Persistence with Selective Serotonin (Norepinephrine) Reuptake Inhibitors in Germany

IMS Health & Quintiles are now $\equiv |Q \vee | \Lambda$

%

11.7%

12.5%

19.3%

25.7%

12.6%

11.3%

6.9%

48.3%

25.9%

25.8%

53.0 (17.4)

53 (41-64)

125 140

138 265

211 615

269 145

157 586

178 777

132 816

608 345

304 890

300 109

55.9 (18.5)

55 (43-71)

10.3%

11.4%

17.4%

22.2%

13.0%

14.7%

10.9%

50.1%

25.1%

24.7%

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Introduction

- Depression is common health issue in Germany, with an overall prevalence • of 8.1 patients per 100 persons (¹)
- Selective serotonin (norepinephrine) reuptake inhibitors (ss(n)ri) are used as a first-line treatment for depression $(^{2,3})$.
- Several guideline recommend that pharmaceutical treatment should be continued after the acute phase of disease has passed, to prevent recurring episodes in the future, especially when patients are at risk of recurrences (²).
- Multiple studies have shown that persistence is lower than the recommendations, with between 30% and 50% of patients discontinuing treatment in the first month, and 60-80% of patients discontinuing in the first 6 months (⁴⁻⁶).

Objectives

• The aim of this study was to investigate the persistence with SS(N)RI) in Germany, comparing outpatients treated by general practitioners (GPs) or by neurologists/psychiatrists (NPs) in this country.

Methods

Data source

Duloxetine Escitalopram	51 011 94 657	7.3% 13.5%	51 886 93 366	10.2% 18.3%	102 897 188 023	8.5% 15.5%	
Fluoxetine	28 750	4.1%	35 079	6.9%	63 829	5.3%	
Fluvoxamine	580	0.1%	999	0.2%	1 579	0.1%	
Paroxetine	27 039	3.9%	24 348	4.8%	51 387	4.2%	
Sertraline	60 025	8.5%	84 792	16.6%	144 817	11.9%	
Venlafaxine	72 554	10.3%	70 607	13.8%	143 161	11.8%	
Other antidepressant pre-							
index							
Yes	53 153	7.6%	86 654	17.0%	139 807	11.5%	
No	649 601	92.4%	423 936	83.0%	1 073 537	88.5%	
100 (%) 75 50 50 50 100 100 100 100 100	— GPs — NPs		100- 6 7 5- 6 7 5- 5 0-			— Females — Males	

Table 1. Baseline characteristics

Age

<30 years

31-40 years

41-50 years

51-60 years

61-70 years

71-80 years

>80 years

Mean (SD)

Gender

Female

Unknown

Male

nitial drug

Median (IQR)

GPs

58.0 (19.0)

57 (44-75)

%

9.3%

10.6%

16.1%

19.6%

13.3%

17.3%

13.9%

51.4%

24.6%

24.0%

Ν

65 407

74 218

113 076

137 781

93 307

121 236

97 729

361 732

172 551

168 471

Ν

59 733

64 047

98 539

131 364

64 279

57 541

35 087

246 613

132 339

131 638

- The IMS® LRx database served to identify eligible patients
- Contains around 60% of prescriptions reimbursed by statutory health insurance funds
- Reflects the actual dispensation of drugs
- Full product information and prescription information are available •

Study population

Inclusion	Exclusion			
 Initial SS(N)RI Rx between January 2014 and December 2016 	x Age at index below 18 years			
 One year of pre-index observation available 	x Initial treatment with Milnacipram			
	x More than 2 Rx on the same date			

Statistical analyses

- Primary outcome: rate of patients who did not persist with SS(N)RI treatment • in the 12 months following the index date
- Persistence was assessed via the Kaplan–Meier method, using the individual therapy time without treatment discontinuation.
- A multivariate Cox regression model was created to determine the impact of age, gender, physician specialty, previous Rx of another group of antidepressants (N06A9) and the substance at index on persistence.

