

## Supplemental Online Content

Korchia T, Achour V, Faugere M, et al. Sexual dysfunction in schizophrenia: a systematic review and meta-analysis. *JAMA Psychiatry*. Published online August 23, 2023. doi:10.1001/jamapsychiatry.2023.2696

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This supplemental material has been provided by the authors to give readers additional information about their work.

## Supplementary material 1. Search paradigm

We used the following search paradigms: "(schizophrenia OR schizoaffective OR psychotic OR psychosis) AND ("sexual dysfunction" OR "sexual adverse events" OR "sexual disorder" OR "sexual side effects" OR libido OR orgasm OR anorgasm\* OR sexual desire OR vulvodynia OR vestibulodynia OR vagin\* OR vaginism\* OR vaginal lubr\* OR dyspareun\* OR hypersex\* OR penile OR penile dysf\* OR impotence OR erect\* OR priapism OR ejac\* OR hyperprolactinemia OR amenorrhea OR galactorrhea OR (acronyms of each validated scale assessing sexual dysfunctions) (ASEX OR SFQ OR CSFQ OR IIEF OR FSFI OR UKU OR PRSexDQ OR ANNSERS OR GASS OR GRISS OR MGH-SFQ OR SBQ OR ASC-SR)". The English words were translated in French for Université Sorbonne Paris Cité database.

## Supplementary material 2. Extracted data

The following data were extracted: year of publication and first author, country, design, method of inclusion, primary objective, mixed outpatient/inpatient sample, inclusion of stabilized patients, inclusion of  $\geq 95\%$  patients treated with antipsychotics, exclusion of somatic diseases, exclusion of substance use disorder, sexual dysfunction scale used, diagnosis based on validated tool (y/n), patient-reported measure (y/n), clinical interview (y/n) or clinician-rated tool (y/n), sample size, number and proportion of sexual dysfunctions, of each specific dysfunction (loss of libido, of orgasm dysfunction, of genital pain, of sexual dysfunctions in men, of erectile dysfunction, of ejaculation dysfunction, of sexual dysfunctions in women, of amenorrhea and of galactorrhea), the proportion of men, the mean sample age, ethnicity (proportion of White, Black, Asian), proportion of partnered patients, proportion of unemployed patients, somatic and addictive comorbidities (percentage of hypertension, of diabetes, of metabolic syndrome, the proportion of patients with hyperprolactinemia, of smokers, of alcohol use disorder, of cannabis use disorder), the initial diagnosis (schizophrenia vs. schizoaffective disorder), the mean age of illness onset, the mean illness duration, the proportion of remitted subjects, the illness severity (global psychotic severity (total PANSS score), positive symptoms (PANSS positive factor), negative symptoms (PANSS negative factor score), proportion of first-generation antipsychotic, second-generation antipsychotic, proportion of antipsychotic polytherapy, of antidepressants, of anxiolytics, hypnotics, of anticholinergic agents, of mood stabilizers, the proportion of each individual antipsychotic (haloperidol, chlorpromazine, risperidone/paliperidone, olanzapine, clozapine, quetiapine and amisulpride), the proportion of antipsychotics with high anti-D2 activity (haloperidol, amisulpride and risperidone/paliperidone) and low anti-D2 activity (olanzapine, clozapine and quetiapine), the mean chlorpromazine equivalents. The continuous proportions (i.e., proportions) have been also transformed in binary variables (with various cut-offs according to the distribution of proportions) to complete the subgroup analyses.

### Supplementary material 3. Excluded studies and reason for exclusion

#### Reference

Acuña MJ, Martín JC, Graciani M, Cruces A, Gotor F. A Comparative Study of the Sexual Function of Institutionalized Patients with Schizophrenia. *The Journal of Sexual Medicine*. Oct 2010;7(10):3414-23.

#### Reason of exclusion

Inpatients

Ahl J, Kinon BJ, Liu-Seifert H. Sexual Dysfunction Associated with Neuroleptic-Induced Hyperprolactinemia Improves with Reduction in Prolactin Levels. *Annals of the New York Academy of Sciences*. Déc 2004;1032(1):289-90.

Lack of extractable data

Ahmadzadeh G, Shahin A. Sexual dysfunctions in the patients hospitalized in psychiatric wards compared to other specialized wards in Isfahan, Iran, in 2012. *Adv Biomed Res*. 2015;4(1):225.

Inpatients

Apantaku-Olajide T, Gibbons P, Higgins A. Drug-induced sexual dysfunction and mental health patients' attitude to psychotropic medications. *Sexual and Relationship Therapy*. Mai 2011;26(2):145-55.

Not population-based study

Barchielli B, Accinni T, Ferracuti S, Carlone L, Petrini F, Biondi M, et al. Sexual Habits and Sexual Dysfunctions in a Sample of Patients with Psychotic Disorders Compared to a Group of Healthy Adults. *JCM*. 19 janv 2022;11(3):505.

Inpatients included in the population

Bebbington PE, Angermeyer M, Azorin JM, Marwaha S, Marteau F, Toumi M. Side-effects of antipsychotic medication and health-related quality of life in schizophrenia. *Acta Psychiatrica Scandinavica*. Févr 2009;119:22-8.

Lack of extractable data

Bhui K, Puffet A, Herriot P. A survey of sexual problems amongst psychiatric inpatients. *Soc Psychiatry Psychiatr Epidemiol*. Mars 1995;30(2):73-7.

Inpatients

Bobes J, Rejas J, Garcia-Garcia M, Rico-Villademoros F, Garc ??a-Portilla MP, Madrigal M, et al. Frequency of Extrapyramidal Adverse Reactions in Schizophrenic Outpatients Treated with Risperidone, Olanzapine, Quetiapine or Haloperidol: Results of the EIRE Study. *Clinical Drug Investigation*. 2002;22(9):609-22.

(Bobes et al, 2003) included in the analysis

**Reference**

Bram N, Rafrafi R, Abdelghaffar W, Lakhali MH, Ouanes S, El Hechmi Z. Sexual dysfunctions in Tunisian patients with schizophrenia. *Sexologies*. Juill 2014;23(3):e65-70.

Brunelleschi S. Risperidone-associated hyperprolactinemia: evaluation in twenty psychiatric outpatients. *Pharmacological Research*. Oct 2003;48(4):405-9.

Burke MA, McEvoy JP, Ritchie JC. A pilot study of a structured interview addressing sexual function in men with schizophrenia. *Biological Psychiatry*. Janv 1994;35(1):32-5.

Bushong ME, Nakonezny PA, Byerly MJ. Subjective Quality of Life and Sexual Dysfunction in Outpatients With Schizophrenia or Schizoaffective Disorder. *Journal of Sex & Marital Therapy*. Juill 2013;39(4):336-46.

Byerly MJ, Nakonezny PA, Bettcher BM, Carmody T, Fisher R, Rush AJ. Sexual dysfunction associated with second-generation antipsychotics in outpatients with schizophrenia or schizoaffective disorder: An empirical evaluation of olanzapine, risperidone, and quetiapine. *Schizophrenia Research*. Sept 2006;86(1-3):244-50.

Chaves KM, Serrano-Blanco A, Ribeiro SB, Soares LAL, Guerra GCB, do Socorro Costa Feitosa Alves M, et al. Quality of Life and Adverse Effects of Olanzapine Versus Risperidone Therapy in Patients with Schizophrenia. *Psychiatr Q*. mars 2013;84(1):125-35.

Chikowe I, Domingo M, Mwakaswaya V, Parveen S, Mafuta C, Kampira E. Adverse drug reactions experienced by out-patients taking chlorpromazine or haloperidol at Zomba Mental Hospital, Malawi. *BMC Res Notes*. Déc 2019;12(1):376.

Ciocca G, Usall J, Dolz M, Limoncin E, Gravina GL, Eleonora Carosa, et al. Sexual dysfunctions in people with first-episode psychosis assessed according to a gender perspective. *Rivista di Psichiatria* [Internet]. 1 sept 2015 [cité 10 août 2022] ;(2015Settembre-Ottobre). Disponible sur : <https://doi.org/10.1708/2040.22166>

de Boer MK, Castelein S, Bous J, van den Heuvel ER, Wiersma D, Schoevers RA, et al. The Antipsychotics and Sexual Functioning Questionnaire (ASFQ): Preliminary evidence for reliability and validity. *Schizophrenia Research*. Nov 2013;150(2-3):410-5.

**Reason of exclusion**

Inpatients included in the population

Lack of extractable data

Inpatients

Lack of extractable data

Lack of extractable data

Lack of extractable data

Lack of extractable data

Inpatients

Inpatients

## Reference

	Reason of exclusion
Del Cacho N, Vila – Badia R, Butjosa A, Cuadras D, Rubio – Abadal E, Rodriguez – Montes MJ, et al. Sexual dysfunction in drug-naïve first episode nonaffective psychosis patients. Relationship with prolactin and psychotic symptoms. Gender differences. <i>Psychiatry Research</i> . Juill 2020;289:112985.	Inpatients
Edlinger M, Hofer A, Rettenbacher MA, Baumgartner S, Widschwendter CG, Kemmler G, et al. Factors influencing the choice of new generation antipsychotic medication in the treatment of patients with schizophrenia. <i>Schizophrenia Research</i> . Sept 2009;113(2-3):246-51.	Inpatients included in the population
Friedmann RC, Hurt SW, Clarkin J, Corn R, Aronoff MS. Sexual histories and premenstrual affective syndrome in psychiatric inpatients. <i>AJP</i> . Nov 1982;139(11):1484-6.	Inpatients
Friedman S, Harrison G. Sexual histories, attitudes, and behavior of schizophrenic and ?normal? women. <i>Arch Sex Behav</i> . Déc 1984;13(6):555-67.	Inpatients
Fujioi J, Iwamoto K, Banno M, Kikuchi T, Aleksic B, Ozaki N. Effect of adjunctive aripiprazole on sexual dysfunction in schizophrenia: a preliminary open-label study. <i>Pharmacopsychiatry</i> . 2017;50(02):74-8.	Inpatients included in the population
Gaber HD, El-Beeh KAM, Abd Al-Naser FAW, Hosny A. Erectile dysfunction in patients with first-episode psychosis. <i>Andrologia</i> [Internet]. Déc 2020 [cité 10 août 2022] ;52(11). Disponible sur : <a href="https://onlinelibrary.wiley.com/doi/10.1111/and.13793">https://onlinelibrary.wiley.com/doi/10.1111/and.13793</a>	Inpatients
Ghormode D, Gupta P, Ratnani D, Aneja J. Evaluation of sexual dysfunction and quality of life in patients with severe mental illness: A cross-sectional study from a tertiary care center in Chhattisgarh. <i>Ind Psychiatry J</i> . 2019;28(1):75.	Not population-based study
Hatano M, Kamei H, Kato A, Takeuchi I, Hanya M, Uno J, et al. Assessment of the Latent Adverse Events of Antipsychotic Treatment Using a Subjective Questionnaire in Japanese Patients with Schizophrenia. <i>Clin Psychopharmacol Neurosci</i> . 31 mai 2017;15(2):132-7.	Inpatients included in the population
Huguelet P, Mohr S, Miserez C, Castellano P, Lutz C, Boucherie M, et al. An Exploration of Sexual Desire and Sexual Activities of Women with Psychosis. <i>Community Ment Health J</i> . févr 2015;51(2):229-38.	Lack of extractable data
Hummer M, Kemmler G, Kurz M, Kurzthaler I, Oberbauer H, Fleischhacker WW. Sexual Disturbances During Clozapine and Haloperidol Treatment for Schizophrenia. <i>AJP</i> . 1 avr 1999;156(4):631-3.	Inpatients

**Reference**

Johnsen E, Kroken R, Løberg EM, Kjelby E, Jørgensen HA. Sexual Dysfunction and Hyperprolactinemia in Male Psychotic Inpatients: A Cross-Sectional Study. *Advances in Urology*. 2011;2011:1-6.

Kaneda Y. Effects of Risperidone on Gonadal Axis Hormones in Schizophrenia. *Ann Pharmacother*. Déc 2001;35(12):1523-7.

Kelly DL, Conley RR. Evaluating sexual function in patients with treatment-resistant schizophrenia. *Schizophrenia Research*. Sept 2003;63(1-2):195-6.

Kheng Yee O, Muhd Ramli ER, Che Ismail H. Remitted Male Schizophrenia Patients with Sexual Dysfunction. *The Journal of Sexual Medicine*. Avr 2014;11(4):956-65.

Kikuchi T, Iwamoto K, Sasada K, Aleksic B, Yoshida K, Ozaki N. Sexual dysfunction and hyperprolactinemia in Japanese schizophrenic patients taking antipsychotics. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*. Avr 2012;37(1):26-32.

Knegtering H, van den Bosch R, Castelein S, Bruggeman R, Sytema S, van Os J. Are sexual side effects of prolactin-raising antipsychotics reducible to serum prolactin? *Psychoneuroendocrinology*. Juill 2008;33(6):711-7.

Konarzewska B, Wołczyński S, Szulc A, Galińska B, Popławska R, Waszkiewicz N. Effect of risperidone and olanzapine on reproductive hormones, psychopathology and sexual functioning in male patients with schizophrenia. *Psychoneuroendocrinology*. Janv 2009;34(1):129-39.

Lambert M, Conus P, Eide P, Mass R, Karow A, Moritz S, et al. Impact of present and past antipsychotic side effects on attitude toward typical antipsychotic treatment and adherence. *Eur Schizophr J*. Nov 2004;19(7):415-22.

Lee JY, Kim SW, Lee YH, Kang HJ, Kim SY, Bae KY, et al. Factors associated with self-rated sexual function in Korean patients with schizophrenia receiving risperidone monotherapy: Sexual Function in Schizophrenia. *Hum Psychopharmacol Clin Exp*. Nov 2015;30(6):416-24.

Liu D, Liu S, Xiu M, Deng H, Guo H, Liu W, et al. Sexual Dysfunction in Chronically Medicated Male Inpatients With Schizophrenia: Prevalence, Risk Factors, Clinical Manifestations, and Response to Sexual Arousal. *Front Psychiatry*. 14 janv 2022;12:761598.

**Reason of exclusion**

Inpatients

Lack of extractable data

Treatment-resistant schizophrenia population

Lack of extractable data

Inpatients included in the population

Inpatients included in the population

Inpatients

Inpatients

Inpatients included in the population

Inpatients



## Reference

	Reason of exclusion
Lucca J, Ramesh M, Ram D, Kurian J, Mathew N. Psychotropic medication-induced sexual dysfunction and its interference with patient's daily performance: a cross-sectional study. <i>Egypt J Psychiatr.</i> 2016;37(1):36.	Lack of extractable data
Lyketsos GC, Sakka P, Maïlis A. The Sexual Adjustment of Chronic Schizophrenics: A Preliminary Study. <i>Br J Psychiatry.</i> Oct 1983;143(4):376-82.	Inpatients
Ma MC, Chao JK, Hung JY, Sung SC, Chao IHC. Sexual Activity, Sexual Dysfunction, and Sexual Life Quality Among Psychiatric Hospital Inpatients With Schizophrenia. <i>The Journal of Sexual Medicine.</i> Mars 2018;15(3):324-33.	Inpatients
Marques TR, Smith S, Bonaccorso S, Gaughran F, Kolliakou A, Dazzan P, et al. Sexual dysfunction in people with prodromal or first-episode psychosis. <i>Br J Psychiatry.</i> Août 2012;201(2):131-6.	Inpatients
McCann TV, Clark E, Lu S. Subjective side effects of antipsychotics and medication adherence in people with schizophrenia. <i>Journal of Advanced Nursing.</i> Mars 2009;65(3):534-43.	Lack of extractable data
Montejo ÁL, Rico-Villademoros F. Psychometric Properties of the Psychotropic-Related Sexual Dysfunction Questionnaire (PRSexDQ-SALSEX) in Patients with Schizophrenia and Other Psychotic Disorders. <i>Journal of Sex &amp; Marital Therapy.</i> 11 avr 2008;34(3):227-39.	(Montejo et al, 2010) included in the analysis
Murali T, John CJ, Ramakrishnan N, Gopinath PS. Sexual behaviour in schizophrenic patients on neuroleptic medication. <i>Indian J Psychiatry.</i> Oct 1984;26(4):390-2.	Lack of extractable data
Nallani MC, Powell MM, Pugh S, Kearns AM, Adams HA, Weiner E, et al. 25-Hydroxyvitamin D and metabolic-related laboratory values in women with schizophrenia and hyperprolactinemia. <i>Journal of Psychiatric Research.</i> Juill 2022;151:25-9.	Lack of extractable data
Osasona SO, Ehimigbai M. Sexual dysfunction: prevalence and associated factors in patients with mental illness receiving psychotropic medication in Nigeria. <i>Afr Health Sci.</i> déc 2019;19(4):2973-84.	Not population-based study
Perlman CM, Martin L, Hirdes JP, Curtin-Telegdi N, Pérez E, Rabinowitz T. Prevalence and Predictors of Sexual Dysfunction in Psychiatric Inpatients. <i>Psychosomatics.</i> Juill 2007;48(4):309-18.	Inpatients

Reference	Reason of exclusion
Raboch J. Sexual development and life of psychiatric female patients. Arch Sex Behav. Août 1986;15(4):341-53.	Inpatients
Raja M, Azzoni A. Sexual behavior and sexual problems among patients with severe chronic psychoses. Eur psychiatr. Mars 2003 ;18(2) :70-6.	Inpatients
Ravichandran D, Gopalakrishnan R, Kuruvilla A, Jacob KS. Sexual Dysfunction in Drug-Naive or Drug-Free Male Patients with Psychosis: Prevalence and Risk Factors. Indian Journal of Psychological Medicine. Sept 2019;41(5):434-9.	Drug-naïve population
Rubio-Abadal E, Del Cacho N, Saenz-Navarrete G, Arranz B, Cambra RM, Cuadras D, et al. How Hyperprolactinemia Affects Sexual Function in Patients Under Antipsychotic Treatment. J Clin Psychopharmacol. Oct 2016;36(5):422-8.	Inpatients included
Sabry W, El Sayed El Taweel M, Zyada F. Sexual dysfunctions in drug-naive male patients with first-episode schizophrenia: a case-control study. Middle East Current Psychiatry. Oct 2017;24(4):168-73.	Inpatients
Salvan H, Stanculete M, Macrea R. Frequency of sexual dysfunction in patients with schizophrenia. European Psychiatry. Mars 2007;22:S138.	Lack of extractable data
Schimmelmann BG, Moritz S, Karow A, Schafer I, Bussopulos A, Golks D, et al. Correlates of subjective well-being in schizophrenic patients treated with atypical antipsychotics. International Journal of Psychiatry in Clinical Practice. Janv 2005;9(2):94-8.	Inpatients
Shah SK. A comparative study of sexual dysfunction in schizophrenia patients taking aripiprazole versus risperidone. Kathmandu Univ Med J (KUMJ). Juin 2013;11(42):121-5.	Inpatients included
Tasaki M, Yasui-Furukori N, Yokoyama S, Shinozaki M, Sugawara N, Shimoda K. Hypoprolactinemia and hyperprolactinemia in male schizophrenia patients treated with aripiprazole and risperidone and their relationships with testosterone levels. Neuropsychopharmacol Rep. sept 2021;41(3):379-84.	Lack of extractable data
Theleritis C, Bonaccorso S, Habib N, Stahl D, Gaughran F, Vitoratou S, et al. Sexual dysfunction and central obesity in patients with first episode psychosis. Eur J Psychiatry. Mai 2017;42:1-7.	Inpatients
Van Bruggen M, van Amelsvoort T, Wouters L, Dingemans P, de Haan L, Linszen D. Sexual dysfunction and hormonal changes in first episode psychosis patients on olanzapine or risperidone. Psychoneuroendocrinology. Août 2009;34(7):989-95.	Inpatients

**Reference**

Verhulst J, Schneidman B. Schizophrenia and Sexual Functioning. PS. Avr 1981;32(4):259-62.

