pm 1.4$ mg/d	$6.3 \pm 1.4$ mg/d	
Final dose:	$5.6 \pm 1.6$ mg/d	$5.8\pm1.5\ mg/d$	

#### **Clinical ratings:**

Both males and females improved significantly under treatment with risperidone (all p < 0.01). Males and females did not differ significantly in any of the clinical ratings at baseline or after treatment with - Alcohol- or substance dependence within the risperidone. Figure 1 shows the CGI-ratings and Figure 2 the PANSS total score before and after treatment with risperidone.

# **Discontinuation rates:**

Significantly more females (n = 14) than males (n = 8) discontinued treatment with risperidone ( $X^2 = 4.02$ ; df = 1; p < 0.05). The reasons for discontinuation are listed in table