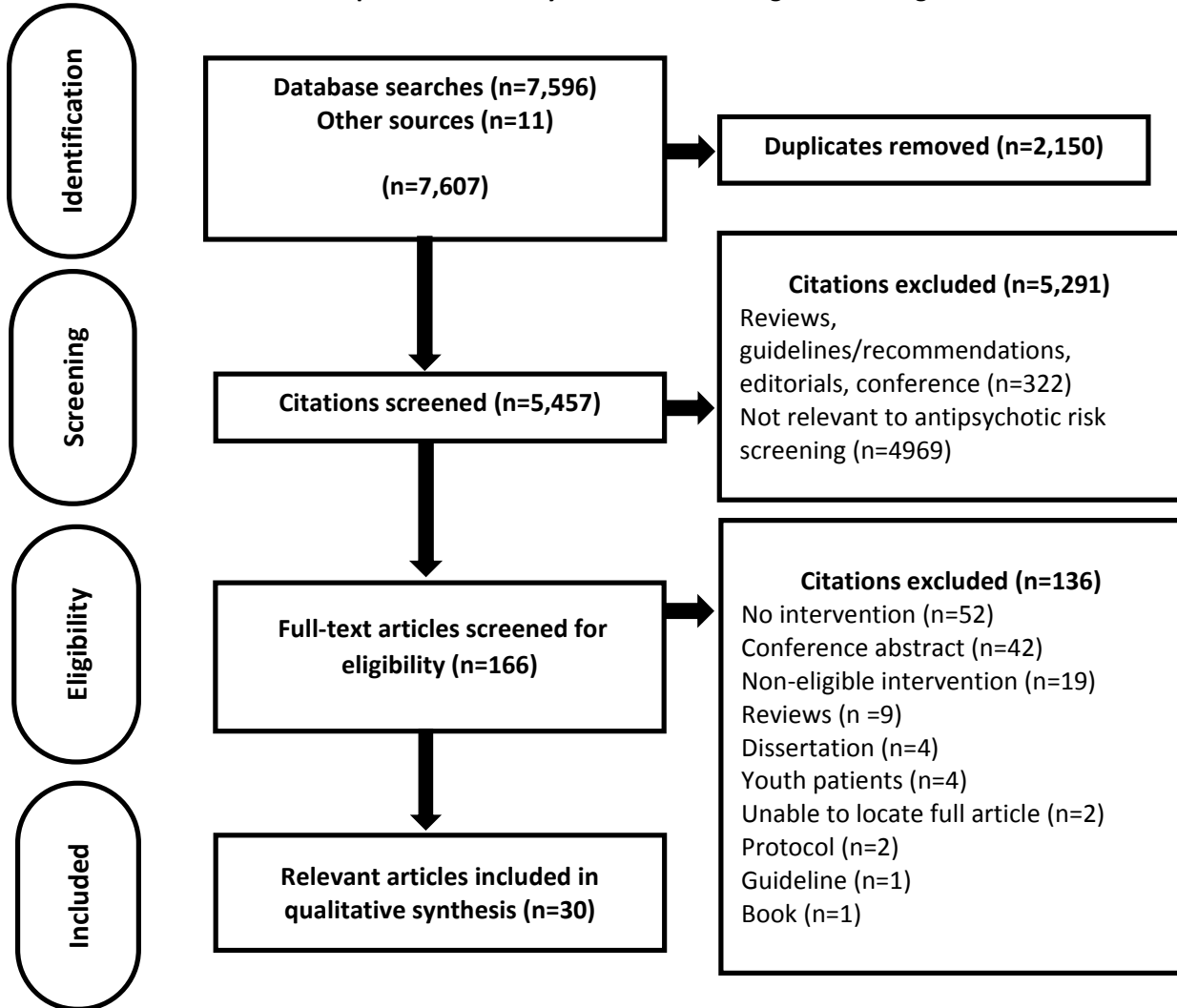


Flow chart of the search process and study selection according to PRISMA guidelines