Westheide J, Cohen S, Bender S, Cooper-Mahkorn D, Erfurth A, Gastpar M, et al. Sexual Dysfunction in Psychiatric Inpatients The Role of Antipsychotic Medication. Pharmacopsychiatry. Juill 2007;40(4):140-5.

Westheide J, Cvetanovska G, Albrecht C, Bliesener N, Cooper-Mahkorn D, Creutz C, et al. Prolactin, Subjective Well-Being and Sexual Dysfunction: An Open Label Observational Study Comparing Quetiapine with Risperidone. The Journal of Sexual Medicine. Déc 2008;5(12):2816-26.

Wirshing DA, Pierre JM, Marder SR, Saunders CS, Wirshing WC. Sexual side effects of novel antipsychotic medications. Schizophrenia Research. Juill 2002 ;56(1-2) :25-30.

Zhang Y, Tang Z, Ruan Y, Huang C, Wu J, Lu Z, et al. Prolactin and Thyroid Stimulating Hormone (TSH) Levels and Sexual Dysfunction in Patients with Schizophrenia Treated with Conventional Antipsychotic Medication: A Cross-Sectional Study. Med Sci Monit. 16 déc 2018;24:9136-43.

**Reason of exclusion**

Inpatients

Inpatients

Inpatients

Lack of extractable data

Inpatients

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**Supplementary material 4. Characteristics of the included studies reporting a prevalence of global sexual dysfunction in schizophrenia**

<b>First Author</b>	<b>Publication year</b>	<b>Country</b>	<b>Sexual dysfunction scale</b>	<b>N</b>	<b>N Sexual dysfunction</b>	<b>Percentage of sexual dysfunction</b>	<b>High Quality</b>
Arato	1979	Hungary	Semistructured interview	27	17	63.0%	0
Ghadirian	1982	Quebec, Canada	Original questionnaire	55	23	41.8%	0
Lukoff	1986	US	Unstructured interview	16	10	62.5%	0
Kockott	1996	Germany	DSM-III-R	100	49	49.0%	1
Bhui	1997	UK	DSM-III-R	53	23	43.4%	1
Warden	1997	Canada	Original questionnaire	230	57	24.8%	0
Mullen	2001	USA	Medical records	54	50	92.6%	0
Smith	2002	England	SFQ	101	45	44.6%	1
Bobes	2003	Spain	UKU	632	241	38.1%	1
Fortier	2003	Quebec, Canada	Original questionnaire	45	20	44.4%	0
Olfson	2005	USA	CSFQ	139	63	45.3%	0
Bitter	2005	Hungary, Austria	Semistructured interview	571	83	14.5%	0
Khawaja	2005	Pakistan	ASEX	50	40	80.0%	0
Dossenbach	2006	Nine countries <sup>1</sup>	UKU	3828	2665	69.6%	1
Fan	2007	US	CSFQ	87	56	64.4%	0
Howes	2007	UK	SFQ	103	62	60.2%	1
Ucok	2007	Turkey	ASEX	827	435	52.6%	0
Yusufi	2007	England	ANNSERS	103	57	55.3%	1
Plevin	2007	Australie	ASEX	22	16	72.7%	1
Castano	2008	Spain	CSFQ	100	60	60.0%	0
Liu-Seifert	2009	USA	CSFQ	402	240	59.7%	0
Sibinovic	2009	Serbia	ASEX	137	76	55.5%	0
Nunes	2009	Brazil	ASEX	137	70	51.1%	1

Hariri	2009	Turkey	GRISS	84	29	34.5%	0
Nagaraj	2009	India	SFQ	72	66	91.7%	0
Istikoglou	2009	Greece	MGH-SFQ	40	7	17.5%	0
Fujii	2010	Japan	UKU	352	191	54.3%	1
Harley	2010	UK	SFQ	137	106	77.4%	1
Kokoszka	2010	Poland	Original questionnaire	56	52	92.9%	0
Montejo	2010	Spain	PRSexDQ-Salsex	244	112	46.0%	0
Zhang	2011	China	ASEX	100	47	47.0%	0
Xiang	2011	Nine countries <sup>2</sup>	Unstructured interview	5874	178	3.0%	0
Yasui-Furukori	2012	Japan	UKU	191	77	40.3%	1
Hashimoto	2012	Japan	Original questionnaire	252	68	27.0%	0
Nebhinani	2012	India	ASEX	100	25	25.0%	0
Oyekanmi	2012	Nigeria	IIEF	275	111	40.4%	1
Shakir	2013	Irak	ASEX	104	57	54.8%	1
Ben Mahmoud	2013	Tunisia	SBQ	30	28	93.3%	0
Bhat	2013	India	ASEX	120	41	34.2%	0
Hocaoglu	2014	Turkey	ASEX	101	55	54.5%	1
Nakhli	2014	Tunisia	ASEX	100	55	5.50%	0
Millier	2014	Britain, Germany, France	ASC-SR	1206	314	26.0%	1
Pairin	2015	France	ASEX	24	10	41.7%	0
Sathish	2015	India	SFQ	73	44	60.3.	1
Olisah	2016	Nigeria	IIEF. FSFI	255	164	64.3%	1
Hou	2016	China	ASEX	247	195	79.0%	1
Suresh	2016	India	CSFQ	75	40	53.3%	0
Simiyon	2016	India	FSFI	63	44	69.8%	0
Wang	2016	China	PRSexDQ-Salsex	126	67	53.2%	1
Bellnier	2016	US	ASEX	35	23	65.7%	0
Shetageri	2016	India	FSFI	101	69	68.3%	1
Romero Guillena	2016	Spain	ASEX	22	14	63.6%	0
Halouani	2017	Tunisia	FSFI	32	26	81.3%	0

Aftab Khan	2017	Pakistan	ASEX	91	32	35.2%	0
Kirino	2017	Japan	Original questionnaire	87	39	44.8%	0
Abhilasha	2018	India	FSFI	50	45	90.0%	0
Esan	2018	Nigeria	ASEX	90	33	36.7%	1
Martin	2018	Spain	PRSexDQ-Salsex	57	46	80.7%	1
Fanta	2018	Ethiopia	CSFQ	422	349	82.7%	1
Rowel	2018	Sri Lanka	IIEF-5	102	80	78.4%	0
Aggarwal	2019	India	ASEX	76	31	40.8%	0
Fond	2019	France	SFQ	237	96	40.5%	1
Huang	2019	China	ASEX	418	310	74.2%	1
Souaiby	2019	Lebanon	PRSexDQ-Salsex	95	55	57.9%	0
Kassew	2019	Ethiopia	GASS	393	188	47.8%	1
Doane	2020	US	Original questionnaire	200	110	55.0%	0
Abdelatti	2020	Egypt	IIEF	20	15	75.0%	1
Gaber	2020	Egypt	IIEF-5	40	39	98.5%	0
Kantipudi	2020	India	FSFI	30	11	36.7%	1
Redman	2021	US	Original questionnaire	22	16	72.7%	1
Suresh Kumar	2021	India	CSFQ	57	50	87.7%	0
Wu	2021	Taiwan	ASEX	279	150	53.8%	0

**Supplementary material 5. Characteristics of the included studies reporting a prevalence of sexual dysfunction in men with schizophrenia**

<b>First Author</b>	<b>Publication year</b>	<b>Country</b>	<b>Sexual dysfunction scale</b>	<b>N</b>	<b>N Sexual dysfunction</b>	<b>Percentage of sexual dysfunction</b>	<b>Percentage of erectile dysfunction</b>	<b>Percentage of ejaculation dysfunction</b>	<b>High Quality</b>
Arato	1979	Hungary	Semistructured interview	27	17	63.0%			0
Ghadirian	1982	Quebec, Canada	Original questionnaire	26	14	53.8%	38.5%	46.2%	0
Lukoff	1986	US	Unstructured interview	16	10	62.5%	37.5%	25.0%	0
Bhui	1997	UK	DSM-III-R	40	19	47.5%	38.0%	17.0%	1
Warden	1997	Canada	SEC	149	27	18.1%	09.4%	6.0%	0
Mullen	2001	USA	Medical records	18	16	88.9%	27.8%	11.1%	0
Bobes	2003	Spain	UKU	389	173	44.5%	31.0%	14.0%	1
Fortier	2003	Quebec, Canada	Original questionnaire	25	14	56.0%	22.0%	26.0%	0
Olfson	2005	USA	CSFQ	139	63	45.3%		74.1%	0
Khawaja	2005	Pakistan	ASEX	50	40	80.0%	48.0%	46.0%	0
Dossenbach	2006	Nine countries <sup>1</sup>	UKU	2063			46.9%		1
Fan	2007	US	CSFQ	65	39	60.0%			0
Howes	2007	UK	SFQ	53	28	52.8%			1
Ucok	2007	Turkey	ASEX	547	315	57.6%	48.1%	64.2%	0
Plevin	2007	Australie	ASEX	22	16	72.7%	36.4%		1
Liu-Seifert	2009	USA	CSFQ	255	153	60.0%		79.6%	0
Nunes	2009	Brazil	ASEX	84	28	33.3%	32.1%		1
Nagaraj	2009	India	SFQ	72	66	91.7%	41.7%	30.6%	0
Fujii	2010	Japan	UKU	177	105	59.3%	37.3%	35.6%	1
Harley	2010	UK	SFQ	81	60	74.1%			1
Kokoszka	2010	Poland	Original questionnaire	31	28	90.3%	45.2%	32.3%	0
Montejo	2010	Spain	PRSexDQ-Salsex	173	86	49.7%			0
Zhang	2011	China	ASEX	100	47	47.0%	45.0%		0
Xiang	2011	Nine countries <sup>2</sup>	Unstructured interview	3426	158	4.6%			0
Yasui-Furukori	2012	Japan	UKU	108	26	24.1%			1

Nebhinani	2012	India	ASEX	100	25	25.0%	17.0%		0
Oyekanmi	2012	Nigeria	IIEF	275	111	40.4%	34.5%		1
Shakir	2013	Irak	ASEX	104	57	54.8%	28.0%		1
Bhat	2013	India	ASEX	120	41	34.2%	10.0%		0
Hocaoglu	2014	Turkey	ASEX	63	29	46.0%	51.0%		1
Sathish	2015	India	SFQ	73	44	60.3%	53.4%	56.2%	1
Olisah	2016	Nigeria	IIEF/FSFI	122	66	54.1%	40.2%		1
Hou	2016	China	ASEX	155	116	74.8%	58.0%		1
Suresh	2016	India	CSFQ	45	26	57.8%	55.0%		0
Aftab Khan	2017	Pakistan	ASEX	91	32	35.2%	35.2%	31.9%	0
Esan	2018	Nigeria	ASEX	45	14	31.1%	17.8%		1
Fanta	2018	Ethiopia	CSFQ	290	246	84.8%	95.5%	89.3%	1
Rowel	2018	Sri Lanka	IIEF-5	102	80	78.4%	78.4%		0
Fond	2019	France	SFQ	145	63	43.4%	15.9%	19.3%	1
Huang	2019	China	ASEX	233	158	67.8%	22.2%		1
Souaiby	2019	Lebanon	PRSexDQ-Salsex	82	47	57.3%	37.8%	30.5%	0
Abdelatti	2020	Egypt	IIEF	20	15	75.0%	35.0%		1
Gaber	2020	Egypt	IIEF-5	40	39	97.5%	97.5%		0
Redman	2021	US	Original questionnaire	22	16	72.7%			1
Wu	2021	Taiwan	ASEX	132	54	40.9%			0



**Supplementary material 6. Characteristics of the included studies reporting a prevalence of sexual dysfunction in women with schizophrenia**

<b>First Author</b>	<b>Publication year</b>	<b>Country</b>	<b>Sexual dysfunction scale</b>	<b>N</b>	<b>N Sexual dysfunction</b>	<b>Percentage of sexual dysfunction</b>	<b>Percentage of amenorrhea</b>	<b>Percentage of galactorrhea</b>	<b>High Quality</b>
Ghadirian	1982	Quebec, Canada	Original questionnaire	29	9	31.0%			0
Bhui	1997	UK	DSM-III-R	13	4	30.8%			1
Warden	1997	Canada	SEC	81	30	37.0%	23.5%	13.6%	0
Mullen	2001	USA	Medical records	36	34	94.4%		9.0%	0
Bobes	2003	Spain	UKU	243	61	25.1%	14.4%	1.2%	1
Fortier	2003	Quebec, Canada	Original questionnaire	20	6	30.0%			0
Dossenbach	2006	Nine countries <sup>1</sup>	UKU	1765			24.4%	7.6%	1
Fan	2007	US	CSFQ	22	17	77.3%			0
Howes	2007	UK	SFQ	50	34	68.0%			1
Ucok	2007	Turkey	ASEX	280	119	42.5%	25.0%		0
Liu-Seifert	2009	USA	CSFQ	147	87	59.2%			0
Nunes	2009	Brazil	ASEX	53	42	79.2%			1
Fujii	2010	Japan	UKU	175	86	49.1%	20.6%	9.7%	1
Harley	2010	UK	SFQ	56	46	82.1%			1
Kokoszka	2010	Poland	Original questionnaire	25	24	96.0%			0
Montejo	2010	Spain	PRSexDQ-Salsex	71	26	36.6%			0
Xiang	2011	Nine countries <sup>2</sup>	Unstructured interview	2448	19	0.8%			0
Yasui-Furukori	2012	Japan	UKU	83	51	61.4%			1
Hocaoglu	2014	Turkey	ASEX	38	26	68.4%			1
Olisah	2016	Nigeria	IIEF/FSFI	133	96	72.2%			1
Hou	2016	China	ASEX	92	78	84.8%			1
Simiyon	2016	India	FSFI	63	44	72.2%			0
Shetageri	2016	India	FSFI	101	69	84.8%			1
Suresh	2016	India	CSFQ	30	14	46.7%			0

Halouani	2017	Tunisia	FSFI	32	26	81.3%		0
Abhilasha	2018	India	FSFI	50	45	90.0%		0
Esan	2018	Nigeria	ASEX	45	19	42.2%		1
Fanta	2018	Ethiopia	CSFQ	132	103	78.0%		1
Fond	2019	France	SFQ	92	33	35.9%		1
Huang	2019	China	ASEX	185	152	82.2%		1
Souaiby	2019	Lebanon	PRSexDQ-Salsex	13	8	61.5%		0
Kantipudi	2020	India	FSFI	30	11	36.7%		1
Suresh Kumar	2021	India	CSFQ	57	50	87.7%	52.6%	0
Wu	2021	Taiwan	ASEX	147	96	65.3%		0

<sup>1</sup>Austria, Turkey, Czech Republic, Egypt, Poland, Russia, Saudi Arabia, Slovakia, Australia

<sup>2</sup>China, Hong Kong, Japan, Korea, Singapore, Taiwan, India, Malaysia, Thailand

ASC-SR : Approaches to Schizophrenia Communication – Self Report ; ASEX : Arizona Sexual Experience Scale ; ANNSERS : Antipsychotic Non-Neurological Side Effects Rating Scale ; CSFQ : Changes in Sexual Functioning Questionnaire ; DSM3-R : Diagnostic and Statistical Manual of Mental Disorders, 3rd Edition – Revision ; FSFI : Female Sexual Function Index ; IIEF : International Index of Erectile Function ; GASS : Glasgow Antipsychotic Side-Effect Scale ; GRISS : Golombok Rust Inventory of Sexual Satisfaction ; MGH-SFQ : Massachusetts General Hospital-Sexual Functioning Questionnaire ; PRSexDQ-Salsex : Psychotropic-Related Sexual Dysfunction Questionnaire ; SBQ : Sexual Behavior Questionnaire ; SFQ : Sexual Functioning Questionnaire ; UKU : Udvalg for Kliniske Undersogelser

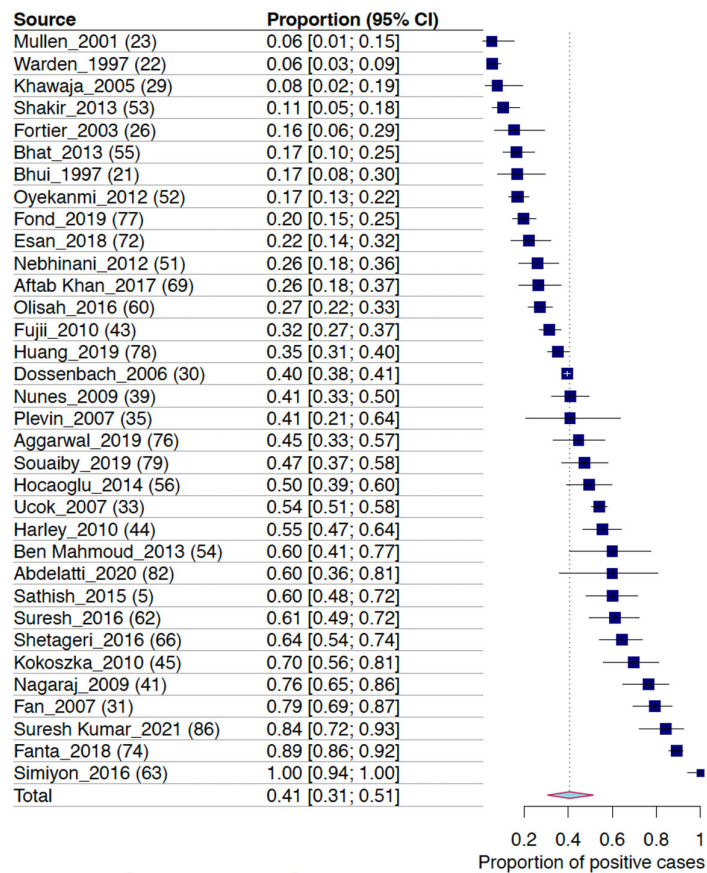
Supplementary material 7. Study quality

First Author	Year	A.1 - Representativity of the sample	A.2 - Sample size	A.3 - Comparability	A.4 - Ascertainment of the exposure	B.1 - Comparability	C.1 - Assessment of the outcome	C.2 - Statistical test	Total number of stars	High Quality study
Arato	1979	Selection / Undescribed	Unjustified	*	**	NA	Incomplete	*	4	0
Ghadirian	1982	*	Unjustified	*	**	NA	Incomplete	*	5	0
Lukoff	1986	Selection / Undescribed	Unjustified	*	**	NA	Incomplete	Incomplete	3	0
Kockott	1996	*	Unjustified	*	**	NA	**	*	7	1
Bhui	1997	*	Unjustified	*	**	NA	**	*	7	1
Warden	1997	Selection / Undescribed	Unjustified	*	**	NA	Incomplete	*	4	0
Mullen	2001	Selection / Undescribed	Unjustified	*	**	NA	**	Incomplete	5	0
Smith	2002	*	Unjustified	*	**	NA	**	*	7	1
Bobes	2003	*	Unjustified	*	**	NA	**	*	7	1
Fortier	2003	*	Unjustified	*	**	NA	Incomplete	*	5	0
Olfson	2005	Selection / Undescribed	Unjustified	*	**	NA	**	*	6	0
Bitter	2005	*	Unjustified	*	**	NA	Incomplete	*	5	0
Khawaja	2005	Selection / Undescribed	Unjustified	*	**	NA	**	*	6	0
Dossenbach	2006	*	Unjustified	*	**	NA	**	*	7	1

