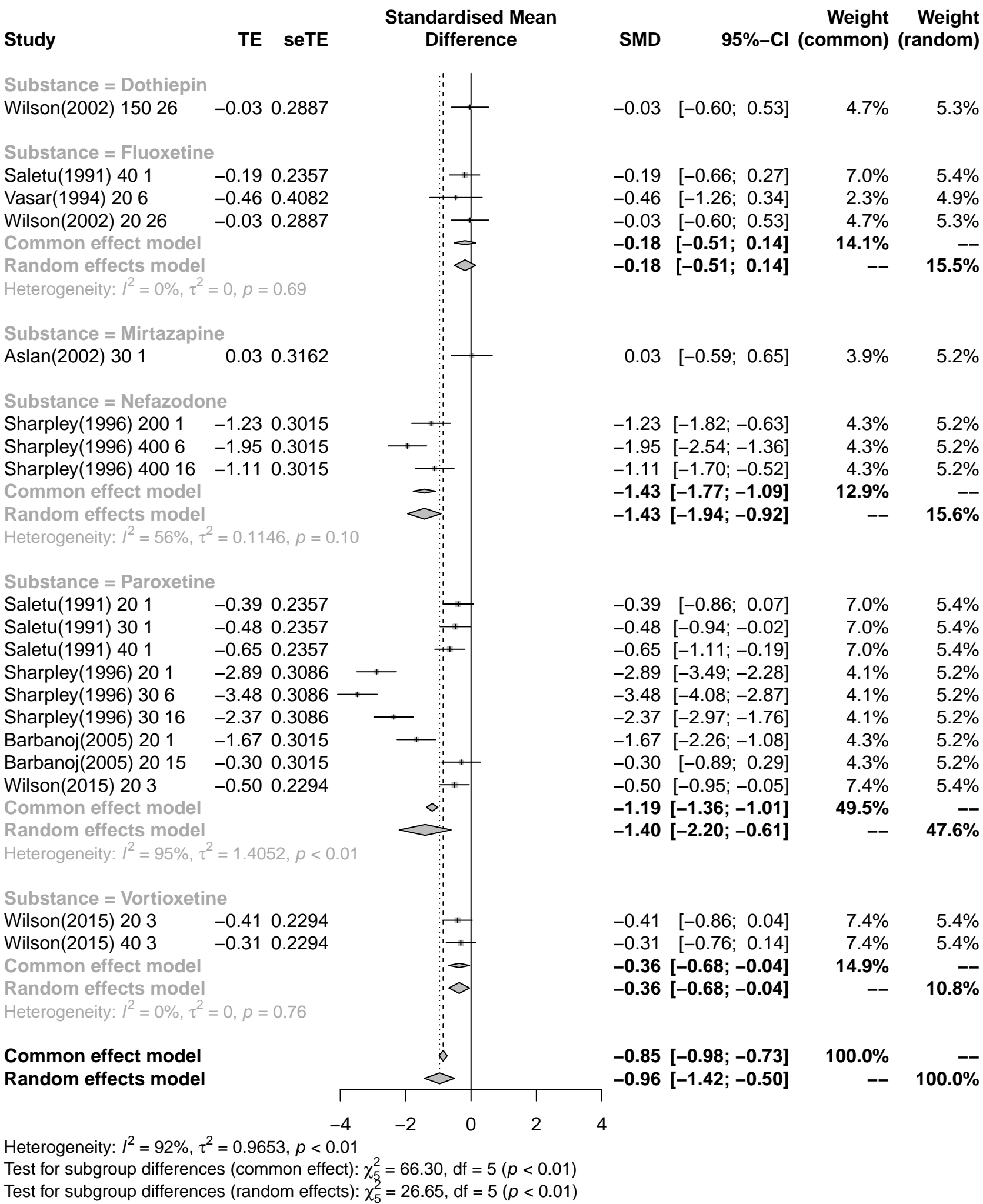


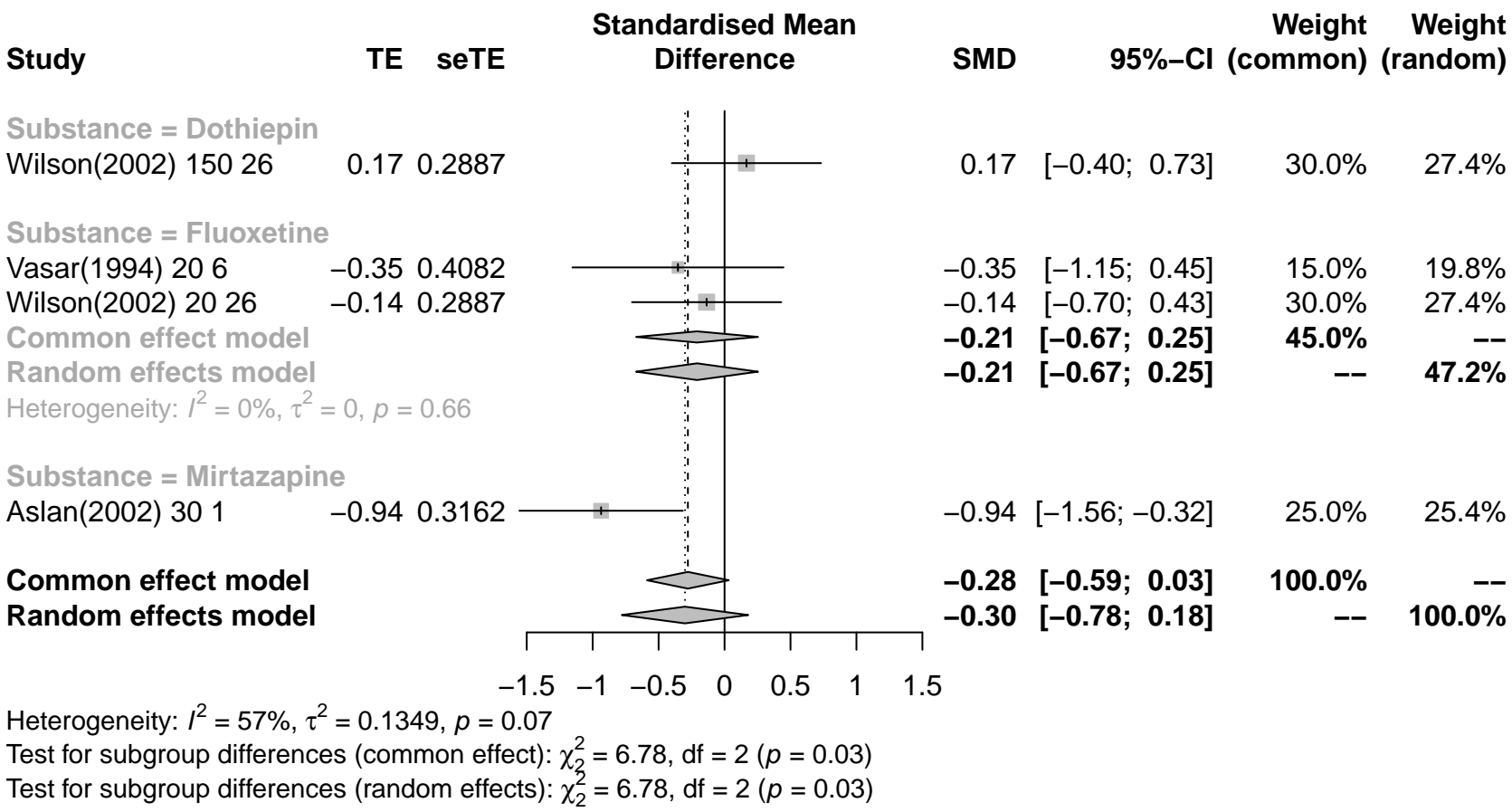
Healthy Population TST vs Placebo



Healthy Population Sleep Latency (min) vs Placebo

Study	TE	seTE	Standardised Mean Difference	SMD	95%-CI	Weight (common)	Weight (random)																																																																																																																																																																																																																																																																								
Substance = Dothiepin																																																																																																																																																																																																																																																																															
Wilson(2002) 150 26	-0.14	0.2887		-0.14	[-0.71; 0.42]	4.7%	5.3%																																																																																																																																																																																																																																																																								
Substance = Fluoxetine																																																																																																																																																																																																																																																																															
Saletu(1991) 40 1	-0.07	0.2357		-0.07	[-0.53; 0.39]	7.0%	5.4%																																																																																																																																																																																																																																																																								
Vasar(1994) 20 6	0.06	0.4082		0.06	[-0.74; 0.86]	2.3%	4.9%																																																																																																																																																																																																																																																																								
Wilson(2002) 20 26	0.00	0.2887		0.00	[-0.57; 0.57]	4.7%	5.3%	Common effect model				-0.02	[-0.35; 0.30]	14.1%	--	Random effects model				-0.02	[-0.35; 0.30]	--	15.5%	Heterogeneity: $I^2 = 0\%$, $\tau^2 = 0$, $p = 0.96$								Substance = Mirtazapine								Aslan(2002) 30 1	-0.44	0.3162		-0.44	[-1.06; 0.18]	3.9%	5.2%	Substance = Nefazodone								Sharpley(1996) 200 1	1.97	0.3015		1.97	[1.38; 2.56]	4.3%	5.2%	Sharpley(1996) 400 6	2.59	0.3015		2.59	[2.00; 3.18]	4.3%	5.2%	Sharpley(1996) 400 16	1.26	0.3015		1.26	[0.67; 1.86]	4.3%	5.2%	Common effect model				1.94	[1.60; 2.28]	12.9%	--	Random effects model				1.94	[1.19; 2.69]	--	15.6%	Heterogeneity: $I^2 = 79\%$, $\tau^2 = 0.3504$, $p < 0.01$								Substance = Paroxetine								Saletu(1991) 20 1	0.20	0.2357		0.20	[-0.26; 0.66]	7.0%	5.4%	Saletu(1991) 30 1	0.15	0.2357		0.15	[-0.31; 0.61]	7.0%	5.4%	Saletu(1991) 40 1	0.15	0.2357		0.15	[-0.31; 0.61]	7.0%	5.4%	Sharpley(1996) 20 1	2.32	0.3086		2.32	[1.71; 2.92]	4.1%	5.2%	Sharpley(1996) 30 6	2.54	0.3086		2.54	[1.94; 3.15]	4.1%	5.2%	Sharpley(1996) 30 16	2.34	0.3086		2.34	[1.74; 2.95]	4.1%	5.2%	Barbanoj(2005) 20 1	0.84	0.3015		0.84	[0.25; 1.43]	4.3%	5.2%	Barbanoj(2005) 20 15	0.31	0.3015		0.31	[-0.28; 0.90]	4.3%	5.2%	Wilson(2015) 20 3	0.25	0.2294		0.25	[-0.20; 0.70]	7.4%	5.4%	Common effect model				0.81	[0.63; 0.98]	49.5%	--	Random effects model				1.00	[0.31; 1.69]	--	47.6%	Heterogeneity: $I^2 = 93\%$, $\tau^2 = 1.0438$, $p < 0.01$								Substance = Vortioxetine								Wilson(2015) 20 3	0.35	0.2294		0.35	[-0.10; 0.80]	7.4%	5.4%	Wilson(2015) 40 3	-0.12	0.2294		-0.12	[-0.57; 0.33]	7.4%	5.4%	Common effect model				0.11	[-0.20; 0.43]	14.9%	--	Random effects model				0.11	[-0.35; 0.58]	--	10.8%	Heterogeneity: $I^2 = 53\%$, $\tau^2 = 0.0603$, $p = 0.14$								Common effect model				0.64	[0.52; 0.76]	100.0%	--	Random effects model				0.76	[0.29; 1.23]	--	100.0%
Common effect model				-0.02	[-0.35; 0.30]	14.1%	--																																																																																																																																																																																																																																																																								
Random effects model				-0.02	[-0.35; 0.30]	--	15.5%																																																																																																																																																																																																																																																																								
Heterogeneity: $I^2 = 0\%$, $\tau^2 = 0$, $p = 0.96$																																																																																																																																																																																																																																																																															
Substance = Mirtazapine																																																																																																																																																																																																																																																																															
Aslan(2002) 30 1	-0.44	0.3162		-0.44	[-1.06; 0.18]	3.9%	5.2%	Substance = Nefazodone								Sharpley(1996) 200 1	1.97	0.3015		1.97	[1.38; 2.56]	4.3%	5.2%	Sharpley(1996) 400 6	2.59	0.3015		2.59	[2.00; 3.18]	4.3%	5.2%	Sharpley(1996) 400 16	1.26	0.3015		1.26	[0.67; 1.86]	4.3%	5.2%	Common effect model				1.94	[1.60; 2.28]	12.9%	--	Random effects model				1.94	[1.19; 2.69]	--	15.6%	Heterogeneity: $I^2 = 79\%$, $\tau^2 = 0.3504$, $p < 0.01$								Substance = Paroxetine								Saletu(1991) 20 1	0.20	0.2357		0.20	[-0.26; 0.66]	7.0%	5.4%	Saletu(1991) 30 1	0.15	0.2357		0.15	[-0.31; 0.61]	7.0%	5.4%	Saletu(1991) 40 1	0.15	0.2357		0.15	[-0.31; 0.61]	7.0%	5.4%	Sharpley(1996) 20 1	2.32	0.3086		2.32	[1.71; 2.92]	4.1%	5.2%	Sharpley(1996) 30 6	2.54	0.3086		2.54	[1.94; 3.15]	4.1%	5.2%	Sharpley(1996) 30 16	2.34	0.3086		2.34	[1.74; 2.95]	4.1%	5.2%	Barbanoj(2005) 20 1	0.84	0.3015		0.84	[0.25; 1.43]	4.3%	5.2%	Barbanoj(2005) 20 15	0.31	0.3015		0.31	[-0.28; 0.90]	4.3%	5.2%	Wilson(2015) 20 3	0.25	0.2294		0.25	[-0.20; 0.70]	7.4%	5.4%	Common effect model				0.81	[0.63; 0.98]	49.5%	--	Random effects model				1.00	[0.31; 1.69]	--	47.6%	Heterogeneity: $I^2 = 93\%$, $\tau^2 = 1.0438$, $p < 0.01$								Substance = Vortioxetine								Wilson(2015) 20 3	0.35	0.2294		0.35	[-0.10; 0.80]	7.4%	5.4%	Wilson(2015) 40 3	-0.12	0.2294		-0.12	[-0.57; 0.33]	7.4%	5.4%	Common effect model				0.11	[-0.20; 0.43]	14.9%	--	Random effects model				0.11	[-0.35; 0.58]	--	10.8%	Heterogeneity: $I^2 = 53\%$, $\tau^2 = 0.0603$, $p = 0.14$								Common effect model				0.64	[0.52; 0.76]	100.0%	--	Random effects model				0.76	[0.29; 1.23]	--	100.0%																																								
Substance = Nefazodone																																																																																																																																																																																																																																																																															
Sharpley(1996) 200 1	1.97	0.3015		1.97	[1.38; 2.56]	4.3%	5.2%																																																																																																																																																																																																																																																																								
Sharpley(1996) 400 6	2.59	0.3015		2.59	[2.00; 3.18]	4.3%	5.2%																																																																																																																																																																																																																																																																								
Sharpley(1996) 400 16	1.26	0.3015		1.26	[0.67; 1.86]	4.3%	5.2%	Common effect model				1.94	[1.60; 2.28]	12.9%	--	Random effects model				1.94	[1.19; 2.69]	--	15.6%	Heterogeneity: $I^2 = 79\%$, $\tau^2 = 0.3504$, $p < 0.01$								Substance = Paroxetine								Saletu(1991) 20 1	0.20	0.2357		0.20	[-0.26; 0.66]	7.0%	5.4%	Saletu(1991) 30 1	0.15	0.2357		0.15	[-0.31; 0.61]	7.0%	5.4%	Saletu(1991) 40 1	0.15	0.2357		0.15	[-0.31; 0.61]	7.0%	5.4%	Sharpley(1996) 20 1	2.32	0.3086		2.32	[1.71; 2.92]	4.1%	5.2%	Sharpley(1996) 30 6	2.54	0.3086		2.54	[1.94; 3.15]	4.1%	5.2%	Sharpley(1996) 30 16	2.34	0.3086		2.34	[1.74; 2.95]	4.1%	5.2%	Barbanoj(2005) 20 1	0.84	0.3015		0.84	[0.25; 1.43]	4.3%	5.2%	Barbanoj(2005) 20 15	0.31	0.3015		0.31	[-0.28; 0.90]	4.3%	5.2%	Wilson(2015) 20 3	0.25	0.2294		0.25	[-0.20; 0.70]	7.4%	5.4%	Common effect model				0.81	[0.63; 0.98]	49.5%	--	Random effects model				1.00	[0.31; 1.69]	--	47.6%	Heterogeneity: $I^2 = 93\%$, $\tau^2 = 1.0438$, $p < 0.01$								Substance = Vortioxetine								Wilson(2015) 20 3	0.35	0.2294		0.35	[-0.10; 0.80]	7.4%	5.4%	Wilson(2015) 40 3	-0.12	0.2294		-0.12	[-0.57; 0.33]	7.4%	5.4%	Common effect model				0.11	[-0.20; 0.43]	14.9%	--	Random effects model				0.11	[-0.35; 0.58]	--	10.8%	Heterogeneity: $I^2 = 53\%$, $\tau^2 = 0.0603$, $p = 0.14$								Common effect model				0.64	[0.52; 0.76]	100.0%	--	Random effects model				0.76	[0.29; 1.23]	--	100.0%																																																																								
Common effect model				1.94	[1.60; 2.28]	12.9%	--																																																																																																																																																																																																																																																																								
Random effects model				1.94	[1.19; 2.69]	--	15.6%																																																																																																																																																																																																																																																																								
Heterogeneity: $I^2 = 79\%$, $\tau^2 = 0.3504$, $p < 0.01$																																																																																																																																																																																																																																																																															
Substance = Paroxetine																																																																																																																																																																																																																																																																															
Saletu(1991) 20 1	0.20	0.2357		0.20	[-0.26; 0.66]	7.0%	5.4%																																																																																																																																																																																																																																																																								
Saletu(1991) 30 1	0.15	0.2357		0.15	[-0.31; 0.61]	7.0%	5.4%																																																																																																																																																																																																																																																																								
Saletu(1991) 40 1	0.15	0.2357		0.15	[-0.31; 0.61]	7.0%	5.4%																																																																																																																																																																																																																																																																								
Sharpley(1996) 20 1	2.32	0.3086		2.32	[1.71; 2.92]	4.1%	5.2%																																																																																																																																																																																																																																																																								
Sharpley(1996) 30 6	2.54	0.3086		2.54	[1.94; 3.15]	4.1%	5.2%																																																																																																																																																																																																																																																																								
Sharpley(1996) 30 16	2.34	0.3086		2.34	[1.74; 2.95]	4.1%	5.2%																																																																																																																																																																																																																																																																								
Barbanoj(2005) 20 1	0.84	0.3015		0.84	[0.25; 1.43]	4.3%	5.2%																																																																																																																																																																																																																																																																								
Barbanoj(2005) 20 15	0.31	0.3015		0.31	[-0.28; 0.90]	4.3%	5.2%																																																																																																																																																																																																																																																																								
Wilson(2015) 20 3	0.25	0.2294		0.25	[-0.20; 0.70]	7.4%	5.4%	Common effect model				0.81	[0.63; 0.98]	49.5%	--	Random effects model				1.00	[0.31; 1.69]	--	47.6%	Heterogeneity: $I^2 = 93\%$, $\tau^2 = 1.0438$, $p < 0.01$								Substance = Vortioxetine								Wilson(2015) 20 3	0.35	0.2294		0.35	[-0.10; 0.80]	7.4%	5.4%	Wilson(2015) 40 3	-0.12	0.2294		-0.12	[-0.57; 0.33]	7.4%	5.4%	Common effect model				0.11	[-0.20; 0.43]	14.9%	--	Random effects model				0.11	[-0.35; 0.58]	--	10.8%	Heterogeneity: $I^2 = 53\%$, $\tau^2 = 0.0603$, $p = 0.14$								Common effect model				0.64	[0.52; 0.76]	100.0%	--	Random effects model				0.76	[0.29; 1.23]	--	100.0%																																																																																																																																																																																
Common effect model				0.81	[0.63; 0.98]	49.5%	--																																																																																																																																																																																																																																																																								
Random effects model				1.00	[0.31; 1.69]	--	47.6%																																																																																																																																																																																																																																																																								
Heterogeneity: $I^2 = 93\%$, $\tau^2 = 1.0438$, $p < 0.01$																																																																																																																																																																																																																																																																															
Substance = Vortioxetine																																																																																																																																																																																																																																																																															
Wilson(2015) 20 3	0.35	0.2294		0.35	[-0.10; 0.80]	7.4%	5.4%																																																																																																																																																																																																																																																																								
Wilson(2015) 40 3	-0.12	0.2294		-0.12	[-0.57; 0.33]	7.4%	5.4%	Common effect model				0.11	[-0.20; 0.43]	14.9%	--	Random effects model				0.11	[-0.35; 0.58]	--	10.8%	Heterogeneity: $I^2 = 53\%$, $\tau^2 = 0.0603$, $p = 0.14$								Common effect model				0.64	[0.52; 0.76]	100.0%	--	Random effects model				0.76	[0.29; 1.23]	--	100.0%																																																																																																																																																																																																																																
Common effect model				0.11	[-0.20; 0.43]	14.9%	--																																																																																																																																																																																																																																																																								
Random effects model				0.11	[-0.35; 0.58]	--	10.8%																																																																																																																																																																																																																																																																								
Heterogeneity: $I^2 = 53\%$, $\tau^2 = 0.0603$, $p = 0.14$																																																																																																																																																																																																																																																																															
Common effect model				0.64	[0.52; 0.76]	100.0%	--																																																																																																																																																																																																																																																																								
Random effects model				0.76	[0.29; 1.23]	--	100.0%																																																																																																																																																																																																																																																																								

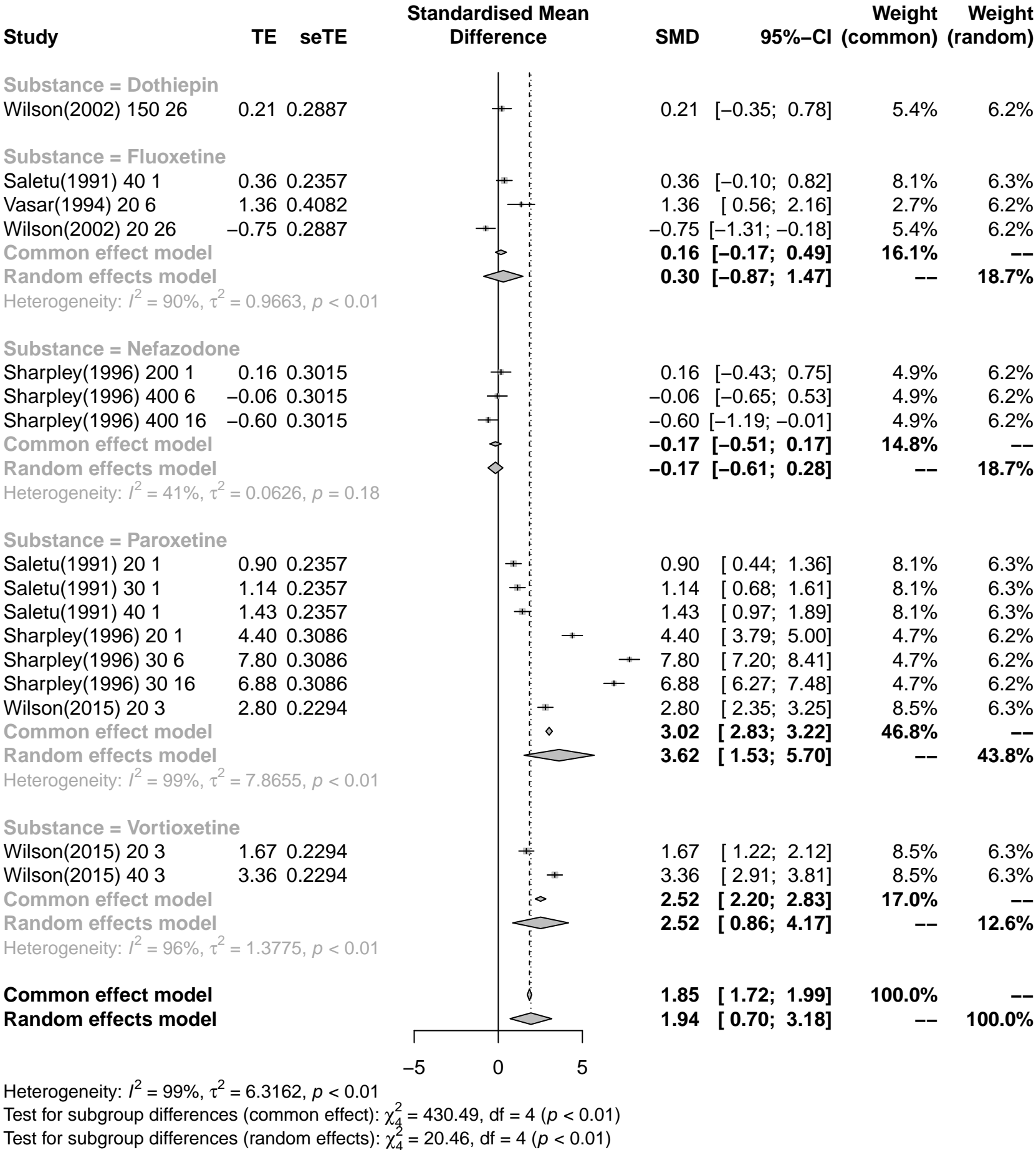
Healthy Population no. wake periods vs Placebo