**Metabolic risk screening rates reported by interventions (given in % unless specified otherwise)**

Study	Glu C	Glu I	Lipids C	Lipids I	WC C	WC I	Weight C	Weight I	BP C	BP I	All 4 C	All 4 I
Abdallah et al.	42.0	97.0	25.0	55.0	NA	NA	0	68.0	10.0	68.0	NA	NA
Barnes et al. (2008)	28.0	38.0	22.0	35.0	NA	NA	17.0	34.0	26.0	43.0	11.0	23.0
Barnes et al. (2015)	28.0	52.0	22.0	50.0	NA	NA	17.0	58.0	26.0	59.0	11.0	34.0
Cotes et al. <sup>d</sup>	45.0	43.0	32.0	37.0	7.0	7.0	52.0	65.0	33.0	38.0	NA	NA
DelMonte et al. / Lee et al.	92.4	100	28.7	70.5	NA	NA	NA	NA	NA	NA	NA	NA
Fischler et al.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	36.0	56.3
Gallagher et al.	45.0	85.0	52.5	85.0	0	78.0	2.5	80.0	2.5	80.0	NA	NA
Gill et al.	9.0	61.0	9.0	61.0	4.0	96.0	4.0	96.0	4.0	96.0	NA	NA
Gonzalez et al.	24.6	72.6	7.1	52.8	NA	NA	NA	NA	NA	NA	NA	NA
Green et al.	NA	NA	NA	NA	NA	NA	21.6	58.6	22.4	75.9	NA	NA
Gumber et al. <sup>d</sup>	92.0	82.0	99.0	97.0	99.0	100.0	99.0	100.0	100.0	99.0	NA	NA
Hinds et al.	14.2	12.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hor et al.	6.0	43.8	5.7	43.8	0.7	40.6	0	46.9	82.0	93.8	NA	NA
Kioko et al.	22.0	62.0	22.0	62.0	NA	NA	76.0	82.0	76.0	82.0	NA	NA
Kirchner et al.	53.0	80.0	29.0	67.0	NA	NA	70.0	93.0	NA	NA	NA	NA
Kreyenbuhl et al. <sup>a, d</sup>	96.2	97.7	94.4	95.1	NA	NA	76.1	81.4	78.5	83.5	NA	NA
Lai et al. <sup>b</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0	11.0
Latoo et al.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.3	40.4
Lui et al.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.4	100.0
Nicol et al.	46.0	90.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Osborn et al. (Full)	12.0	66.7	12.0	66.7	NA	NA	9.0	92.5	10.0	96.2	NA	NA
Osborn et al. (Partial)	8.0	36.5	8.0	26.9	NA	NA	20.0	65.2	21.0	68.2	NA	NA
Ramanuj	50.0	80.0	25.0	60.0	NA	NA	NA	NA	NA	NA	NA	NA
Runcie et al. <sup>d</sup>	49.0	46.0	NA	NA	NA	NA	45.0	49.0	NA	NA	NA	NA
Thompson et al.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22.1	81.4
Tully et al.	43.2	64.8	52.7	70.3	0	97.9	NA	NA	91.8	97.2	NA	NA
Vasudev et al.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20.0	58.0
Velligan et al. <sup>c</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	80.0
Wiechers et al.	15.0	55.0	14.0	55.0	NA	NA	5.0	44.0	4.0	39.0	NA	NA

Wilson et al.	13.1	87.4	13.1	97.4	NA	NA	48.6	88.7	15.9	92.7	NA	NA
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C- comparison group, I- intervention group, Glu- Glucose, WC-waist circumference, BP- blood pressure, All 4 – screening conducted for 4 measures of glucose, lipids, weight and blood pressure.

<sup>a</sup> – Proportion of days adherent to monitoring guidelines

<sup>b</sup>- Percentage of visits which patient was found adherent to monitoring guidelines

<sup>c</sup>- Screening rates reported for 3 items together (blood pressure, body mass index and waist circumference)

<sup>d</sup>- Studies with null effect on metabolic risk screening rates

### Quality assessment of included studies

Study	Selection bias <sup>a</sup>	Study design	Confounders	Blinding	Data collection method	Withdrawal and drop outs	Global rating <sup>b</sup>
Abdallah et al. (2016)	2	3	3	2	1	NA	3 Weak
Barnes et al. (2008)	2	3	1	3	2	NA	3 Weak
Barnes et al. (2015)	2	2	1	3	1	NA	2 Moderate
Cotes et al. (2015)	1	3	2	2	1	NA	2 Moderate
DelMonte et al. (2012)/ Lee et al. (2016)	1	3	1	2	1	NA	2 Moderate
Fischler et al. (2016)	1	3	3	3	1	NA	3 Weak
Gallagher et al. (2013)	2	3	1	2	1	NA	2 Moderate
Gill et al. (2016)	1	2	3	2	1	NA	2 Moderate
Gonzalez et al. (2010)	1	3	1	2	1	NA	2 Moderate
Green et al. (2018)	1	3	3	2	1	NA	3 Weak
Gumber et al. (2010)	2	3	3	2	1	NA	3 Weak
Hinds et al. (2015)	2	2	3	2	1	2	2 Moderate
Hor et al. (2016)	2	3	3	2	1	NA	3 Weak
Kioko et al. (2016)	2	3	3	2	1	NA	3 Weak
Kirchner et al. (2016)	1	3	3	2	1	NA	3 Weak
Kreyenbuhl et al. (2016)	3	1	1	2	1	1	2 Moderate
Lai et al. (2015)	2	2	1	2	3	1	2 Moderate
Latoo et al. (2015)	1	3	2	2	1	NA	2 Moderate
Lui et al. (2016)	1	3	3	2	1	NA	3 Weak
Nicol et al. (2011)	2	2	3	2	1	NA	2 Moderate
Osborn et al. (2010)	1	1	1	3	1	3	3 Weak
Ramanuj (2013)	2	3	1	2	1	NA	2 Moderate