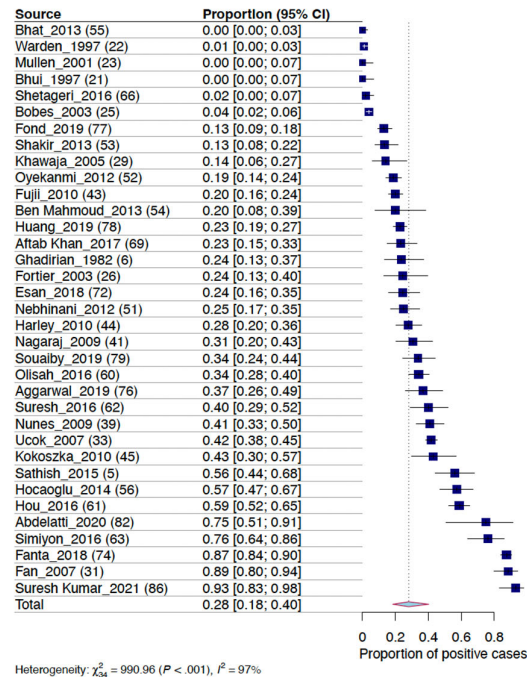
Fan	2007	Selection / Undescribed	Unjustified	*	**	NA	**	*	6	0
Howes	2007	*	*	*	**	NA	**	*	8	1
Ucok	2007	Selection / Undescribed	Unjustified	*	**	NA	**	*	6	0
Yusufi	2007	*	Unjustified	*	**	NA	**	*	7	1
Plevin	2007	*	Unjustified	*	**	NA	**	*	7	1
Castano	2008	Selection / Undescribed	Unjustified	*	**	NA	**	Incomplete	5	0
Liu-Seifert	2009	Selection / Undescribed	Unjustified	*	**	NA	**	*	6	0
Sibinovic	2009	Selection / Undescribed	Unjustified	*	**	NA	**	Incomplete	5	0
Nunes	2009	*	Unjustified	*	**	NA	**	*	7	1
Hariri	2009	Selection / Undescribed	Unjustified	*	**	NA	**	*	6	0
Nagaraj	2009	Selection / Undescribed	Unjustified	*	**	NA	**	Incomplete	5	0
Istikoglou	2009	Selection / Undescribed	Unjustified	*	**	NA	**	Incomplete	5	0
Fujii	2010	*	Unjustified	*	**	NA	**	*	7	1
Harley	2010	*	*	*	**	NA	**	*	8	1
Kokoszka	2010	Selection / Undescribed	Unjustified	*	**	NA	**	*	6	0
Montejo	2010	*	Unjustified	*	**	NA	**	*	6	0
Zhang	2011	Selection / Undescribed	Unjustified	*	**	NA	**	*	6	0
Xiang	2011	*	Unjustified	*	**	NA	Incomplete	*	5	0
Yasui-Furukori	2012	*	Unjustified	*	**	NA	**	*	7	1
Hashimoto	2012	Selection / Undescribed	Unjustified	*	**	NA	Incomplete	*	4	0
Nebhinani	2012	Selection /	Unjustified	*	**	NA	**	*	6	0
Oyekanmi	2012	*	Unjustified	*	**	NA	**	*	7	1
Shakir	2013	*	Unjustified	*	**	NA	**	*	7	1
Ben Mahmoud	2013	Selection / Undescribed	Unjustified	*	**	NA	**	*	6	0
Bhat	2013	Selection / Undescribed	Unjustified	*	*	NA	**	*	5	0
Hocaoglu	2014	*	Unjustified	*	**	NA	**	*	7	1
Nakhli	2014	Selection / Undescribed	Unjustified	*	**	NA	**	Incomplete	5	0
Millier	2014	*	Unjustified	*	**	NA	**	*	7	1
Pairin	2015	*	Unjustified	*	**	NA	**	Incomplete	6	0
Sathish	2015	*	Unjustified	*	**	NA	**	*	7	1
Olisah	2016	*	Unjustified	*	**	NA	**	*	7	1
Hou	2016	*	Unjustified	*	**	NA	**	*	7	1
Suresh	2016	Selection / Undescribed	Unjustified	*	**	NA	**	Incomplete	5	0
Simiyon	2016	Selection / Undescribed	Unjustified	*	**	NA	**	*	6	0
Wang	2016	*	Unjustified	*	**	NA	**	*	7	1
Bellnier	2016	Selection / Undescribed	Unjustified	*	**	NA	**	Incomplete	5	0
Shetageri	2016	*	*	*	**	NA	**	*	8	1
Romero Guillena	2016	Selection / Undescribed	Unjustified	*	**	NA	**	Incomplete	5	0

Halouani	2017	Selection / Undescribed	Unjustified	*	**	NA	**	*	6	0
Aftab Khan	2017	Selection / Undescribed	Unjustified	*	**	NA	**	*	6	0
Kirino	2017	*	Unjustified	*	**	NA	**	Incomplete	6	0
Abhilasha	2018	Selection / Undescribed	Unjustified	*	**	NA	**	*	6	0
Esan	2018	*	Unjustified	*	**	NA	**	*	7	1
Martin	2018	*	Unjustified	*	**	NA	**	*	7	1
Fanta	2018	*	*	*	**	NA	**	*	8	1
Rowel	2018	*	Unjustified	*	**	NA	**	Incomplete	6	0
Aggarwal	2019	Selection / Undescribed	Unjustified	*	**	NA	**	*	6	0
Fond	2019	*	Unjustified	*	**	NA	**	*	7	1
Huang	2019	*	*	*	**	NA	**	*	8	1
Souaiby	2019	Selection / Undescribed	Unjustified	*	**	NA	**	*	6	0
Kassew	2019	*	Unjustified	*	**	NA	**	*	7	1
Doane	2020	Selection / Undescribed	Unjustified	*	No description	NA	**	Incomplete	3	0
Abdelatti	2020	*	Unjustified	*	**	NA	**	*	7	1
Gaber	2020	Selection / Undescribed	Unjustified	*	**	NA	**	*	6	0
Kantipudi	2020	*	Unjustified	*	**	NA	**	*	7	1
Redman	2021	*	Unjustified	*	**	NA	**	*	7	1
Suresh Kumar	2021	Selection / Undescribed	Unjustified	*	**	NA	**	*	6	0
Wu	2021	Selection / Undescribed	Unjustified	*	**	NA	**	*	6	0

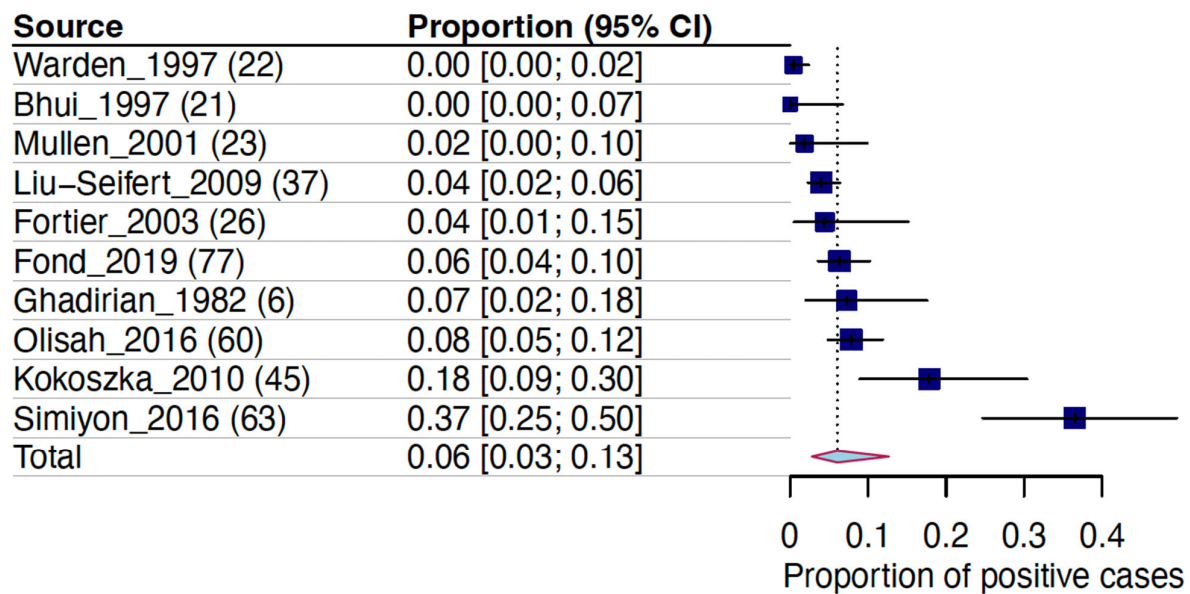
Supplementary material 8. Forest plot of studies exploring the prevalence of loss of libido in schizophrenia



Supplementary material 9. Forest plot of studies exploring the prevalence of orgasm dysfunction in schizophrenia

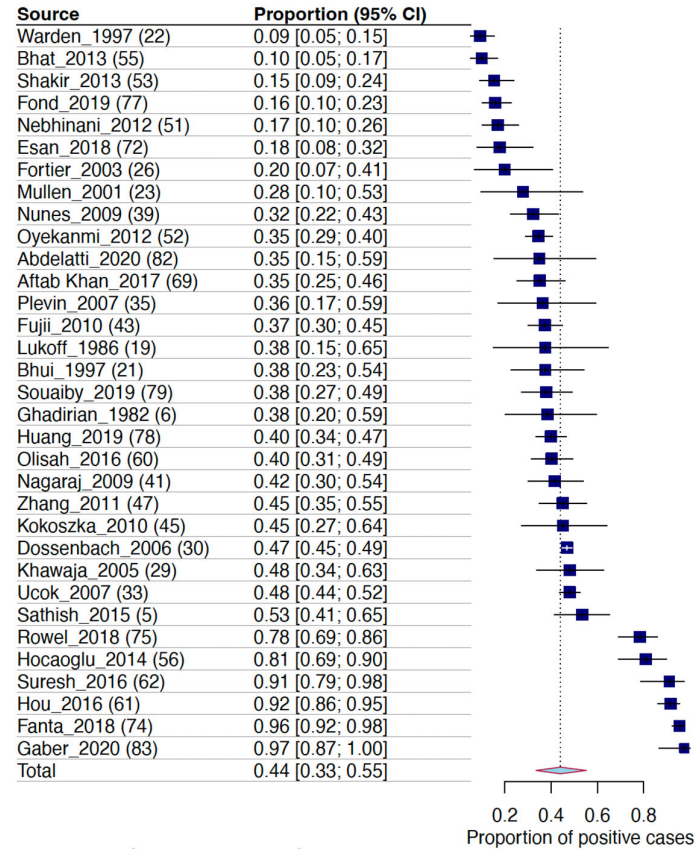


Supplementary material 10. Forest plot of studies exploring the prevalence of genital pain in schizophrenia

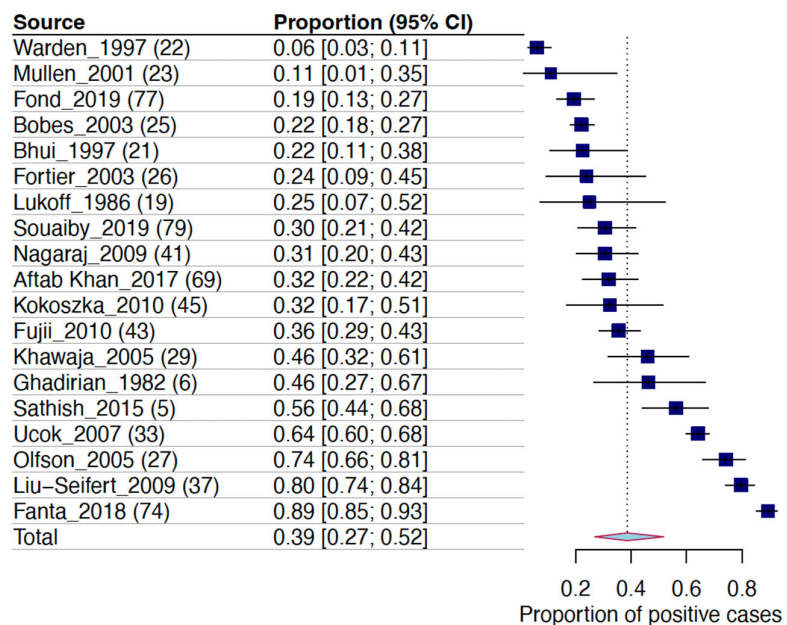




Supplementary material 11. Forest plot of studies exploring the prevalence of erection disorder in schizophrenia

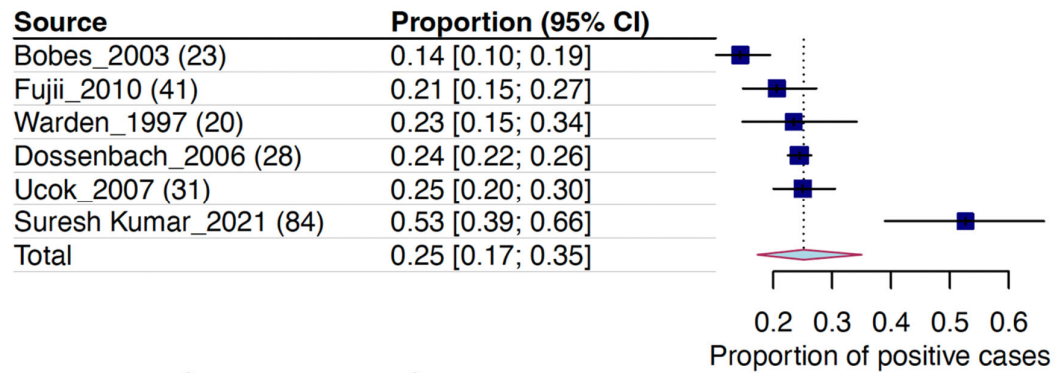


**Supplementary material 12. Forest plot of studies exploring the prevalence of ejaculation disorder in schizophrenia**

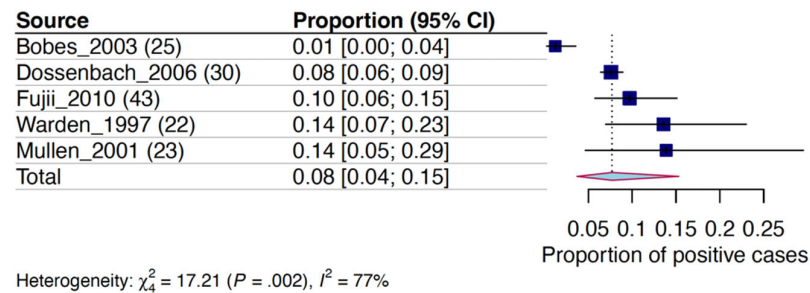


Heterogeneity:  $\chi^2_{18} = 570.59$  ( $P < .001$ ),  $I^2 = 97\%$

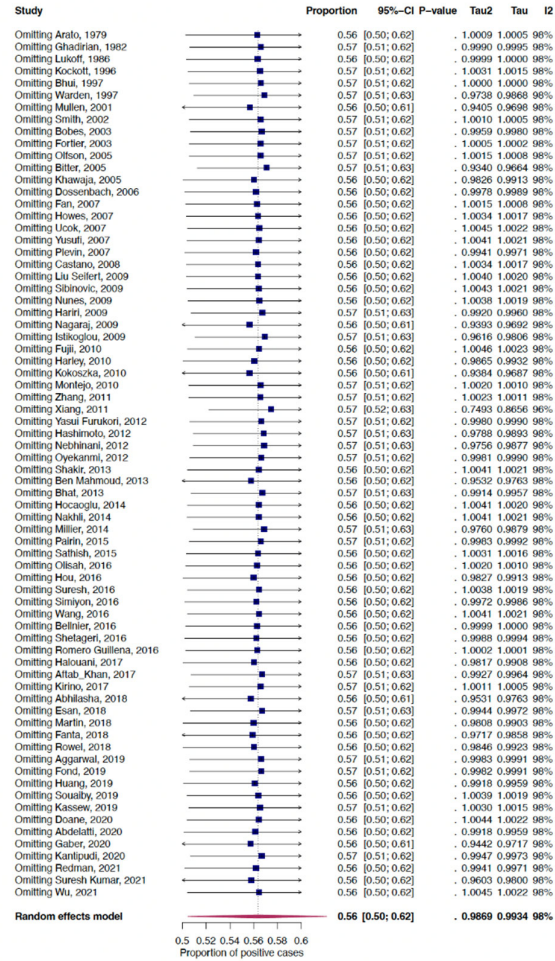
**Supplementary material 13. Forest plot of studies exploring the prevalence of amenorrhea in schizophrenia**



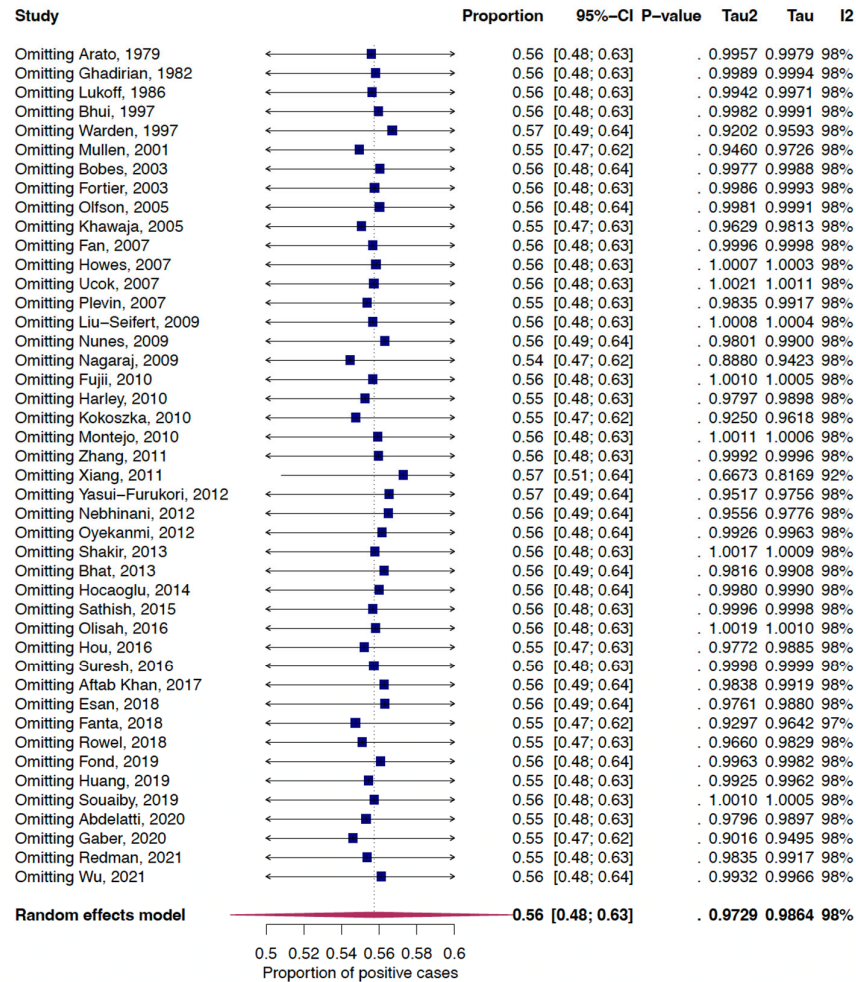
**Supplementary material 14. Forest plot of studies exploring the prevalence of galactorrhea in schizophrenia**



