

Supplementary Material: Real World Data Insights into Antidepressant Prescription and Adherence During Pregnancy in Catalonia (Spain).

Authors: Lucía Bellas (1,2,3), Lina Camacho-Arteaga (1,2,3), Maria Giner-Soriano (4,5) Albert-Prats-Urbe (6), Ainhoa Gómez-Lumbreras (7), Cristina Aguilera (1), Antonia Agustí (1,2,3)

Correspondence authors: Lina Camacho Arteaga, e-mail: lina.camacho@vallhebron.cat

Affiliations:

1. Clinical Pharmacology Department, Hospital Universitari Vall d'Hebron, Barcelona, Spain
2. Department of Pharmacology, Therapeutics and Toxicology, Universitat Autònoma de Barcelona, Barcelona, Spain
3. Clinical Pharmacology Research Group. Vall Hebron Institute of Research, Barcelona, Spain
4. Fundació Institut Universitari per a la Recerca a l'Atenció Primària de Salut Jordi Gol i Gurina (IDIAPJGol), Barcelona, Spain.
5. Universitat Autònoma de Barcelona, Bellaterra (Cerdanyola del Vallès), Spain.
6. Pharmaco- and Device Epidemiology, Centre for Statistics in Medicine, Nuffield Department of Orthopaedics, Rheumatology and Musculoskeletal Sciences, University of Oxford, UK
7. College of Pharmacy, The University of Utah: Salt Lake City, UT, US

ORCID:

Lucía Bellas: 0000-0001-8255-9841, Lina Camacho-Arteaga: 0000-0001-9609-0394, Maria Giner-Soriano: 0000-0003-3750-9233, Albert Prats-Urbe: 0000-0003-1202-9153, Ainhoa Gómez-Lumbreras: 0000-0002-3916-0402, Cristina Aguilera: 0000-0002-7985-7327, Antonia Agustí: 0000-0003-4594-1122

Figure 1S: Dataflow of the population in our cohort



Table 1S: ICD10 –Diagnosis

<u>ICD-10 Codes</u>	<u>Disease</u>
F41.9	Unspecified anxiety disorder
F17.200	Nicotine dependence, unspecified, uncomplicated
F32.9	Major depressive disorder
L29.2	Pruritus
E66.9	Obesity
F41.3	Mixed Anxiety and Depressive Disorder

Table 2S: Medea Index. Deprivation index (based on five indicators related to work, education, housing conditions) calculated at the census tract level and available for urban areas (MEDEA=1 least deprived; MEDEA=5 Most deprived)

<u>Quintiles</u>	<u>Assigned Status</u>
<u>U1</u>	High Socioeconomic Status
<u>U2</u>	Moderate Socioeconomic Status
<u>U3</u>	Average Socioeconomic Status
<u>U4</u>	Low Socioeconomic Status
<u>U5</u>	Extreme Socioeconomic Deprivation

Table 3S: Prescriptions of antidepressants by group

ATC	Number of prescriptions	%, CI 95%
	16,098	
Selective serotonin reuptake inhibitors (N06AB)	11553	67.56% (66.86, 68.27%)
Other antidepressants (N06AX)	2627	15.36% (14.83, 15.91%)
Non-selective monoamine reuptake inhibitors (N06AA)	1918	11.21(10.75, 11.70%)

Table 4S: Prescriptions of antidepressants by ATC code

ATC code	Prescriptions	%	Lower CI (95%)	Upper CI (95%)
N06AB05 - Paroxetine	2994	17.50	16.94	18.09
N06AB04 - Citalopram	2946	17.22	16.67	17.80
N06AB03 - Fluoxetine	2377	13.90	13.39	14.43
N06AB06 - Sertraline	2342	13.69	13.18	14.22
N06AA09 – Amitriptyline	1586	9.27	8.84	9.72
N06AB10 - Escitalopram	1542	9.01	8.59	9.46
N06AX16 - Venlafaxine	896	5.24	4.91	5.58
N06AX11 - Mirtazapine	690	4.03	3.75	4.34
N06AX21 - Duloxetine	475	2.77	2.54	3.04
N06AX05 - Trazodone	458	2.67	2.44	2.93
N06AA04 - Clomipramine	279	1.63	1.45	1.83
N06AX12 - Bupropion	99	0.57	0.47	0.70
N06AX23 - Desvenlafaxine	90	0.52	0.42	0.65
N06AB08 - Fluvoxamine	84	0.49	0.39	0.61
N06AX22 - Agomelatine	84	0.49	0.39	0.61
N06AX26 - Vortioxetine	33	0.19	0.13	0.27

N06AX03 - Mianserin	29	0.16	0.11	0.24
N06AA21 - Maprotiline	28	0.16	0.11	0.24
N06AX18 - Reboxetine	25	0.14	0.09	0.22
N06AA02 - Imipramine	17	0.09	0.06	0.16
N06AA10 - Nortriptyline	10	0.05	0.03	0.11
N06AX14 - Tianeptine	7	0.04	0.02	0.08
N06AA12 - Doxepin	5	0.02	0.01	0.07
N06AX01 – Oxitriptan	2	0.01	0.00	0.04
N06AA06 – Trimipramine	1	0.005	0.00	0.03

Table 5S: Prevalence of antidepressant prescriptions, dispensations and primary adherence (%) by pregnancy interval

<u>Period of time</u>	<u>N of claims</u>	<u>Prevalence of claims (%; CI 95%)</u>	<u>Number of prescriptions</u>	<u>Prevalence of prescriptions (%; CI 95%)</u>	<u>Total number of pregnancies</u>	<u>Primary adherence / Pick up rate</u>
3 months before	6416	6.69 (6.54, 6.85)	15474	16.14 (15.91, 16.38)	95863	41.46
First trimester	4967	5.12 (4.98, 5.26)	14297	14.74 (14.52, 14.97)	96980	34.74
Second Trimester	1624	2.06 (1.96, 2.16)	7031	8.92 (8.72, 9.12)	78865	23.10
Third Trimester	1281	1.67 (1.58, 1.76)	5257	6.84 (6.66, 7.02)	76908	24.37
3 months after	3518	3.73 (3.61, 3.86)	9083	9.64 (9.45, 9.83)	94219	38.73