Study	Selection bias	Study design	Confounders	Blinding	Data collection method	Withdrawal and drop outs	Global rating
Runcie et al. (2007)	1	3	3	2	2	NA	3 Weak
Thompson et al. (2011)	2	3	3	2	1	NA	3 Weak
Tully et al. (2012)	3	3	3	2	2	NA	3 Weak
Vasudev et al. (2010)	1	3	3	2	2	NA	3 Weak
Velligan et al. (2013)	2	2	3	2	2	NA	2 Moderate
Wiechers et al. (2012)	1	3	3	2	2	NA	3 Weak
Wilson et al. (2014)	2	3	3	2	2	NA	3 Weak

<sup>a</sup> Each of the 6 domains (selection, design, cofounders, blinding, data collection, withdrawal) is rated according to a standardized guide as 1- strong, 2-moderate or 3-weak.

<sup>b</sup> Each study is given a global rating according to the number of domains with a weak rating. Studies without any weak domains are rated strong, studies with 1 weak domain are rated moderate and studies with 2 or more weak domains are rated as weak.

## Search Strategy

#	Query	Limiters/Expanders
		Limiters - Published Date
		: 20161001-20181231
S87	S81 AND S85	Search modes - Boolean/Phrase
S86	S81 AND S85	Search modes - Boolean/Phrase
S85	S59 OR S60 OR S61 OR S84	Search modes - Boolean/Phrase
S84	S82 AND S83	Search modes - Boolean/Phrase
S83	S62 OR S63 OR S64 OR S65 OR S66 OR S67 OR S68 OR S69 OR S70 OR S71 OR S72 OR S73 OR S74 OR S75 OR S76 OR S77 OR S78	Search modes - Boolean/Phrase
S82	S79 OR S80	Search modes - Boolean/Phrase
S81	S1 OR S2 OR S3 OR S4 OR S5 OR S6 OR S7 OR S8 OR S9 OR S10 OR S11 OR S12 OR S13 OR S14 OR S15 OR S16 OR S17 OR S18 OR S19 OR S20 OR S21 OR S22 OR S23 OR S24 OR S25 OR S26 OR S27 OR S28 OR S29 OR S30 OR S31 OR S32 OR S33 OR S34 OR S35 OR S36 OR S37 OR S38 OR S39 OR S40 OR S41 OR S42 OR S43 OR S44 OR S45 OR S46 OR S47 OR S48 OR S49 OR S50 OR S51 OR S52 OR S53 OR S54 OR S55 OR S56 OR S57 OR S58	Search modes - Boolean/Phrase
S80	track*	Search modes - Boolean/Phrase
S79	monitor*	Search modes - Boolean/Phrase
S78	"body weight"	Search modes - Boolean/Phrase
S77	(MH "Body Weight+")	Search modes - Boolean/Phrase
S76	"waist-hip ratio"	Search modes - Boolean/Phrase
S75	"skinfold thickness"	Search modes - Boolean/Phrase
S74	(MH "Skinfold Thickness")	Search modes - Boolean/Phrase