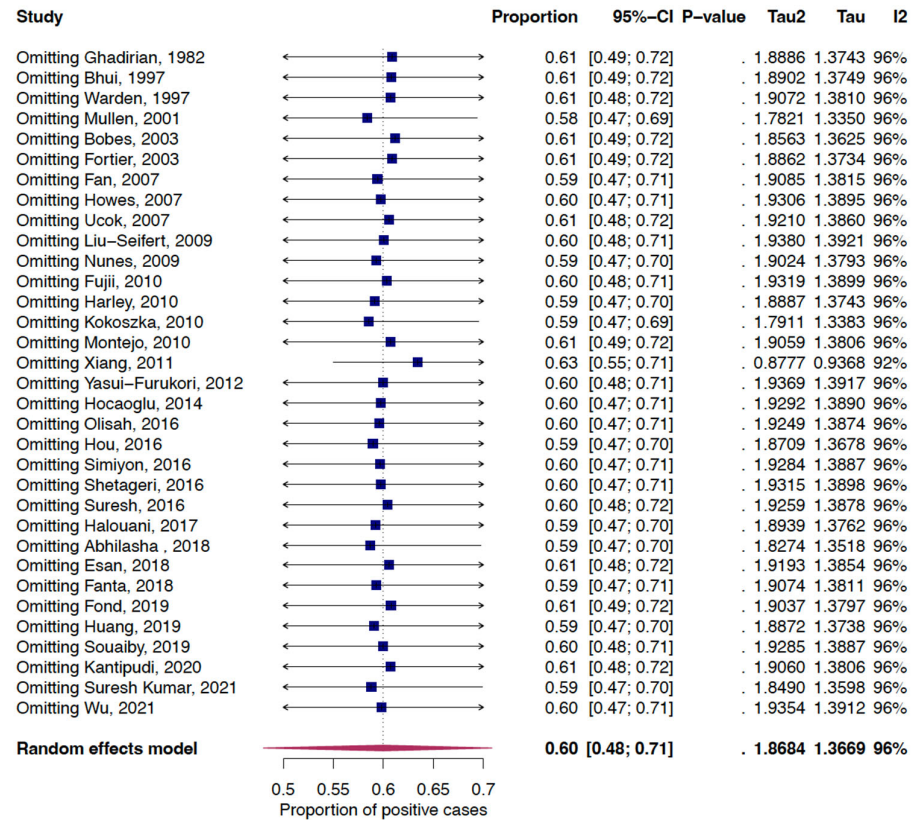
## Supplementary material 15. Leave-one-out analyses



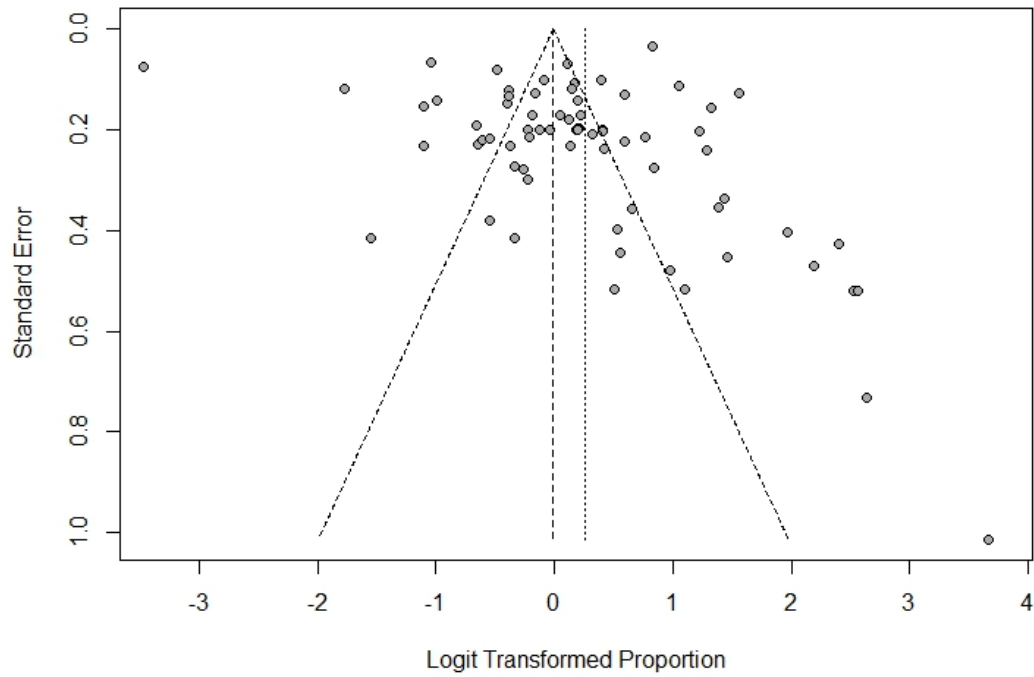
## Supplementary material 16. Leave-one-out analyses, men



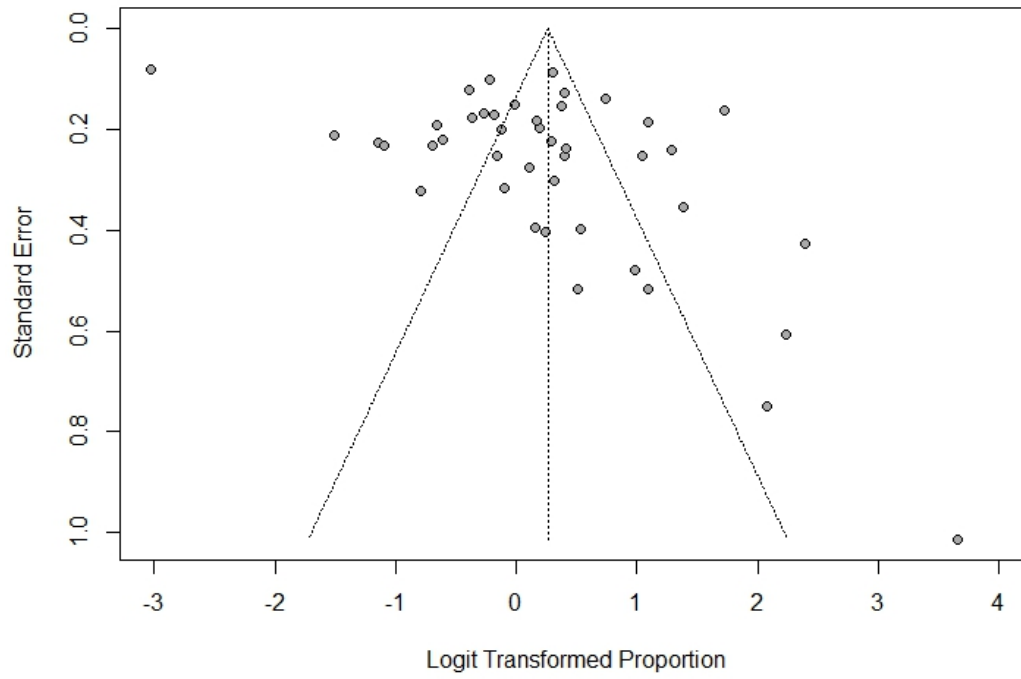
## Supplementary material 17. Leave-one-out analyses, women



Supplementary material 18. Funnel plot

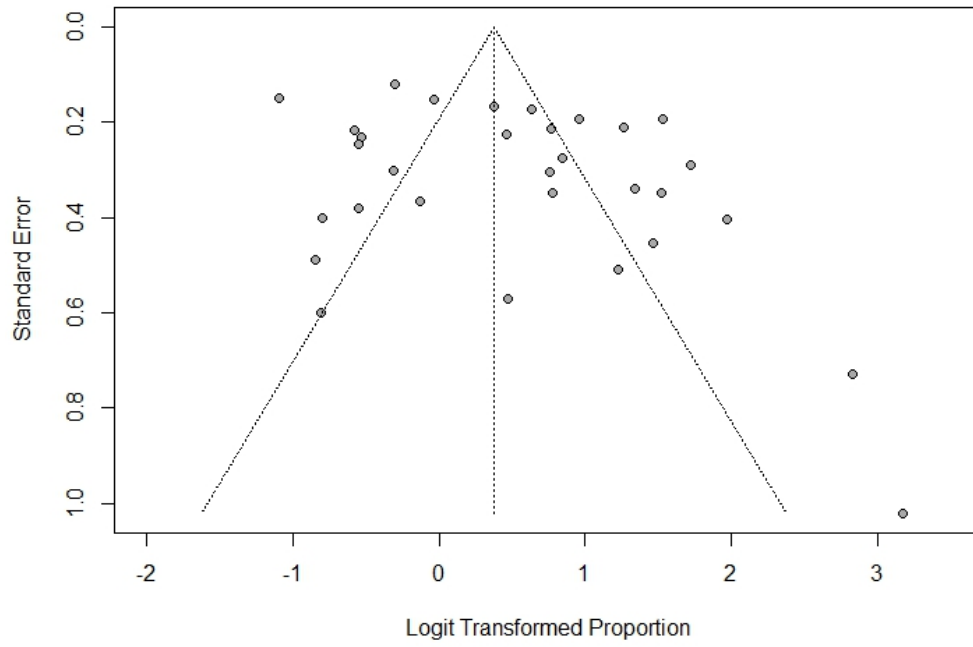


Supplementary material 19. Funnel plot, men





Supplementary material 20. Funnel plot, women



**Supplementary material 21. Factors associated with the global prevalence of sexual dysfunctions in schizophrenia: subgroup analyses.**

Subgroup analyses

Variable	Yes, n	Pooled prevalence estimates	No, n	Pooled prevalence estimates	p value
<b>Study design</b>					
High quality study	30	57.0%	42	56.4%	0.21
<b>Cross-sectional design (vs. cohort)</b>	<b>65</b>	<b>58.2%</b>	<b>6</b>	<b>36.3%</b>	<b>0.03</b>
Consecutive Inclusions	17	47.3%	38	58.8%	0.12
<b>Sexual dysfunction as a primary objective</b>	<b>62</b>	<b>58.3%</b>	<b>8</b>	<b>41.7%</b>	<b>0.008</b>
Validated tool for diagnosis	59	58.6%	12	44.3%	0.18
Patient-reported diagnosis	42	55.2%	29	57.8%	0.68
Clinical interview diagnosis	9	48.4%	62	57.4%	0.52
Clinician-rated tool diagnosis	20	61.7%	51	54.1%	0.20
<b>Time and location</b>					
Year of publication 2010 or after	46	58.1%	26	53.5%	0.45
<b>Year of publication 2015 or after</b>	<b>30</b>	<b>63.7%</b>	<b>42</b>	<b>50.8%</b>	<b>0.02</b>
High income country	35	52.4%	34	62.1%	0.07

Western country	32	53.4%	37	60.7%	0.18
Asia	20	57.4%	49	57.4%	0.99
Western Europe	15	49.5%	53	59.6%	<b>0.05</b>
North America	11	57.7%	58	57.3%	0.95
Middle East	9	62.5%	60	56.6%	0.50
Africa	8	64.6%	61	56.3%	0.34
Eastern Europe	3	74.3%	65	57.2%	0.20

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Sociodemographic variables

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≥50% men	55	54.5%	13	64.4%	0.20
Mean age 35 years or more	28	52.7%	13	59.0%	0.38
Mean age 40 years or more	14	50.7%	27	56.7%	0.53
≥60% white participants	7	60.8%	5	57.3%	0.59
≥20% Black participants	6	57.2%	4	54.8%	0.63
≥30% Black participants	3	57.2%	7	57.1%	0.99
≥40% educated participants	12	61.6%	8	59.4%	0.79
≥50% educated participants	10	65.3%	10	56.6%	0.35
Only partnered participants	13	61.8%	34	59.0%	0.68
≥50% single participants	25	58.5%	22	61.2%	0.67

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Physical health

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Somatic diseases excluded	37	55.5%	30	55.3%	0.97
Hypertension excluded	31	54.9%	3	57.8%	0.86
Diabetes excluded	31	54.9%	3	57.8%	0.86
Metabolic syndrome excluded	24	55.2%	3	58.9%	0.80
≥40% hyperprolactinemia	6	57.6%	3	48.7%	0.64

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Addictions					
Substance use excluded	24	58.4%	43	53.5%	0.40
Smokers included	9	54.9%	13	61.0%	0.49
≥40% smokers	7	54.5%	15	58.7%	0.52
Alcohol use disorder included	10	57.3%	24	57.5%	0.98
Cannabis use disorder included	3	54.1%	23	59.3%	0.60
Psychiatric diagnosis and illness severity					
All included patients with schizophrenia diagnosis	46	58.0%	14	48.5%	0.11
Schizoaffective disorder included	9	48.4%	51	56.7%	0.10
Mean age of onset ≥27 years	5	56.9%	4	40.9%	0.22
Mean illness duration ≥10 years	11	57.6%	7	69.5%	0.35
Mean illness duration ≥15 years	6	62.8%	12	62.3%	0.97
Stabilization at inclusion	38	57.1%	7	50.0%	0.34
Mean PANSS total ≥60	4	60.4%	8	51.3%	0.37
Mean PANSS positive ≥14	3	63.9%	4	50.8%	0.39
Mean PANSS negative ≥14	5	64.1%	4	51.9%	0.29
Antipsychotics					
≥95% participants treated with antipsychotics included	52	56.7%	6	58.0%	0.81
≥20% first-generation antipsychotics included	25	58.1%	20	54.8%	0.64
≥40% first-generation antipsychotics included	14	60.4%	31	54.9%	0.39
≥50% first-generation antipsychotics included	13	61.7%	32	54.5%	0.28
<b>≥60% first-generation antipsychotics included</b>	<b>9</b>	<b>69.0%</b>	<b>36</b>	<b>53.4%</b>	<b>0.02</b>

<b>≥80% first-generation antipsychotics included</b>	<b>7</b>	<b>72.2%</b>	<b>38</b>	<b>53.7%</b>	<b>0.02</b>
≥20% second-generation antipsychotics included	25	45.2%	4	69.9%	0.09
<b>≥40% second-generation antipsychotics included</b>	<b>20</b>	<b>42.0%</b>	<b>9</b>	<b>58.9%</b>	<b>0.03</b>
≥50% second-generation antipsychotics included	33	51.5%	14	63.8%	0.09
≥60% second-generation antipsychotics included	16	40.0%	13	57.4%	0.13
≥80% second-generation antipsychotics included	10	37.9%	19	54.3%	0.26
Antipsychotic polytherapy included	19	46.1%	26	58.3%	0.10
≥20% antipsychotic polytherapy included	13	42.9%	32	57.2%	0.10
≥40% antipsychotic polytherapy included	8	39.4%	37	56.0%	0.17
≥60% antipsychotic polytherapy included	3	53.1%	42	53.2%	0.99
Amisulpride, risperidone, or haloperidol (high anti-D2 potency) included	31	56.5%	5	50.7%	0.55
≥20% antipsychotics with high anti-D2 potency included	24	48.1%	12	56.9%	0.95
≥40% antipsychotics with high anti-D2 potency included	13	58.9%	23	53.9%	0.55
≥60% antipsychotics with high anti-D2 potency included	4	62.1%	32	55.1%	0.72
≥80% antipsychotics with high anti-D2 potency included	2	47.1%	34	56.2%	0.73
Amisulpride included	2	50.0%	32	59.0%	0.41
Risperidone included	31	56.5%	6	58.3%	0.89
≥20% risperidone included	22	56.2%	15	57.5%	0.97
≥40% risperidone included	6	57.4%	31	56.6%	0.94
≥60% risperidone included	2	47.1%	35	57.2%	0.70
Haloperidol included	14	54.9%	14	62.1%	0.40
≥10% haloperidol included	8	57.0%	20	59.2%	0.84
≥20% haloperidol included	5	56.4%	23	59.1%	0.84
≥30% haloperidol included	2	75.5%	26	57.3%	0.54
Olanzapine, quetiapine, or clozapine (low anti-D2 potency) included	33	57.5%	8	56.1%	0.90
≥20% antipsychotics with low anti-D2 potency included	27	56.8%	14	57.8%	0.90
≥40% antipsychotics with low anti-D2 potency included	16	57.8%	25	56.6%	0.74
≥60% antipsychotics with low anti-D2 potency included	6	55.5%	35	57.4%	0.96

≥80% antipsychotics with low anti-D2 potency included	2	54.2%	39	57.3%	0.50
Olanzapine included	28	55.8%	8	67.1%	0.33
≥20% olanzapine included	18	56.5%	18	59.6%	0.70
≥40% olanzapine included	5	47.6%	31	59.6%	0.58
≥60% olanzapine included	2	30.8%	34	59.6%	0.42
Quetiapine included	14	56.1%	18	59.0%	0.74
≥10% quetiapine included	7	51.6%	25	59.3%	0.45
≥30% quetiapine included	3	67.7%	29	56.5%	0.56
Clozapine included	15	62.1%	22	54.6%	0.29
≥20% clozapine included	7	68.7%	30	54.9%	0.09
Chlorpromazine included	6	64.9%	23	59.3%	0.49
≥10% chlorpromazine included	3	71.7%	25	58.8%	0.30
≥40% chlorpromazine included	6	57.6%	3	48.7%	0.64
Aripiprazole included	11	59.0%	23	55.9%	0.70
Mean chlorpromazine equivalent ≥400 mg/d	6	59.3%	3	45.5%	0.29
Mean chlorpromazine equivalent ≥500 mg/d	2	56.6%	7	54.3%	0.78

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Other psychotropic drugs

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Antidepressants included	18	54.7%	18	60.5%	0.51
≥10% antidepressants included	13	57.6%	23	57.7%	0.99
≥20% antidepressants included	5	56.4%	31	58.0%	0.92
≥30% antidepressants included	3	63.6%	33	57.3%	0.78
Mood stabilizers included	7	62.2%	9	61.5%	0.93
≥10% mood stabilizers included	5	55.5%	11	64.6%	0.23
≥30% mood stabilizers included	2	56.6%	14	62.4%	0.35
Anxiolytics included	9	46.2%	6	67.2%	0.17
≥10% anxiolytics included	7	45.3%	8	62.8%	0.33

≥40% anxiolytics included	4	44.7%	11	52.4%	0.47
Anticholinergic agents included	10	53.8%	5	55.0%	0.91
≥10% anticholinergic agents included	9	57.3%	6	49.5%	0.48
≥20% anticholinergic agents included	5	59.4%	10	51.1%	0.48
Hypnotics included	4	48.7%	3	52.2%	0.78
≥20% hypnotics included	2	40.1%	5	54.0%	0.45

**Supplementary material 22. Factors associated with the prevalence of sexual dysfunctions in men with schizophrenia: subgroup analyses.**

Variable	Yes, n	Pooled prevalence estimates	No, n	Pooled prevalence estimates	p value
<b>Study design</b>					
High quality study	20	55.8%	24	56.3%	0.40
<b>Cross-sectional design (vs. cohort)</b>	<b>42</b>	<b>57.3%</b>	<b>2</b>	<b>25.4%</b>	<b>0.002</b>
<b>Consecutive Inclusions</b>	<b>15</b>	<b>44.5%</b>	<b>22</b>	<b>62.7%</b>	<b>0.02</b>
Sexual dysfunction as a primary objective	42	56.6%	2	36.7%	0.23
Validated tool for diagnosis	37	56.4%	7	52.2%	0.77
Patient-reported diagnosis	22	53.5%	22	57.5%	0.66
Clinical interview diagnosis	6	54.2%	38	55.9%	0.92
Clinician-rated tool diagnosis	14	58.0%	30	54.7%	0.76
<b>Time and location</b>					
Year of publication 2010 or after	27	54.3%	17	58.0%	0.63
Year of publication 2015 or after	15	62.7%	29	51.9%	0.14
High income country	21	54.7%	22	59.5%	0.46
Western country	19	55.1%	25	55.8%	0.92
Asia	13	50.0%	31	57.5%	0.37
Western Europe	6	51.8%	38	56.5%	0.38
North America	9	55.7%	35	55.7%	0.99
Middle East	8	62.7%	36	54.0%	0.26



Africa	4	54.7%	40	55.8%	0.88
Eastern Europe	2	78.9%	42	54.6%	0.08
<hr/>					
Sociodemographic variables					
<hr/>					
≥50% men					
Mean age 35 years or more	13	52.1%	4	66.3%	0.49
Mean age 40 years or more	10	53.0%	7	57.1%	0.76
≥50% single participants					
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Physical health					
<hr/>					
Somatic diseases excluded	25	52.5%	17	58.3%	0.52
Hypertension excluded					
Diabetes excluded					
Metabolic syndrome excluded					
≥40% hyperprolactinemia	4	60.2%	2	61.3%	0.94
<hr/>					
Addictions					
<hr/>					
Substance use excluded	19	56.7%	23	52.5%	0.47
≥40% smokers	2	82.8%	2	40.4%	0.32
<b>Alcohol use disorder included</b>	<b>2</b>	<b>44.4%</b>	<b>19</b>	<b>55.6%</b>	<b>0.03</b>
<hr/>					
Psychiatric diagnosis and illness severity					
<hr/>					
All included patients with schizophrenia diagnosis	18	60.6%	9	49.4%	0.26
Schizoaffective disorder included	4	50.5%	22	63.4%	0.14
Mean illness duration ≥10 years	6	47.5%	4	67.0%	0.43
Mean illness duration ≥15 years	3	60.3%	7	50.0%	0.44