Results



- One third of the patients only received one Rx during the follow-up time.
- Patients initially treated by a NP were younger, were more likely to receive escitalopram, sertraline or venlafaxine, and were given additional Antidepressants (AD) prescriptions more often with their initial SS(N)RI prescription (Table 1).
- Persistence was longer for older patients, patients previously receiving other ADs and differed by initial molecule (Figure 1-4).

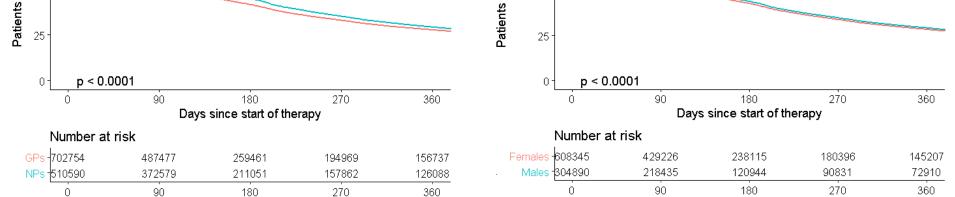
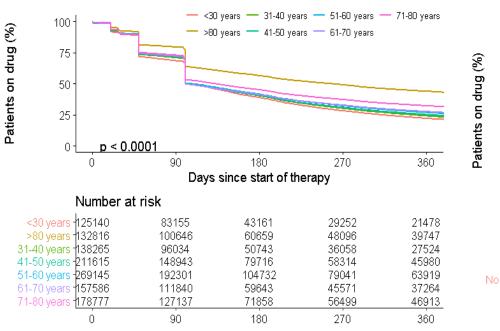


Figure 1. Patients on drug by initial prescriber

Figure 2. Patients on drug by gender



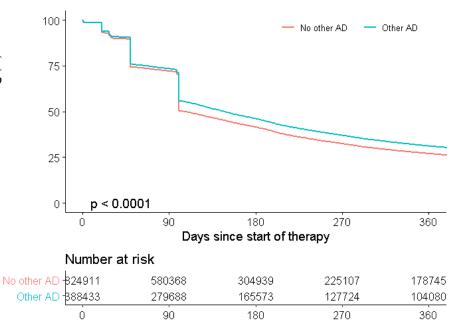


Figure 3. Patients on drug by age category

Figure 4. Patients on drug by pre-index AD use

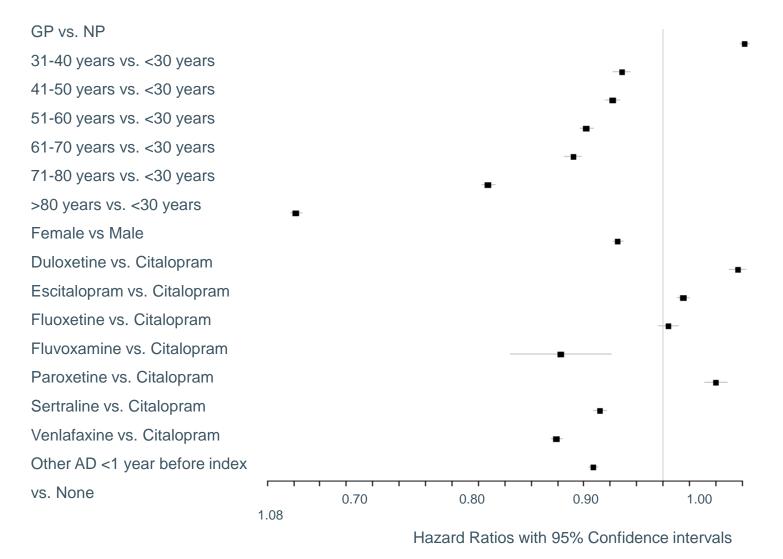


Figure 4 Forest plot of the multivariable Cox analyses on persistence

The multivariable model showed significant longer persistence for older patients, for patients initially treated by a NP, those starting on Sertraline, Fluvoxamine and Venlafaxine and patients previously treated with other ADs.

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Conclusions

- The current study shows that the current persistence is not in line with the German guidelines (²)
- The low persistence was in concordance with previous studies
- Persistence was higher for patients with higher age, female patients, treatment initiation by a NP, and those who received other ADs before starting treatment with SS(N)RI.

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