S73	"body size"	Search modes - Boolean/Phrase
S72	"body mass index"	Search modes - Boolean/Phrase
S71	"body fat distribution"	Search modes - Boolean/Phrase
S70	(MH "Adipose Tissue Distribution")	Search modes - Boolean/Phrase
S69	"blood glucose"	Search modes - Boolean/Phrase
S68	"cholesterol"	Search modes - Boolean/Phrase
S67	(MH "Blood Pressure+")	Search modes - Boolean/Phrase
S66	(MH "Metabolism+")	Search modes - Boolean/Phrase
S65	(MH "Hemoglobin A, Glycosylated")	Search modes - Boolean/Phrase
S64	(MH "Body Weights and Measures+")	Search modes - Boolean/Phrase
S63	(MH "Blood Glucose")	Search modes - Boolean/Phrase
S62	(MH "Cholesterol+")	Search modes - Boolean/Phrase
S61	metaboli* N3 track*	Search modes - Boolean/Phrase
S60	metaboli* N3 measur*	Search modes - Boolean/Phrase
S59	metaboli* N3 monitor*	Search modes - Boolean/Phrase
S58	"paliperidone"	Search modes - Boolean/Phrase
S57	"molindone hydrochloride"	Search modes - Boolean/Phrase
S56	"iloperidone"	Search modes - Boolean/Phrase
S55	"asenapine"	Search modes - Boolean/Phrase
S54	"butyrophenone*"	Search modes - Boolean/Phrase

S53	"phenothiazine*"	Search modes - Boolean/Phrase
S52	"tetrabenazine"	Search modes - Boolean/Phrase
S51	"spiroperidol"	Search modes - Boolean/Phrase
S50	"quetiapine"	Search modes - Boolean/Phrase
S49	"olanzapine"	Search modes - Boolean/Phrase
S48	"nialamide"	Search modes - Boolean/Phrase
S47	"triflupromazine"	Search modes - Boolean/Phrase
S46	"trifluperidol"	Search modes - Boolean/Phrase
S45	"trifluoperazine"	Search modes - Boolean/Phrase
S44	"tiapride hydrochloride"	Search modes - Boolean/Phrase
S43	"thiothixene"	Search modes - Boolean/Phrase
S42	"thioridazine"	Search modes - Boolean/Phrase
S41	"sulpiride"	Search modes - Boolean/Phrase
S40	"spiperone"	Search modes - Boolean/Phrase
S39	"ritanserin"	Search modes - Boolean/Phrase
S38	"risperidone"	Search modes - Boolean/Phrase
S37	"reserpine"	Search modes - Boolean/Phrase
S36	"remoxipride"	Search modes - Boolean/Phrase
S35	"raclopride"	Search modes - Boolean/Phrase
S34	"quetiapine fumarate"	Search modes - Boolean/Phrase



S33	"promazine"	Search modes - Boolean/Phrase
S32	"prochlorperazine"	Search modes - Boolean/Phrase
S31	"pimozide"	Search modes - Boolean/Phrase
S30	"perphenazine"	Search modes - Boolean/Phrase
S29	"perazine"	Search modes - Boolean/Phrase
S28	"penfluridol"	Search modes - Boolean/Phrase
S27	"paliperidone palmitate"	Search modes - Boolean/Phrase
S26	"ondansetron"	Search modes - Boolean/Phrase
S25	"molindone"	Search modes - Boolean/Phrase
S24	"methotrimeprazine"	Search modes - Boolean/Phrase
S23	"methiothepin"	Search modes - Boolean/Phrase
S22	"mesoridazine"	Search modes - Boolean/Phrase
S21	"chlorprothixene"	Search modes - Boolean/Phrase
S20	"lurasidone hydrochloride"	Search modes - Boolean/Phrase
S19	"loxapine"	Search modes - Boolean/Phrase
S18	"haloperidol"	Search modes - Boolean/Phrase
S17	"fluspirilene"	Search modes - Boolean/Phrase
S16	"fluphenazine"	Search modes - Boolean/Phrase
S15	"flupenthixol"	Search modes - Boolean/Phrase
S14	"etazolate"	Search modes - Boolean/Phrase

S13	"droperidol"	Search modes - Boolean/Phrase
S12	"clozapine"	Search modes - Boolean/Phrase
S11	"clopenthixol"	Search modes - Boolean/Phrase
S10	"chlorpromazine"	Search modes - Boolean/Phrase
S9	"butaclamol"	Search modes - Boolean/Phrase
S8	"benperidol"	Search modes - Boolean/Phrase
S7	"azaperone"	Search modes - Boolean/Phrase
S6	"aripiprazole"	Search modes - Boolean/Phrase
S5	"acepromazine"	Search modes - Boolean/Phrase
S4	"neuroleptic*"	Search modes - Boolean/Phrase
S3	"antipsychotic*"	Search modes - Boolean/Phrase
S2	"anti-psychotic*"	Search modes - Boolean/Phrase
S1	(MH "Antipsychotic Agents+")	Search modes - Boolean/Phrase