Only remitted subjects included					
Stabilization at inclusion	23	52.4%	3	50.3%	0.25
Mean PANSS total $\geq 60$					
Mean PANSS positive $\geq 14$					
Mean PANSS negative $\geq 14$					

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#### Antipsychotics

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$\geq 95\%$ treated with antipsychotics included	34	56.1%	2	52.8%	0.06
$\geq 20\%$ first-generation antipsychotics included	13	47.5%	10	57.2%	0.27
$\geq 40\%$ first-generation antipsychotics included	5	48.8%	18	53.1%	0.60
$\geq 50\%$ first-generation antipsychotics included	4	50.3%	19	52.6%	0.81
$\geq 60\%$ first-generation antipsychotics included	3	56.0%	20	51.5%	0.67
$\geq 80\%$ first-generation antipsychotics included	2	55.4%	21	51.9%	0.84
$\geq 20\%$ second-generation antipsychotics included	20	51.6%	3	51.4%	0.98
$\geq 40\%$ second-generation antipsychotics included	17	51.5%	6	52.0%	0.94
$\geq 50\%$ second-generation antipsychotics included	17	51.5%	6	52.0%	0.94
$\geq 60\%$ second-generation antipsychotics included	14	55.0%	9	47.0%	0.30
$\geq 80\%$ second-generation antipsychotics included	11	54.8%	12	47.4%	0.38
Antipsychotic polytherapy included	6	46.0%	12	51.5%	0.57
$\geq 20\%$ antipsychotic polytherapy included	4	44.2%	14	51.5%	0.48
$\geq 40\%$ antipsychotic polytherapy included	4	44.2%	14	51.5%	0.48
Amisulpride, risperidone, or haloperidol (high anti-D2 potency) included	19	53.9%	2	42.5%	0.07
$\geq 20\%$ antipsychotics with high anti-D2 potency included	16	54.8%	5	45.6%	0.23
$\geq 40\%$ antipsychotics with high anti-D2 potency included	8	51.1%	13	53.8%	0.78
$\geq 60\%$ antipsychotics with high anti-D2 potency included	5	61.7%	16	49.8%	0.18
$\geq 20\%$ risperidone included	14	56.5%	5	42.4%	0.86
$\geq 40\%$ risperidone included	3	49.2%	16	52.9%	0.83
$\geq 60\%$ risperidone included	2	63.8%	17	51.0%	0.22
Haloperidol included	10	48.8%	8	62.0%	0.22

≥10% haloperidol included	8	48.3%	10	60.0%	0.26
≥20% haloperidol included	5	51.9%	13	55.8%	0.70
≥30% haloperidol included	2	69.6%	16	53.9%	0.56
Olanzapine, quetiapine, or clozapine (low anti-D2 potency) included	19	53.0%	2	62.4%	0.19
≥20% antipsychotics with low anti-D2 potency included	15	54.0%	6	54.9%	0.93
≥40% antipsychotics with low anti-D2 potency included	9	57.0%	12	51.5%	0.56
≥60% antipsychotics with low anti-D2 potency included	4	65.7%	17	51.2%	0.32
Olanzapine included	16	50.4%	3	71.6%	0.06
≥20% olanzapine included	9	56.8%	10	50.4%	0.52
≥40% olanzapine included	3	41.3%	16	56.2%	0.21
Quetiapine included	7	51.5%	11	54.8%	0.77
≥10% quetiapine included	5	54.9%	13	52.8%	0.89
≥30% quetiapine included	2	79.1%	16	49.6%	0.20
Clozapine included	9	60.4%	11	47.4%	0.13
≥20% clozapine included	4	68.4%	16	49.6%	0.10
Chlorpromazine included	2	54.1%	16	53.6%	0.95
Aripiprazole included	5	48.2%	12	55.3%	0.57
Mean chlorpromazine equivalent ≥500 mg/d	3	42.9%	2	32.8%	0.46

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Other psychotropic drugs

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Antidepressants included	6	42.8%	16	56.5%	0.16
≥10% antidepressants included	5	40.7%	17	56.4%	0.14
≥20% antidepressants included	2	29.3%	20	55.5%	0.09
<b>Anxiolytics included</b>	<b>3</b>	<b>34.6%</b>	<b>3</b>	<b>79.0%</b>	<b>0.006</b>
Anticholinergic agents included					
≥10% anticholinergic agent included					

**Supplementary material 23. Factors associated with the prevalence of sexual dysfunctions in women with schizophrenia: subgroup analyses.**

Variable	Yes, n	Pooled prevalence estimates	No, n	Pooled prevalence estimates	p value
<b>Study design</b>					
High quality study	16	62.2%	17	58.8%	0.74
Consecutive Inclusions	8	42.9%	20	58.7%	0.35
Sexual dysfunction as a primary objective	30	59.4%	2	48.4%	0.27
Validated tool for diagnosis	28	62.7%	4	27.8%	0.29
Patient-reported diagnosis	17	64.7%	15	51.5%	0.26
Clinical interview diagnosis	3	27.2%	29	61.7%	0.44
Clinician-rated tool diagnosis	12	57.6%	20	59.3%	0.84
<b>Time and location</b>					
Year of publication 2010 or after	22	53.3%	11	63.0%	0.39
Year of publication 2015 or after	15	69.1%	18	52.0%	0.12
High income country	16	55.8%	15	68.7%	0.14
Western	15	56.4%	17	60.0%	0.83
Asia	11	55.3%	21	59.7%	0.71
Western Europe	6	46.8%	26	61.4%	0.20
North America	6	57.2%	26	59.0%	0.92
Middle East	3	55.7%	29	58.9%	0.66
Africa	4	69.6%	28	57.0%	0.22

Sociodemographic variables					
≥50% men					
Mean age 35 years or more	8	64.0%	4	53.7%	0.34
Mean age 40 years or more	5	57.9%	7	62.8%	0.58
≥50% single					
Physical health					
Somatic diseases excluded	15	47.8%	16	65.2%	0.11
Hypertension excluded					
Diabetes excluded					
Metabolic syndrome excluded					
Addictions					
Substance use excluded	9	56.6%	22	57.3%	0.92
Smokers included					
≥40% smokers					
Psychiatric diagnosis and illness severity					
All included patients with schizophrenia diagnosis	16	60.0%	5	47.0%	0.37
Schizoaffective disorder included	4	41.2%	16	60.0%	0.19
Mean illness duration ≥10 years	5	62.2%	3	70.6%	0.14
Mean illness duration ≥15 years	2	62.2%	6	67.5%	0.38
Only remitted subjects included					
Stabilization at inclusion					
Mean PANSS total ≥60					

Mean PANSS positive  $\geq 14$   
Mean PANSS negative  $\geq 14$

Antipsychotics					
$\geq 95\%$ treated with antipsychotics included	24	62.0%	3	63.2%	0.90
$\geq 20\%$ first-generation antipsychotics included	6	64.1%	6	63.0%	0.94
$\geq 40\%$ second-generation antipsychotics included	9	61.7%	3	68.4%	0.57
$\geq 50\%$ second-generation antipsychotics included	9	61.7%	3	68.4%	0.57
$\geq 60\%$ second-generation antipsychotics included	7	57.4%	5	70.4%	0.32
$\geq 80\%$ second-generation antipsychotics included	3	58.4%	9	64.8%	0.77
Antipsychotic polytherapy included	4	64.6%	5	53.4%	0.43
$\geq 20\%$ antipsychotic polytherapy included	2	59.2%	7	58.6%	0.97
$\geq 40\%$ antipsychotic polytherapy included					
$\geq 20\%$ antipsychotics with high anti-D2 potency included	8	59.0%	3	60.9%	0.91
$\geq 40\%$ antipsychotics with high anti-D2 potency included	6	63.3%	5	55.7%	0.64
$\geq 80\%$ antipsychotics with high anti-D2 potency included					
$\geq 20\%$ risperidone included	8	59.0%	3	60.9%	0.91
$\geq 40\%$ risperidone included	3	63.3%	8	57.8%	0.79
$\geq 60\%$ risperidone included					
Haloperidol included	5	59.5%	4	60.4%	0.96
$\geq 10\%$ haloperidol included	3	64.8%	6	58.8%	0.83
$\geq 20\%$ haloperidol included	3	64.8%	6	58.8%	0.83
$\geq 30\%$ haloperidol included					
Olanzapine, quetiapine, or clozapine included					
$\geq 20\%$ antipsychotics with low anti-D2 potency included	8	60.5%	2	54.7%	0.66
$\geq 40\%$ antipsychotics with low anti-D2 potency included	5	52.5%	5	65.6%	0.48
$\geq 60\%$ antipsychotics with low anti-D2 potency included	2	57.9%	8	60.2%	0.88
$\geq 20\%$ olanzapine included	5	52.5%	5	65.6%	0.48
$\geq 40\%$ olanzapine included	3	64.6%	7	56.5%	0.70

<b>Quetiapine included</b>	<b>3</b>	<b>33.7%</b>	<b>5</b>	<b>72.1%</b>	<b>0.01</b>
≥10% quetiapine included	2	38.8%	6	64.4%	0.10
Clozapine included	4	64.1%	5	58.4%	0.80
≥10% chlorpromazine included					
Aripiprazole included	3	48.7%	6	62.1%	0.42
Mean chlorpromazine equivalent ≥400 mg/d					
Mean chlorpromazine equivalent ≥600 mg/d					
<hr/>					
<b>Other psychotropic drugs</b>					
Antidepressants included	6	54.5%	7	59.5%	0.68
≥10% antidepressants included	6	54.5%	7	59.5%	0.68
≥20% antidepressants included	4	55.2%	9	57.9%	0.85
Mood stabilizers included					
Anxiolytics included					
Anticholinergic agents included					
≥10% anticholinergic agent included					

**Supplementary material 24. Factors associated with the global prevalence of sexual dysfunctions in schizophrenia: metaression analyses.**

Variables	N	Estimate	Lower limit	Upper limit	p value
<b>Loss of libido</b>	<b>35</b>	<b>2.168</b>	<b>1.110</b>	<b>3.227</b>	<b>&lt; .001</b>
<b>Orgasmic dysfunction</b>	<b>35</b>	<b>1.312</b>	<b>0.077</b>	<b>2.547</b>	<b>0.04</b>
Genital pain	10	0.061	0.028	0.127	0.22
Year of publication	71	0.018	-0.011	0.047	0.22
<hr/> <b>Sociodemographic variables</b> <hr/>					
Men	67	-0.037	-1.031	0.958	0.94
Mean age	41	-0.016	-0.084	0.051	0.63
White	12	0.889	-0.444	2.223	0.17
Asian	8	-2.462	-5.987	1.063	0.14
Black	10	0.228	-1.255	1.712	0.73
High education	20	0.013	-2.161	2.187	0.99
Single	46	-0.152	-0.987	0.683	0.72
Unemployment	32	0.713	-0.635	2.061	0.23
<hr/> <b>Physical health</b> <hr/>					
Hypertension	33	-4.413	-19.562	10.735	0.56
Diabetes	36	-4.207	-17.923	9.509	0.54
Metabolic syndrome	27	0.531	-3.954	5.017	0.81
Hyperprolactinemia	9	2.391	-0.462	5.243	0.09
<hr/> <b>Addictions</b> <hr/>					
Smokers	23	0.257	-1.154	1.667	0.71
Alcohol use disorder	33	0.960	-1.413	3.334	0.42
Cannabis use disorder	25	0.947	-2.210	4.104	0.54
<hr/> <b>Psychiatric diagnosis and illness severity</b> <hr/>					
Schizophrenia	59	0.354	-1.367	2.075	0.68
Schizoaffective disorders	59	3.070	-0.637	6.777	0.10
Age at illness onset	9	0.056	-0.400	0.513	0.78
Illness duration	18	-0.079	-0.191	0.032	0.15



Variables	N	Estimate	Lower limit	Upper limit	p value
Proportion of remitted subjects	10	2.470	-1.783	6.723	0.22
PANSS Total Score	12	0.010	-0.021	0.041	0.49
PANSS Positive Score	7	0.072	-0.152	0.295	0.44
PANSS Negative Score	9	0.043	-0.131	0.217	0.58
<hr/>					
<b>Antipsychotics</b>					
<hr/>					
Percentage of first-generation antipsychotics	45	0.628	-0.200	1.456	0.13
Percentage of second-generation antipsychotics	47	-0.730	-1.678	0.217	0.16
Percentage of antipsychotic polytherapy	45	-1.150	-2.526	0.227	0.10
Percentage of amisulpride, risperidone, or haloperidol (high anti-D2 potency)	36	0.018	-1.301	1.338	0.98
Percentage of amisulpride	34	-2.268	-19.723	15.187	0.79
Percentage of risperidone	37	-0.210	-1.725	1.305	0.82
Percentage of haloperidol	28	-0.700	-3.755	2.354	0.69
Percentage of olanzapine, quetiapine, or clozapine (low anti-D2 potency)	41	-0.044	-1.164	1.077	0.94
Percentage of olanzapine	36	-0.985	-2.460	0.489	0.27
Percentage of quetiapine	32	0.016	-3.383	3.416	0.99
Percentage of clozapine	37	0.768	-0.850	2.387	0.34
Percentage of chlorpromazine	29	1.992	-1.782	5.766	0.29
Percentage of aripiprazole	34	-0.178	-1.784	1.428	0.87
<b>Mean chlorpromazine equivalent</b>	<b>10</b>	<b>0.002</b>	<b>&lt; 0.001</b>	<b>0.003</b>	<b>0.03</b>
<hr/>					
<b>Other psychotropic drugs</b>					
<hr/>					
Percentage of antidepressants	36	-0.259	-3.523	3.005	0.87
Percentage of mood stabilizers	16	-0.823	-4.371	2.725	0.63
Percentage of anxiolytics	15	-1.122	-4.900	2.655	0.53
Percentage of anticholinergics	15	0.706	-2.448	3.860	0.64
Percentage of hypnotics	7	0.155	-1.532	1.842	0.82

**Supplementary material 25. Factors associated with the prevalence of sexual dysfunctions in men with schizophrenia: metaregression analyses.**

Variables	N	Estimate	Lower limit	Upper limit	p value
<b>Erectile dysfunction</b>	<b>33</b>	<b>3.166</b>	<b>1.964</b>	<b>4.368</b>	<b>&lt; .001</b>
Ejaculation dysfunction	19	1.083	-0.651	2.816	0.22
Year of publication	44	0.007	-0.026	0.040	0.69
<hr/>					
Sociodemographic variables					
<hr/>					
Mean age	17	< 0.001	-0.087	0.086	0.99
<hr/>					
Physical health					
<hr/>					
Hyperprolactinemia	7	0.277	-2.477	3.032	0.84
<hr/>					
Addictions					
<hr/>					
Smokers	4	3.996	-2.867	10.859	0.25
Alcohol use disorder	21	-6.067	-19.800	7.665	0.39
Cannabis use disorder	17	-6.032	-20.483	8.419	0.41
<hr/>					
Psychiatric diagnosis and illness severity					
<hr/>					
Schizophrenia	27	0.480	-2.208	3.197	0.73
Schizoaffective disorders	26	-1.733	-16.356	12.890	0.82
Age at illness onset	4	-0.146	-0.373	0.081	0.23
Illness duration	9	-0.160	-0.329	0.009	0.06
<hr/>					
Antipsychotics					
<hr/>					
Percentage of first-generation antipsychotics	23	-0.090	-1.285	1.105	0.88
Percentage of second-generation antipsychotics	23	0.220	-0.792	1.232	0.67
Percentage of antipsychotic polytherapy	18	-0.501	-2.165	1.163	0.56
Percentage of amisulpride, risperidone, or haloperidol (high anti-D2 potency)	21	0.515	-1.137	2.167	0.54
Percentage of amisulpride	17	-6.945	-37.778	23.889	0.66
Percentage of risperidone	19	1.283	-0.927	3.492	0.26
Percentage of haloperidol	18	-0.599	-3.827	2.629	0.72
Percentage of olanzapine, quetiapine, or clozapine (low anti-D2 potency)	21	0.067	-1.411	1.544	0.93
Percentage of olanzapine	19	-0.878	-2.544	0.788	0.30

Variables	N	Estimate	Lower limit	Upper limit	p value
Percentage of quetiapine	18	1.958	-1.717	5.632	0.30
Percentage of clozapine	20	2.547	-0.302	5.395	0.08
Percentage of chlorpromazine	18	-1.116	-9.673	7.441	0.80
Percentage of aripiprazole	17	-3.508	-8.225	1.208	0.14
Mean chlorpromazine equivalent	5	0.003	-0.002	0.007	0.24
<hr/>					
Other psychotropic drugs					
<hr/>					
Percentage of antidepressants	22	-2.671	-6.378	1.037	0.16
Percentage of mood stabilizers	4	-6.237	-17.887	5.414	0.29
Percentage of <b>anxiolytics</b>	<b>6</b>	<b>-9.388</b>	<b>-17.519</b>	<b>-1.256</b>	<b>0.02</b>
Percentage of <b>anticholinergics</b>	<b>3</b>	<b>-4.019</b>	<b>-5.747</b>	<b>-2.291</b>	<b>&lt; .001</b>

**Supplementary material 26. Factors associated with the prevalence of sexual dysfunctions in women with schizophrenia: metaregression analyses.**

Variables	N	Estimate	Lower limit	Upper limit	p value
<b>Amenorrhea</b>	<b>5</b>	<b>2.825</b>	<b>1.693</b>	<b>3.956</b>	<b>&lt;.001</b>
Galactorrhea	4	2.343	-1.970	6.655	0.72
Year	32	0.041	-0.016	0.098	0.16
<hr/>					
Sociodemographic variables					
<hr/>					
Mean age	12	-0.015	-0.100	-0.070	0.73
<hr/>					
Addictions					
<hr/>					
Alcohol use disorder	10	-42.279	-123.025	38.466	0.30
Cannabis use disorder	10	-16.912	-49.21	15.386	0.30
<hr/>					
Psychiatric diagnosis and illness severity					
<hr/>					
Schizophrenia	20	0.386	-2.781	3.554	0.81
Schizoaffective disorders	19	-1.895	-6.907	3.117	0.46
Age at illness onset	4	0.105	-0.366	0.576	0.66
Illness duration	8	-0.038	-0.105	0.029	0.27
PANSS Total Score	3	0.021	-0.012	0.054	0.21
<b>PANSS Positive Score</b>	<b>3</b>	<b>0.448</b>	<b>0.174</b>	<b>0.722</b>	<b>0.001</b>
PANSS Negative Score	3	0.076	-0.047	0.198	0.23
<hr/>					
Antipsychotics					
<hr/>					
Percentage of first-generation antipsychotics	12	0.341	-3.010	3.692	0.83
Percentage of second-generation antipsychotics	12	-1.047	-3.525	1.431	0.40
Percentage of antipsychotic polytherapy	9	-0.820	-4.085	5.725	0.73
Percentage of amisulpride, risperidone, or haloperidol (high anti-D2 potency)	11	0.439	-2.888	3.767	0.80
Percentage of amisulpride	8	-35.332	-126.999	56.335	0.42
Percentage of risperidone	11	0.260	-4.035	4.555	0.84
Percentage of haloperidol	9	1.671	-5.884	9.227	0.66
Percentage of olanzapine, quetiapine, or clozapine (low anti-D2 potency)	10	-0.118	-3.036	2.800	0.94
Percentage of olanzapine	10	-0.201	-2.872	2.471	0.88

Variables	N	Estimate	Lower limit	Upper limit	p value
Percentage of quetiapine	8	-4.949	-13.782	3.885	0.27
Percentage of clozapine	9	5.202	-2.777	13.180	0.20
Percentage of chlorpromazine	8	-5.368	-142.200	131.464	0.94
Percentage of aripiprazole	9	-3.277	-12.019	5.465	0.46
<hr/>					
Other psychotropic drugs					
<hr/>					
Percentage of antidepressants	13	-1.245	-5.230	2.740	0.54
Percentage of mood stabilizers	4	-11.682	-39.181	15.817	0.41
Percentage of anxiolytics	4	-1.355	-12.439	9.729	0.81

N: number of studies

PANSS: Positive And Negative Syndrome Scale

Statistically significant results ( $p < 0.05$ ) are in bold.