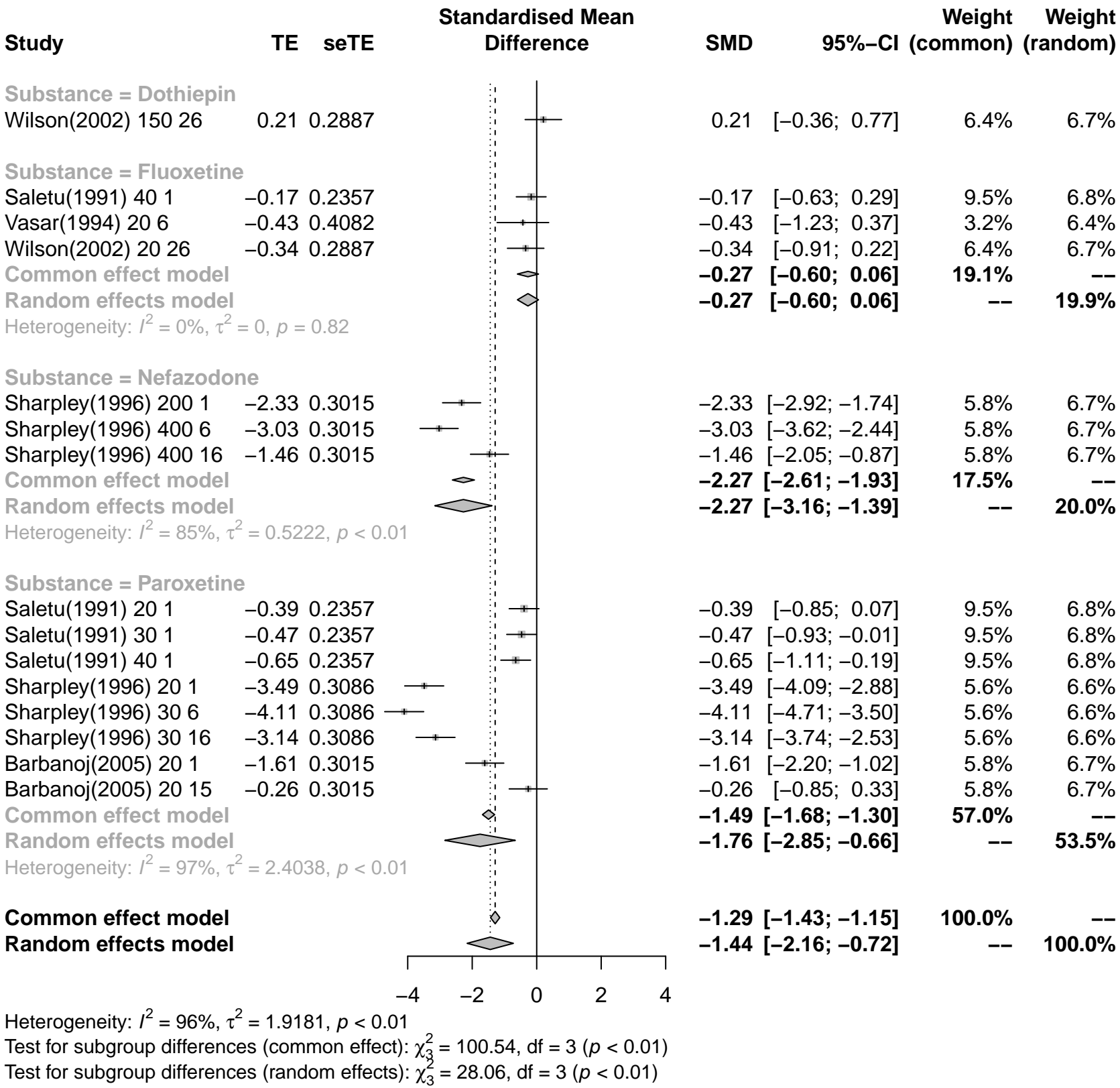
Healthy Population WASO vs Placebo

Study	TE	seTE	Standardised Mean Difference	SMD	95%-CI (common)	Weight (common)	Weight (random)																																																																																																																																																																																																																																
Substance = Dothiepin																																																																																																																																																																																																																																							
Wilson(2002) 150 26	0.11	0.2887		0.11	[-0.45; 0.68]	7.4%	7.7%																																																																																																																																																																																																																																
Substance = Fluoxetine																																																																																																																																																																																																																																							
Vasar(1994) 20 6	-0.38	0.4082		-0.38	[-1.18; 0.42]	3.7%	7.3%																																																																																																																																																																																																																																
Wilson(2002) 20 26	-0.05	0.2887		-0.05	[-0.62; 0.51]	7.4%	7.7%	Common effect model								Random effects model								Heterogeneity: $I^2 = 0\%$, $\tau^2 = 0$, $p = 0.52$								Substance = Mirtazapine								Aslan(2002) 30 1	-1.22	0.3162		-1.22	[-1.84; -0.60]	6.2%	7.6%	Substance = Nefazodone								Sharpley(1996) 200 1	1.41	0.3015		1.41	[0.81; 2.00]	6.8%	7.7%	Sharpley(1996) 400 6	1.25	0.3015		1.25	[0.66; 1.84]	6.8%	7.7%	Sharpley(1996) 400 16	1.44	0.3015		1.44	[0.85; 2.03]	6.8%	7.7%	Common effect model								Random effects model								Heterogeneity: $I^2 = 0\%$, $\tau^2 = 0$, $p = 0.89$								Substance = Paroxetine								Sharpley(1996) 20 1	2.36	0.3086		2.36	[1.76; 2.97]	6.5%	7.7%	Sharpley(1996) 30 6	3.13	0.3086		3.13	[2.52; 3.73]	6.5%	7.7%	Sharpley(1996) 30 16	2.54	0.3086		2.54	[1.93; 3.14]	6.5%	7.7%	Wilson(2015) 20 3	0.42	0.2294		0.42	[-0.03; 0.87]	11.8%	7.9%	Common effect model								Random effects model								Heterogeneity: $I^2 = 95\%$, $\tau^2 = 1.3347$, $p < 0.01$								Substance = Vortioxetine								Wilson(2015) 20 3	0.30	0.2294		0.30	[-0.15; 0.75]	11.8%	7.9%	Wilson(2015) 40 3	0.85	0.2294		0.85	[0.41; 1.30]	11.8%	7.9%	Common effect model								Random effects model								Heterogeneity: $I^2 = 66\%$, $\tau^2 = 0.1032$, $p = 0.09$								Common effect model								Random effects model							
Common effect model																																																																																																																																																																																																																																							
Random effects model																																																																																																																																																																																																																																							
Heterogeneity: $I^2 = 0\%$, $\tau^2 = 0$, $p = 0.52$																																																																																																																																																																																																																																							
Substance = Mirtazapine																																																																																																																																																																																																																																							
Aslan(2002) 30 1	-1.22	0.3162		-1.22	[-1.84; -0.60]	6.2%	7.6%	Substance = Nefazodone								Sharpley(1996) 200 1	1.41	0.3015		1.41	[0.81; 2.00]	6.8%	7.7%	Sharpley(1996) 400 6	1.25	0.3015		1.25	[0.66; 1.84]	6.8%	7.7%	Sharpley(1996) 400 16	1.44	0.3015		1.44	[0.85; 2.03]	6.8%	7.7%	Common effect model								Random effects model								Heterogeneity: $I^2 = 0\%$, $\tau^2 = 0$, $p = 0.89$								Substance = Paroxetine								Sharpley(1996) 20 1	2.36	0.3086		2.36	[1.76; 2.97]	6.5%	7.7%	Sharpley(1996) 30 6	3.13	0.3086		3.13	[2.52; 3.73]	6.5%	7.7%	Sharpley(1996) 30 16	2.54	0.3086		2.54	[1.93; 3.14]	6.5%	7.7%	Wilson(2015) 20 3	0.42	0.2294		0.42	[-0.03; 0.87]	11.8%	7.9%	Common effect model								Random effects model								Heterogeneity: $I^2 = 95\%$, $\tau^2 = 1.3347$, $p < 0.01$								Substance = Vortioxetine								Wilson(2015) 20 3	0.30	0.2294		0.30	[-0.15; 0.75]	11.8%	7.9%	Wilson(2015) 40 3	0.85	0.2294		0.85	[0.41; 1.30]	11.8%	7.9%	Common effect model								Random effects model								Heterogeneity: $I^2 = 66\%$, $\tau^2 = 0.1032$, $p = 0.09$								Common effect model								Random effects model																																															
Substance = Nefazodone																																																																																																																																																																																																																																							
Sharpley(1996) 200 1	1.41	0.3015		1.41	[0.81; 2.00]	6.8%	7.7%																																																																																																																																																																																																																																
Sharpley(1996) 400 6	1.25	0.3015		1.25	[0.66; 1.84]	6.8%	7.7%																																																																																																																																																																																																																																
Sharpley(1996) 400 16	1.44	0.3015		1.44	[0.85; 2.03]	6.8%	7.7%	Common effect model								Random effects model								Heterogeneity: $I^2 = 0\%$, $\tau^2 = 0$, $p = 0.89$								Substance = Paroxetine								Sharpley(1996) 20 1	2.36	0.3086		2.36	[1.76; 2.97]	6.5%	7.7%	Sharpley(1996) 30 6	3.13	0.3086		3.13	[2.52; 3.73]	6.5%	7.7%	Sharpley(1996) 30 16	2.54	0.3086		2.54	[1.93; 3.14]	6.5%	7.7%	Wilson(2015) 20 3	0.42	0.2294		0.42	[-0.03; 0.87]	11.8%	7.9%	Common effect model								Random effects model								Heterogeneity: $I^2 = 95\%$, $\tau^2 = 1.3347$, $p < 0.01$								Substance = Vortioxetine								Wilson(2015) 20 3	0.30	0.2294		0.30	[-0.15; 0.75]	11.8%	7.9%	Wilson(2015) 40 3	0.85	0.2294		0.85	[0.41; 1.30]	11.8%	7.9%	Common effect model								Random effects model								Heterogeneity: $I^2 = 66\%$, $\tau^2 = 0.1032$, $p = 0.09$								Common effect model								Random effects model																																																																															
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Sharpley(1996) 30 6	3.13	0.3086		3.13	[2.52; 3.73]	6.5%	7.7%																																																																																																																																																																																																																																
Sharpley(1996) 30 16	2.54	0.3086		2.54	[1.93; 3.14]	6.5%	7.7%																																																																																																																																																																																																																																
Wilson(2015) 20 3	0.42	0.2294		0.42	[-0.03; 0.87]	11.8%	7.9%	Common effect model								Random effects model								Heterogeneity: $I^2 = 95\%$, $\tau^2 = 1.3347$, $p < 0.01$								Substance = Vortioxetine								Wilson(2015) 20 3	0.30	0.2294		0.30	[-0.15; 0.75]	11.8%	7.9%	Wilson(2015) 40 3	0.85	0.2294		0.85	[0.41; 1.30]	11.8%	7.9%	Common effect model								Random effects model								Heterogeneity: $I^2 = 66\%$, $\tau^2 = 0.1032$, $p = 0.09$								Common effect model								Random effects model																																																																																																																																															
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Wilson(2015) 20 3	0.30	0.2294		0.30	[-0.15; 0.75]	11.8%	7.9%																																																																																																																																																																																																																																
Wilson(2015) 40 3	0.85	0.2294		0.85	[0.41; 1.30]	11.8%	7.9%	Common effect model								Random effects model								Heterogeneity: $I^2 = 66\%$, $\tau^2 = 0.1032$, $p = 0.09$								Common effect model								Random effects model																																																																																																																																																																																															
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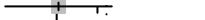
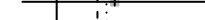
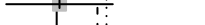
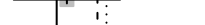
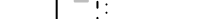
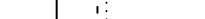

Healthy Population REM latency min vs Placebo



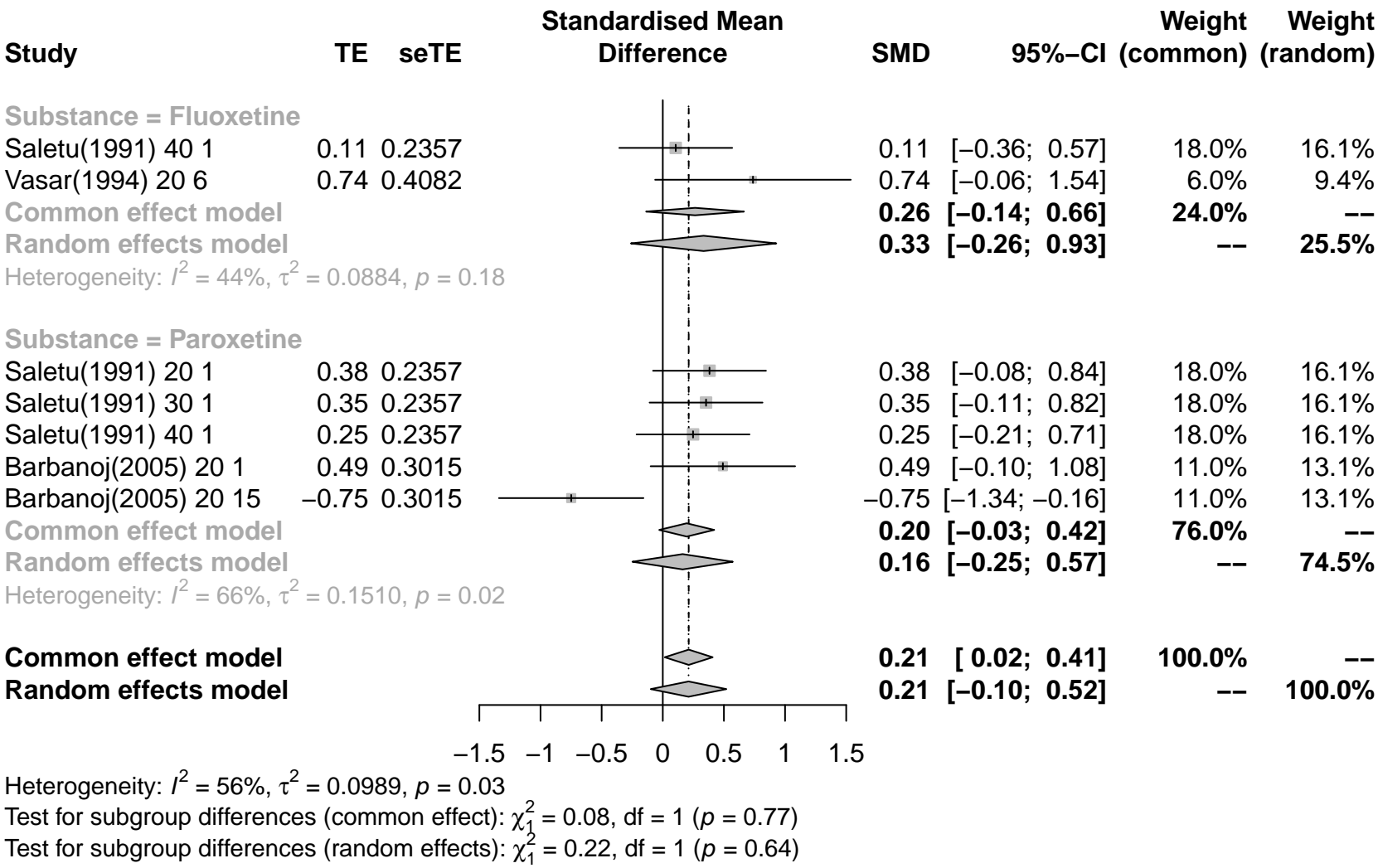
Healthy Population SE % vs Placebo



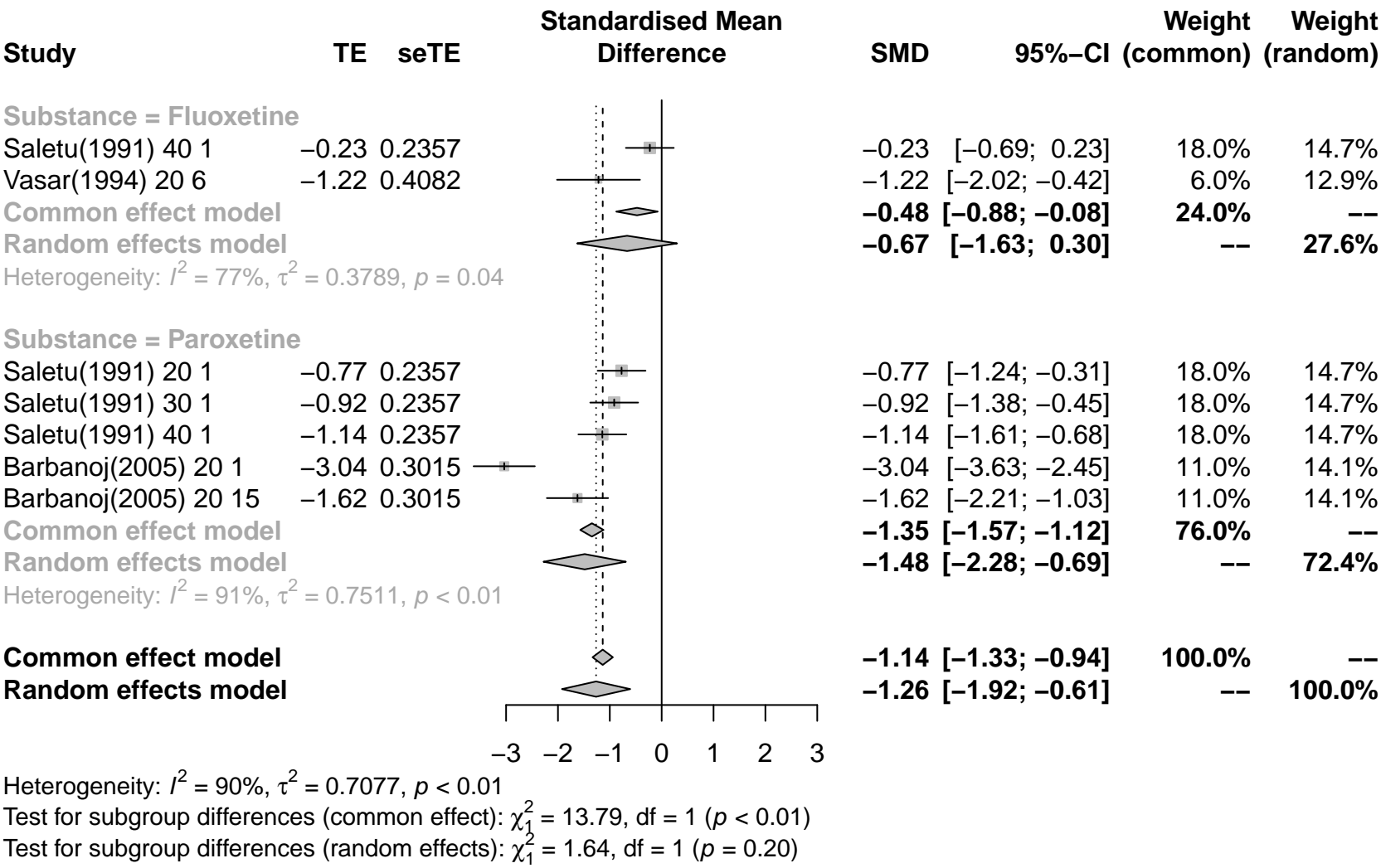
Healthy Population stage 2 % SPT vs Placebo

Study	TE	seTE	Standardised Mean Difference	SMD	95%-CI (common)	Weight (common)	Weight (random)
Substance = Fluoxetine							
Saletu(1991) 40 1	0.02	0.2357		0.02	[-0.45; 0.48]	18.0%	15.5%
Vasar(1994) 20 6	0.50	0.4082		0.50	[-0.30; 1.30]	6.0%	10.9%
Common effect model				0.14	[-0.26; 0.54]	24.0%	--
Random effects model				0.15	[-0.28; 0.57]	--	26.3%
Heterogeneity: $I^2 = 6\%$, $\tau^2 = 0.0075$, $p = 0.30$							
Substance = Paroxetine							
Saletu(1991) 20 1	0.02	0.2357		0.02	[-0.44; 0.49]	18.0%	15.5%
Saletu(1991) 30 1	0.09	0.2357		0.09	[-0.37; 0.55]	18.0%	15.5%
Saletu(1991) 40 1	0.21	0.2357		0.21	[-0.25; 0.67]	18.0%	15.5%
Barbanoj(2005) 20 1	1.00	0.3015		1.00	[0.41; 1.60]	11.0%	13.6%
Barbanoj(2005) 20 15	1.37	0.3015		1.37	[0.78; 1.97]	11.0%	13.6%
Common effect model				0.42	[0.20; 0.65]	76.0%	--
Random effects model				0.52	[-0.01; 1.04]	--	73.7%
Heterogeneity: $I^2 = 79\%$, $\tau^2 = 0.2868$, $p < 0.01$							
Common effect model				0.35	[0.16; 0.55]	100.0%	--
Random effects model				0.43	[0.04; 0.83]	--	100.0%
Heterogeneity: $I^2 = 73\%$, $\tau^2 = 0.2070$, $p < 0.01$							
Test for subgroup differences (common effect): $\chi^2_1 = 1.47$, $df = 1$ ($p = 0.23$)							
Test for subgroup differences (random effects): $\chi^2_1 = 1.17$, $df = 1$ ($p = 0.28$)							

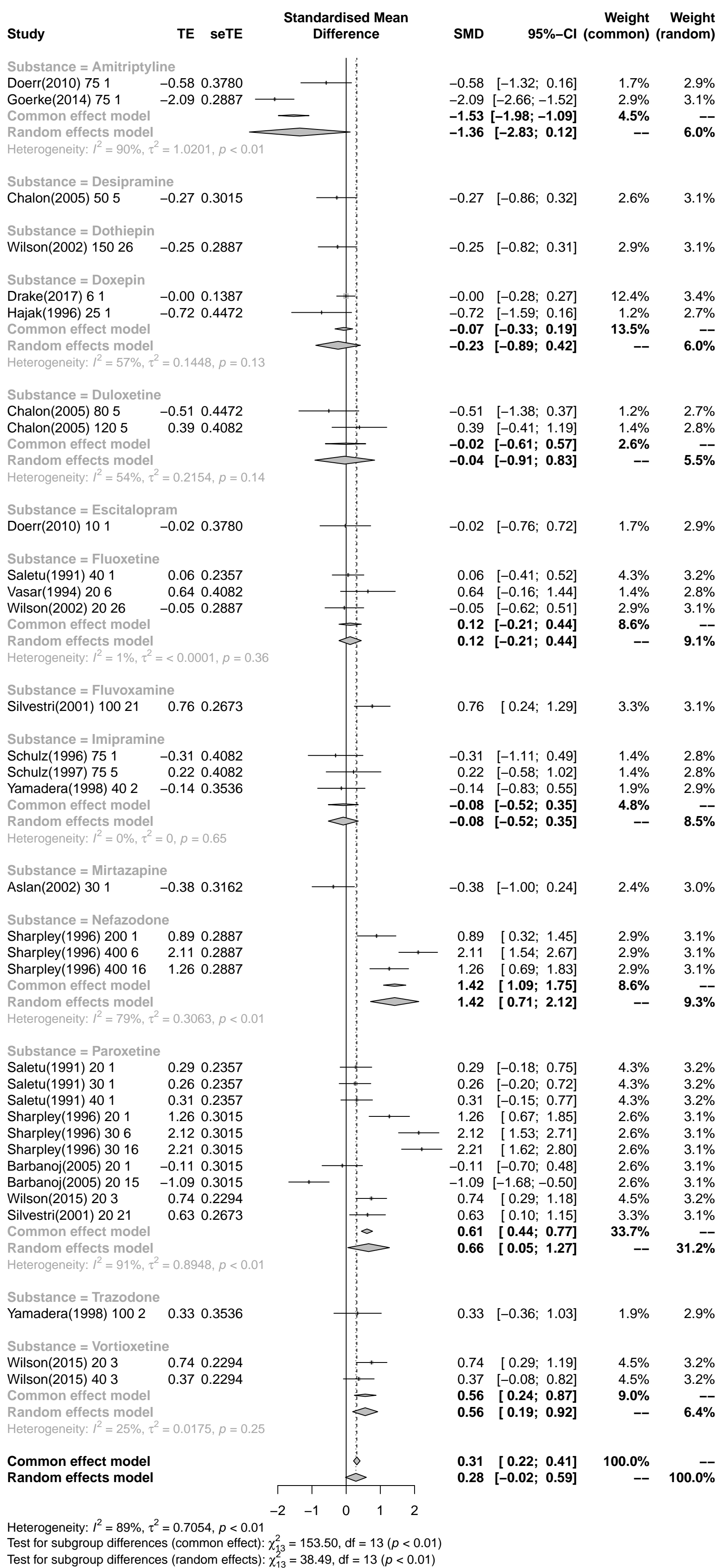
Healthy Population stage SWS % SPT vs Placebo



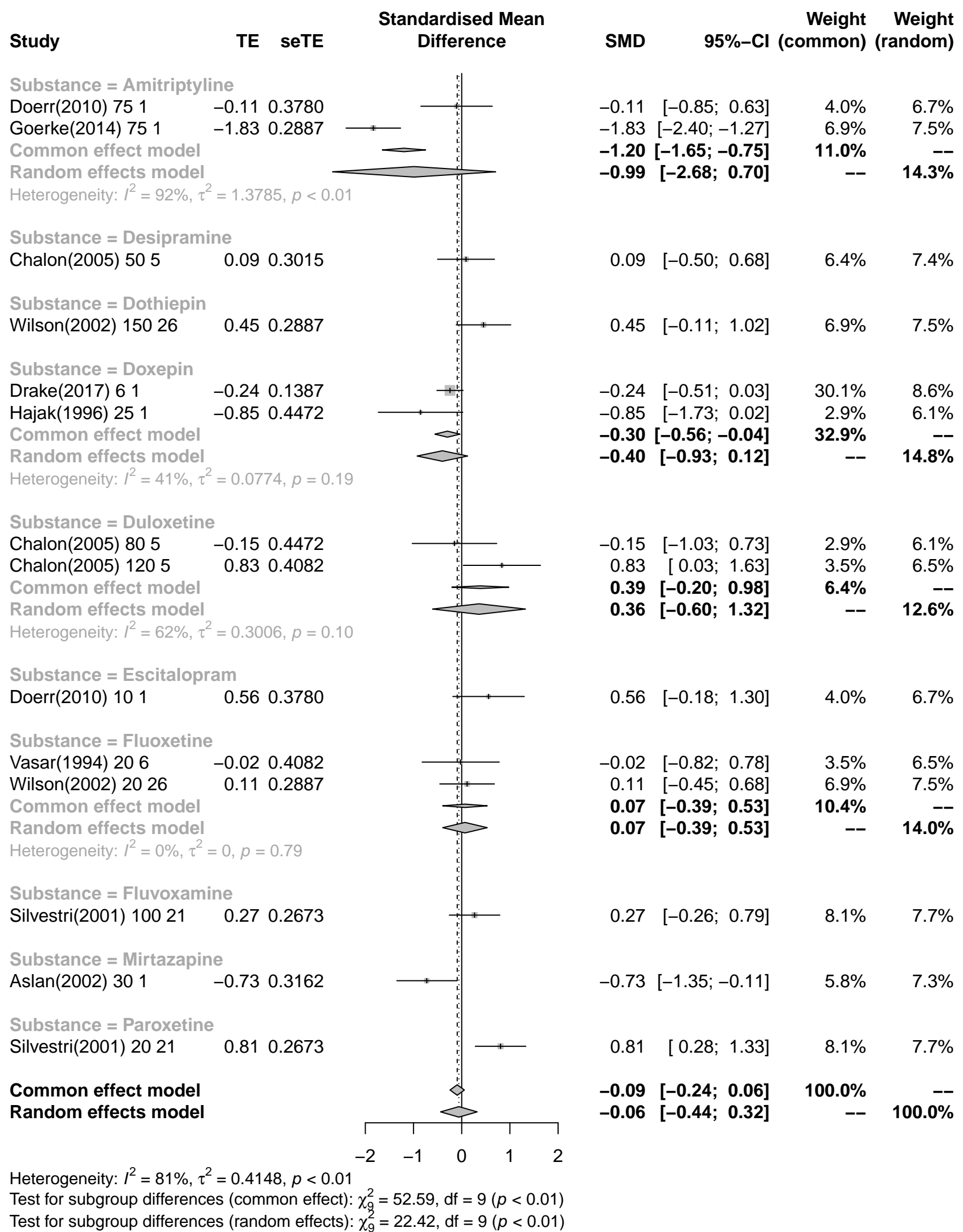
Healthy Population stage REM % SPT vs Placebo



Healthy Population Sleep Latency (min)



