Additional file 1: Trials of atypical antipsychotics in depression - design, details, and outcomes

										Discontinuations					Adverse event	reporting	Scale- defined adverse events		_
Reference [number]	Patients	Treatment	Mean daily dose Other medication	Duration (weeks)	QS F	Response	Remission	CGI	Emergence of mania	All cause	Lack of efficacy	Adverse event	T-E mania	Patients experiencing any adverse event	Severe	Serious	Treatment related	EP symptoms	Weight gain ≥7%
Tohen et al. 2003 [18]	Bipolar I depression, (MADRS >19) Age:42 ±12 years M:47% Psychotic: 12.5% Rapid cycling: 37%	(1) olanzapine 5-20 mg/day, n=351 (2) olanzapine- fluoxetine 6/25, 6/50 or 12/50 mg/day, n=82 (3) placebo, n=355	(1) 9.7 mg (2) 7.4 mg/39.4 mg Benzodiazepines (36- 44%) Anticholinergics to treat EP sympt (3- 8%)	8	D1, in MAI W1 wks (1) 13 (2) 46 (3) 10 Media	ADR'S, min 4 37/351 16/82 08/355 ian time to onse (days): 5 1	MADRS ≤12, min 4 wks (1) 115/351 (2) 40/82 (3) 87/355 Median time to remission(days): (1) 57 (2) 42 (3) 59		YMRS <15 at baseline and ≥15 any time thereafter (1) 19/335 (2) 5/78 (3) 23/345		(1) 73/351 (2) 8/82 (3) 121/355		(2) 4/82	no data	no data	no data	no data	SAS and AIMS No sig diff	
Shelton, Stahl. 2004 [19]	Bipolar I and II disorder, depressive episode (HAN D>17), receiving mood stabiliser Age:36 ±10 years M:50% Psychotic: 0%	I- mg/day + placebo plus mood stabiliser, n=10 (2) paroxetine 20-40 mg/day + placeo plus	(3) 1.16 mg/22 mg Lorazepam in first 4 weeks	12	D2, on HA	/10 //10 //10		no categorical data	(one pt in (2)	(1) 5/10 (2) 2/10 (3) 4/10	(1) 3/10 (2) 0/10 (3) 1/10	(1) 1/10 (2) 1/10 (3) 3/10	none	no data	no data	no data		SAS, BARS No sig diff	
Calabrese et al. 2005 [20]	Bipolar I and II disorder, major depressive episode (HAM-D=20, VMRS=12) Age:37 ±11 years M:42% Excl: history non- response to >2 classes antidepressants for current episode	(1) quetiapine 600 mg/day, n=170 (2) quetiapine 300 mg/day, n=172 (3) placebo, n=169 [ITT cohort]	N/A Lorazepam and zolpidem during first 3 weeks - generally <10%	8	D2, in MAI W1 (1) 99, (2) 99, (3) 61, Media	ADRS 9/170 19/172 11/169 ian time to onse(days): 12	MADRS ≤12 (1) 90/170 (2) 91/172 (3) 48/169 Median time to remission (days): (1) 27 (2) 29 (3) 65		YMRS ≥16 on 2 consec visits or at end point or AE of mania (using safety population) (1) 7/179 (2) 7/180 (3) 7/180	(2) 60/181	(2) 4/181	(1) 47/180 (2) 29/181 (3) 15/181	no data	no data	no data	(1) 9/180 (2) 6/181 (3) 16/181 (none T-R)		SAS, BARS: 9% to 15% with an inc from baseline, with no sig diff between groups	
Brown et al. 2006 [21]	5 Bipolar I disorder, depressive episode, (MADRS >19) Age:37 ±11 years M:40% Psychotic: 6% Rapid cycling: 34% Excl: YMRS≥15, history non-response to study drugs	(1) olanzapine- fluoxetine 6/25, 12/25, 6/50 or 12/50 mg/day, n=205 (2) Lamotrigine150-200 mg/day, n=205	(1) 10.7/38.3 mg (2) 106.4 mg Benzodiazepines (22%) Anticholinergics (1%)	7	D1, in MAI W1 (1) 14 (2) 12 Media	ADRS 41/205 22/205 ian time to onse(days): 7		(1) 147/205	YMRS>15 at any time (1) 8/205 (2) 11/205	(1) 68/205 (2) 71/205		(1) 17/205 (2) 15/205	no data	no data	incomplete data Suicide attempts: (1) 1/205 (2) 2/205 All suicidal and self harm events: (1) 1/205 (2) 7/205	no data		AIMS: no sig (diff between (groups in severity of tardive dyskinesia	
Thase et al. 2006 [22]	5 Bipolar I and II disorder, major depressive episode (HAN-D>20, YMR5s12) Age:37 ±11 years M:43% Excl: history non- response to >2 classes antidepressants for current episode. Current episode <4 weeks or >12 months	e mg/day, n=151 (2) quetiapine 300 mg/day, n=155 (3) placebo, n=161 [ITT cohort]	N/A Lorazepam and zolpidem during first 3 weeks - generally low, <4%	8	D2, in MAI W1 (1) 88, (2) 93, (3) 71. Sig dit	ADRS 8/151 13/155 11/161 diff between (1) 1) and (3) by k 2	MADRS ≤12 (1) 79/151 (2) 80/155 (3) 48/161 Sig diff between (2) and (3) by week 2, and for (1) and (3) by week 3	normal/not at all ill/borderline ill (1) 49/151 (2) 64/155 (3) 39/161 Much improved/ very much improved (1) 91/151 (2) 95/155 (3) 62/161	YMRS ≥16 on 2 consec visits or at end point or AE of mania (using safety population) (1) 6/168 (2) 3/171 (3) 11/167	(2) 71/172	(2) 3/172	(1) 19/169 (2) 14/172 (3) 2/168	no data	no data	no data	(1) 7/169 (2) 3/172 (3) 1/168 (none T-R)		SAS, BARS (No sig (change from (baseline in any group	2) 5/171

QS = quality score; R = randomised; D = double blind; W = withdrawals or drop outs; CGI = clinical global impression; TE = treatment emergent; EP = extrapyramidal; AIMS = abnormal involuntary movement scale; SAS = Simpson-Angus rating scale; BARS = Barnes akathisia rating scale