**Supplementary material 27. Factors associated with the prevalence of loss of libido, orgasm dysfunction, genital pain and sex specific dysfunctions in schizophrenia: subgroup analyses.**

Variable	Loss of libido pooled prevalence estimates (95%CI): 0.406 (0.307-0.514)					Orgasm dysfunction pooled prevalence estimates (95% CI): 0.280 (0.184-0.402)					Genital pain pooled prevalence estimates (95%CI): 0.061 (0.028-0.127)				
	Yes, n	Pooled estimate of the prevalence	No, n	Pooled estimate of the prevalence	p value	Yes, n	Pooled estimate of the prevalence	No, n	Pooled estimate of the prevalence	p value	Yes, n	Pooled estimate of the prevalence	No, n	Pooled estimate of the prevalence	p value
<b>Study design</b>															
High quality study	17	38.8%	17	43.2%	0.33	17	27.2%	18	28.5%	0.04	3	6.9%	7	6.2%	0.004
Cross-sectional design (vs. cohort)						33	32.2%	2	0.7%	0.001					
Consecutive Inclusions	11	23.5%	19	53.7%	<.001	11	22.6%	20	34.2%	0.26	2	7.1%	6	4.7%	0.006
Sexual dysfunction as a primary objective											8	8.5%	2	1.6%	0.14
Validated tool for diagnosis	32	43.1%	2	10.7%	0.005						7	7.3%	3	3.5%	0.35
Patient-reported diagnosis	20	37.4%	14	43.5%	0.60	22	29.9%	13	24.7%	0.71	6	11.2%	4	1.8%	0.006
Clinical interview diagnosis	3	0.10%	31	44.6%	<.001	3	3.4%	32	31.5%	0.02	2	1.5%	8	7.4%	0.07
Clinician-rated tool diagnosis	11	56.2%	23	33.0%	0.04	10	37.5%	25	26.0%	0.48	2	1.6%	8	8.5%	0.14

Time and location															
Year of publication 2010 or after	23	45.7%	11	29.9%	0.18	24	34.6%	11	15.5%	0.12	<b>4</b>	<b>14.0%</b>	<b>6</b>	<b>3.3%</b>	<b>0.009</b>
Year of publication 2015 or after	<b>14</b>	<b>53.8%</b>	<b>20</b>	<b>32.2%</b>	<b>0.04</b>	<b>15</b>	<b>43.4%</b>	<b>20</b>	<b>18.7%</b>	<b>0.02</b>	3	12.9%	7	4.0%	0.12
High income country	10	29.4%	23	45.9%	0.17	11	14.1%	24	36.0%	0.07	8	4.5%	2	18.1%	0.14
Western country	10	31.5%	23	44.8%	0.28	12	17.1%	23	34.5%	0.15	8	4.5%	2	18.1%	0.14
Asia						12	33.0%	23	25.5%	0.56					
Western Europe						<b>4</b>	<b>8.6%</b>	<b>31</b>	<b>31.9%</b>	<b>0.03</b>	2	3.9%	8	6.6%	0.58
North America	4	18.6%	29	43.9%	0.23	5	14.3%	30	30.5%	0.45	<b>5</b>	<b>3.9%</b>	<b>5</b>	<b>11.3%</b>	<b>0.04</b>
Middle East	7	33.2%	26	43.0%	0.40	7	34.1%	28	26.1%	0.46					
Africa	5	43.4%	28	40.2%	0.86										
Eastern Europe															
South America															
Sociodemographics															
≥50% of men	28	38.3%	6	58.0%	0.41	28	27.5%	7	29.4%	0.92	6	4.3%	4	9.9%	0.28
Mean age 35 years or more	11	47.4%	8	50.4%	0.83	11	50.5%	8	29.1%	0.12					
Mean age 40 years or more	4	58.5%	15	45.7%	0.29	5	60.3%	14	34.7%	0.09					
≥5% of Asian participants															
≥20% black participants	2	47.2%	2	40.9%	0.86										
≥40% educated participants	8	57.8%	3	39.7%	0.44	8	50.1%	3	29.5%	0.31					
≥50% educated participants	6	66.8%	5	37.7%	0.25	6	52.2%	5	33.6%	0.51					
Only partnered participants	8	45.8%	20	46.9%	0.95	8	29.1%	21	35.1%	0.67					
≥50% single participants	14	49.2%	14	43.4%	0.63	14	34.2%	15	32.6%	0.89	5	6.3%	2	16.5%	0.35
Physical health															
Somatic diseases excluded	20	37.7%	13	51.1%	0.29	19	27.3%	15	33.7%	0.60	3	5.5%	6	6.7%	0.79

Hypertension excluded	17	37.6%	3	43.0%	0.85	16	26.8%	3	20.5%	0.85
Diabetes excluded	17	37.6%	3	43.0%	0.85	16	26.8%	3	20.5%	0.85
Metabolic syndrome excluded										
≥40% hyperprolactinemia										

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#### Addictions

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Substance use excluded	14	37.9%	19	45.7%	0.46	14	35.9%	20	25.4%	0.35	2	4.0%	7	7.2%	0.32
Smokers included	6	35.2%	7	44.9%	0.51	6	33.1%	8	34.9%	0.91					
≥40% smokers	4	41.7%	9	39.7%	0.89	4	34.3%	10	35.0%	0.96					
Alcohol use disorder included	5	48.7%	12	35.1%	0.41	5	47.4%	12	32.2%	0.42					
Cannabis use disorder included	2	27.7%	11	42.0%	0.29										

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#### Psychiatric diagnosis and illness severity

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All included patients with schizophrenia diagnosis	<b>19</b>	<b>52.2%</b>	<b>10</b>	<b>22.6%</b>	<b>&lt;.001</b>	<b>20</b>	<b>38.9%</b>	<b>10</b>	<b>13.6%</b>	<b>0.004</b>	4	12.6%	5	5.6%	0.20
Schizoaffective disorder included	<b>4</b>	<b>18.1%</b>	<b>23</b>	<b>45.2%</b>	<b>&lt;.001</b>	<b>4</b>	<b>16.5%</b>	<b>24</b>	<b>33.4%</b>	<b>0.01</b>	4	4.8%	4	12.6%	0.13
Mean age of illness onset ≥27 years	2	28.8%	2	24.3%	0.74	3	36.5%	2	24.7%	0.32					
Mean illness duration ≥10 years	6	46.9%	4	69.3%	0.38	7	45.4%	4	27.5%	0.45					
Mean illness duration ≥15 years	3	49.5%	7	52.7%	0.71	4	54.8%	7	30.3%	0.10					
Only remitted subjects included															
Stabilization at inclusion	20	44.3%	4	30.9%	0.24										
Mean PANSS total ≥60															
Mean PANSS positive ≥14															
Mean PANSS negative ≥14															

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#### Antipsychotics

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>95% treated with antipsychotics included						<b>27</b>	<b>28.9%</b>	<b>3</b>	<b>4.0%</b>	<b>0.02</b>					
≥20% first-generation antipsychotics included	14	37.1%	10	50.8%	0.38	15	25.5%	9	39.6%	0.40	3	4.7%	4	6.2%	0.78
≥40% first-generation antipsychotics included	6	54.7%	18	37.8%	0.30	5	34.0%	19	29.0%	0.86					
≥50% first-generation antipsychotics included	6	54.7%	18	37.8%	0.39	5	34.0%	19	29.0%	0.86					
≥60% first-generation antipsychotics included	<b>4</b>	<b>71.5%</b>	<b>20</b>	<b>36.0%</b>	<b>0.02</b>	3	71.0%	21	25.8%	0.10					
≥80% first-generation antipsychotics included	<b>4</b>	<b>71.5%</b>	<b>20</b>	<b>36.0%</b>	<b>0.02</b>	3	71.0%	21	25.8%	0.10					
≥20% second-generation antipsychotics included	13	30.7%	2	51.3%	0.10										
≥40% second-generation antipsychotics included	10	28.8%	5	42.4%	0.40	10	13.1%	4	34.2%	0.26					
≥50% second-generation antipsychotics included	16	38.4%	8	49.5%	0.45	18	25.8%	6	45.9%	0.29					
≥60% second-generation antipsychotics included	7	27.5%	8	37.9%	0.49	8	14.4%	6	23.3%	0.59					
≥80% second-generation antipsychotics included	4	25.2%	11	36.3%	0.56	4	13.5%	10	19.8%	0.67	2	1.5%	2	3.8%	0.45
Antipsychotic polytherapy included	12	36.7%	12	35.3%	0.92	12	28.9%	11	20.9%	0.59	4	4.5%	3	3.9%	0.89
≥20% antipsychotic polytherapy included	9	38.4%	15	35.6%	0.86	9	31.7%	14	21.0%	0.48	3	6.4%	4	3.7%	0.68
≥40% antipsychotic polytherapy included	6	28.5%	18	39.0%	0.34	6	27.5%	17	37.0%	0.69					
≥60% antipsychotic polytherapy included	3	29.5%	21	36.9%	0.54	3	35.0%	20	23.3%	0.40					
Amisulpride, risperidone, or haloperidol (high anti-D2 potency) included															
≥20% antipsychotics with high anti-D2 potency included	13	39.6%	4	44.4%	0.76	14	22.5%	4	50.5%	0.21					
≥40% antipsychotics with high anti-D2 potency included	7	35.3%	10	44.2%	0.65	8	22.4%	10	34.2%	0.58					
≥60% antipsychotics with high anti-D2 potency included	<b>2</b>	<b>5.6%</b>	<b>15</b>	<b>48.3%</b>	<b>&lt;.001</b>	<b>2</b>	<b>0.9%</b>	<b>16</b>	<b>37.1%</b>	<b>&lt;.001</b>	<b>2</b>	<b>0.9%</b>	<b>3</b>	<b>4.9%</b>	<b>0.02</b>

≥80% antipsychotics with high anti-D2 potency included																				
Amisulpride included																				
Risperidone included	16	38.3%	2	51.3%	0.31															
≥20% risperidone included	12	42.0%	6	34.1%	0.50	13	27.2%	5	19.4%	0.65										
≥40% risperidone included	3	27.9%	15	42.3%	0.65	3	25.5%	15	25.7%	0.99										
≥60% risperidone included																				
Haloperidol included	7	35.8%	6	54.3%	0.33	7	14.1%	6	46.3%	0.12										
≥10% haloperidol included	5	35.5%	8	49.3%	0.54	6	12.6%	7	41.7%	0.19										
≥20% haloperidol included	2	13.6%	11	51.1%	0.05	<b>3</b>	<b>6.0%</b>	<b>10</b>	<b>40.0%</b>	<b>0.03</b>										
≥30% haloperidol included																				
Olanzapine, quetiapine, or clozapine (low anti-D2 potency) included	18	42.7%	3	28.1%	0.53	19	29.1%	2	6.7%	0.22	4	4.7%	2	1.6%	0.34					
≥20% antipsychotics with low anti-D2 potency included	14	42.0%	7	37.4%	0.78	15	29.9%	6	14.8%	0.42	3	5.7%	3	2.5%	0.11					
≥40% antipsychotics with low anti-D2 potency included	7	54.3%	14	33.9%	0.15	9	38.9%	12	15.3%	0.14										
≥60% antipsychotics with low anti-D2 potency included	<b>3</b>	<b>66.0%</b>	<b>18</b>	<b>36.2%</b>	<b>0.05</b>	3	42.0%	18	22.0%	0.12										
≥80% antipsychotics with low anti-D2 potency included																				
Olanzapine included	14	48.9%	3	29.2%	0.41	15	36.7%	2	5.9%	0.19										
≥20% olanzapine included	8	52.3%	9	39.3%	0.40	8	36.5%	9	25.8%	0.60										
≥40% olanzapine included	3	58.2%	14	42.8%	0.55	3	63.1%	14	26.1%	0.17										
≥60% olanzapine included																				
Quetiapine included	7	40.5%	8	37.9%	0.86	8	20.2%	7	31.1%	0.51										
≥10% quetiapine included	6	40.7%	9	38.2%	0.86	6	23.3%	9	27.9%	0.75										
≥30% quetiapine included	<b>2</b>	<b>69.1%</b>	<b>13</b>	<b>34.8%</b>	<b>0.002</b>	2	35.4%	13	22.8%	0.25										
Clozapine included	9	34.4%	10	45.7%	0.37	10	29.2%	9	22.6%	0.67										
≥20% clozapine included	3	31.6%	16	41.7%	0.66	4	31.0%	15	24.5%	0.75										
Chlorpromazine included	2	75.6%	12	38.3%	0.12	<b>3</b>	<b>65.7%</b>	<b>11</b>	<b>21.7%</b>	<b>0.03</b>										
≥10% chlorpromazine included						<b>2</b>	<b>75.8%</b>	<b>12</b>	<b>23.5%</b>	<b>0.02</b>										

Aripiprazole included	4	27.5%	11	43.3%	0.11	4	26.3%	11	23.1%	0.82
Mean chlorpromazine equivalent ≥400 mg/d	3	28.9%	2	42.7%	0.48	4	35.2%	2	32.0%	0.78
Mean chlorpromazine equivalent ≥500 mg/d										
Mean chlorpromazine equivalent ≥600 mg/d										

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Other psychotropic drugs

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Antidepressants included	11	35.7%	10	48.7%	0.42	13	16.9%	10	41.2%	0.15					
≥10% antidepressants included	8	41.4%	13	43.0%	0.94	9	14.9%	14	37.5%	0.26	5	4.9%	2	4.2%	0.91
≥20% antidepressants included	4	32.1%	17	45.8%	0.74	4	8.4%	19	32.4%	0.13	4	4.7%	3	6.1%	0.81
≥30% antidepressants included	<b>2</b>	<b>11.9%</b>	<b>19</b>	<b>45.5%</b>	<b>0.020</b>	2	5.0%	21	30.4%	0.72	2	4.9%	5	4.7%	0.97
Mood stabilizers included	5	51.0%	5	43.7%	0.75	5	27.3%	6	36.8%	0.61					
≥10% mood stabilizers included	3	30.1%	7	55.4%	0.12	3	25.5%	8	35.1%						
≥30% mood stabilizers included															0.27
Anxiolytics included	3	22.1%	2	68.6%	0.06	4	4.3%	3	21.9%	0.68					
≥10% anxiolytics included	2	24.9%	3	50.4%	0.55	3	6.3%	4	13.1%						
≥40% anxiolytics included															0.92
Anticholinergic agents included	6	26.8%	3	27.5%	0.97	6	19.8%	4	18.2%	0.17					
≥10% anticholinergic agents included	5	34.3%	4	19.1%	0.32	5	30.4%	5	11.0%	0.15					
≥20% anticholinergic agent included	2	31.5%	7	26.1%	0.61	3	34.3%	7	14.3%	0.67					
Hypnotics included						2	6.6%	2	18.3%	0.67					
≥20% hypnotics included						2	6.6%	2	18.3%	0.15					
All patients treated with hypnotics															

**Supplementary material 28. Factors associated with the prevalence of specific dysfunctions in men with schizophrenia: subgroup analyses.**

Variable	Men sexual Dysfunction pooled prevalence estimates (95%CI): 0.557 (0.481-0.631)					Erection Disorder pooled prevalence estimates (95%CI) : 0.440 (0.335-0.552)					Men Ejaculation Disorder pooled prevalence estimates (95%CI) : 0.386 (0.268-0.518)				
	Yes, n	Pooled estimate of the prevalence	No, n	Pooled estimate of the prevalence	p value	Yes, n	Pooled estimate of the prevalence	No, n	Pooled estimate of the prevalence	p value	Yes, n	Pooled estimate of the prevalence	No, n	Pooled estimate of the prevalence	p value
<b>Study design</b>															
High quality study	20	55.8%	24	56.3%	0.40	16	46.3%	17	41.8%	0.45	6	41.3%	13	37.4%	<b>0.009</b>
<b>Study design</b>															
Cross-sectional design (vs. cohort)	<b>42</b>	<b>57.3%</b>	<b>2</b>	<b>25.4%</b>	<b>0.002</b>	30	47.3%	3	18.2%	0.06					
Consecutive Inclusions	<b>15</b>	<b>44.5%</b>	<b>22</b>	<b>62.7%</b>	<b>0.02</b>	<b>12</b>	<b>31.6%</b>	<b>16</b>	<b>58.4%</b>	<b>0.02</b>	4	32.1%	11	41.8%	0.39
<b>Sexual dysfunction as a primary objective</b>															
Validated tool for diagnosis	37	56.4%	7	52.2%	0.77	29	45.3%	4	36.1%	0.25	15	42.0%	4	26.6%	0.16
Patient-reported diagnosis	22	53.5%	22	57.5%	0.66	19	41.7%	14	47.4%	0.62	5	34.1%	14	40.0%	0.60
Clinical interview diagnosis	6	54.2%	38	55.9%	0.92	4	40.6%	29	45.0%	0.57	4	27.1%	15	42.0%	0.19
Clinician-rated tool diagnosis	14	58.0%	30	54.7%	0.76	8	54.2%	25	40.7%	0.39	8	49.4%	11	31.8%	0.21
<b>Time and location</b>															
Year 2010 or after	27	54.3%	17	58.0%	0.63	21	50.4%	12	34.8%	0.10	7	43.1%	12	35.8%	0.59
Year 2015 or after	15	62.7%	29	51.9%	0.14	<b>13</b>	<b>61.8%</b>	<b>20</b>	<b>33.9%</b>	<b>0.02</b>	5	46.9%	14	35.7%	0.51
High income country	21	54.7%	22	59.5%	0.46	<b>10</b>	<b>51.6%</b>	<b>22</b>	<b>28.4%</b>	<b>0.01</b>	12	31.2%	7	51.6%	0.11

Western country	19	55.1%	25	55.8%	0.92	<b>10</b>	<b>29.4%</b>	<b>22</b>	<b>51.3%</b>	<b>0.02</b>	12	33.4%	7	47.3%	0.29
Asia	13	50.0%	31	57.5%	0.37	10	51.7%	22	40.3%	0.40					
Western Europe	6	51.8%	38	56.5%	0.38	2	24.7%	30	45.4%	0.14	<b>3</b>	<b>21.5%</b>	<b>16</b>	<b>42.4%</b>	<b>0.002</b>
North America	9	55.7%	35	55.7%	0.99	<b>5</b>	<b>23.7%</b>	<b>27</b>	<b>47.9%</b>	<b>0.02</b>	7	34.8%	12	40.3%	0.73
Middle East	8	62.7%	36	54.0%	0.26	8	50.8%	24	41.8%	0.51	4	43.3%	15	37.2%	0.60
Africa	4	54.7%	40	55.8%	0.88	4	53.1%	28	42.5%	0.68					
Eastern Europe															
South America															
<hr/>															
Sociodemographics															
<hr/>															
≥50% men															
Mean age 35 years or more	13	52.1%	4	66.3%	0.49	8	38.2%	3	66.9%	0.39	3	46.7%	2	30.9%	0.41
Mean age 40 years or more	10	53.0%	7	57.1%	0.76	5	35.9%	6	52.9%	0.31	3	46.7%	2	30.9%	0.41
≥50% single participants															
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Physical health															
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Somatic diseases excluded	25	52.5%	17	58.3%	0.52	19	42.5%	13	46.9%	0.72	10	48.1%	8	30.9%	0.21
Hypertension excluded															
Diabetes excluded															
Metabolic syndrome excluded															
≥40% hyperprolactinemia	4	60.2%	2	61.3%	0.94										
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Addictions															
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Substance use excluded	19	56.7%	23	52.5%	0.47	15	47.7%	17	42.1%	0.64	7	48.5%	11	35.2%	0.29
Smokers included															
≥40% smokers	2	82.8%	2	40.4%	0.32	2	71.2%	2	23.4%	0.46					
Alcohol use disorder included	<b>2</b>	<b>44.4%</b>	<b>19</b>	<b>55.6%</b>	<b>0.03</b>						2	45.3%	6	47.1%	0.96