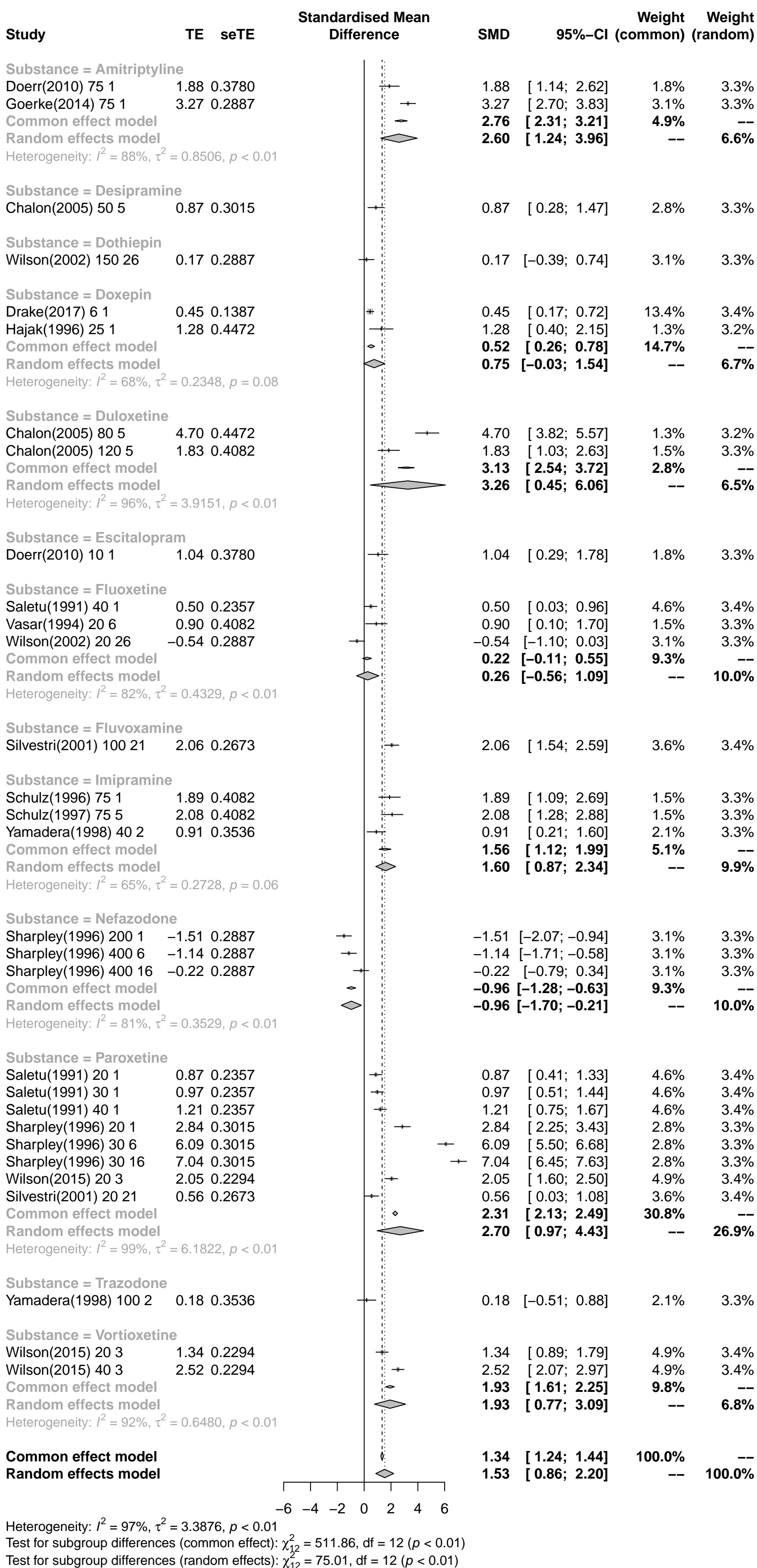
Healthy Population no. wake periods



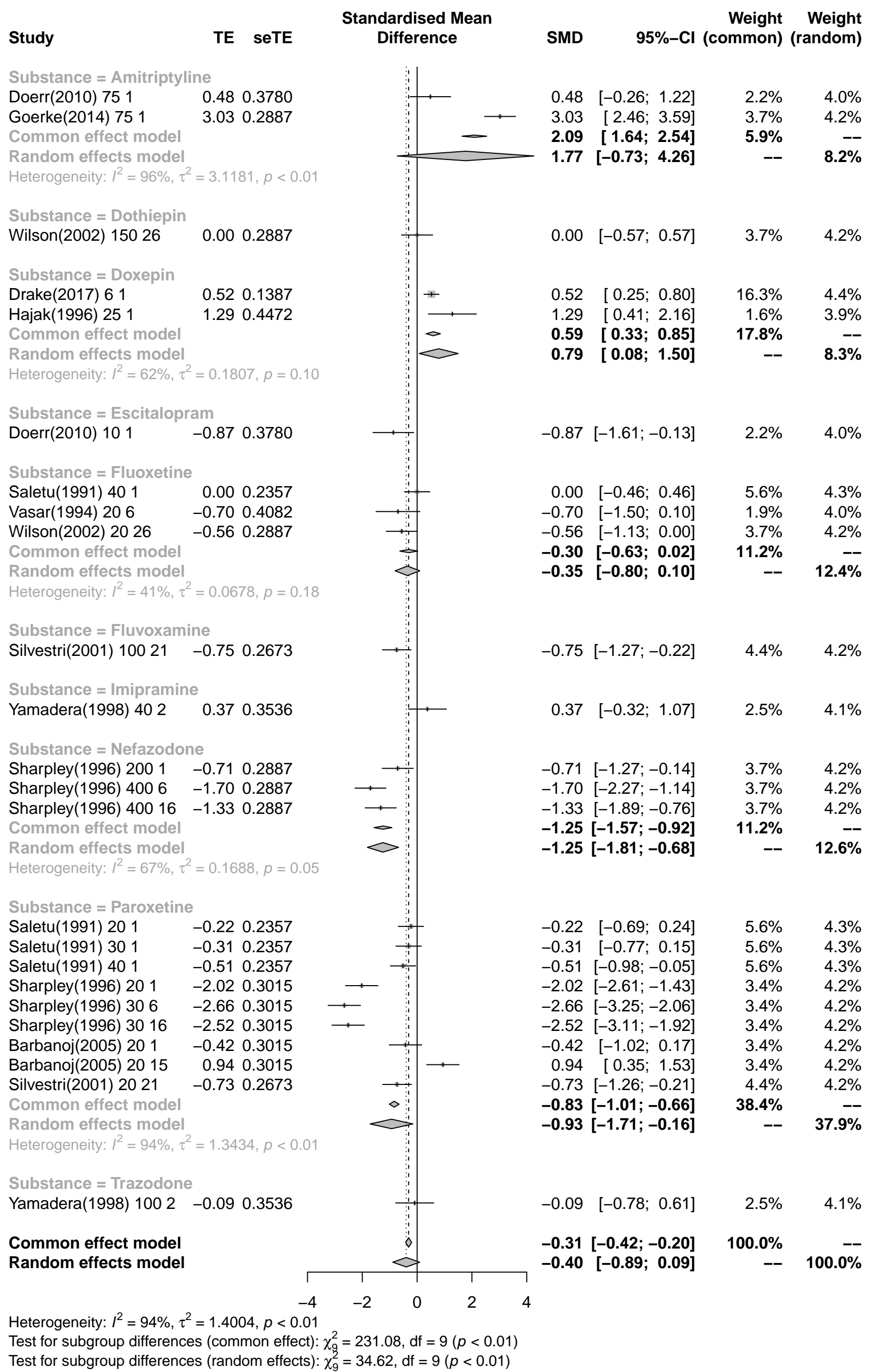
Healthy Population WASO

Study	TE	seTE	Standardised Mean Difference	SMD	95%-CI (common)	Weight	Weight (random)
Substance = Amitriptyline							
Doerr(2010) 75 1	-0.21	0.3780		-0.21	[-0.95; 0.53]	2.6%	4.8%
Goerke(2014) 75 1	-2.28	0.2887		-2.28	[-2.85; -1.71]	4.5%	5.1%
Common effect model				-1.52	[-1.97; -1.07]	7.1%	--
Random effects model				-1.26	[-3.29; 0.77]	--	9.8%
Heterogeneity: $I^2 = 95\%$, $\tau^2 = 2.0275$, $p < 0.01$							
Substance = Desipramine							
Chalon(2005) 50 5	0.56	0.3015		0.56	[-0.03; 1.15]	4.1%	5.0%
Substance = Dothiepin							
Wilson(2002) 150 26	0.25	0.2887		0.25	[-0.32; 0.81]	4.5%	5.1%
Substance = Doxepin							
Drake(2017) 6 1	-0.56	0.1387		-0.56	[-0.83; -0.28]	19.5%	5.5%
Substance = Duloxetine							
Chalon(2005) 80 5	-0.35	0.4472		-0.35	[-1.22; 0.53]	1.9%	4.5%
Chalon(2005) 120 5	0.74	0.4082		0.74	[-0.06; 1.54]	2.3%	4.6%
Common effect model				0.25	[-0.34; 0.84]	4.1%	--
Random effects model				0.21	[-0.85; 1.28]	--	9.1%
Heterogeneity: $I^2 = 69\%$, $\tau^2 = 0.4092$, $p = 0.07$							
Substance = Escitalopram							
Doerr(2010) 10 1	1.01	0.3780		1.01	[0.27; 1.75]	2.6%	4.8%
Substance = Fluoxetine							
Vasar(1994) 20 6	-0.04	0.4082		-0.04	[-0.84; 0.76]	2.3%	4.6%
Wilson(2002) 20 26	0.09	0.2887		0.09	[-0.48; 0.66]	4.5%	5.1%
Common effect model				0.05	[-0.41; 0.51]	6.8%	--
Random effects model				0.05	[-0.41; 0.51]	--	9.7%
Heterogeneity: $I^2 = 0\%$, $\tau^2 = 0$, $p = 0.80$							
Substance = Mirtazapine							
Aslan(2002) 30 1	-0.79	0.3162		-0.79	[-1.41; -0.17]	3.8%	5.0%
Substance = Nefazodone							
Sharpley(1996) 200 1	0.47	0.2887		0.47	[-0.10; 1.04]	4.5%	5.1%
Sharpley(1996) 400 6	-0.59	0.2887		-0.59	[-1.15; -0.02]	4.5%	5.1%
Sharpley(1996) 400 16	0.54	0.2887		0.54	[-0.03; 1.10]	4.5%	5.1%
Common effect model				0.14	[-0.19; 0.47]	13.5%	--
Random effects model				0.14	[-0.57; 0.85]	--	15.2%
Heterogeneity: $I^2 = 79\%$, $\tau^2 = 0.3153$, $p < 0.01$							
Substance = Paroxetine							
Sharpley(1996) 20 1	1.48	0.3015		1.48	[0.89; 2.07]	4.1%	5.0%
Sharpley(1996) 30 6	1.65	0.3015		1.65	[1.06; 2.25]	4.1%	5.0%
Sharpley(1996) 30 16	1.82	0.3015		1.82	[1.23; 2.41]	4.1%	5.0%
Wilson(2015) 20 3	0.47	0.2294		0.47	[0.02; 0.92]	7.1%	5.3%
Common effect model				1.22	[0.95; 1.49]	19.5%	--
Random effects model				1.33	[0.71; 1.96]	--	20.3%
Heterogeneity: $I^2 = 83\%$, $\tau^2 = 0.3248$, $p < 0.01$							
Substance = Vortioxetine							
Wilson(2015) 20 3	0.50	0.2294		0.50	[0.05; 0.95]	7.1%	5.3%
Wilson(2015) 40 3	0.80	0.2294		0.80	[0.35; 1.25]	7.1%	5.3%
Common effect model				0.65	[0.33; 0.97]	14.3%	--
Random effects model				0.65	[0.33; 0.97]	--	10.5%
Heterogeneity: $I^2 = 0\%$, $\tau^2 = 0$, $p = 0.35$							
Common effect model				0.18	[0.06; 0.30]	100.0%	--
Random effects model				0.28	[-0.14; 0.70]	--	100.0%
Heterogeneity: $I^2 = 91\%$, $\tau^2 = 0.8079$, $p < 0.01$							
Test for subgroup differences (common effect): $\chi^2_{10} = 163.90$, $df = 10$ ($p < 0.01$)							
Test for subgroup differences (random effects): $\chi^2_{10} = 67.07$, $df = 10$ ($p < 0.01$)							

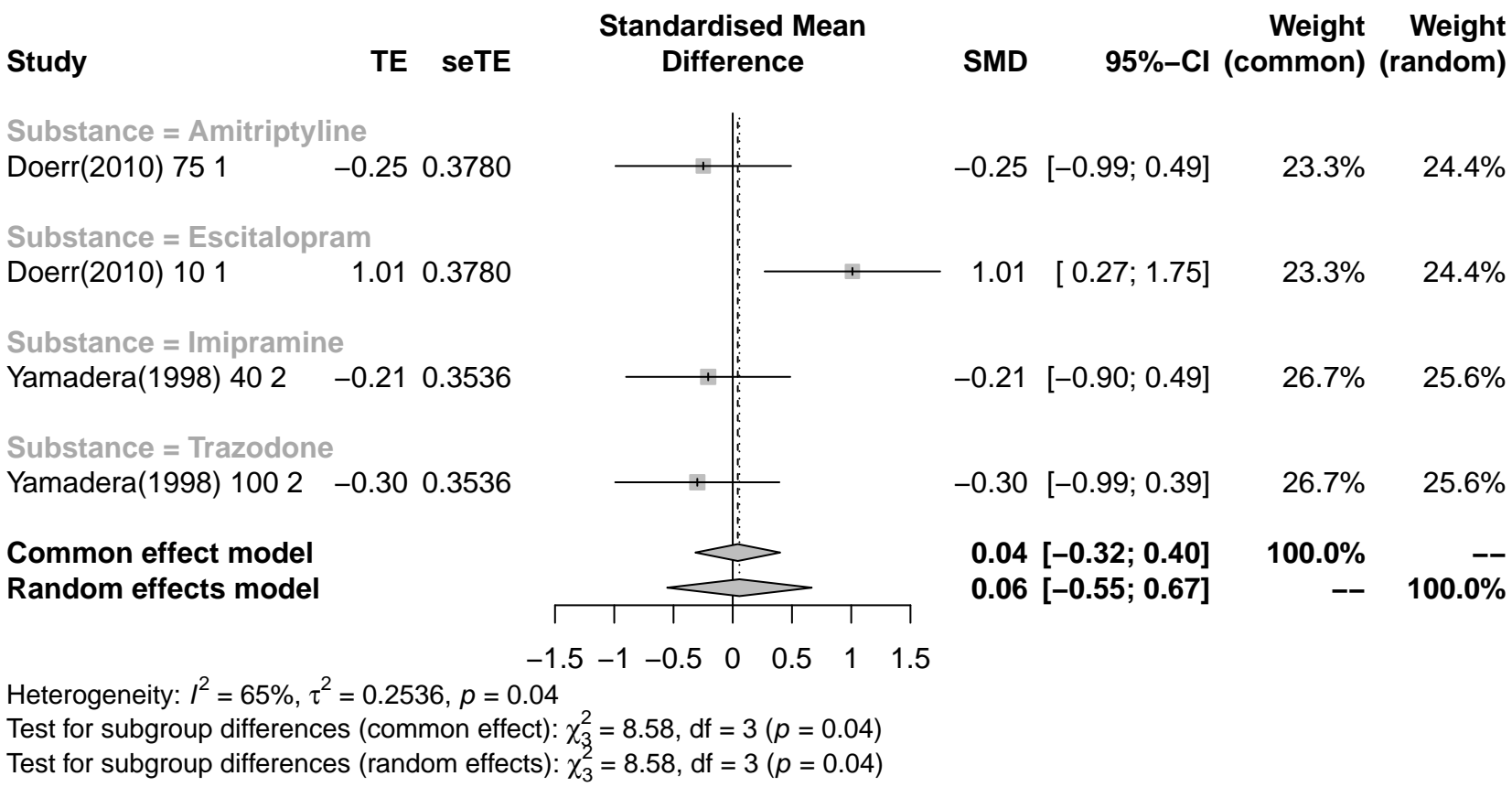
Healthy Population REM latency min



Healthy Population SE %



Healthy Population stage wake % SPT



Healthy Population stage 2 % SPT

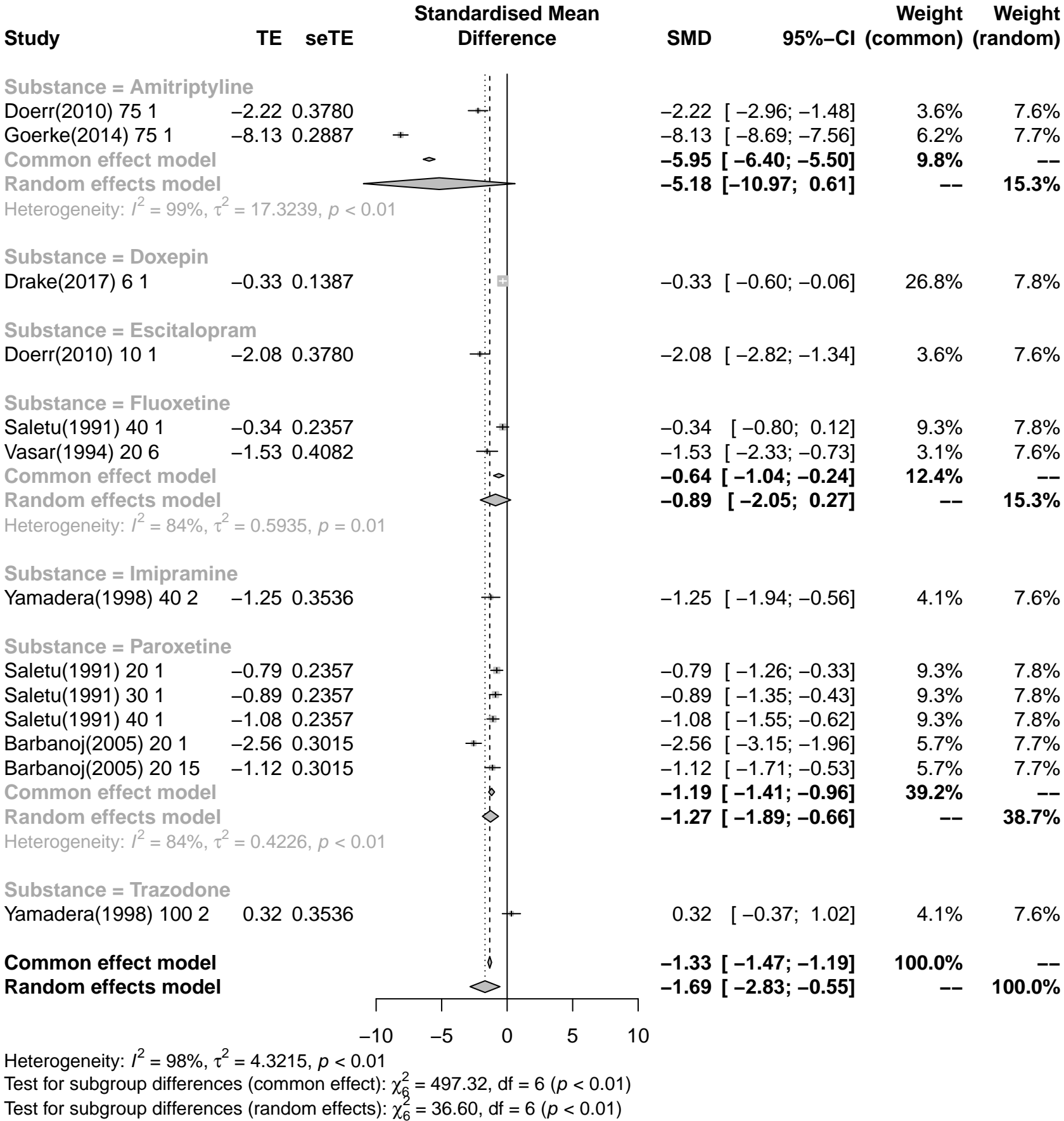
Study	TE	seTE	Standardized Mean Difference	SMD	95%-CI (common)	Weight (common)	Weight (random)
Substance = Amitriptyline							
Doerr(2010) 75 1	1.38	0.3780		1.38	[0.64; 2.12]	3.9%	8.8%
Goerke(2014) 75 1	4.10	0.2887		4.10	[3.53; 4.67]	6.7%	9.1%
Common effect model				3.10	[2.65; 3.55]	10.7%	--
Random effects model				2.75	[0.09; 5.42]	--	17.9%
Heterogeneity: $I^2 = 97\%$, $\tau^2 = 3.5818$, $p < 0.01$							
Substance = Doxepin							
Drake(2017) 6 1	0.33	0.1387		0.33	[0.06; 0.60]	29.2%	9.5%
Substance = Escitalopram							
Doerr(2010) 10 1	-0.25	0.3780		-0.25	[-0.99; 0.49]	3.9%	8.8%
Substance = Fluoxetine							
Saletu(1991) 40 1	0.12	0.2357		0.12	[-0.35; 0.58]	10.1%	9.3%
Vasar(1994) 20 6	1.03	0.4082		1.03	[0.23; 1.83]	3.4%	8.6%
Common effect model				0.35	[-0.05; 0.75]	13.5%	--
Random effects model				0.51	[-0.38; 1.41]	--	17.9%
Heterogeneity: $I^2 = 74\%$, $\tau^2 = 0.3092$, $p = 0.05$							
Substance = Paroxetine							
Saletu(1991) 20 1	0.13	0.2357		0.13	[-0.33; 0.59]	10.1%	9.3%
Saletu(1991) 30 1	0.19	0.2357		0.19	[-0.27; 0.65]	10.1%	9.3%
Saletu(1991) 40 1	0.28	0.2357		0.28	[-0.18; 0.74]	10.1%	9.3%
Barbanoj(2005) 20 1	0.70	0.3015		0.70	[0.11; 1.29]	6.2%	9.1%
Barbanoj(2005) 20 15	1.85	0.3015		1.85	[1.26; 2.45]	6.2%	9.1%
Common effect model				0.51	[0.29; 0.74]	42.7%	--
Random effects model				0.61	[-0.00; 1.23]	--	46.0%
Heterogeneity: $I^2 = 84\%$, $\tau^2 = 0.4248$, $p < 0.01$							
Common effect model				0.68	[0.53; 0.83]	100.0%	--
Random effects model				0.89	[0.16; 1.62]	--	100.0%

Heterogeneity: $I^2 = 95\%$, $\tau^2 = 1.4364$, $p < 0.01$
Test for subgroup differences (common effect): $\chi^2_4 = 128.46$, $df = 4$ ($p < 0.01$)
Test for subgroup differences (random effects): $\chi^2_4 = 6.51$, $df = 4$ ($p = 0.16$)

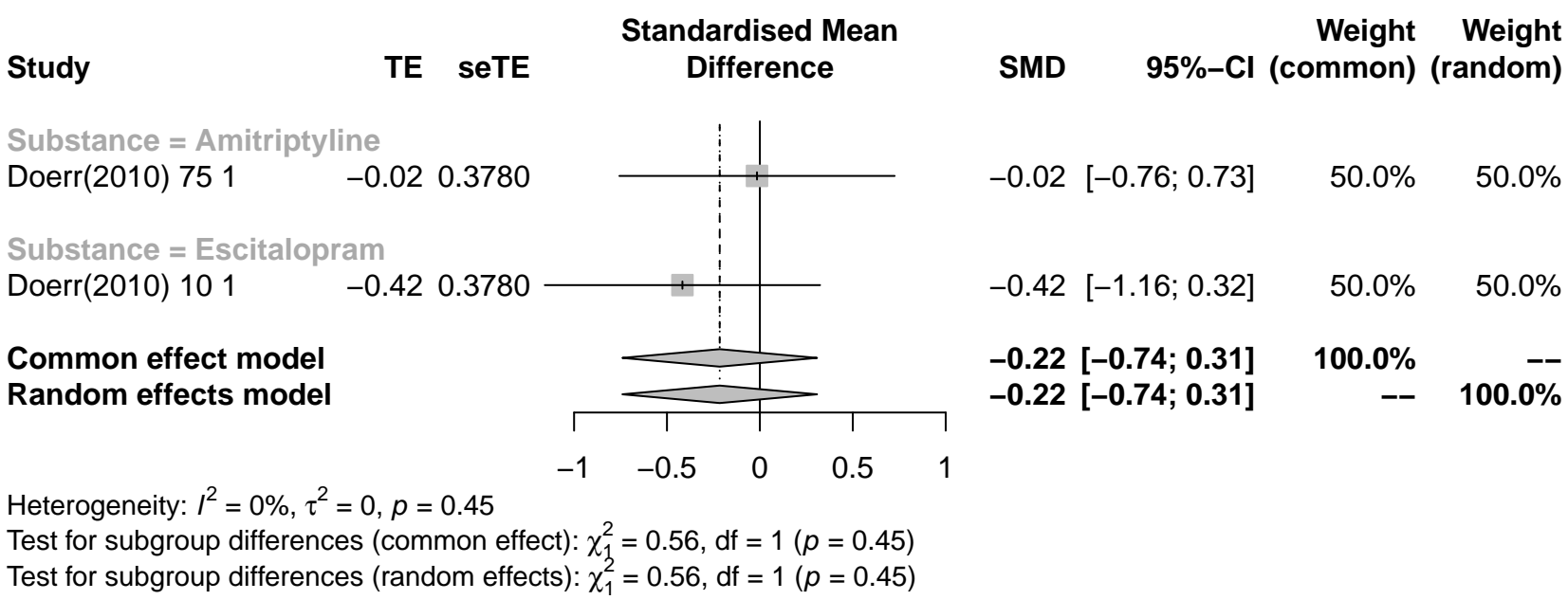
Healthy Population stage SWS % SPT

Study	TE	seTE	Standardised Mean Difference	SMD	95%-CI (common)	Weight (common)	Weight (random)
Substance = Amitriptyline							
Doerr(2010) 75 1	0.51	0.3780		0.51	[-0.23; 1.25]	3.6%	6.7%
Goerke(2014) 75 1	1.37	0.2887		1.37	[0.80; 1.94]	6.2%	7.8%
Common effect model				1.05	[0.60; 1.50]	9.8%	--
Random effects model				0.97	[0.13; 1.82]	--	14.4%
Heterogeneity: $I^2 = 69\%$, $\tau^2 = 0.2572$, $p = 0.07$							
Substance = Doxepin							
Drake(2017) 6 1	-0.05	0.1387		-0.05	[-0.32; 0.22]	26.8%	9.6%
Substance = Escitalopram							
Doerr(2010) 10 1	0.30	0.3780		0.30	[-0.44; 1.04]	3.6%	6.7%
Substance = Fluoxetine							
Saletu(1991) 40 1	0.08	0.2357		0.08	[-0.38; 0.54]	9.3%	8.5%
Vasar(1994) 20 6	0.09	0.4082		0.09	[-0.71; 0.89]	3.1%	6.3%
Common effect model				0.08	[-0.32; 0.48]	12.4%	--
Random effects model				0.08	[-0.32; 0.48]	--	14.8%
Heterogeneity: $I^2 = 0\%$, $\tau^2 = 0$, $p = 0.98$							
Substance = Imipramine							
Yamadera(1998) 40 2	-0.82	0.3536		-0.82	[-1.51; -0.13]	4.1%	7.0%
Substance = Paroxetine							
Saletu(1991) 20 1	0.34	0.2357		0.34	[-0.12; 0.81]	9.3%	8.5%
Saletu(1991) 30 1	0.32	0.2357		0.32	[-0.14; 0.78]	9.3%	8.5%
Saletu(1991) 40 1	0.21	0.2357		0.21	[-0.25; 0.67]	9.3%	8.5%
Barbanoj(2005) 20 1	0.49	0.3015		0.49	[-0.11; 1.08]	5.7%	7.6%
Barbanoj(2005) 20 15	-0.96	0.3015		-0.96	[-1.56; -0.37]	5.7%	7.6%
Common effect model				0.14	[-0.09; 0.36]	39.2%	--
Random effects model				0.09	[-0.40; 0.58]	--	40.7%
Heterogeneity: $I^2 = 75\%$, $\tau^2 = 0.2432$, $p < 0.01$							
Substance = Trazodone							
Yamadera(1998) 100 2	0.81	0.3536		0.81	[0.12; 1.50]	4.1%	7.0%
Common effect model				0.16	[0.02; 0.30]	100.0%	--
Random effects model				0.20	[-0.12; 0.53]	--	100.0%