Cannabis use disorder included

Psychiatric diagnosis and illness severity															
All included patients with schizophrenia diagnosis	18	60.6%	9	49.4%	0.26	<b>15</b>	<b>59.9%</b>	<b>8</b>	<b>28.1%</b>	<b>0.002</b>	7	44.7%	5	41.4%	0.85
Schizoaffective disorder included	4	50.5%	22	63.4%	0.14	<b>3</b>	<b>34.0%</b>	<b>19</b>	<b>57.6%</b>	<b>0.007</b>	3	42.5%	8	45.1%	0.91
Mean illness duration $\geq 10$ years	6	47.5%	4	67.0%	0.43	3	35.6%	4	63.3%	0.30					
Mean illness duration $\geq 15$ years	3	60.3%	7	50.0%	0.44	2	37.1%	5	56.2%	0.37					
Only remitted subjects included															
Stabilization at inclusion															
Mean PANSS total $\geq 60$															
Mean PANSS positive $\geq 14$															
Mean PANSS negative $\geq 14$															
Antipsychotics															
> 95% treated with antipsychotics included						24	45.4%	2	24.6%	0.15					
$\geq 20\%$ first-generation antipsychotics included	13	47.5%	10	57.2%	0.27	<b>9</b>	<b>24.5%</b>	<b>7</b>	<b>59.4%</b>	<b>0.005</b>	6	38.7%	3	37.3%	0.93
$\geq 40\%$ first-generation antipsychotics included	5	48.8%	18	53.1%	0.60	3	24.3%	13	42.1%	0.20	<b>2</b>	<b>77.4%</b>	<b>7</b>	<b>28.0%</b>	<b>&lt;.001</b>
$\geq 50\%$ first-generation antipsychotics included	4	50.3%	19	52.6%	0.81	3	24.3%	13	42.1%	0.20					
$\geq 60\%$ first-generation antipsychotics included	3	56.0%	20	51.6%	0.67	2	34.7%	14	38.9%	0.63					
$\geq 80\%$ first-generation antipsychotics included	2	55.4%	21	51.9%	0.84	2	34.7%	14	38.9%	0.63					
$\geq 20\%$ second-generation antipsychotics included	20	51.6%	3	51.4%	0.98	14	38.9%	3	35.0%	0.66					
$\geq 40\%$ second-generation antipsychotics included	17	51.5%	6	52.0%	0.94	12	37.6%	5	40.1%	0.86	8	33.1%	2	52.1%	0.56
$\geq 50\%$ second-generation antipsychotics included	17	51.5%	6	52.0%	0.94	12	37.6%	5	40.1%	0.86	8	33.1%	2	52.1%	0.56

≥60% second-generation antipsychotics included	14	55.0%	9	47.0%	0.30	10	42.3%	7	33.0%	0.50	7	28.0%	3	60.4%	0.10
≥80% second-generation antipsychotics included	11	54.8%	12	47.4%	0.38	7	45.2%	10	33.9%	0.46	5	29.3%	5	43.9%	0.38
Antipsychotic polytherapy included	6	46.0%	12	51.5%	0.57	4	29.6%	9	45.8%	0.16					
≥20% antipsychotic polytherapy included	4	44.2%	14	51.5%	0.48	3	28.5%	10	44.3%	0.19					
≥40% antipsychotic polytherapy included	4	44.2%	14	51.5%	0.48	3	28.5%	10	44.3%	0.19					
≥60% antipsychotic polytherapy included															
Amisulpride, risperidone, or haloperidol (high anti-D2 potency) included	19	54.0%	2	42.5%	0.07										
≥20% antipsychotics with high anti-D2 potency included	16	54.8%	5	45.6%	0.23	11	37.4%	4	38.4%	0.92					
≥40% antipsychotics with high anti-D2 potency included	8	51.1%	13	53.8%	0.78	3	30.5%	12	40.0%	0.32	6	40.2%	5	32.1%	0.57
≥60% antipsychotics with high anti-D2 potency included	5	61.7%	16	49.8%	0.18	2	23.5%	13	39.6%	0.11	4	47.5%	7	30.3%	0.39
≥80% antipsychotics with high anti-D2 potency included															
Amisulpride included															
Risperidone included															
≥20% risperidone included	14	56.5%	5	42.4%	0.86	<b>9</b>	<b>46.2%</b>	<b>4</b>	<b>22.1%</b>	<b>0.05</b>	8	41.3%	2	26.9%	0.27
≥40% risperidone included	3	49.3%	16	52.9%	0.83										
≥60% risperidone included	2	63.8%	17	51.1%	0.22										
Haloperidol included	10	48.8%	8	62.0%	0.22	6	30.6%	6	51.5%	0.19	6	42.4%	3	37.3%	0.75
≥10% haloperidol included	8	48.3%	10	60.0%	0.26	4	25.0%	8	48.7%	0.08	5	43.5%	4	37.2%	0.71
≥20% haloperidol included	5	51.9%	13	55.8%	0.70	2	34.0%	10	42.2%	0.45	5	43.5%	4	37.2%	0.71
≥30% haloperidol included	2	69.6%	16	53.9%	0.56						2	39.4%	7	40.0%	0.99
Olanzapine, quetiapine, or clozapine (low anti-D2 potency) included	19	53.0%	2	62.4%	0.19										
≥20% antipsychotics with low anti-D2 potency included	15	54.0%	6	54.9%	0.93	11	38.1%	3	37.2%	0.93	8	33.1%	3	46.7%	0.50
≥40% antipsychotics with low anti-D2 potency included	9	57.0%	12	51.5%	0.56	7	50.5%	7	26.7%	0.07	4	32.5%	7	38.8%	0.64
≥60% antipsychotics with low anti-D2 potency included	4	65.7%	17	51.2%	0.32	3	65.7%	11	31.1%	0.09	2	43.0%	9	35.1%	0.61

≥80% antipsychotics with low anti-D2  
potency included

Olanzapine included	16	50.4%	3	71.6%	0.06						8	35.9%	2	43.0%	0.86
≥20% olanzapine included	9	56.8%	10	50.4%	0.52	6	51.5%	6	26.7%	0.12	5	40.9%	5	34.9%	0.73
≥40% olanzapine included	3	41.3%	16	56.2%	0.21	2	32.8%	10	39.2%	0.77					
≥60% olanzapine included															
Quetiapine included	7	51.5%	11	54.8%	0.77	5	36.9%	7	39.7%	0.89	5	34.4%	5	41.7%	0.67
≥10% quetiapine included	5	54.9%	13	52.8%	0.89	5	36.9%	7	39.7%	0.89	3	26.6%	7	43.4%	0.15
≥30% quetiapine included	2	79.2%	16	49.6%	0.20	2	72.2%	10	32.1%	0.21					
Clozapine included	9	60.4%	11	47.4%	0.13	7	39.3%	6	37.2%	0.90	5	26.3%	6	45.8%	0.15
≥20% clozapine included	4	68.4%	16	49.6%	0.10	4	53.2%	9	32.0%	0.15	2	30.9%	9	37.3%	0.81
Chlorpromazine included	2	54.1%	16	53.6%	0.95										
≥10% chlorpromazine included															
≥40% chlorpromazine included															
Aripiprazole included	5	48.2%	12	55.3%	0.57	4	40.6%	8	36.8%	0.83	3	28.5%	6	35.9%	0.51
Mean chlorpromazine equivalent ≥400 mg/d															
Mean chlorpromazine equivalent ≥500 mg/d	3	42.9%	2	32.8%	0.46										
Mean chlorpromazine equivalent ≥600 mg/d															

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Other psychotropic drugs

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Antidepressants included	6	42.8%	16	56.5%	0.16	5	21.1%	13	50.3%	0.002	4	16.0%	7	47.9%	<.001
≥10% antidepressants included	5	40.7%	17	56.4%	0.14	4	21.3%	14	48.2%	0.01	3	14.2%	8	45.3%	0.003
≥20% antidepressants included	2	29.3%	20	55.5%	0.09	2	12.5%	16	46.4%	<.001	2	11.3%	9	42.6%	0.01
≥30% antidepressants included															
Mood stabilizers included															
Anxiolytics included	3	34.6%	3	79.0%	0.006	3	18.3%	3	59.0%	0.008	3	14.2%	2	43.0%	0.03
Anticholinergic agents included															
≥10% anticholinergic agent included															





**Supplementary material 29. Factors associated with the prevalence of specific dysfunctions in women with schizophrenia: subgroup analyses.**

Variable	Women Sexual Dysfunction pooled prevalence estimates (95%CI) : 0.600 (0.480-0.708)					Amenorrhea pooled prevalence estimates (95%CI) : 0.251 (0.173-0.350)					Galactorrhea pooled prevalence estimates (95%CI) : 0.077 (0.037-0.153)				
	Yes, n	pooled prevalence estimates of the outcome	No, n	pooled prevalence estimates of the outcome	p value	Yes, n	pooled prevalence estimates of the outcome	No, n	pooled prevalence estimates of the outcome	p value	Yes, n	pooled prevalence estimates of the outcome	No, n	pooled prevalence estimates of the outcome	p value
<b>Study design</b>															
High quality study	16	62.3%	17	58.8%	0.74	3	19.9%	3	32.3%	0.77	3	5.1%	2	13.7%	0.11
Cross-sectional design (vs. cohort)						4	26.0%	2	24.4%	0.83	3	5.9%	2	9.5%	0.53
Consecutive Inclusions	8	42.9%	20	58.7%	0.35										
Sexual dysfunction as a primary objective	30	59.4%	2	48.4%	0.27										
Validated tool for diagnosis	28	62.7%	4	27.8%	0.29	6	25.1%								
Patient-reported diagnosis	17	64.7%	15	51.5%	0.26										
Clinical interview diagnosis	3	27.2%	29	61.7%	0.44										
Clinician-rated tool diagnosis	12	57.6%	20	59.3%	0.84										
<b>Time and location</b>															
Year of publication 2010 or after	22	53.3%	11	63.0%	0.39	2	34.6%	4	21.7%	0.38					
Year of publication 2015 or after	15	69.1%	18	52.0%	0.12										
High income country	16	55.8%	15	68.7%	0.14	3	18.7%	2	37.3%	0.13					

Western country	15	56.4%	17	60.0%	0.83	3	20.5%	2	34.6%	0.34		
Asia	11	55.3%	21	59.7%	0.71	2	34.6%	3	20.5%	0.34		
Western Europe	6	46.8%	26	61.4%	0.20							
North America	6	57.2%	26	59.0%	0.92			2	13.7%	2	3.8%	0.21
Middle East	3	55.7%	29	58.9%	0.66							
Africa	4	69.6%	28	57.0%	0.22							
Eastern Europe												
South America												

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#### Sociodemographics

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≥50% of men										
Mean age 35 years or more	8	64.0%	4	53.7%	0.34					
Mean age 40 years or more	5	57.9%	7	62.8%	0.58					
≥50% of single participants										

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#### Physical health

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Somatic diseases excluded	15	47.8%	16	65.2%	0.11	2	23.3%	4	26.6%	0.66
Hypertension excluded										
Diabetes excluded										
Metabolic syndrome excluded										

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#### Addictions

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Substance use excluded	9	56.6%	22	57.3%	0.92	2	37.3%	4	20.6%	0.18
Smokers included										
≥40% of smokers										
Alcohol use disorder included										
Cannabis use disorder included										

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Psychiatric diagnosis and illness severity

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All included patients with schizophrenia diagnosis	16	60.0%	5	47.0%	0.37
Schizoaffective disorder included	4	41.2%	16	60.0%	0.19
Mean illness duration $\geq 10$ years	5	62.2%	3	70.6%	0.14
Mean illness duration $\geq 15$ years	2	62.2%	6	67.5%	0.38
Only remitted subjects included					
Stabilization at inclusion					
Mean PANSS total $\geq 60$					
Mean PANSS positive $\geq 14$					
Mean PANSS negative $\geq 14$					

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Antipsychotics

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>95% treated with antipsychotics included	24	62.0%	3	63.2%	0.90
$\geq 20\%$ first-generation antipsychotics included	6	64.1%	6	63.0%	0.94
$\geq 40\%$ first-generation antipsychotics included					
$\geq 50\%$ first-generation antipsychotics included					
$\geq 60\%$ first-generation antipsychotics included					
$\geq 80\%$ first-generation antipsychotics included					
$\geq 40\%$ second-generation antipsychotics included	9	61.7%	3	68.4%	0.57
$\geq 50\%$ second-generation antipsychotics included	9	61.7%	3	68.4%	0.57
$\geq 60\%$ second-generation antipsychotics included	7	57.4%	5	70.4%	0.32
$\geq 80\%$ second-generation antipsychotics included	3	58.4%	9	64.8%	0.77
Antipsychotic polytherapy included	4	64.6%	5	53.4%	0.43
$\geq 20\%$ antipsychotic polytherapy included	2	59.2%	7	58.6%	0.97
$\geq 40\%$ antipsychotic polytherapy included					
Amisulpride, risperidone, or haloperidol (high anti-D2 potency) included					

≥20% antipsychotics with high anti-D2 potency included	8	59.0%	3	60.9%	0.91
≥40% antipsychotics with high anti-D2 potency included	6	63.3%	5	55.7%	0.64
≥60% antipsychotics with high anti-D2 potency included					
≥80% antipsychotics with high anti-D2 potency included					
Amisulpride included					
≥20% risperidone included	8	59.0%	3	60.9%	0.91
≥40% risperidone included	3	63.3%	8	57.8%	0.79
≥60% risperidone included					
Haloperidol included	5	59.5%	4	60.4%	0.96
≥10% haloperidol included	3	64.8%	6	58.8%	0.83
≥20% haloperidol included	3	64.8%	6	58.8%	0.83
≥30% haloperidol included					
Olanzapine, quetiapine, or clozapine (low anti-D2 potency) included					
≥20% antipsychotics with low anti-D2 potency included	8	60.5%	2	54.7%	0.66
≥40% antipsychotics with low anti-D2 potency included	5	52.5%	5	65.6%	0.48
≥60% antipsychotics with low anti-D2 potency included	2	57.9%	8	60.2%	0.88
≥80% antipsychotics with low anti-D2 potency included					
Olanzapine included					
≥20% olanzapine included	5	52.5%	5	65.6%	0.48
≥40% olanzapine included	3	64.6%	7	56.5%	0.70
≥60% olanzapine included					
Quetiapine included	<b>3</b>	<b>33.7%</b>	<b>5</b>	<b>72.1%</b>	<b>0.01</b>
≥10% quetiapine included	2	38.8%	6	64.4%	0.10
≥30% quetiapine included					
Clozapine included	4	64.1%	5	58.4%	0.80

≥20% clozapine included					
Chlorpromazine included					
≥10% chlorpromazine included					
Aripiprazole included	3	48.7%	6	62.1%	0.42
Mean chlorpromazine equivalent ≥400 mg/d					
Mean chlorpromazine equivalent ≥600 mg/d					

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Other psychotropic drugs

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Antidepressants included	6	54.5%	7	59.5%	0.68
≥10% antidepressants included	6	54.5%	7	59.5%	0.68
≥20% antidepressants included	4	55.2%	9	57.9%	0.85
≥30% antidepressants included					
Mood stabilizer included					
Anxiolytics included					
Anticholinergic agents included					
≥10% anticholinergic agent included					

**Supplementary material 30. Factors associated with the prevalence of loss of libido, orgasm dysfunction and genital pain in schizophrenia: meta-regression analyses.**

Variables	Loss of libido pooled prevalence estimates (95%CI) : 0.406 (0.307-0.514)					Orgasm dysfunction pooled prevalence estimates (95%CI) : 0.280 (0.184-0.402)					Genital pain pooled prevalence estimates (95%CI) : 0.061 (0.028-0.127)"				
	N	Estimate	Lower limit	Upper limit	p value	N	Estimate	Lower limit	Upper limit	p value	N	Estimate	Lower limit	Upper limit	p value
Sexual dysfunctions	-	-	-	-	-	<b>35</b>	<b>3.403</b>	<b>0.912</b>	<b>5.914</b>	<b>0.007</b>					
Loss of libido	34	<b>4.373</b>	<b>3.615</b>	<b>5.133</b>	<b>&lt;.001</b>	-	-	-	-	-	<b>8</b>	<b>2.872</b>	<b>2.123</b>	<b>3.621</b>	<b>&lt;.001</b>
Orgasmic dysfunction											<b>9</b>	<b>4.338</b>	<b>2.701</b>	<b>5.975</b>	<b>&lt;.001</b>
Genital pain	8	4.048	-3.220	11.316	0.27	9	4.475	-2.241	11.192	0.19					
Erection Disorder															
Ejaculation disorder															
Amenorrhea															
Galactorrhea															
Year of publication	<b>34</b>	<b>0.091</b>	<b>0.028</b>	<b>0.155</b>	<b>0.005</b>	<b>35</b>	<b>0.087</b>	<b>0.022</b>	<b>0.151</b>	<b>0.008</b>	$\frac{1}{0}$	0.050	-0.021	0.122	0.17
<b>Sociodemographics</b>															
Men	<b>34</b>	<b>-1.540</b>	<b>-3.074</b>	<b>-0.006</b>	<b>0.05</b>	35	-0.632	-2.635	1.371	0.54	$\frac{1}{0}$	<b>-3.998</b>	<b>-6.548</b>	<b>-1.448</b>	<b>0.002</b>
Mean age	19	0.048	-0.068	0.164	0.42	19	0.092	-0.012	0.197	0.08	3	0.136	-0.261	0.532	0.50
White	5	0.374	-8.169	8.918	0.93	4	-2.451	-32.064	27.162	0.87					

Asian	4	-0.138	-1.947	1.671	0.86										
Black	4	1.513	-11.442	14.468	0.82										
High education	11	1.235	-5.432	7.902	0.72	11	1.319	-5.859	8.496	0.72					
Single	28	-0.090	-1.586	1.405	0.91	29	-0.243	-1.978	1.493	0.78	7	<b>-2.832</b>	<b>-4.448</b>	<b>-1.216</b>	<b>&lt;.001</b>
Unemployment	<b>21</b>	<b>2.764</b>	<b>0.685</b>	<b>4.844</b>	<b>0.009</b>	21	1.706	-1.233	4.646	0.26	4	3.170	-5.703	12.044	0.48
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Physical health															
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Hypertension	20	-9.484	-25.526	6.558	0.25	19	-17.452	-39.981	5.078	0.13	3	-7.483	-30.712	15.745	0.53
Diabetes	21	-7.331	-21.372	6.711	0.31	20	-10.045	-28.406	8.316	0.28	3	-3.148	-27.093	20.797	0.80
Metabolic syndrome	15	-4.407	-12.323	3.509	0.28	14	-4.876	-12.355	2.603	0.20					
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Addictions															
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Smokers	13	0.471	-1.938	2.880	0.70	14	-0.083	-2.802	2.636	0.95					
Alcohol use disorder	17	0.363	-3.534	4.259	0.86	17	9.141	-11.629	29.911	0.39	3	7.931	-3.804	19.667	0.19
Cannabis use disorder	13	-0.197	-4.030	3.637	0.92	12	-19.484	-47.894	8.926	0.18	3	5.948	-2.853	14.750	0.19
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Psychiatric diagnosis and illness severity															
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Schizophrenia	29	1.354	-0.898	3.607	0.24	<b>30</b>	<b>3.401</b>	<b>0.814</b>	<b>5.988</b>	<b>0.01</b>	9	1.442	-2.458	5.343	0.47
Schizoaffective disorders	27	-7.248	-16.418	1.921	0.12	28	-6.406	-17.083	4.271	0.24	8	-5.513	-13.730	2.705	0.19
Mean age at illness onset	4	0.296	-0.044	0.635	0.09	5	0.174	-0.412	0.760	0.56					
Mean illness duration	10	-0.048	-0.145	0.049	0.34	11	0.129	-0.013	0.272	0.08					
PANSS Total Score	4	-0.008	-0.363	0.347	0.97	4	0.102	-0.058	0.261	0.21					
PANSS Positive Score															
PANSS Negative Score	4	-0.044	-1.027	0.939	0.93	4	0.269	-0.186	0.724	0.25					
Hyperprolactinemia															
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**Antipsychotics**