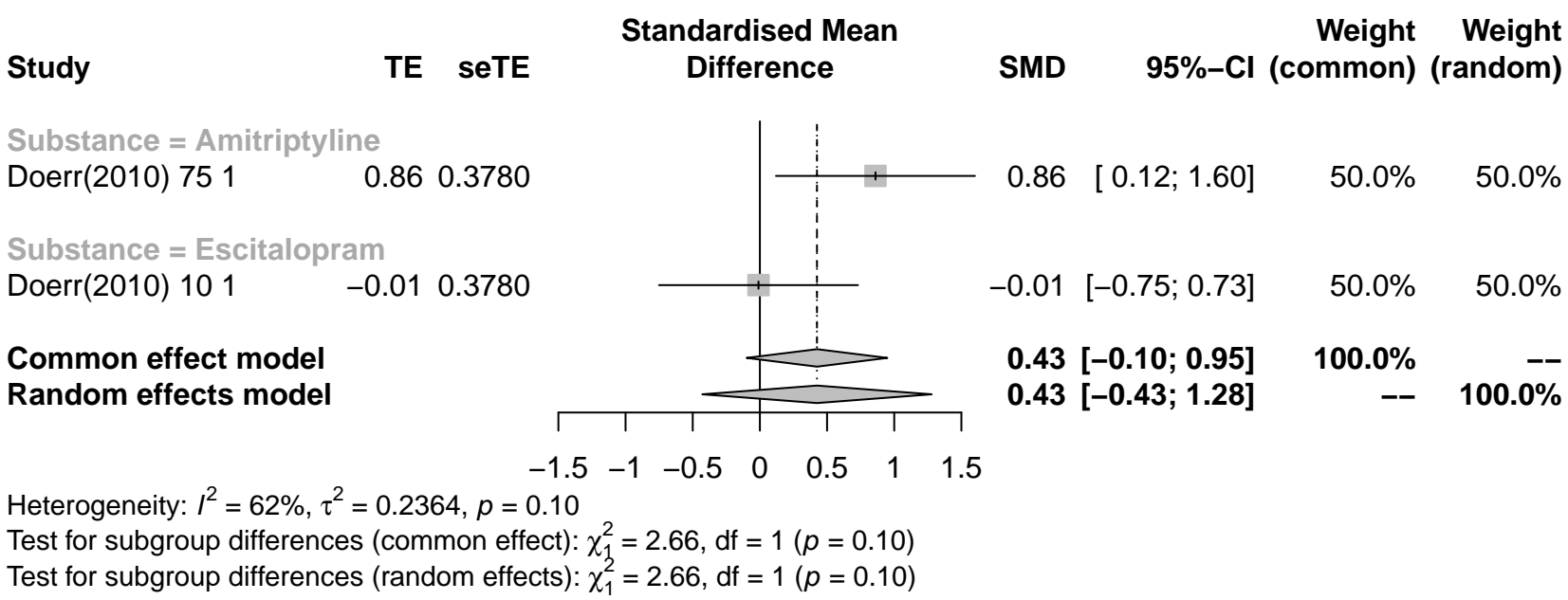
Healthy Population stage REM % SPT

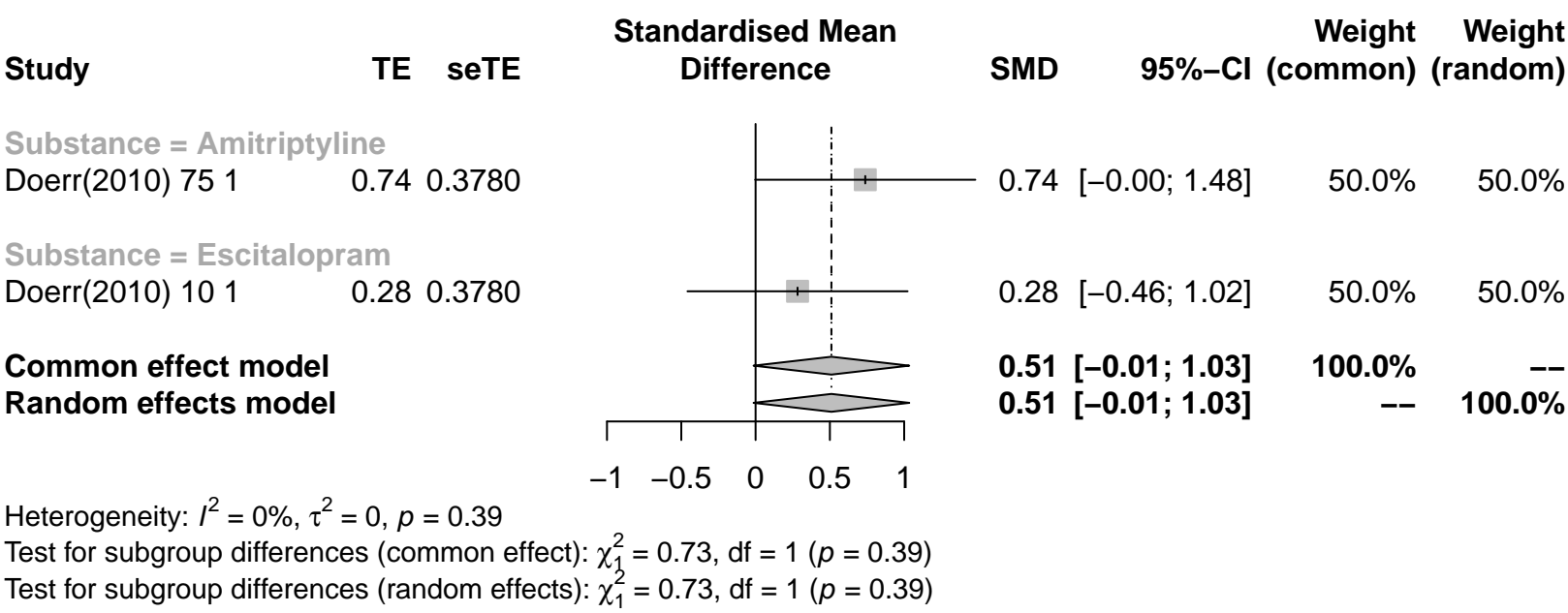


Healthy Population REM density %

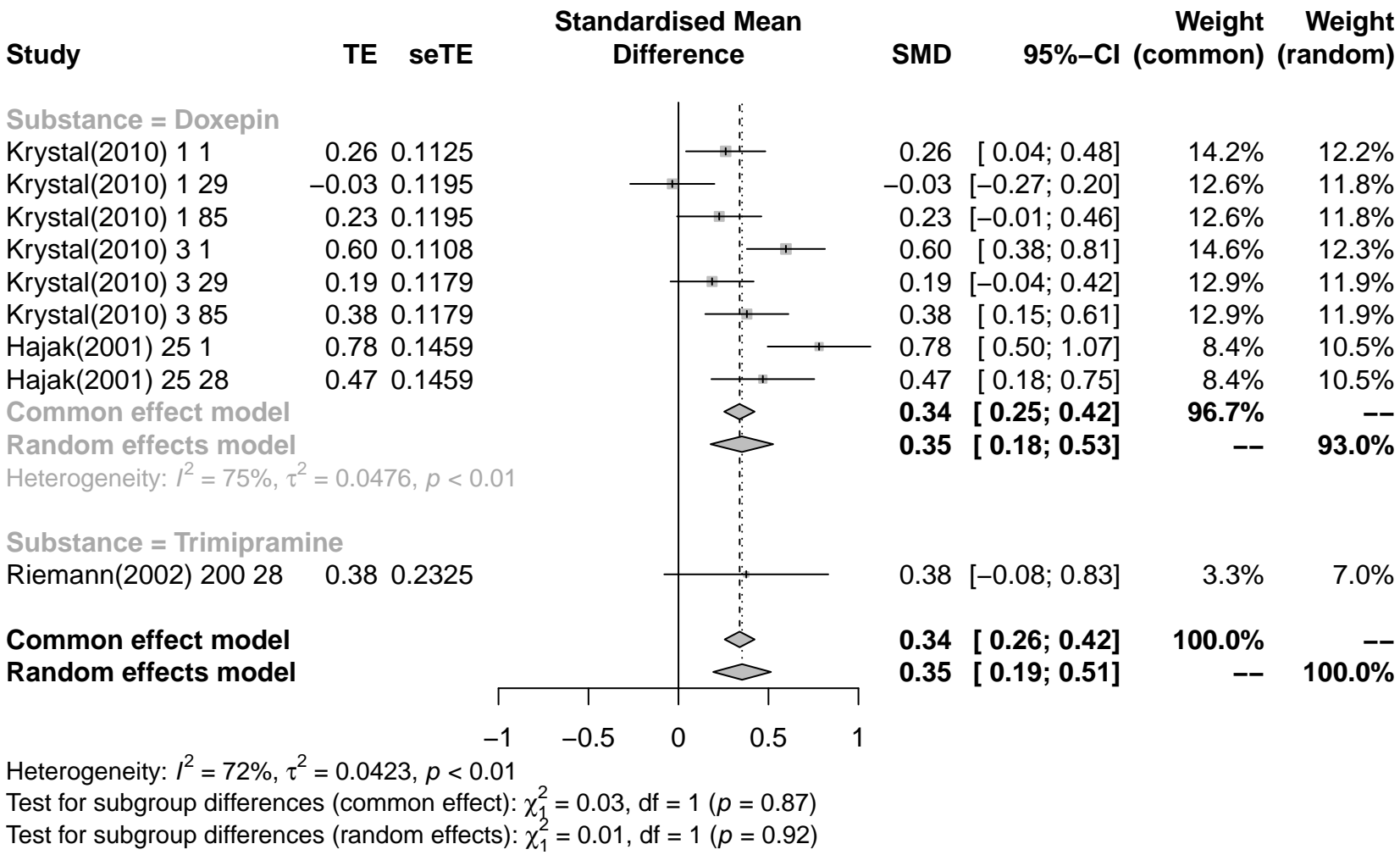


Healthy Population PLMS Index

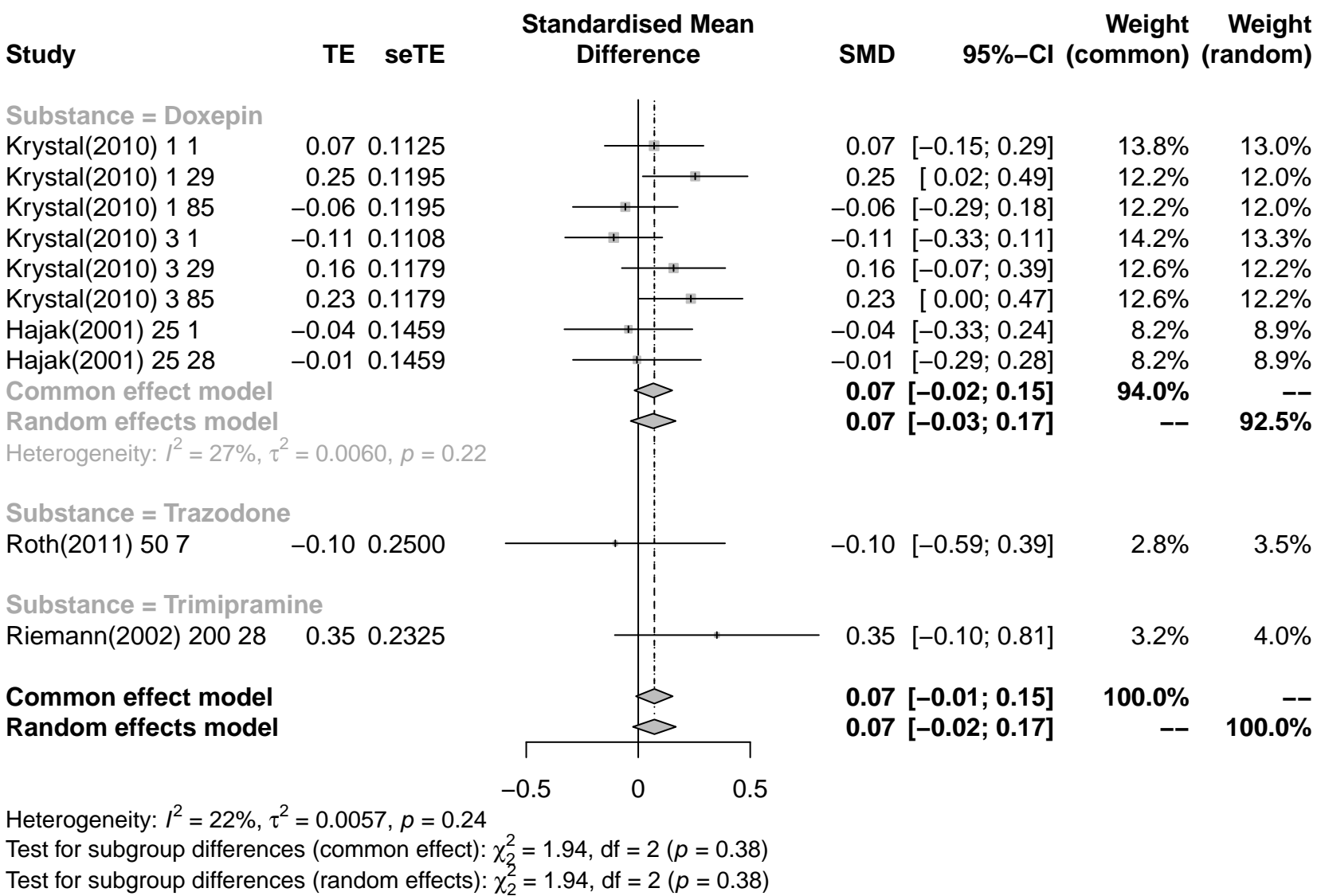




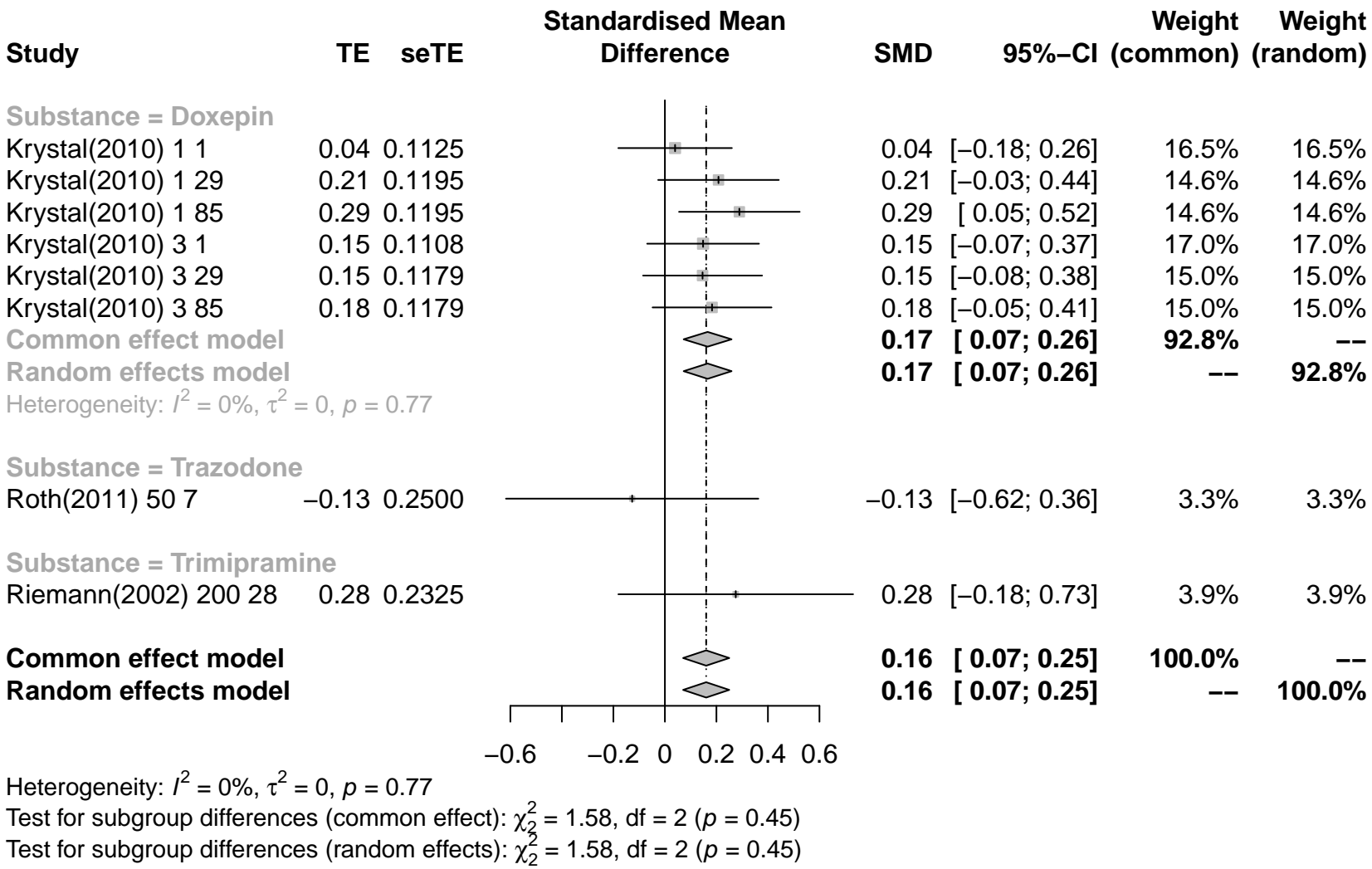
Insomnia Population TST vs Placebo



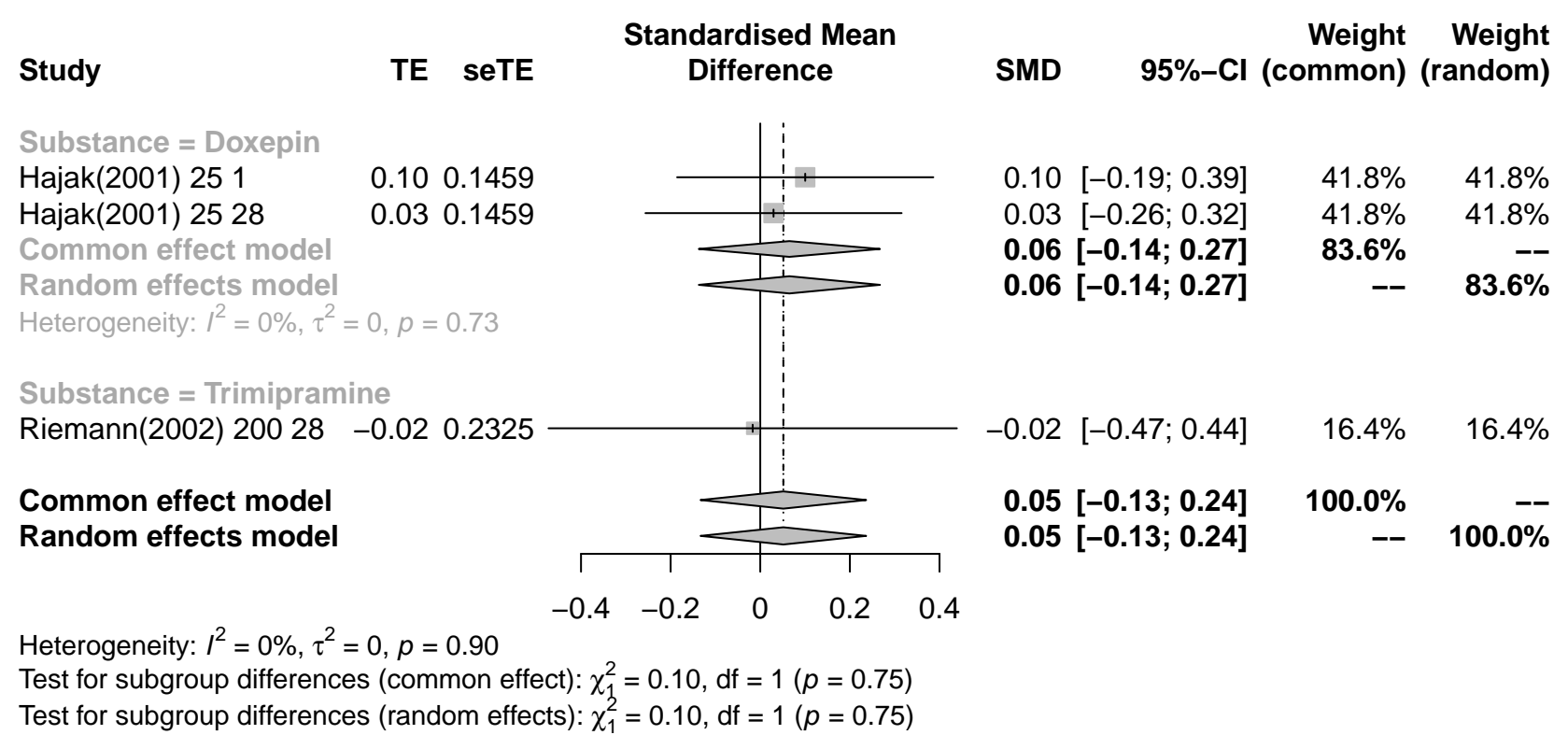
Insomnia Population Sleep Latency (min) vs Placebo



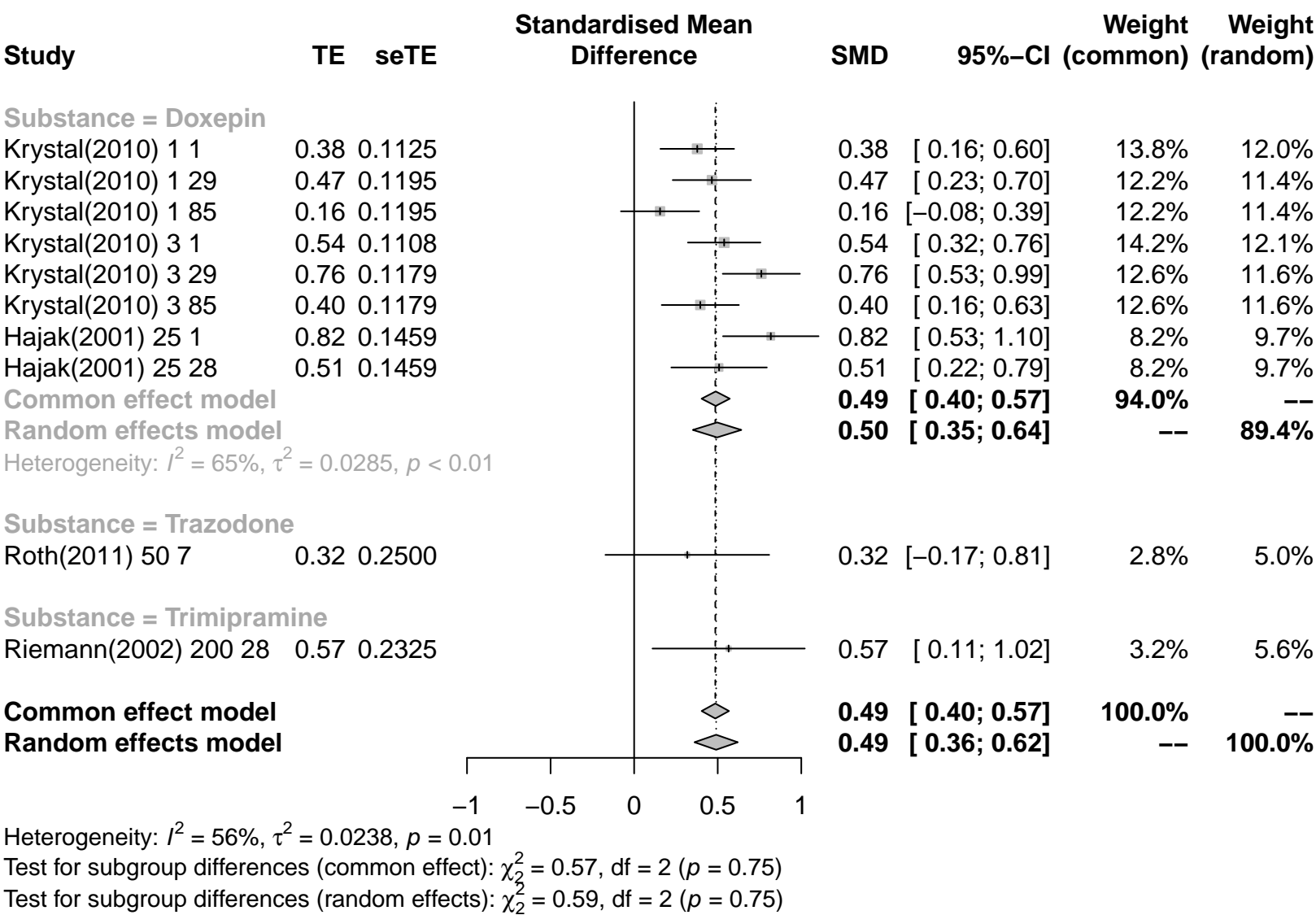
Insomnia Population no. wake periods vs Placebo



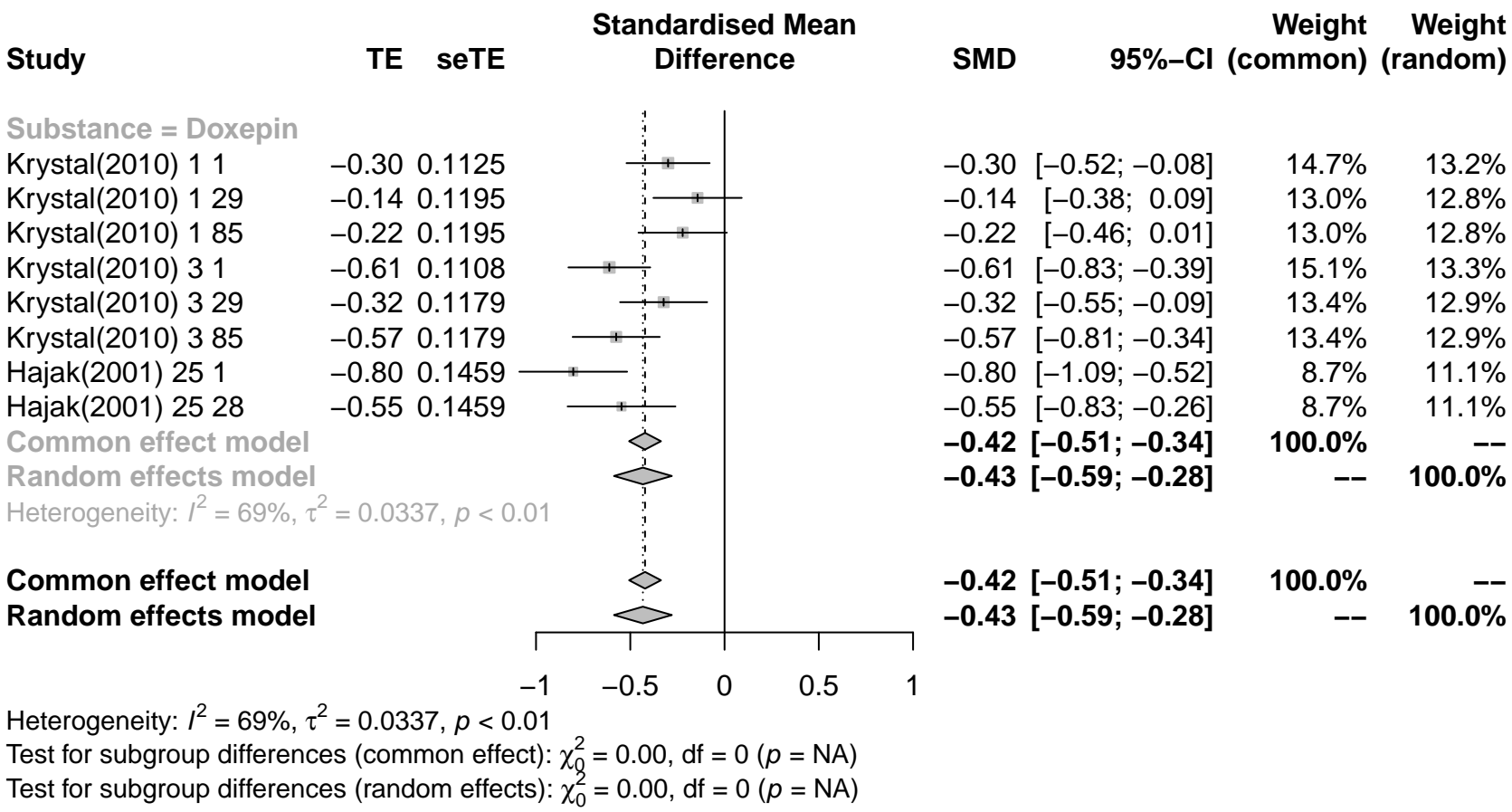
Insomnia Population REM latency min vs Placebo



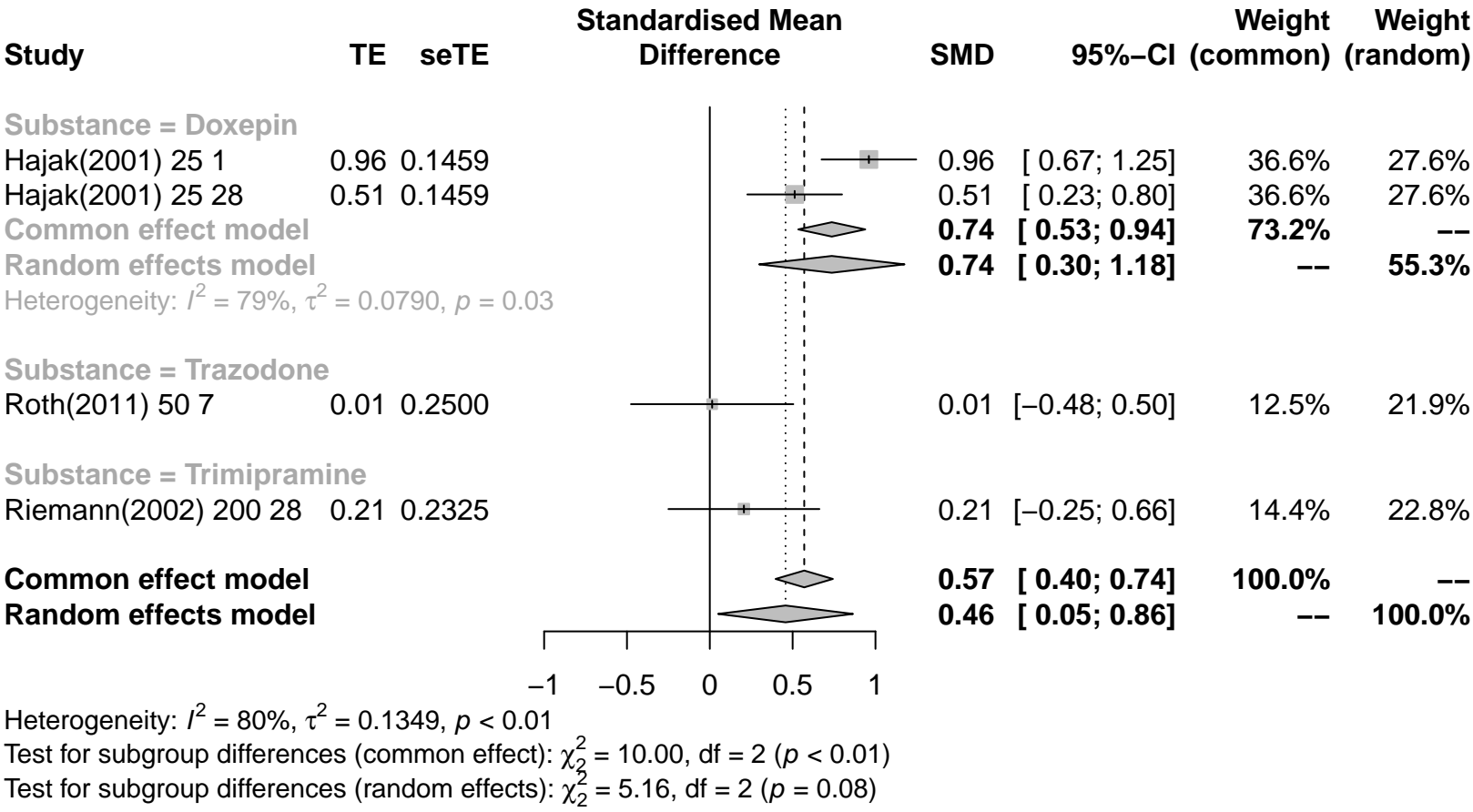
Insomnia Population SE % vs Placebo



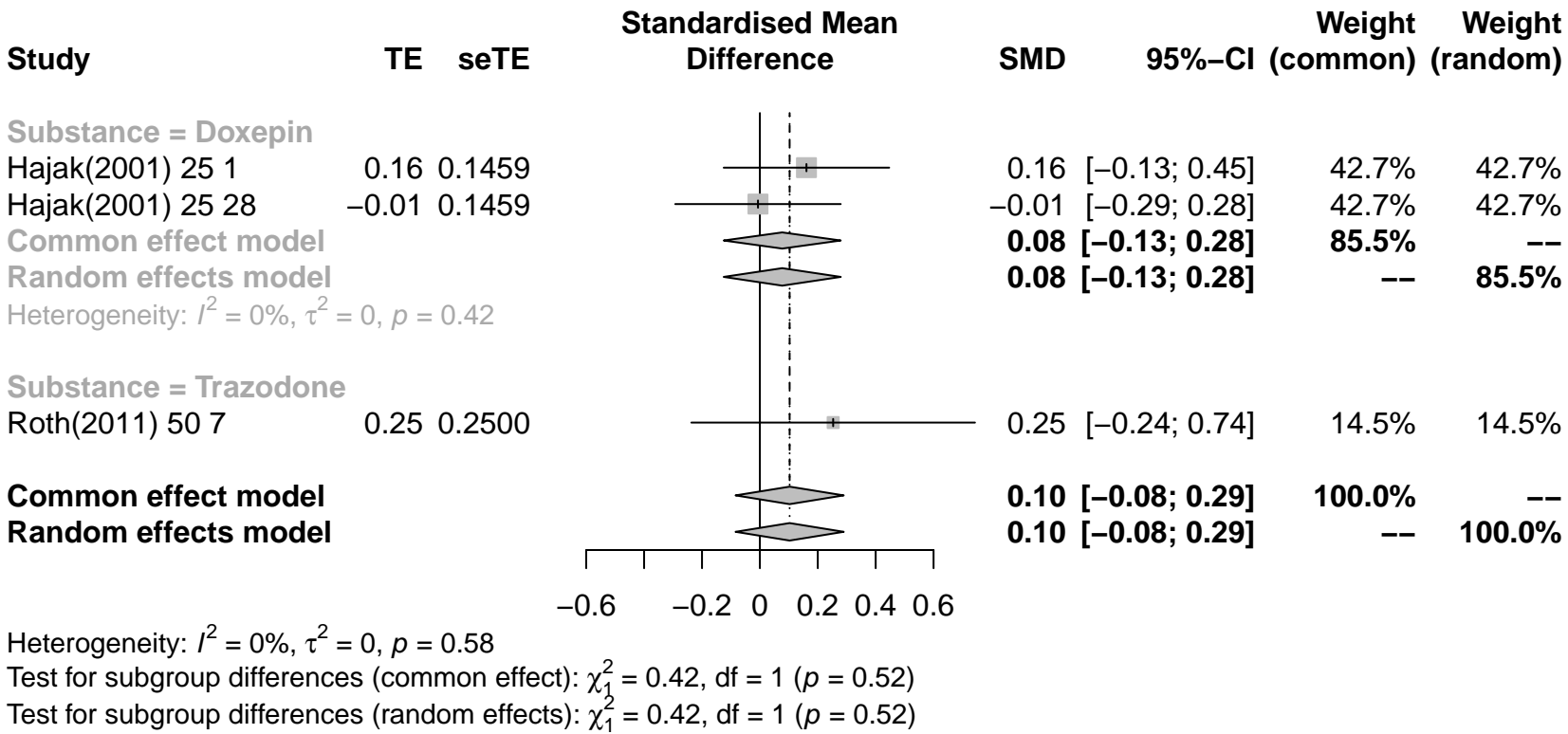
Insomnia Population WASO vs Placebo



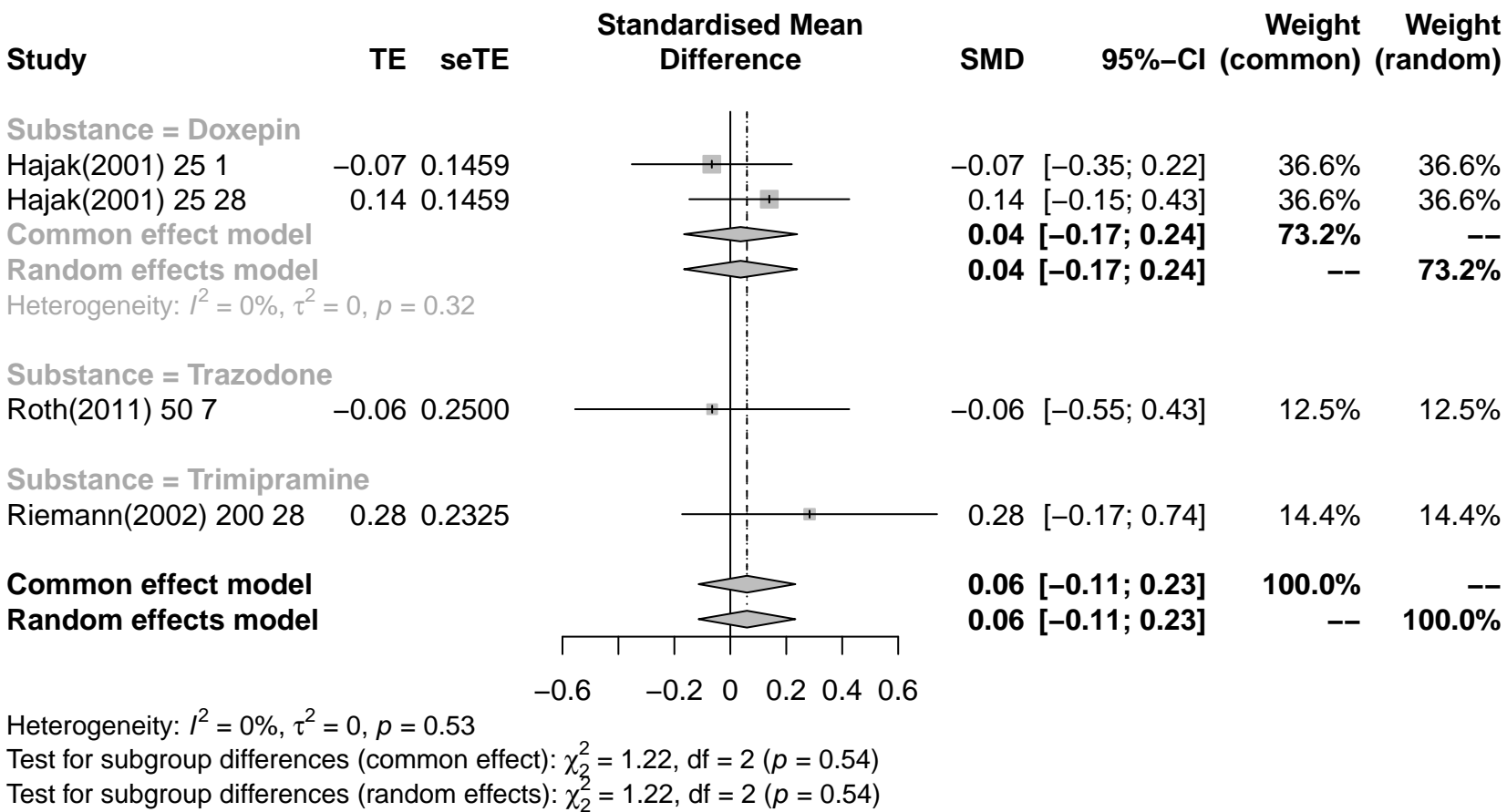
Insomnia Population stage 2 % SPT vs Placebo



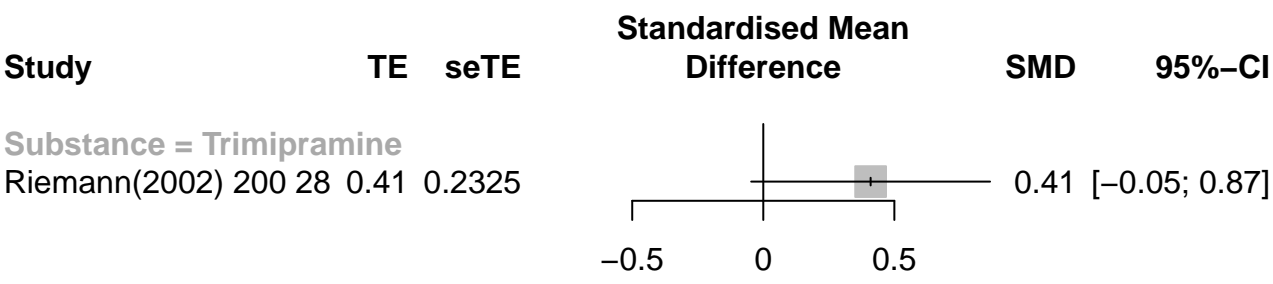
Insomnia Population stage SWS % SPT vs Placebo



Insomnia Population stage REM % SPT vs Placebo



Insomnia Population stage wake % SPT vs Placebo



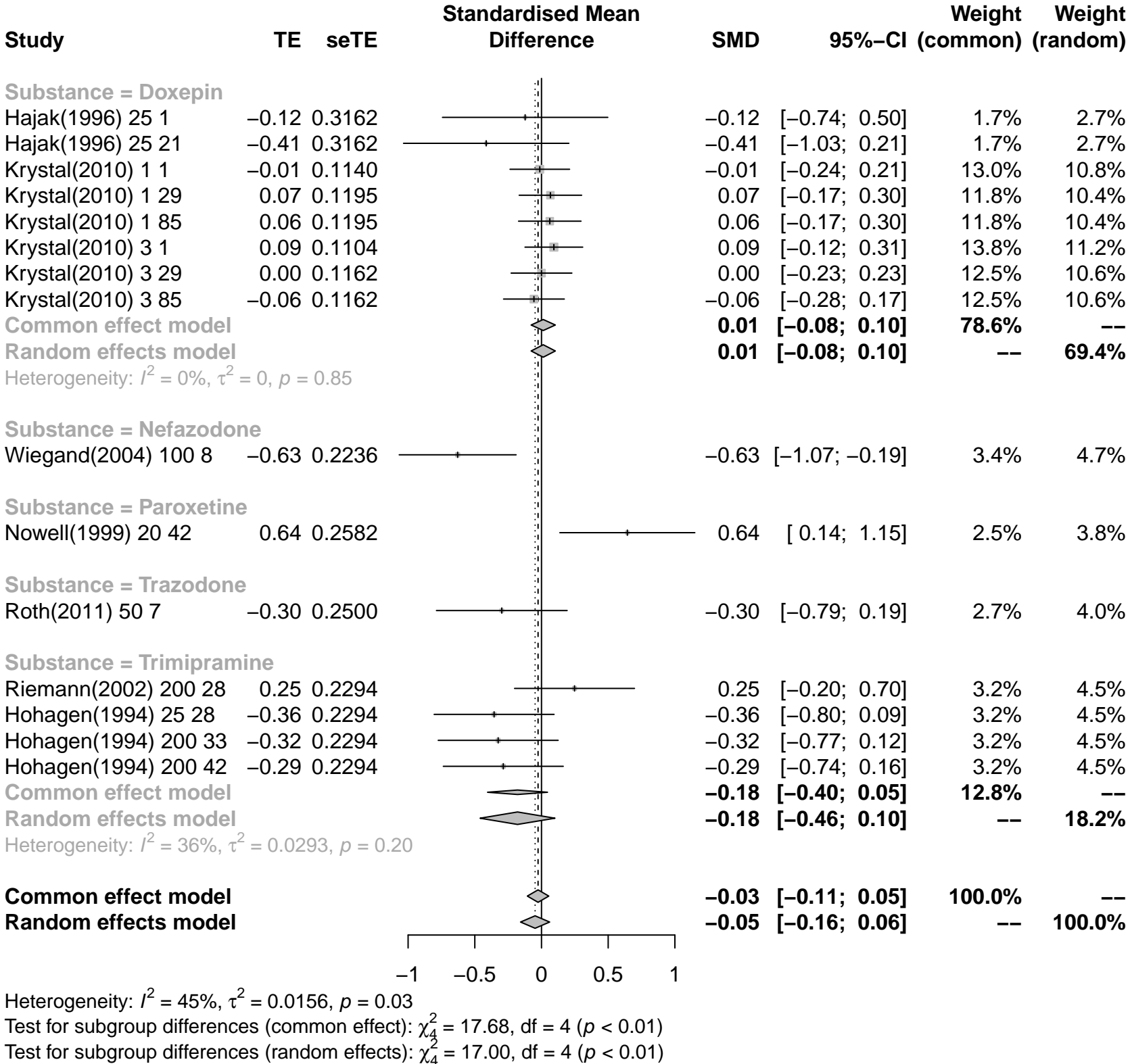
Insomnia Population TST

Study	TE	seTE	Standardised Mean Difference	SMD	95%-CI	Weight (common)	Weight (random)
Substance = Doxepin							
Hajak(1996) 25 1	1.49	0.3162		1.49	[0.87; 2.11]	0.8%	2.4%
Hajak(1996) 25 21	0.73	0.3162		0.73	[0.11; 1.35]	0.8%	2.4%
Krystal(2011) 3 1	0.56	0.1140		0.56	[0.34; 0.79]	5.8%	4.4%
Krystal(2011) 3 15	0.32	0.1213		0.32	[0.08; 0.56]	5.1%	4.3%
Krystal(2011) 3 29	0.39	0.1213		0.39	[0.15; 0.63]	5.1%	4.3%
Krystal(2011) 6 1	0.71	0.1147		0.71	[0.48; 0.93]	5.7%	4.4%
Krystal(2011) 6 15	0.47	0.1204		0.47	[0.23; 0.70]	5.2%	4.3%
Krystal(2011) 6 29	0.63	0.1204		0.63	[0.40; 0.87]	5.2%	4.3%
Krystal(2010) 1 1	0.55	0.1140		0.55	[0.33; 0.78]	5.8%	4.4%
Krystal(2010) 1 29	0.32	0.1195		0.32	[0.09; 0.56]	5.3%	4.3%
Krystal(2010) 1 85	0.62	0.1195		0.62	[0.38; 0.85]	5.3%	4.3%
Krystal(2010) 3 1	1.01	0.1104		1.01	[0.80; 1.23]	6.2%	4.4%
Krystal(2010) 3 29	0.58	0.1162		0.58	[0.36; 0.81]	5.6%	4.4%
Krystal(2010) 3 85	0.87	0.1162		0.87	[0.64; 1.10]	5.6%	4.4%
Hajak(2001) 25 1	0.63	0.1459		0.63	[0.35; 0.92]	3.6%	4.1%
Hajak(2001) 25 28	0.62	0.1459		0.62	[0.34; 0.91]	3.6%	4.1%
Common effect model				0.61	[0.55; 0.67]	74.7%	--
Random effects model				0.62	[0.51; 0.73]	--	65.2%
Heterogeneity: $I^2 = 66\%$, $\tau^2 = 0.0291$, $p < 0.01$							
Substance = Nefazodone							
Wiegand(2004) 100 8	-0.11	0.2236		-0.11	[-0.55; 0.33]	1.5%	3.3%
Substance = Paroxetine							
Nowell(1999) 20 42	0.18	0.2582		0.18	[-0.33; 0.69]	1.1%	2.9%
Substance = placebo							
Krystal(2011) 1	-0.09	0.1147		-0.09	[-0.31; 0.14]	5.7%	4.4%
Krystal(2011) 15	0.12	0.1213		0.12	[-0.12; 0.35]	5.1%	4.3%
Krystal(2011) 29	0.17	0.1213		0.17	[-0.07; 0.41]	5.1%	4.3%
Common effect model				0.06	[-0.07; 0.20]	16.0%	--
Random effects model				0.06	[-0.09; 0.22]	--	13.0%
Heterogeneity: $I^2 = 25\%$, $\tau^2 = 0.0050$, $p = 0.26$							
Substance = Trazodone							
Paterson(2009) 100 56	1.57	0.2887		1.57	[1.00; 2.14]	0.9%	2.7%
Substance = Trimipramine							
Riemann(2002) 200 28	0.50	0.2294		0.50	[0.05; 0.95]	1.4%	3.2%
Hohagen(1994) 25 28	0.94	0.2294		0.94	[0.49; 1.39]	1.4%	3.2%
Hohagen(1994) 200 33	0.09	0.2294		0.09	[-0.36; 0.54]	1.4%	3.2%
Hohagen(1994) 200 42	0.26	0.2294		0.26	[-0.19; 0.71]	1.4%	3.2%
Common effect model				0.45	[0.22; 0.67]	5.7%	--
Random effects model				0.45	[0.08; 0.81]	--	12.9%
Heterogeneity: $I^2 = 62\%$, $\tau^2 = 0.0844$, $p = 0.05$							
Common effect model				0.51	[0.45; 0.56]	100.0%	--
Random effects model				0.52	[0.39; 0.66]	--	100.0%

Insomnia Population Sleep Latency (min)

Study	TE	seTE	Standardized Mean Difference	SMD	95%–CI (common)	Weight (common)	Weight (random)
Substance = Doxepin							
Hajak(1996) 25 1	-0.92	0.3162		-0.92	[-1.54; -0.30]	0.8%	2.3%
Hajak(1996) 25 21	-0.61	0.3162		-0.61	[-1.23; 0.01]	0.8%	2.3%
Krystal(2011) 3 1	-0.25	0.1140		-0.25	[-0.47; -0.03]	5.9%	4.6%
Krystal(2011) 3 15	0.04	0.1213		0.04	[-0.19; 0.28]	5.2%	4.5%
Krystal(2011) 3 29	-0.19	0.1213		-0.19	[-0.43; 0.05]	5.2%	4.5%
Krystal(2011) 6 1	-0.28	0.1147		-0.28	[-0.51; -0.06]	5.8%	4.6%
Krystal(2011) 6 15	-0.15	0.1204		-0.15	[-0.39; 0.09]	5.3%	4.5%
Krystal(2011) 6 29	-0.36	0.1204		-0.36	[-0.60; -0.13]	5.3%	4.5%
Krystal(2010) 1 1	-0.17	0.1140		-0.17	[-0.39; 0.05]	5.9%	4.6%
Krystal(2010) 1 29	0.07	0.1195		0.07	[-0.17; 0.30]	5.3%	4.5%
Krystal(2010) 1 85	-0.45	0.1195		-0.45	[-0.68; -0.21]	5.3%	4.5%
Krystal(2010) 3 1	-0.43	0.1104		-0.43	[-0.65; -0.22]	6.3%	4.6%
Krystal(2010) 3 29	-0.05	0.1162		-0.05	[-0.28; 0.18]	5.6%	4.6%
Krystal(2010) 3 85	-0.11	0.1162		-0.11	[-0.34; 0.12]	5.6%	4.6%
Hajak(2001) 25 1	-0.02	0.1459		-0.02	[-0.31; 0.26]	3.6%	4.2%
Hajak(2001) 25 28	-0.26	0.1459		-0.26	[-0.54; 0.03]	3.6%	4.2%
Common effect model				-0.20	[-0.27; -0.14]	75.3%	--
Random effects model				-0.21	[-0.30; -0.12]	--	67.5%
Heterogeneity: $I^2 = 52\%$, $\tau^2 = 0.0153$, $p < 0.01$							
Substance = Nefazodone							
Wiegand(2004) 100 8	0.53	0.2236		0.53	[0.09; 0.97]	1.5%	3.2%
Substance = placebo							
Krystal(2011) 1	0.50	0.1147		0.50	[0.28; 0.73]	5.8%	4.6%
Krystal(2011) 15	0.38	0.1213		0.38	[0.14; 0.62]	5.2%	4.5%
Krystal(2011) 29	0.47	0.1213		0.47	[0.23; 0.71]	5.2%	4.5%
Common effect model				0.45	[0.32; 0.59]	16.2%	--
Random effects model				0.45	[0.32; 0.59]	--	13.6%
Heterogeneity: $I^2 = 0\%$, $\tau^2 = 0$, $p = 0.76$							
Substance = Trazodone							
Roth(2011) 50 7	-0.06	0.2500		-0.06	[-0.55; 0.43]	1.2%	2.9%
Substance = Trimipramine							
Riemann(2002) 200 28	0.24	0.2294		0.24	[-0.21; 0.69]	1.4%	3.2%
Hohagen(1994) 25 28	-0.14	0.2294		-0.14	[-0.59; 0.31]	1.4%	3.2%
Hohagen(1994) 200 33	-0.27	0.2294		-0.27	[-0.72; 0.18]	1.4%	3.2%
Hohagen(1994) 200 42	-0.33	0.2294		-0.33	[-0.78; 0.12]	1.4%	3.2%
Common effect model				-0.12	[-0.35; 0.10]	5.8%	--
Random effects model				-0.12	[-0.38; 0.13]	--	12.7%
Heterogeneity: $I^2 = 20\%$, $\tau^2 = 0.0131$, $p = 0.29$							
Common effect model				-0.08	[-0.13; -0.03]	100.0%	--
Random effects model				-0.09	[-0.22; 0.03]	--	100.0%