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Percentage of first-generation antipsychotics	24	0.811	-0.950	2.573	0.37	24	0.950	-1.605	3.507	0.47	7	0.160	-4.784	5.105	0.95
Percentage of second-generation antipsychotics	24	-0.195	-1.982	1.592	0.82	24	-0.519	-2.950	1.912	0.68	7	-1.461	-4.776	1.854	0.39
Percentage of antipsychotic polytherapy	24	-0.340	-2.637	1.956	0.77	23	0.918	-2.208	4.043	0.56	7	1.351	-3.428	6.130	0.58
Percentage of amisulpride, risperidone, or haloperidol	<b>17</b>	<b>-2.928</b>	<b>-5.678</b>	<b>-0.178</b>	<b>0.04</b>	<b>18</b>	<b>-4.961</b>	<b>-8.691</b>	<b>-1.230</b>	<b>0.01</b>	<b>5</b>	<b>-2.150</b>	<b>-3.916</b>	<b>-0.384</b>	<b>0.02</b>
Percentage of amisulpride	16	-25.524	-79.585	28.536	0.35	16	-23.327	-102.951	56.297	0.57	4	10.377	-3.534	24.289	0.14
Percentage of risperidone	18	-1.782	-4.521	0.957	0.19	18	-2.270	-6.528	1.987	0.30	<b>5</b>	<b>-2.662</b>	<b>-4.660</b>	<b>-0.664</b>	<b>0.009</b>
Percentage of haloperidol	13	-5.907	-12.892	1.078	0.09	<b>13</b>	<b>-10.075</b>	<b>-19.622</b>	<b>-0.527</b>	<b>0.04</b>	3	-0.907	-6.549	4.736	0.75
Percentage of olanzapine, quetiapine, or clozapine	21	1.456	-1.084	3.996	0.26	21	2.729	-1.244	6.702	0.18	6	2.316	-2.044	6.676	0.30
Percentage of olanzapine	17	1.089	-2.670	4.847	0.69	17	1.898	-3.664	7.460	0.50	4	0.927	-3.163	5.016	0.66
Percentage of quetiapine	15	2.765	-2.110	7.641	0.26	15	-0.597	-8.084	6.890	0.88	4	4.717	-1.606	11.040	0.14
Percentage of clozapine	19	-0.999	-5.439	3.441	0.66	19	2.175	-4.186	8.535	0.50	5	0.084	-6.001	6.170	0.98
Percentage of chlorpromazine	<b>14</b>	<b>5.891</b>	<b>0.634</b>	<b>11.148</b>	<b>0.03</b>	14	7.552	-0.030	15.134	0.05	3	9.547	-53.264	72.358	0.77
Percentage of aripiprazole	15	-1.216	-4.415	1.983	0.72	15	-0.798	-5.434	3.838	0.85	4	1.789	-0.609	4.188	0.14
Mean chlorpromazine equivalent	6	0.001	-0.001	0.002	0.36	7	< 0.001	-0.002	0.001	0.40					

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**Other psychotropic drugs**


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Percentage of antidepressants	21	-2.724	-8.407	2.958	0.35	23	-6.179	-12.801	0.443	0.07	7	0.393	-12.218	13.003	0.95
Percentage of mood stabilizers	10	-0.655	-9.266	7.957	0.88	11	-0.058	-11.933	11.816	0.99					
Percentage of anxiolytics	5	-0.255	-8.543	8.032	0.95	7	-3.330	-12.590	5.930	0.48					
Percentage of anticholinergics	9	1.574	-4.052	7.200	ns										
Percentage of hypnotics						4	1.261	-5.084	7.606	0.70					

**Supplementary material 31. Factors associated with the prevalence of sex specific dysfunctions in men with schizophrenia: meta-regression analyses.**

Variables	Men sexual Dysfunction pooled prevalence estimates (95%CI): 0.557 (0.481-0.631)					Men Erection Disorder pooled prevalence estimates (95%CI): 0.440 (0.335-0.552)					Men Ejaculation Disorder pooled prevalence estimates (95%CI): 0.386 (0.268-0.518)				
	N	Estimate	Lower limit	Upper limit	p value	N	Estimate	Lower limit	Upper limit	p value	N	Estimate	Lower limit	Upper limit	p value
Sexual dysfunction						<b>32</b>	<b>3.771</b>	<b>1.846</b>	<b>5.696</b>	<b>&lt;.001</b>	19	1.944	-0.763	4.651	0.16
Erection Disorder	<b>33</b>	<b>3.166</b>	<b>1.964</b>	<b>4.368</b>	<b>&lt;.001</b>						<b>17</b>	<b>5.036</b>	<b>3.916</b>	<b>6.156</b>	<b>&lt;.001</b>
Ejaculation disorder	19	1.083	-0.651	2.816	0.22	<b>16</b>	<b>4.583</b>	<b>3.252</b>	<b>5.914</b>	<b>&lt;.001</b>					
Year	44	0.007	-0.026	0.040	0.69						19	0.033	-0.021	0.087	0.23
<b>Sociodemographics</b>															
Mean age	17	< 0.001	-0.087	0.086	0.99	11	-0.015	-0.131	0.101	0.80	5	0.015	-0.125	0.156	0.83
<b>Addictions</b>															
Smokers	4	3.996	-2.867	10.859	0.25	4	4.190	-6.571	14.950	0.45					
Alcohol use disorder	21	-6.067	-19.800	7.665	0.39	16	-16.900	-48.523	14.724	0.29	8	-8.994	-33.463	15.475	0.47
Cannabis use disorder	17	-6.032	-20.483	8.419	0.41	13	-18.695	-45.941	8.552	0.18	7	-13.118	-33.446	7.209	0.21

Psychiatric diagnosis and illness severity															
Schizophrenia	27	0.480	-2.208	3.197	0.73	<b>23</b>	<b>2.974</b>	<b>0.136</b>	<b>5.812</b>	<b>0.04</b>	12	0.930	-6.098	7.959	0.80
Schizoaffective disorders	26	-1.733	-16.356	12.890	0.82	22	-22.057	-56.731	12.618	0.21	11	6.219	-9.794	22.233	0.45
Mean age at illness onset	4	-0.146	-0.373	0.081	0.23	3	0.064	-0.190	0.318	0.62					
Mean illness duration	9	-0.160	-0.329	0.009	0.06	<b>6</b>	<b>-0.236</b>	<b>-0.442</b>	<b>-0.029</b>	<b>0.03</b>					
Hyperprolactinemia	7	0.277	-2.477	3.032	0.84	3	2.397	-0.506	5.299	0.11					
Antipsychotics															
Percentage of first-generation antipsychotics	23	-0.090	-1.285	1.105	0.88	17	-1.107	-2.947	0.733	0.22	9	2.568	-0.574	5.709	0.11
Percentage of second-generation antipsychotics	23	0.220	-0.792	1.232	0.67	18	0.575	-0.962	2.111	0.51	10	-0.794	-3.245	1.658	0.53
Percentage of antipsychotic polytherapy	18	-0.501	-2.165	1.163	0.56	13	-1.106	-3.786	1.574	0.42	6	-0.504	-4.107	3.099	0.78
Percentage of amisulpride, risperidone, or haloperidol (high anti-D2 potency)						16	-0.560	-3.677	2.557	0.72	11	1.238	-1.657	4.133	0.40
Percentage of amisulpride	17	-6.945	-37.778	23.889	0.66	13	-21.898	-61.133	17.336	0.31	9	-14.092	-44.589	16.404	0.37
Percentage of risperidone	19	1.283	-0.927	3.492	0.26	14	1.282	-4.090	6.653	0.62	10	-0.979	-6.863	4.904	0.74
Percentage of haloperidol	18	-0.599	-3.827	2.629	0.72	13	-3.445	-8.657	1.767	0.23	9	1.528	-3.090	6.146	0.52
Percentage of olanzapine, quetiapine, or clozapine (low anti-D2 potency)						15	1.896	-0.417	4.209	0.11	11	-0.648	-3.684	2.388	0.68
Percentage of olanzapine	19	-0.878	-2.544	0.788	0.30	13	0.809	-2.583	4.201	0.73	10	-0.046	-4.834	4.743	0.99
Percentage of quetiapine	18	1.958	-1.717	5.632	0.30	13	2.497	-2.743	7.737	0.34	10	-1.924	-8.589	4.742	0.57
Percentage of clozapine	20	2.547	-0.302	5.395	0.08	14	2.036	-2.354	6.425	0.33	11	-2.755	-9.337	3.827	0.41
Percentage of chlorpromazine	18	-1.116	-9.673	7.441	0.80	13	1.332	-10.483	13.147	0.81	<b>10</b>	<b>68.206</b>	<b>8.646</b>	<b>127.766</b>	<b>0.03</b>
Percentage of aripiprazole	17	-3.508	-8.225	1.208	0.14	13	-3.822	-11.313	3.670	0.36	9	-2.726	-8.634	3.181	0.37
Mean chlorpromazine equivalent	5	0.003	-0.002	0.007	0.24	<b>4</b>	<b>0.003</b>	<b>0.001</b>	<b>0.005</b>	<b>0.01</b>	<b>10</b>	<b>68.206</b>	<b>8.646</b>	<b>127.766</b>	<b>0.03</b>
Other psychotropic drugs															
Percentage of antidepressants	22	-2.671	-6.378	1.037	0.16	<b>18</b>	<b>-6.302</b>	<b>-10.820</b>	<b>-1.783</b>	<b>0.006</b>	<b>11</b>	<b>-6.103</b>	<b>-10.678</b>	<b>-1.527</b>	<b>0.009</b>

Percentage of mood stabilizers	4	-6.237	-17.887	5.414	0.29	3	<b>-13.210</b>	<b>-17.587</b>	<b>-8.832</b>	<b>&lt;.001</b>	3	<b>-11.571</b>	<b>-16.343</b>	<b>-6.798</b>	<b>&lt;.001</b>
Percentage of anxiolytics	6	<b>-9.388</b>	<b>-17.519</b>	<b>-1.256</b>	<b>0.02</b>	6	<b>-10.504</b>	<b>-16.488</b>	<b>-4.519</b>	<b>&lt;.001</b>	5	-7.255	-14.781	0.271	0.06
Percentage of anticholinergics	3	<b>-4.019</b>	<b>-5.747</b>	<b>-2.291</b>	<b>&lt;.001</b>	3	-4.174	-11.134	2.786	0.24					

**Supplementary material 32. Factors associated with the prevalence of sex specific dysfunctions in women with schizophrenia: meta-regression analyses.**

Variables	Women Sexual Dysfunction pooled prevalence estimates (95%CI) : 0.600 (0.480-0.708)					Amenorrhea pooled prevalence estimates (95%CI) : 0.251 (0.173-0.350)					Galactorrhea pooled prevalence estimates (95%CI) : 0.077 (0.037-0.153)				
	N	Estimate	Lower limit	Upper limit	p value	N	Estimate	Lower limit	Upper limit	p value	N	Estimate	Lower limit	Upper limit	p value
Sexual dysfunction						<b>5</b>	<b>2.825</b>	<b>1.693</b>	<b>3.956</b>	<b>&lt;.001</b>	4	2.343	-1.970	6.655	0.29
Amenorrhea	<b>5</b>	<b>7.492</b>	<b>4.639</b>	<b>10.345</b>	<b>&lt;.001</b>						<b>4</b>	<b>20.249</b>	<b>4.282</b>	<b>36.216</b>	<b>0.01</b>
Galactorrhea	4	7.353	-33.046	47.752	0.72	4	4.845	-1.048	10.738	0.11					
Year	32	0.041	-0.016	0.098	0.16	<b>6</b>	<b>0.062</b>	<b>0.014</b>	<b>0.109</b>	<b>0.01</b>	5	-0.032	-0.241	0.177	0.77
<b>Sociodemographics</b>															
Mean age	12	-0.015	-0.100	-0.070	0.73										
<b>Addictions</b>															
Alcohol use disorder	10	-42.279	-123.025	38.466	0.30										
Cannabis use disorder	10	-16.912	-49.21	15.386	0.30										
<b>Psychiatric diagnosis and illness severity</b>															

Schizophrenia	20	0.386	-2.781	3.554	0.81
Schizoaffective Disorders	19	-1.895	-6.907	3.117	0.46
Mean age at illness onset	4	0.105	-0.366	0.576	0.66
Mean illness duration	8	-0.038	-0.105	0.029	0.27
PANSS Total Score	3	0.021	-0.012	0.054	0.21
PANSS Positive Score	<b>3</b>	<b>0.448</b>	<b>0.174</b>	<b>0.722</b>	<b>0.001</b>
PANSS Negative Score	3	0.076	-0.047	0.198	0.23

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#### Antipsychotics

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Percentage of first-generation antipsychotics	12	0.341	-3.010	3.692	0.84	3	-7.603	-15.509	0.302	0.06	3	0.307	-21.120	21.735	0.98
Percentage of second-generation antipsychotics	12	-1.047	-3.525	1.431	0.41	3	7.603	-0.302	15.509	0.06	3	-0.307	-21.735	21.120	0.98
Percentage of antipsychotic polytherapy	9	0.820	-4.085	5.725	0.74	4	-1.079	-6.815	4.658	0.72	3	3.037	-5.412	11.486	0.48
Percentage of amisulpride, risperidone, or haloperidol (high anti-D2 potency)	11	0.439	-2.888	3.767	0.80	4	0.471	-7.898	8.840	0.91	4	-0.663	-8.370	7.044	0.87
Percentage of amisulpride	8	-35.332	-126.999	56.335	0.45										
Percentage of risperidone	11	0.260	-4.035	4.555	0.91	4	4.817	-1.756	11.391	0.15	4	-1.487	-20.540	17.566	0.88
Percentage of haloperidol	9	1.671	-5.884	9.227	0.66	<b>4</b>	<b>-7.229</b>	<b>-13.899</b>	<b>-0.558</b>	<b>0.03</b>	4	-1.183	-14.120	11.754	0.86
Percentage of olanzapine, quetiapine, or clozapine (low anti-D2 potency)	10	-0.118	-3.036	2.800	0.94	4	0.711	-3.199	4.621	0.72	4	-0.968	-6.084	4.148	0.71
Percentage of olanzapine	10	-0.201	-2.872	2.471	0.88	4	1.152	-2.820	5.124	0.57	4	-1.253	-5.614	3.108	0.57
Percentage of quetiapine	8	-4.949	-13.782	3.885	0.27	<b>3</b>	<b>-20.033</b>	<b>-31.210</b>	<b>-8.855</b>	<b>&lt;.001</b>	<b>3</b>	<b>-28.031</b>	<b>-45.692</b>	<b>-10.371</b>	<b>0.002</b>
Percentage of clozapine	9	5.202	-2.777	13.180	0.20						3	4.632	-5.147	14.411	0.35
Percentage of chlorpromazine	8	-5.368	-142.200	131.464	0.94										
Percentage of aripiprazole	9	-3.277	-12.019	5.465	0.46	4	-6.651	-42.027	28.726	0.72	4	10.362	-35.161	55.886	0.66

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#### Other psychotropic drugs

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Percentage of antidepressants	13	-1.245	-5.230	2.740	0.54	3	-3.499	-14.371	7.373	0.53
Percentage of mood stabilizers	4	-11.682	-39.181	15.817	0.41					
Percentage of anxiolytics	4	-1.355	-12.439	9.729	0.81					

**Supplementary material 33. Comparative pooled prevalence estimates of sexual dysfunction and its 95% confidence interval of the Inverse variance method vs. Random intercept logistic regression model**

<b>Outcome</b>		<b>Inverse variance method</b>	<b>Random intercept logistic regression model</b>
<b>Sexual Dysfunction</b>	<b>Random Effects</b>	0.5640 [0.5047; 0.6216]	0.5701 [0.5090; 0.6291]
	<b>Heterogeneity(<math>i^2</math>)</b>	98.2% [98.1%; 98.4%]	98.2% [98.1%; 98.4%]
<b>Genital Pain</b>	<b>Random Effects</b>	0.0606 [0.0279; 0.1268]	0.0488 [0.0206; 0.1115]
	<b>Heterogeneity(<math>i^2</math>)</b>	88.9% [81.6%; 93.2%]	88.4% [80.8%; 93.0%]
<b>Orgasm Dysfunction</b>	<b>Random Effects</b>	0.2802 [0.1839; 0.4020]	0.2530 [0.1542; 0.3861]
	<b>Heterogeneity(<math>i^2</math>)</b>	96.6% [95.9%; 97.1%]	96.5% [95.8%; 97.1%]
<b>Libido Dysfunction</b>	<b>Random Effects</b>	0.4064 [0.3068; 0.5143]	0.4154 [0.3064; 0.5335]
	<b>Heterogeneity(<math>i^2</math>)</b>	96.2% [95.4%; 96.8%]	96.1% [95.3%; 96.8%]
<b>Sexual Dysfunction in Men</b>	<b>Random Effects</b>	0.5573 [0.4811; 0.6308]	0.5650 [0.4864; 0.6405]
	<b>Heterogeneity(<math>i^2</math>)</b>	97.6% [97.3%; 97.9%]	97.6% [97.3%; 97.9%]
<b>Ejaculation Disorder</b>	<b>Random Effects</b>	0.3858 [0.2685; 0.5181]	0.3812 [0.2656; 0.5121]
	<b>Heterogeneity(<math>i^2</math>)</b>	96.8% [96.0%; 97.5%]	96.8% [96.0%; 97.5%]
<b>Erection Disorder</b>	<b>Random Effects</b>	0.4404 [0.3346; 0.5520]	0.4437 [0.3348; 0.5584]
	<b>Heterogeneity(<math>i^2</math>)</b>	94.4% [93.0%; 95.5%]	94.4% [93.0%; 95.5%]
<b>Sexual Dysfunction in Women</b>	<b>Random Effects</b>	0.5997 [0.4803; 0.7084]	0.6061 [0.4855; 0.7151]
	<b>Heterogeneity(<math>i^2</math>)</b>	96.3% [95.5%; 96.9%]	96.3% [95.5%; 96.9%]
<b>Amenorrhea</b>	<b>Random Effects</b>	0.2514 [0.1728; 0.3504]	0.2494 [0.1778; 0.3380]
	<b>Heterogeneity(<math>i^2</math>)</b>	86.0% [71.7%; 93.1%]	86.0% [71.7%; 93.1%]
<b>Galactorrhea</b>	<b>Random Effects</b>	0.0770 [0.0370; 0.1533]	0.0725 [0.0364; 0.1394]
	<b>Heterogeneity(<math>i^2</math>)</b>	76.8% [43.5%; 90.4%]	76.8% [43.5%; 90.4%]