Insomnia Population no. wake periods



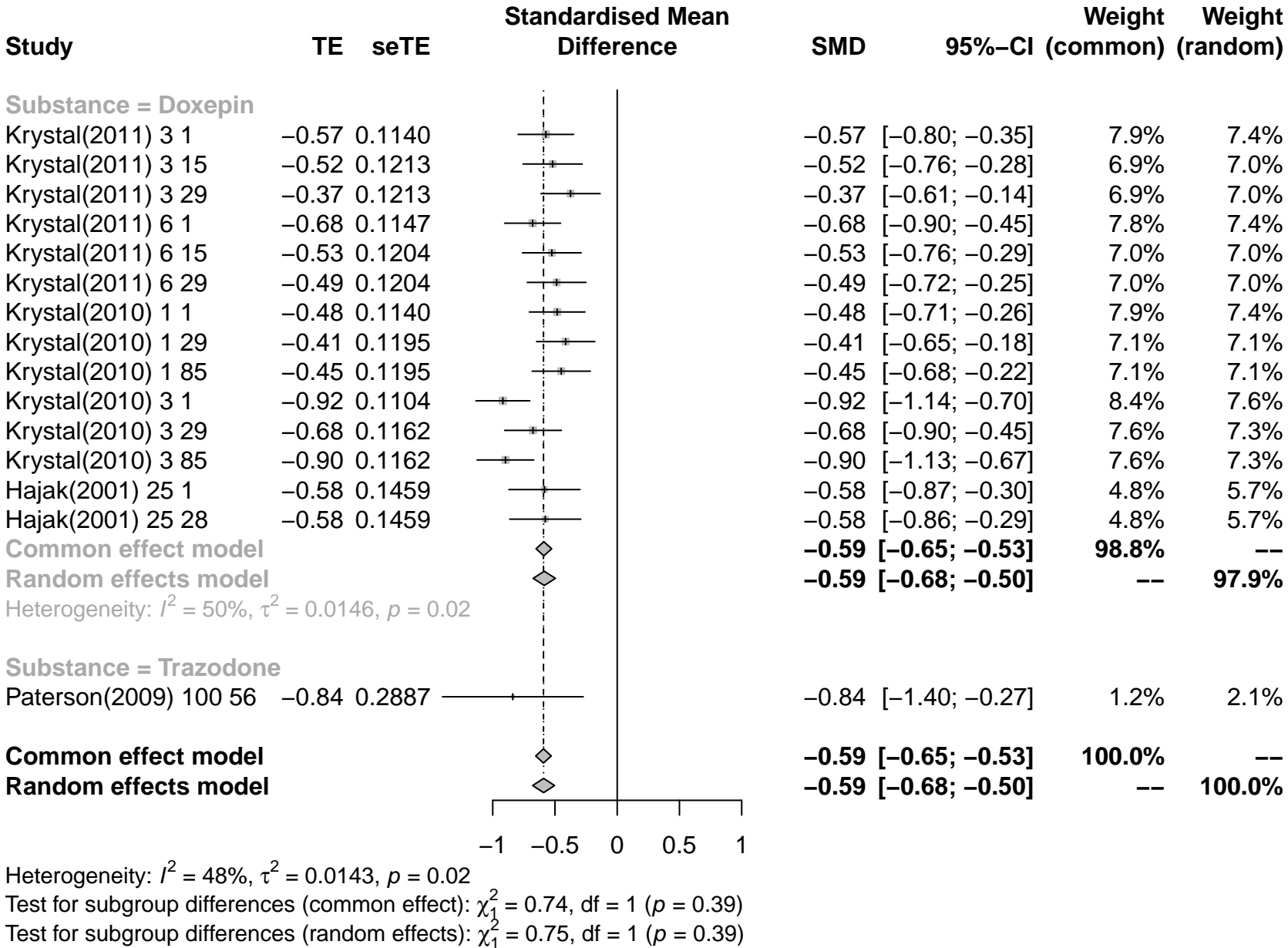
Insomnia Population REM latency min

Study	TE	seTE	Standardised Mean Difference	SMD	95%–CI (common)	Weight (random)	Weight (common)
Substance = Doxepin							
Hajak(1996) 25 1	0.73	0.3162		0.73	[0.11; 1.35]	4.4%	8.5%
Hajak(1996) 25 21	-0.53	0.3162		-0.53	[-1.15; 0.09]	4.4%	8.5%
Hajak(2001) 25 1	0.04	0.1459		0.04	[-0.25; 0.33]	20.9%	11.5%
Hajak(2001) 25 28	-0.12	0.1459		-0.12	[-0.41; 0.16]	20.9%	11.5%
Common effect model				-0.02	[-0.20; 0.17]	50.7%	--
Random effects model				0.01	[-0.40; 0.43]	--	40.0%
Heterogeneity: $I^2 = 66\%$, $\tau^2 = 0.1279$, $p = 0.03$							
Substance = Nefazodone							
Wiegand(2004) 100 8	-0.21	0.2236		-0.21	[-0.65; 0.23]	8.9%	10.2%
Substance = Paroxetine							
Nowell(1999) 20 42	1.24	0.2582		1.24	[0.73; 1.74]	6.7%	9.5%
Substance = Trimipramine							
Riemann(2002) 200 28	0.04	0.2294		0.04	[-0.41; 0.49]	8.4%	10.1%
Hohagen(1994) 25 28	-0.19	0.2294		-0.19	[-0.64; 0.26]	8.4%	10.1%
Hohagen(1994) 200 33	-0.35	0.2294		-0.35	[-0.80; 0.10]	8.4%	10.1%
Hohagen(1994) 200 42	-0.27	0.2294		-0.27	[-0.72; 0.18]	8.4%	10.1%
Common effect model				-0.19	[-0.42; 0.03]	33.8%	--
Random effects model				-0.19	[-0.42; 0.03]	--	40.3%
Heterogeneity: $I^2 = 0\%$, $\tau^2 = 0$, $p = 0.67$							
Common effect model				-0.01	[-0.14; 0.12]	100.0%	--
Random effects model				0.03	[-0.29; 0.34]	--	100.0%

Insomnia Population SE %

Study	TE	seTE	Standardised Mean Difference	SMD	95%-CI	Weight (common)	Weight (random)
Substance = Doxepin							
Hajak(1996) 25 1	1.13	0.3162		1.13	[0.51; 1.75]	1.1%	4.5%
Hajak(1996) 25 21	0.76	0.3162		0.76	[0.14; 1.38]	1.1%	4.5%
Krystal(2010) 1 1	0.30	0.1140		0.30	[0.08; 0.52]	8.7%	5.6%
Krystal(2010) 1 29	0.13	0.1195		0.13	[-0.10; 0.36]	7.9%	5.6%
Krystal(2010) 1 85	0.17	0.1195		0.17	[-0.07; 0.40]	7.9%	5.6%
Krystal(2010) 3 1	0.51	0.1104		0.51	[0.30; 0.73]	9.3%	5.6%
Krystal(2010) 3 29	0.44	0.1162		0.44	[0.22; 0.67]	8.4%	5.6%
Krystal(2010) 3 85	0.47	0.1162		0.47	[0.25; 0.70]	8.4%	5.6%
Hajak(2001) 25 1	0.66	0.1459		0.66	[0.37; 0.95]	5.3%	5.5%
Hajak(2001) 25 28	0.66	0.1459		0.66	[0.38; 0.95]	5.3%	5.5%
Common effect model				0.42	[0.34; 0.50]	63.4%	--
Random effects model				0.45	[0.31; 0.60]	--	53.3%
Heterogeneity: $I^2 = 63\%$, $\tau^2 = 0.0315$, $p < 0.01$							
Substance = Nefazodone							
Wiegand(2004) 100 8	-0.02	0.2236		-0.02	[-0.46; 0.41]	2.3%	5.1%
Substance = placebo							
Krystal(2011) 1	-0.59	0.1147		-0.59	[-0.82; -0.37]	8.6%	5.6%
Krystal(2011) 15	-1.06	0.1213		-1.06	[-1.30; -0.83]	7.7%	5.6%
Krystal(2011) 29	-1.21	0.1213		-1.21	[-1.45; -0.97]	7.7%	5.6%
Common effect model				-0.94	[-1.08; -0.81]	24.0%	--
Random effects model				-0.95	[-1.32; -0.59]	--	16.7%
Heterogeneity: $I^2 = 87\%$, $\tau^2 = 0.0913$, $p < 0.01$							
Substance = Trazodone							
Roth(2011) 50 7	0.01	0.2500		0.01	[-0.48; 0.50]	1.8%	4.9%
Substance = Trimipramine							
Riemann(2002) 200 28	0.44	0.2294		0.44	[-0.01; 0.89]	2.1%	5.0%
Hohagen(1994) 25 28	0.70	0.2294		0.70	[0.25; 1.15]	2.1%	5.0%
Hohagen(1994) 200 33	0.48	0.2294		0.48	[0.03; 0.93]	2.1%	5.0%
Hohagen(1994) 200 42	0.45	0.2294		0.45	[-0.00; 0.90]	2.1%	5.0%
Common effect model				0.52	[0.29; 0.74]	8.6%	--
Random effects model				0.52	[0.29; 0.74]	--	20.1%
Heterogeneity: $I^2 = 0\%$, $\tau^2 = 0$, $p = 0.83$							
Common effect model				0.08	[0.02; 0.15]	100.0%	--
Random effects model				0.21	[-0.06; 0.49]	--	100.0%

Insomnia Population WASO



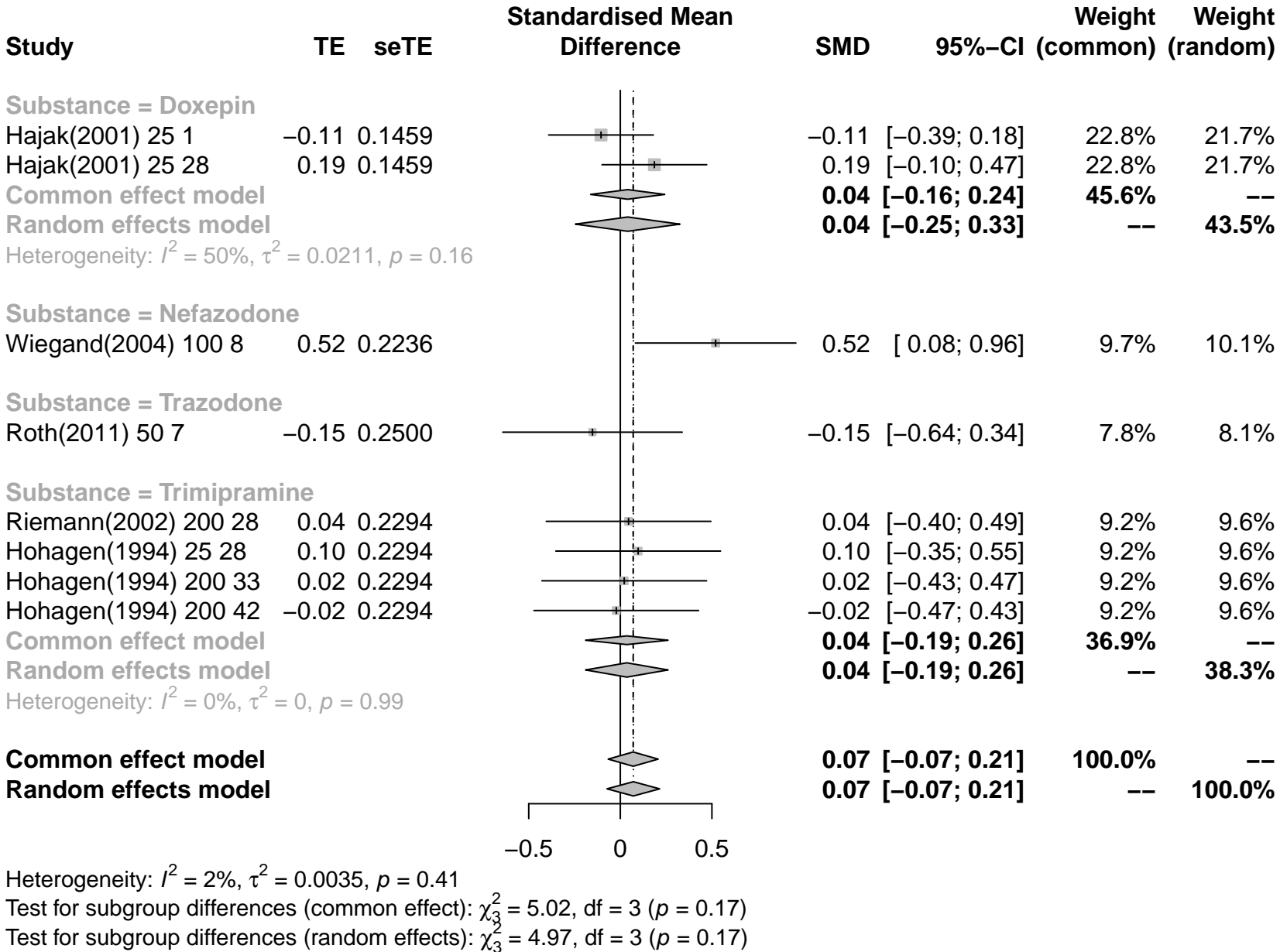
Insomnia Population stage 2 % SPT

Study	TE	seTE	Standardised Mean Difference	SMD	95%-CI (common)	Weight (common)	Weight (random)
Substance = Doxepin							
Hajak(2001) 25 1	0.76	0.1459		0.76	[0.48; 1.05]	21.3%	19.1%
Hajak(2001) 25 28	0.48	0.1459		0.48	[0.19; 0.77]	21.3%	19.1%
Common effect model				0.62	[0.42; 0.82]	42.5%	--
Random effects model				0.62	[0.34; 0.90]	--	38.1%
Heterogeneity: $I^2 = 47\%$, $\tau^2 = 0.0190$, $p = 0.17$							
Substance = Nefazodone							
Wiegand(2004) 100 8	0.60	0.2236		0.60	[0.16; 1.04]	9.0%	9.6%
Substance = Paroxetine							
Nowell(1999) 20 42	0.74	0.2582		0.74	[0.23; 1.25]	6.8%	7.5%
Substance = Trazodone							
Roth(2011) 50 7	0.05	0.2500		0.05	[-0.44; 0.54]	7.2%	7.9%
Substance = Trimipramine							
Riemann(2002) 200 28	0.24	0.2294		0.24	[-0.21; 0.68]	8.6%	9.2%
Hohagen(1994) 25 28	0.76	0.2294		0.76	[0.31; 1.21]	8.6%	9.2%
Hohagen(1994) 200 33	0.57	0.2294		0.57	[0.12; 1.02]	8.6%	9.2%
Hohagen(1994) 200 42	0.52	0.2294		0.52	[0.08; 0.97]	8.6%	9.2%
Common effect model				0.52	[0.30; 0.75]	34.4%	--
Random effects model				0.52	[0.30; 0.75]	--	36.9%
Heterogeneity: $I^2 = 0\%$, $\tau^2 = 0$, $p = 0.44$							
Common effect model				0.55	[0.42; 0.68]	100.0%	--
Random effects model				0.55	[0.40; 0.69]	--	100.0%

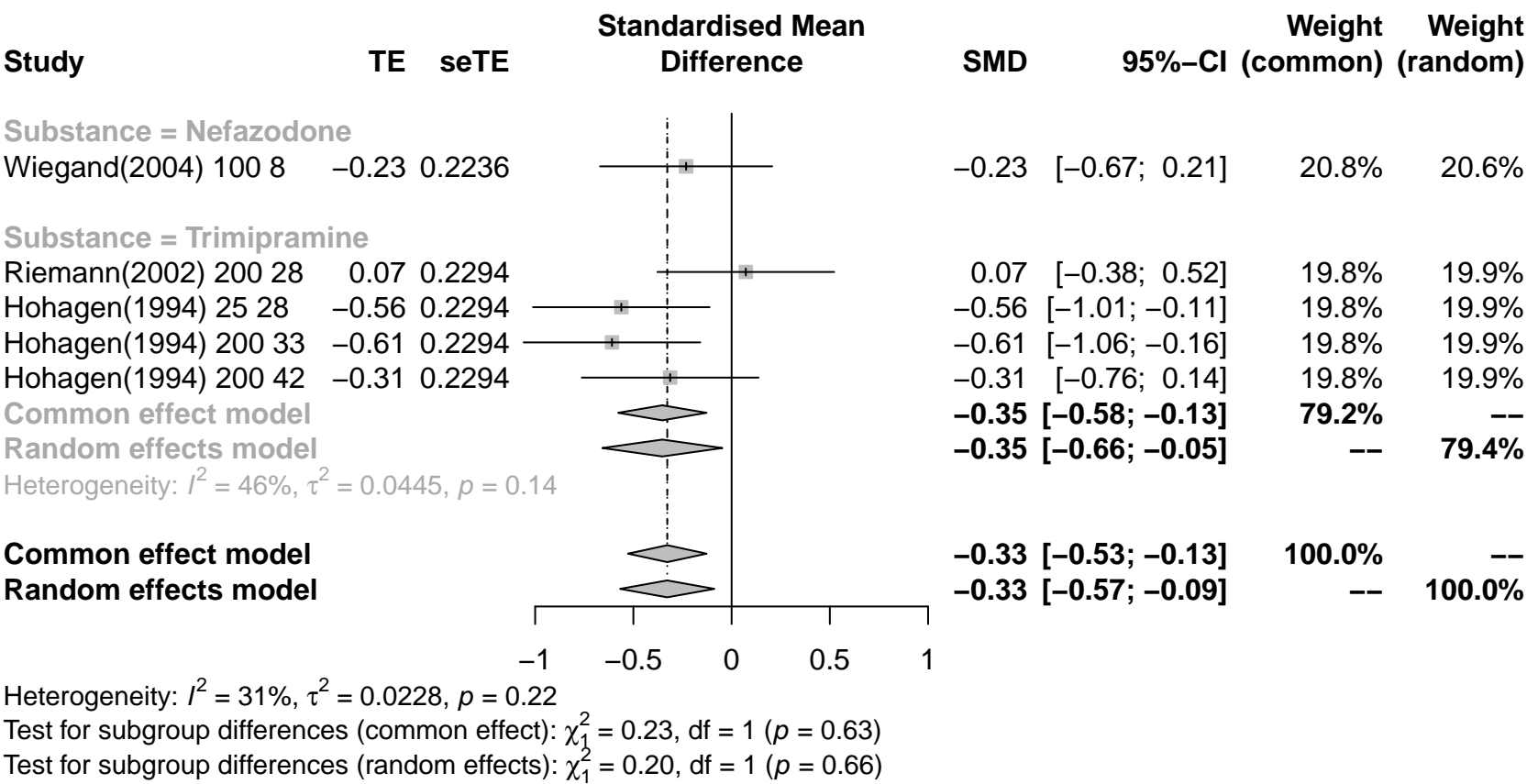
Insomnia Population stage SWS % SPT

Study	TE	seTE	Standardised Mean Difference	SMD	95%-CI	Weight (common)	Weight (random)
Substance = Doxepin							
Hajak(2001) 25 1	0.14	0.1459		0.14	[-0.15; 0.43]	22.0%	12.6%
Hajak(2001) 25 28	-0.02	0.1459		-0.02	[-0.30; 0.27]	22.0%	12.6%
Common effect model				0.06	[-0.14; 0.26]	43.9%	--
Random effects model				0.06	[-0.14; 0.26]	--	25.2%
Heterogeneity: $I^2 = 0\%$, $\tau^2 = 0$, $p = 0.45$							
Substance = Nefazodone							
Wiegand(2004) 100 8	-0.46	0.2236		-0.46	[-0.90; -0.03]	9.3%	11.1%
Substance = Paroxetine							
Nowell(1999) 20 42	-0.24	0.2582		-0.24	[-0.75; 0.26]	7.0%	10.4%
Substance = Trazodone							
Paterson(2009) 100 56	1.48	0.2887		1.48	[0.91; 2.04]	5.6%	9.8%
Roth(2011) 50 7	0.26	0.2500		0.26	[-0.23; 0.75]	7.5%	10.6%
Common effect model				0.78	[0.41; 1.15]	13.1%	--
Random effects model				0.86	[-0.34; 2.05]	--	20.3%
Heterogeneity: $I^2 = 90\%$, $\tau^2 = 0.6719$, $p < 0.01$							
Substance = Trimipramine							
Hohagen(1994) 25 28	0.16	0.2294		0.16	[-0.29; 0.61]	8.9%	11.0%
Hohagen(1994) 200 33	0.19	0.2294		0.19	[-0.26; 0.64]	8.9%	11.0%
Hohagen(1994) 200 42	0.17	0.2294		0.17	[-0.28; 0.62]	8.9%	11.0%
Common effect model				0.17	[-0.09; 0.43]	26.6%	--
Random effects model				0.17	[-0.09; 0.43]	--	33.0%
Heterogeneity: $I^2 = 0\%$, $\tau^2 = 0$, $p = 1.00$							
Common effect model				0.12	[-0.02; 0.25]	100.0%	--
Random effects model				0.17	[-0.15; 0.49]	--	100.0%

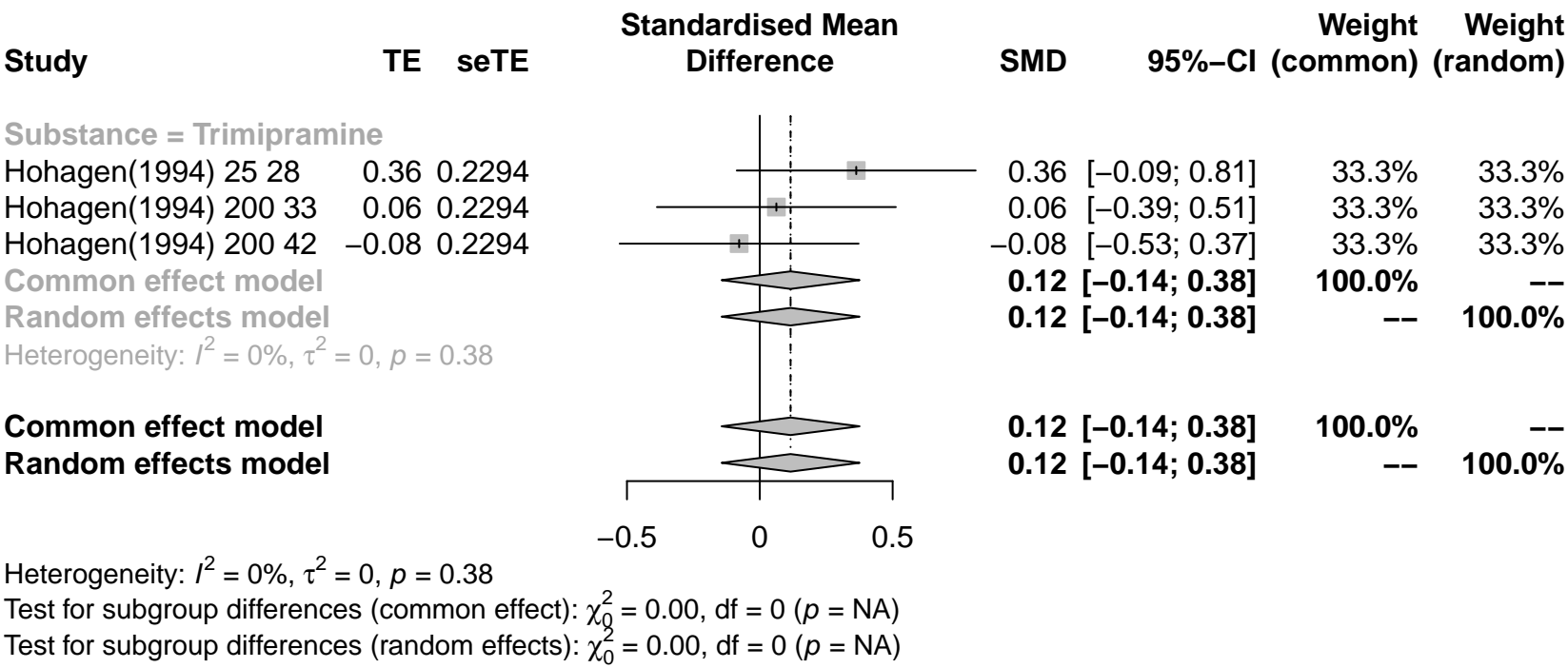
Insomnia Population stage REM % SPT



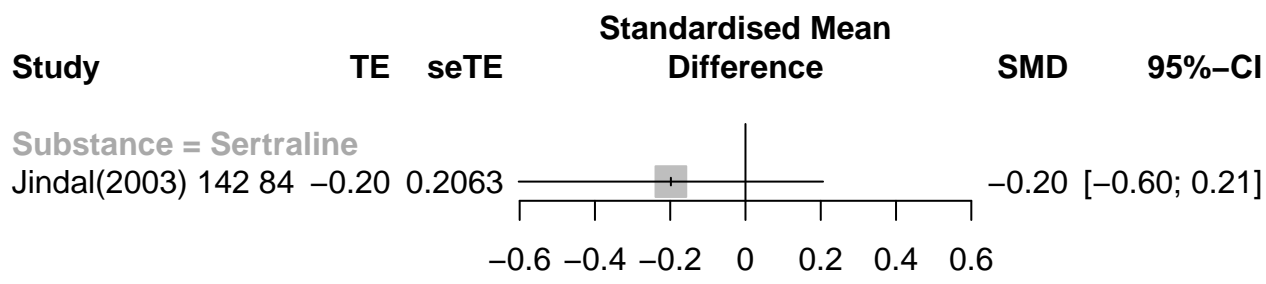
Insomnia Population stage wake % SPT



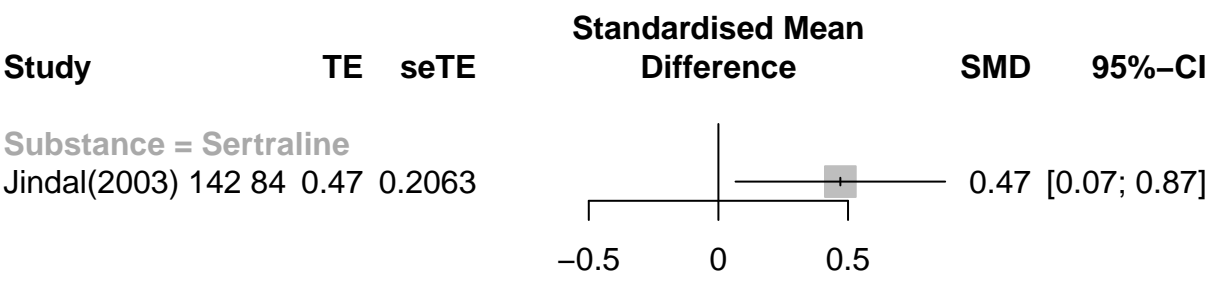
Insomnia Population REM density %



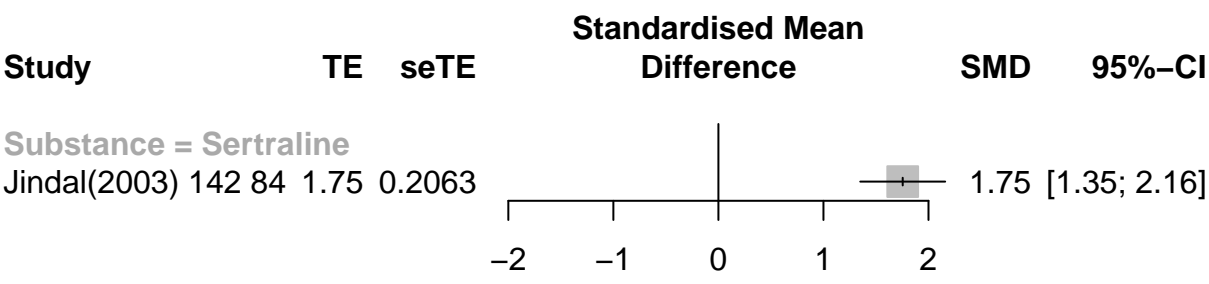
Depressed Population TST vs Placebo



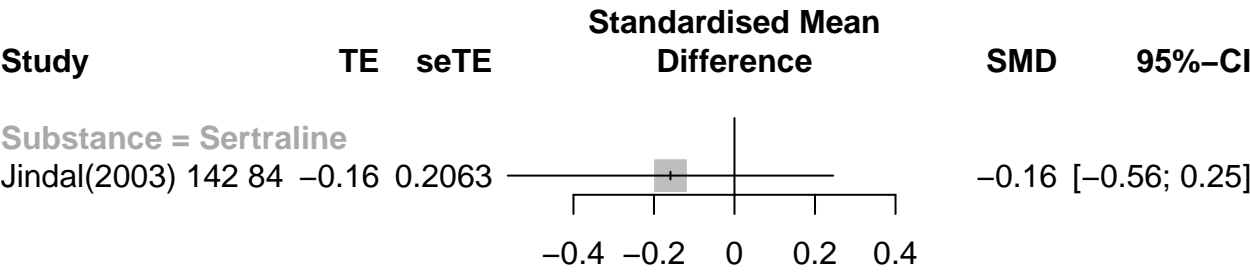
Depressed Population Sleep Latency (min) vs Placebo



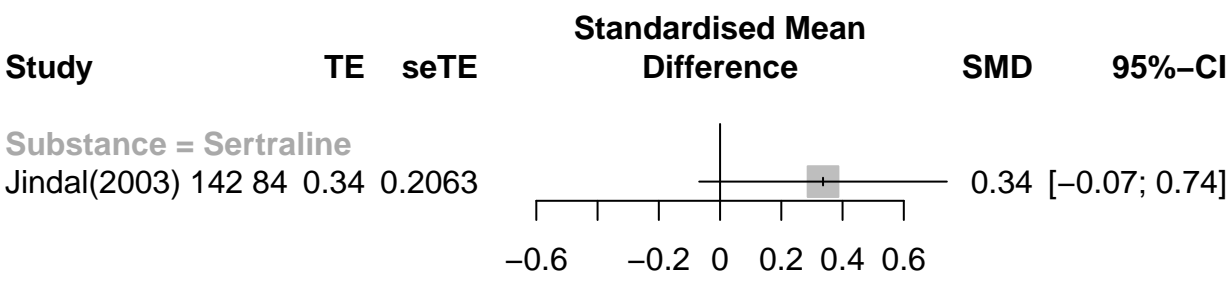
Depressed Population REM latency min vs Placebo



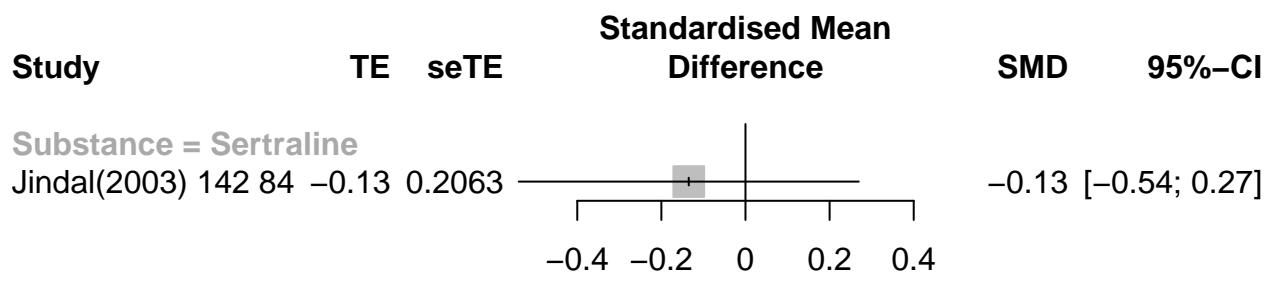
Depressed Population SE % vs Placebo



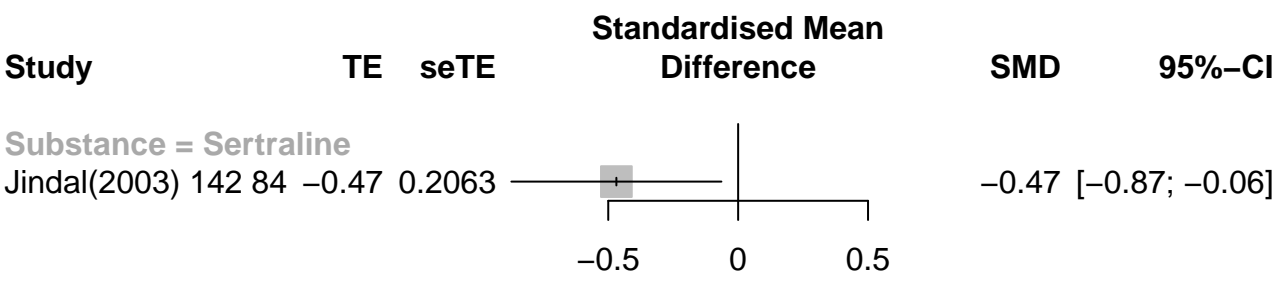
Depressed Population stage 2 % SPT vs Placebo



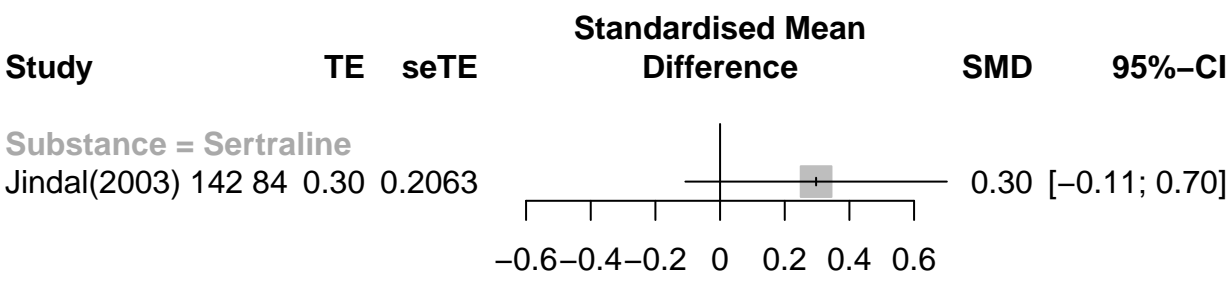
Depressed Population stage SWS % SPT vs Placebo



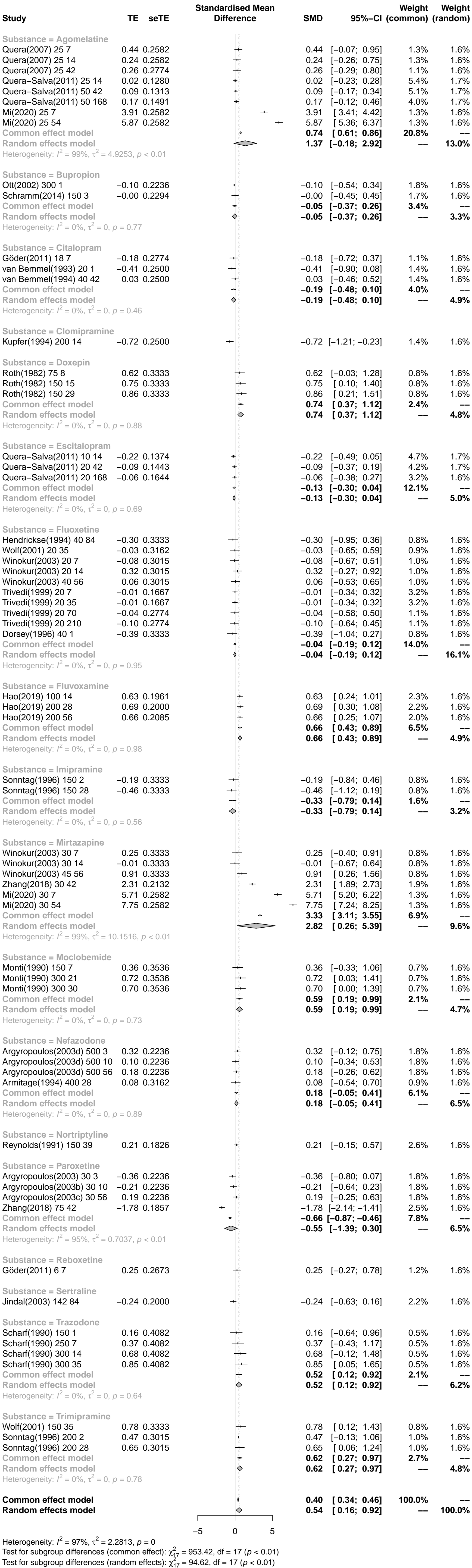
Depressed Population stage REM % SPT vs Placebo



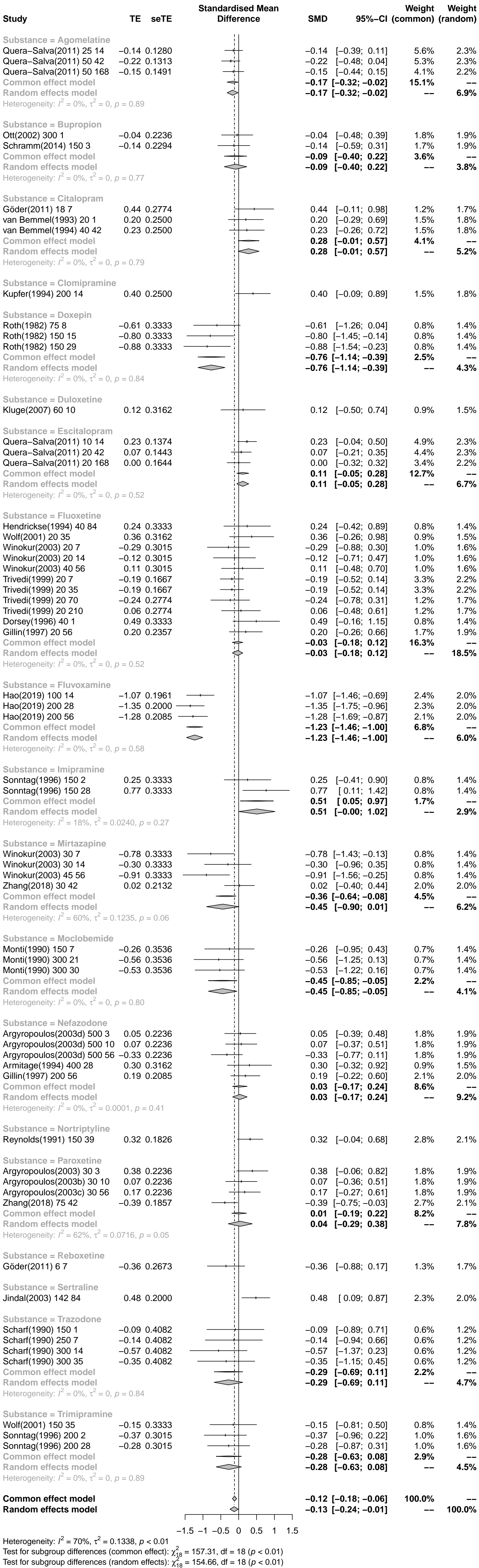
Depressed Population REM density % vs Placebo



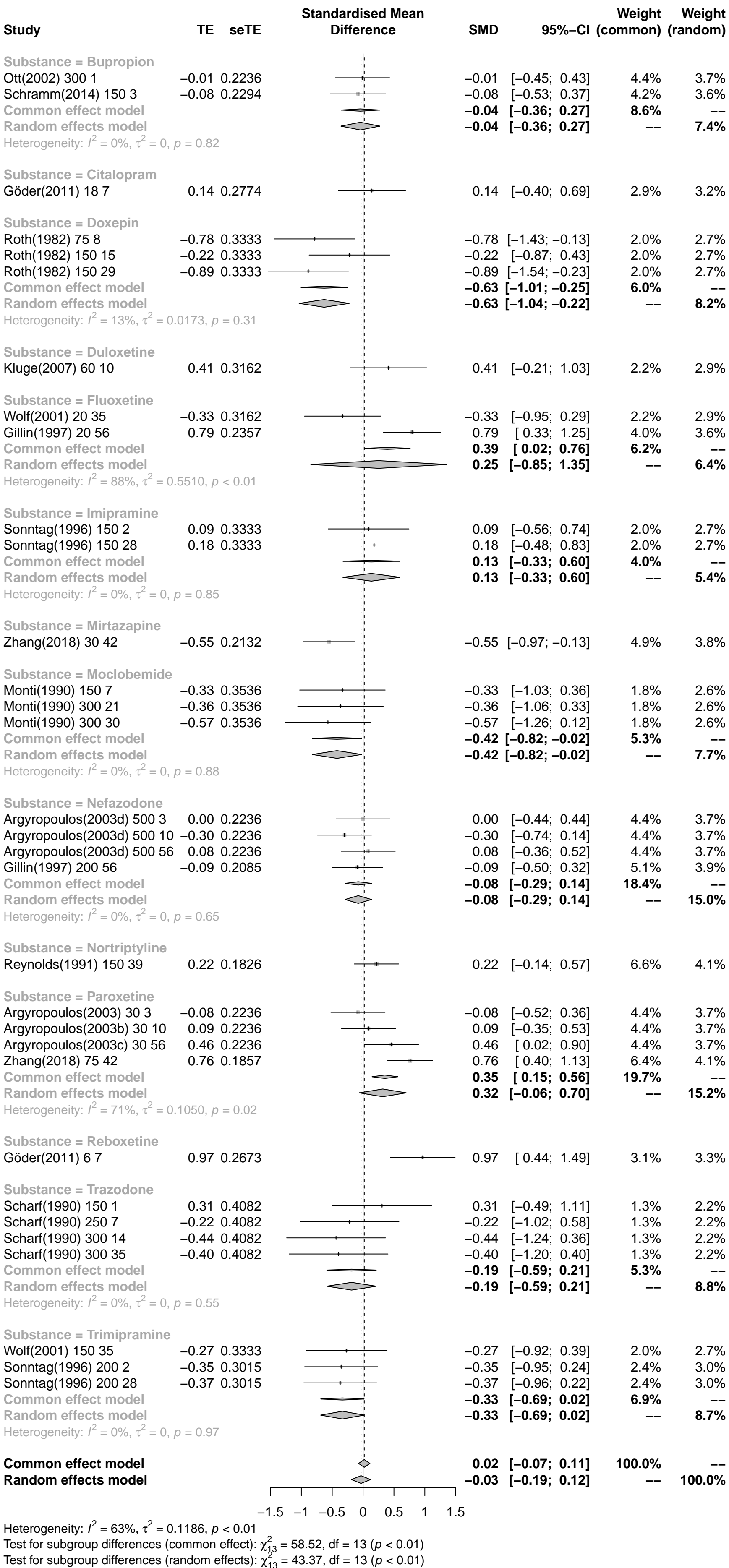
Depressed Population TST



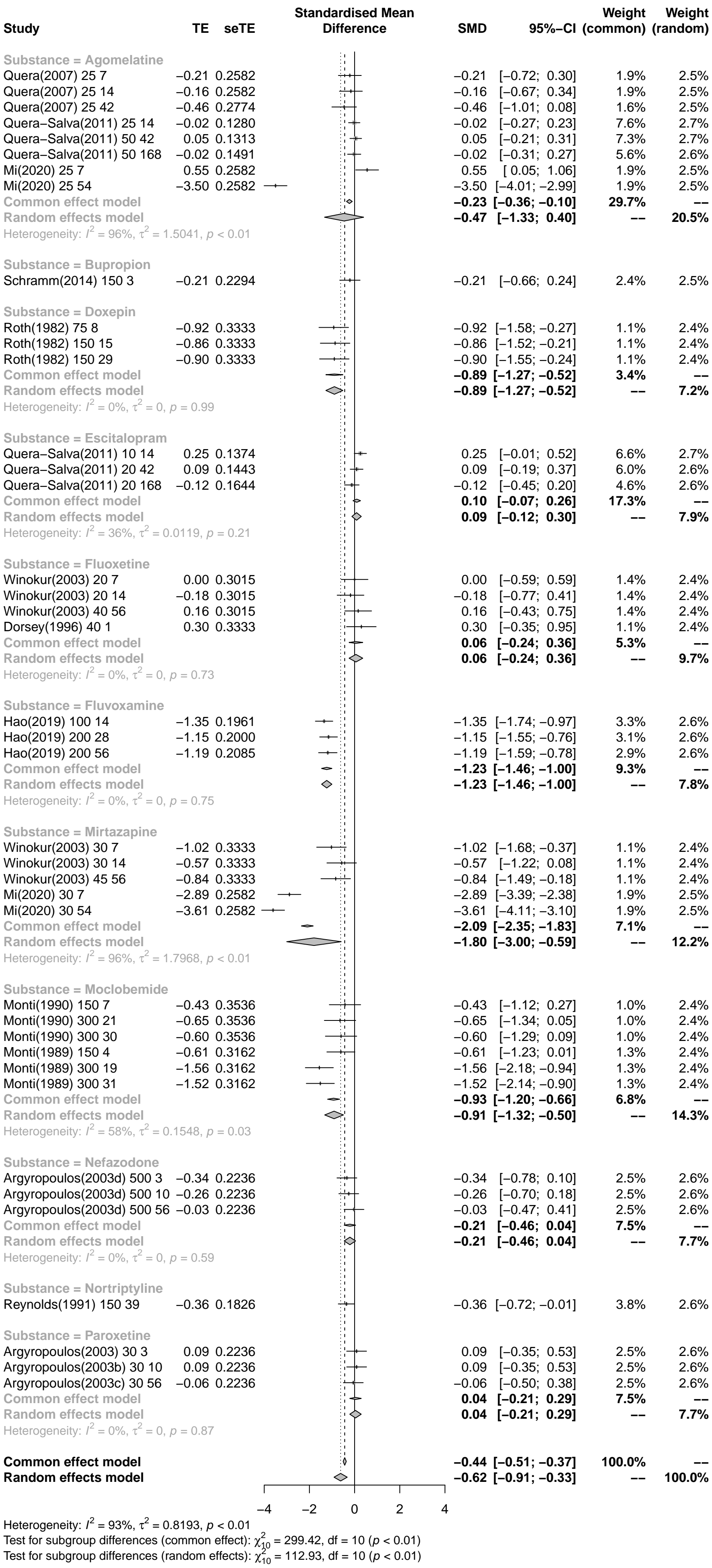
Depressed Population Sleep Latency (min)



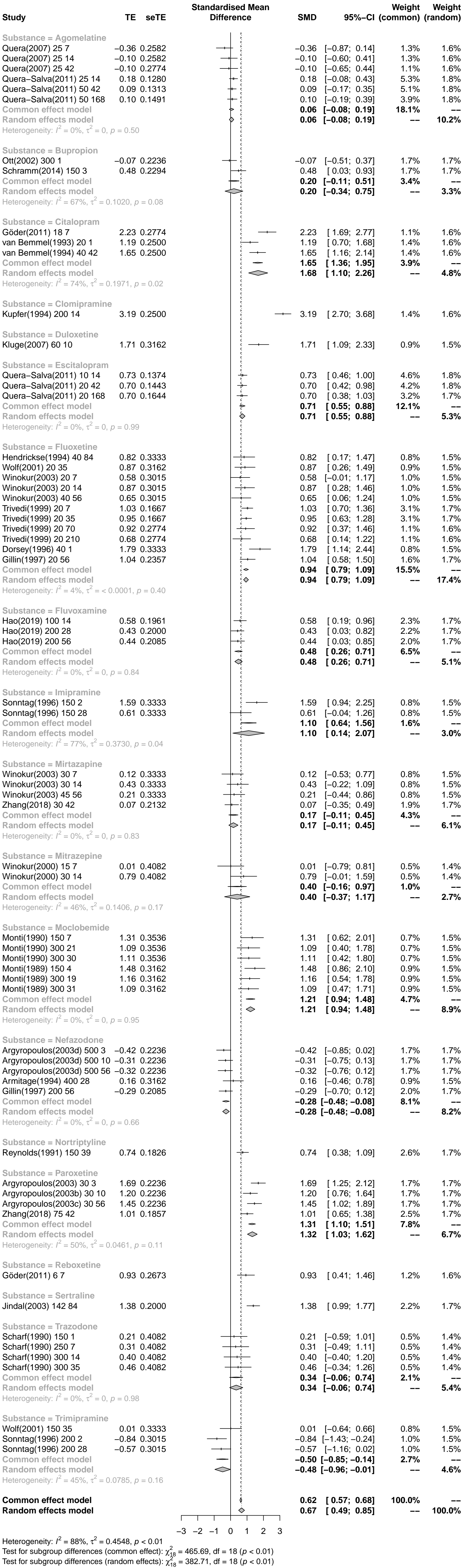
Depressed Population no. wake periods



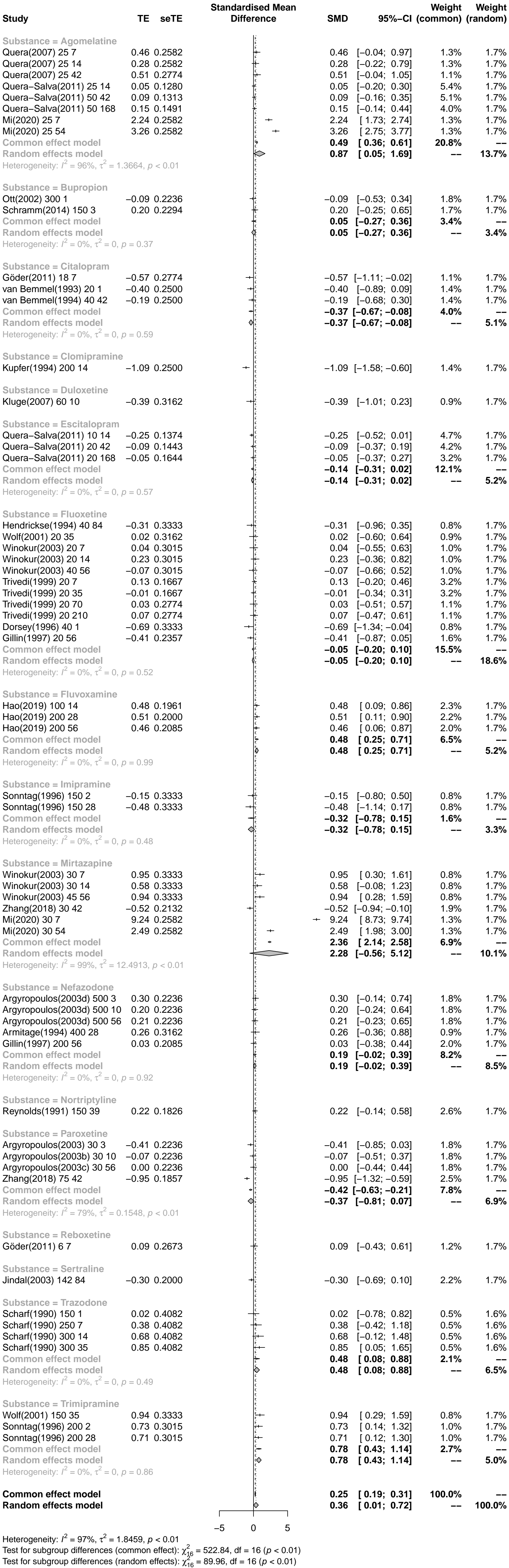
Depressed Population WASO



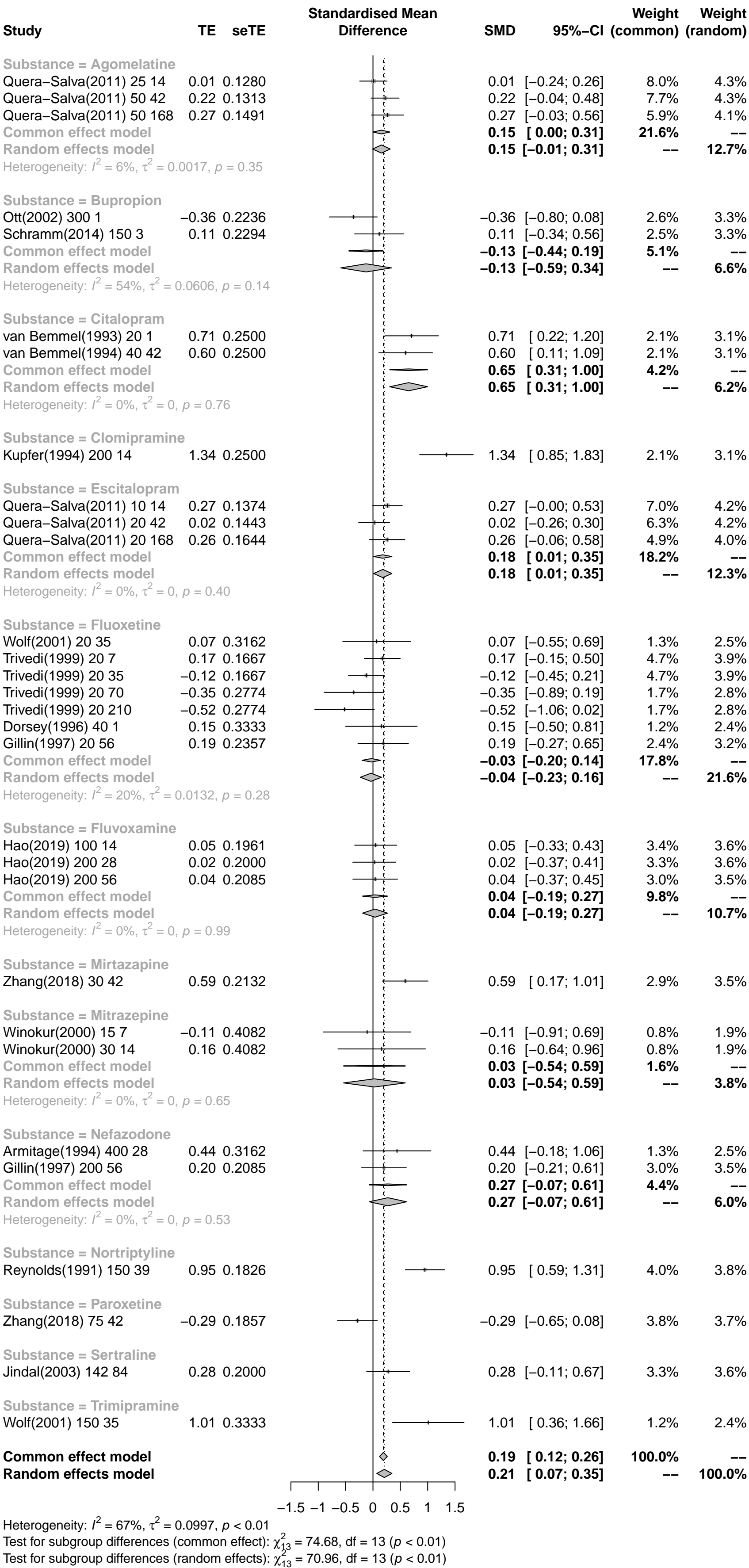
Depressed Population REM latency min



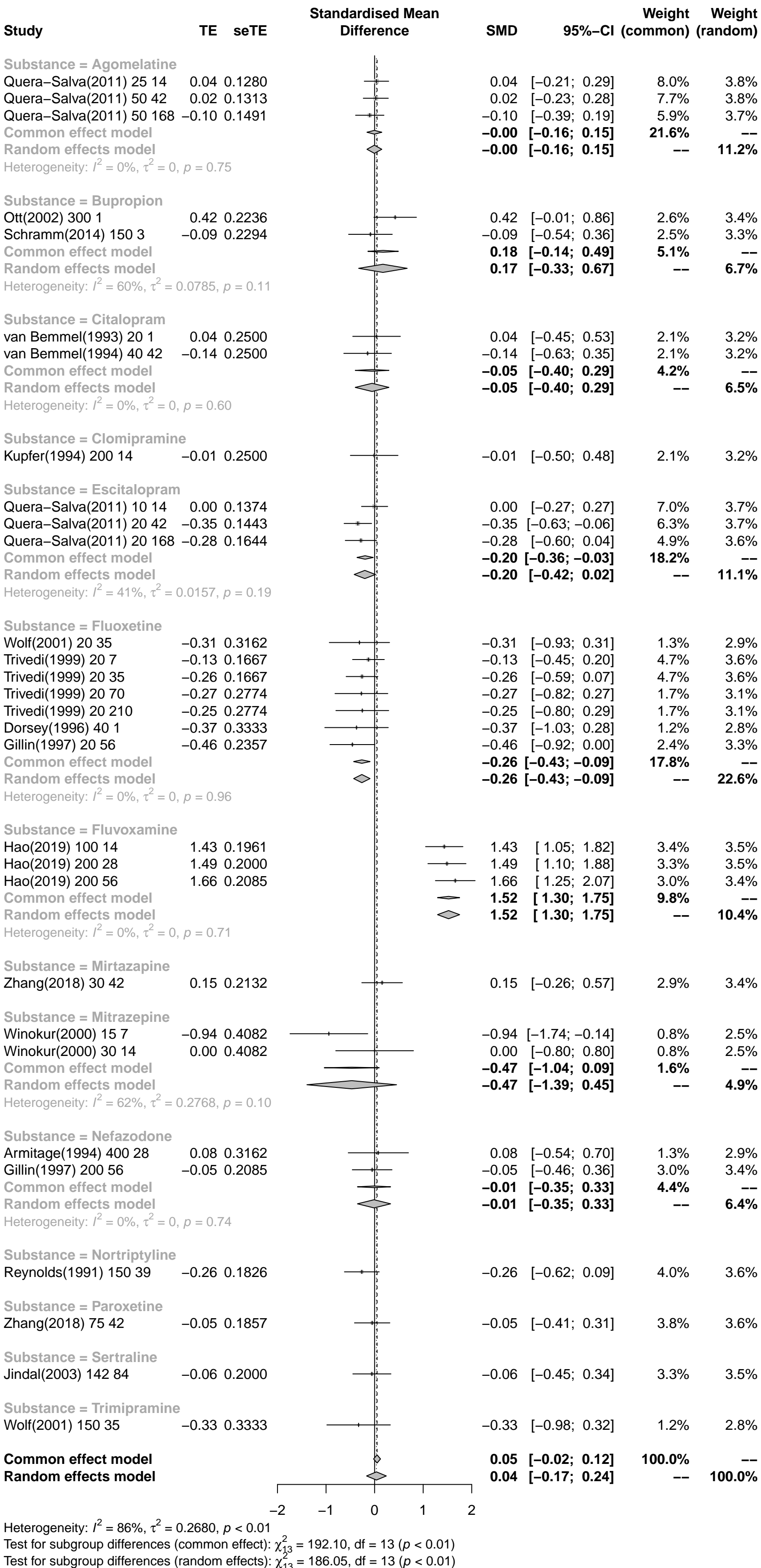
Depressed Population SE %



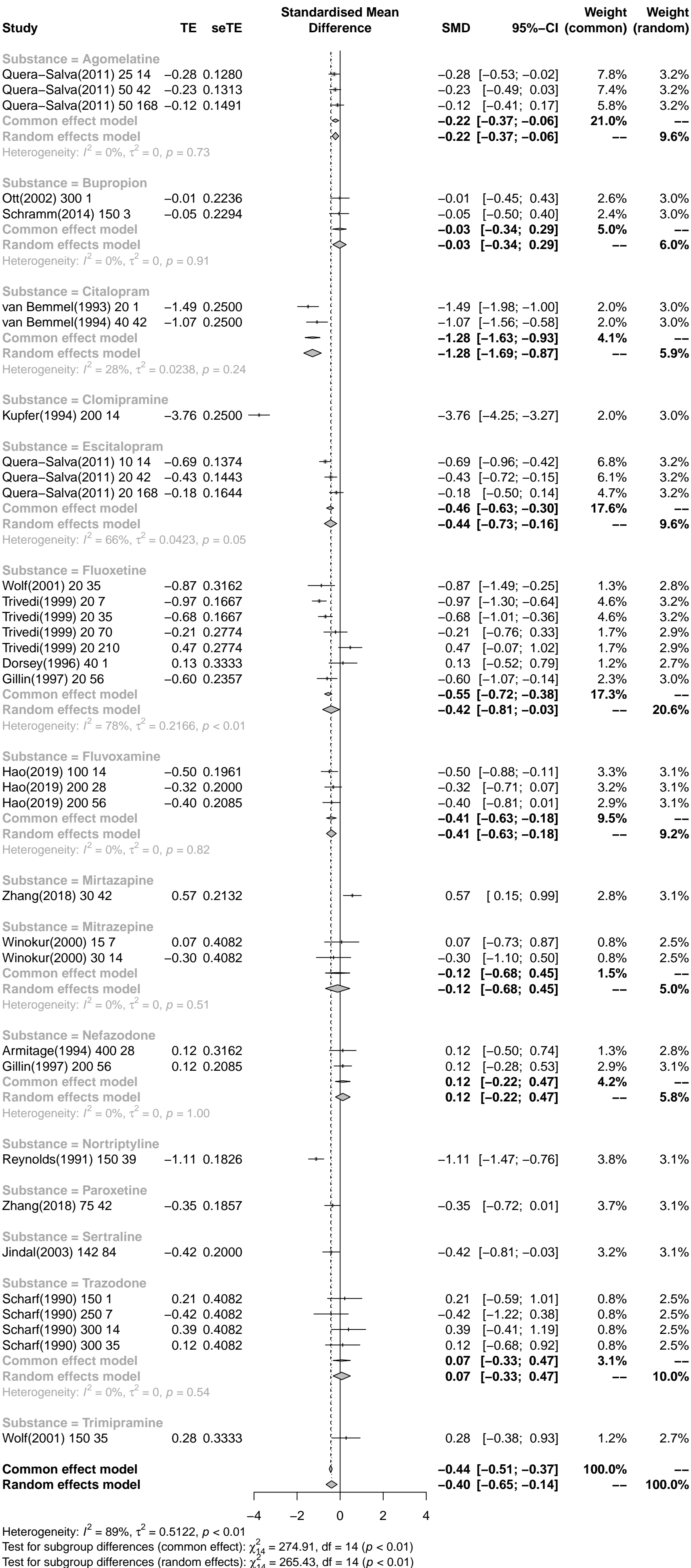
Depressed Population stage 2 % SPT



Depressed Population stage SWS % SPT



Depressed Population stage REM % SPT



Depressed Population REM density %

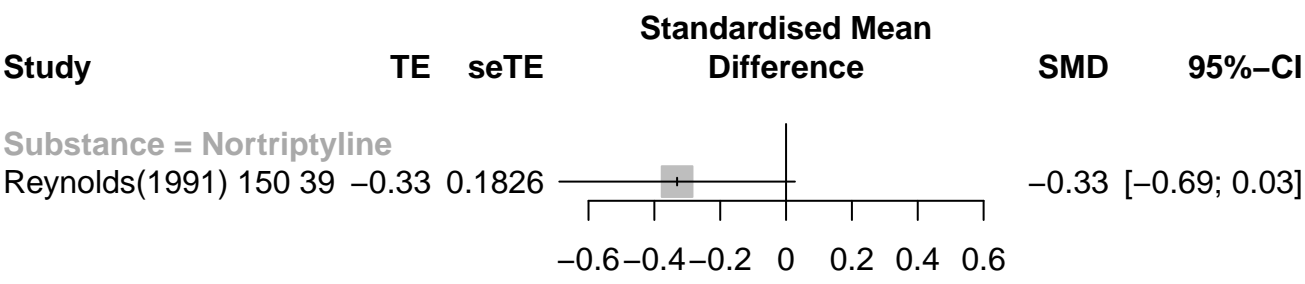
Study	TE	seTE	Standardised Mean Difference	SMD	95%-CI	Weight (common)	Weight (random)
Substance = Agomelatine							
Quera(2007) 25 7	-0.47	0.2582		-0.47	[-0.97; 0.04]	5.0%	5.6%
Quera(2007) 25 14	0.16	0.2582		0.16	[-0.35; 0.67]	5.0%	5.6%
Quera(2007) 25 42	0.06	0.2774		0.06	[-0.49; 0.60]	4.3%	5.3%
Common effect model				-0.09	[-0.39; 0.21]	14.2%	--
Random effects model				-0.09	[-0.48; 0.30]	--	16.5%
Heterogeneity: $I^2 = 40\%$, $\tau^2 = 0.0483$, $p = 0.19$							
Substance = Bupropion							
Ott(2002) 300 1	0.00	0.2236		0.00	[-0.44; 0.44]	6.6%	6.2%
Substance = Citalopram							
Göder(2011) 18 7	-0.23	0.2774		-0.23	[-0.78; 0.31]	4.3%	5.3%
Substance = Fluoxetine							
Hendrickse(1994) 40 84	0.58	0.3333		0.58	[-0.07; 1.23]	3.0%	4.4%
Trivedi(1999) 20 7	0.20	0.1667		0.20	[-0.13; 0.53]	11.9%	7.3%
Trivedi(1999) 20 35	0.50	0.1667		0.50	[0.17; 0.83]	11.9%	7.3%
Trivedi(1999) 20 70	0.87	0.2774		0.87	[0.32; 1.41]	4.3%	5.3%
Trivedi(1999) 20 210	0.74	0.2774		0.74	[0.20; 1.29]	4.3%	5.3%
Common effect model				0.48	[0.29; 0.67]	35.4%	--
Random effects model				0.52	[0.27; 0.77]	--	29.6%
Heterogeneity: $I^2 = 31\%$, $\tau^2 = 0.0287$, $p = 0.21$							
Substance = Imipramine							
Sonntag(1996) 150 2	-0.51	0.3333		-0.51	[-1.17; 0.14]	3.0%	4.4%
Sonntag(1996) 150 28	0.22	0.3333		0.22	[-0.43; 0.88]	3.0%	4.4%
Common effect model				-0.14	[-0.61; 0.32]	6.0%	--
Random effects model				-0.14	[-0.87; 0.58]	--	8.8%
Heterogeneity: $I^2 = 59\%$, $\tau^2 = 0.1614$, $p = 0.12$							
Substance = Nefazodone							
Armitage(1994) 400 28	0.34	0.3162		0.34	[-0.28; 0.96]	3.3%	4.7%
Substance = Nortriptyline							
Reynolds(1991) 150 39	0.79	0.1826		0.79	[0.43; 1.14]	9.9%	7.0%
Substance = Reboxetine							
Göder(2011) 6 7	-0.19	0.2673		-0.19	[-0.71; 0.34]	4.6%	5.4%
Substance = Sertraline							
Jindal(2003) 142 84	0.56	0.2000		0.56	[0.17; 0.96]	8.3%	6.7%
Substance = Trimipramine							
Sonntag(1996) 200 2	0.09	0.3015		0.09	[-0.50; 0.68]	3.6%	4.9%
Sonntag(1996) 200 28	0.38	0.3015		0.38	[-0.21; 0.97]	3.6%	4.9%
Common effect model				0.23	[-0.18; 0.65]	7.3%	--
Random effects model				0.23	[-0.18; 0.65]	--	9.8%
Heterogeneity: $I^2 = 0\%$, $\tau^2 = 0$, $p = 0.50$							
Common effect model				0.28	[0.17; 0.40]	100.0%	--
Random effects model				0.24	[0.06; 0.43]	--	100.0%

Heterogeneity: $I^2 = 61\%$, $\tau^2 = 0.0970$, $p < 0.01$

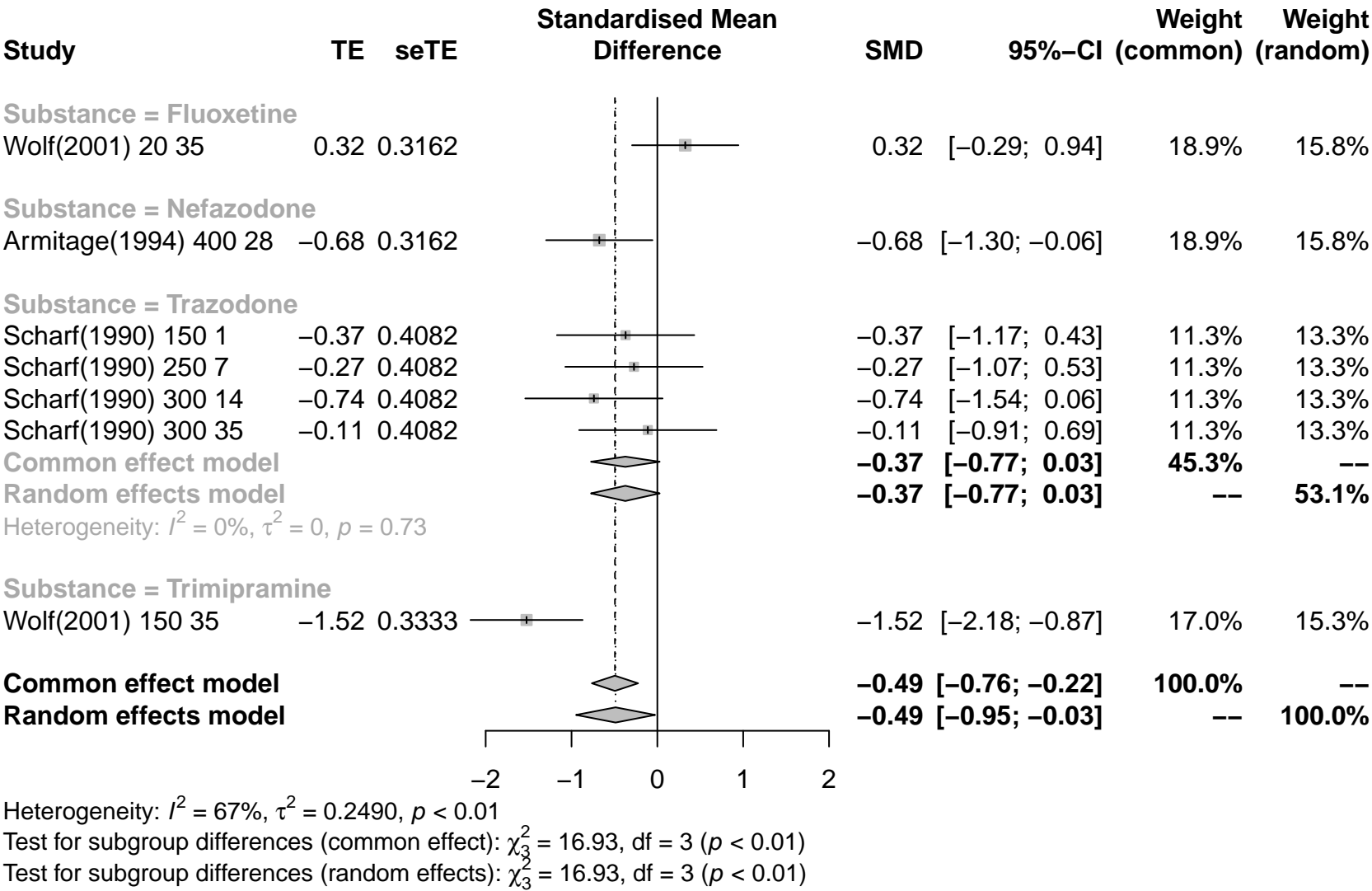
Test for subgroup differences (common effect): $\chi^2_9 = 31.31$, $df = 9$ ($p < 0.01$)

Test for subgroup differences (random effects): $\chi^2_9 = 25.97$, $df = 9$ ($p < 0.01$)

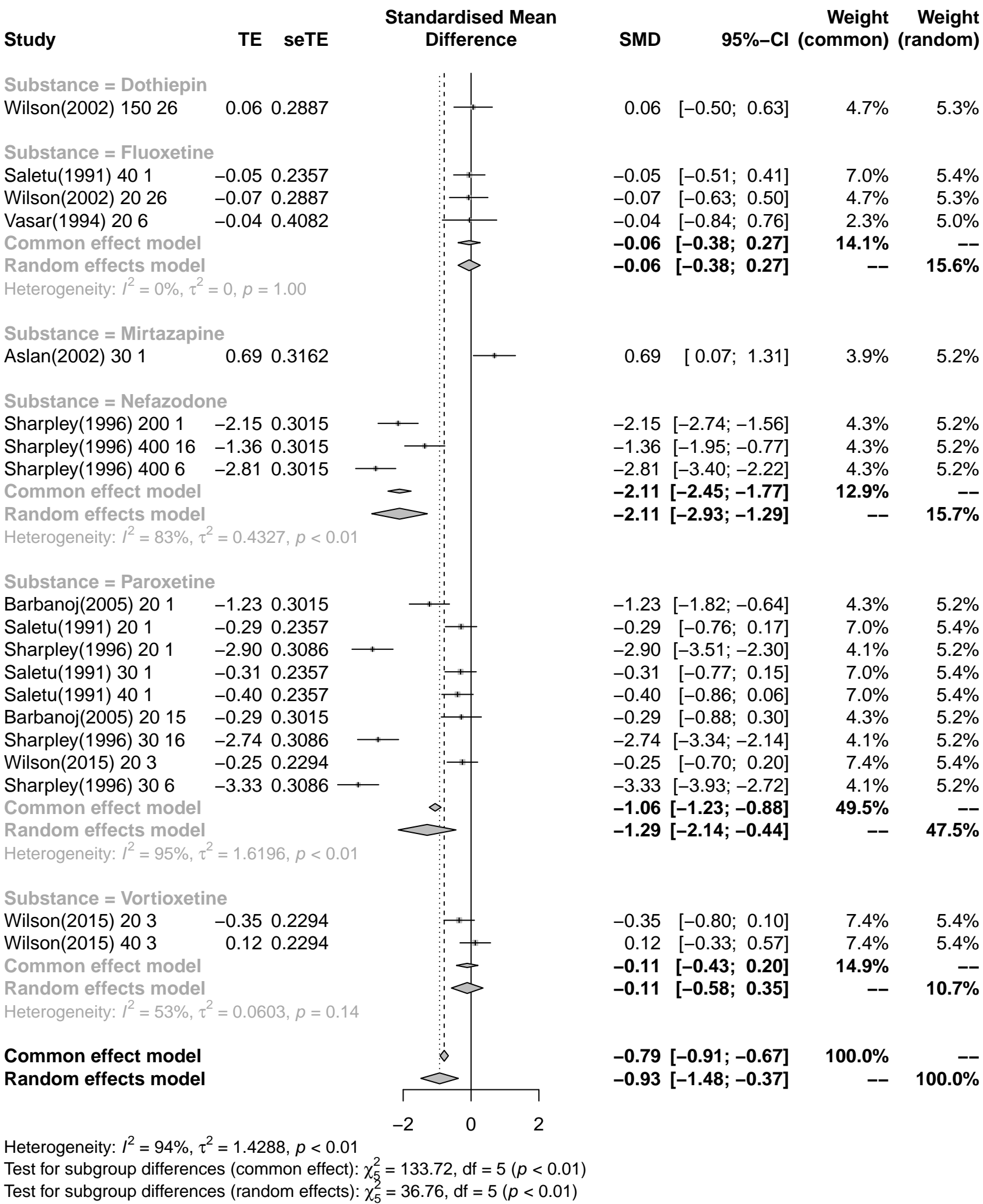
Depressed Population apnea/hypopnea index



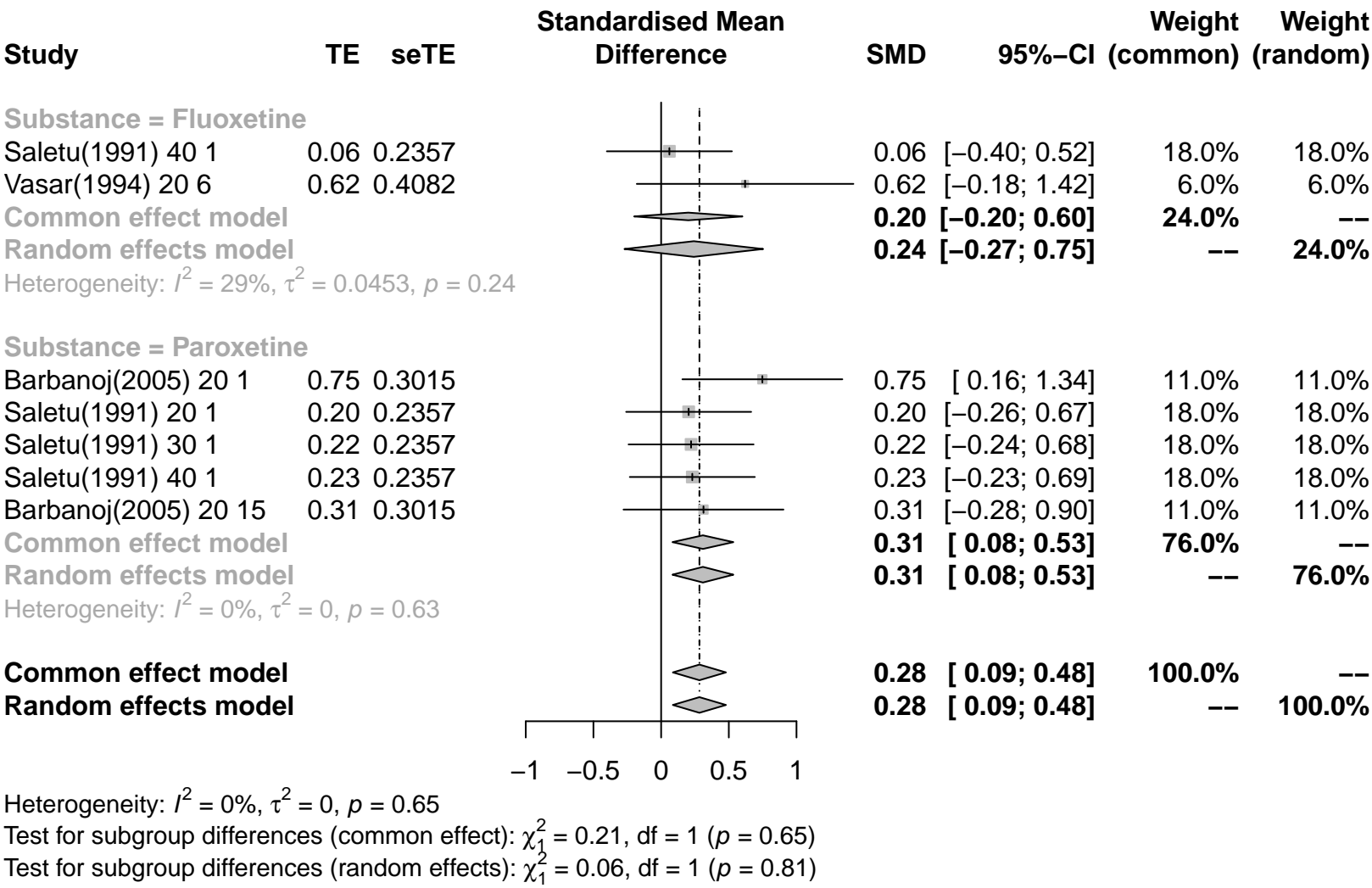
Depressed Population stage wake % SPT



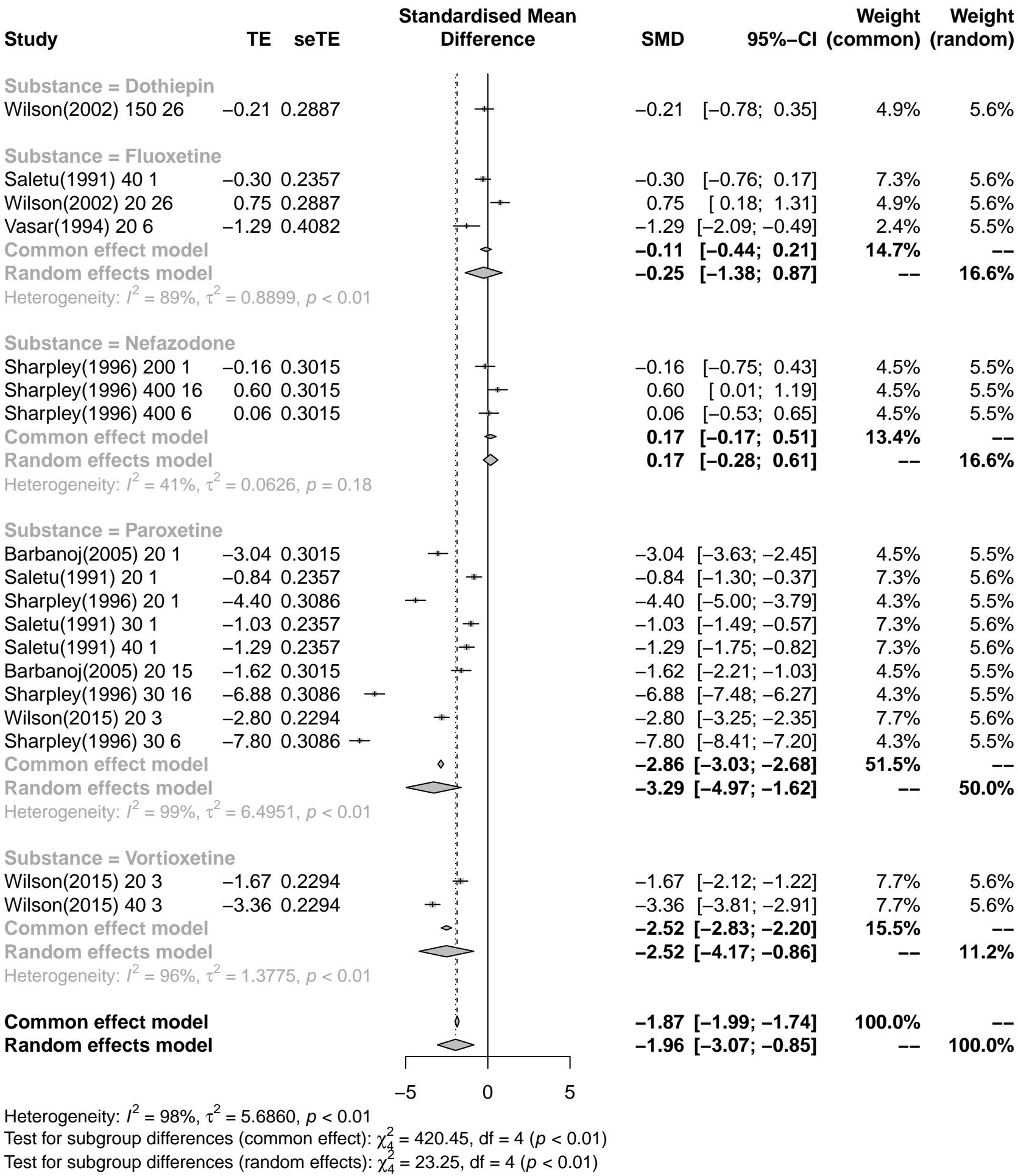
Healthy Population continuity vs Placebo



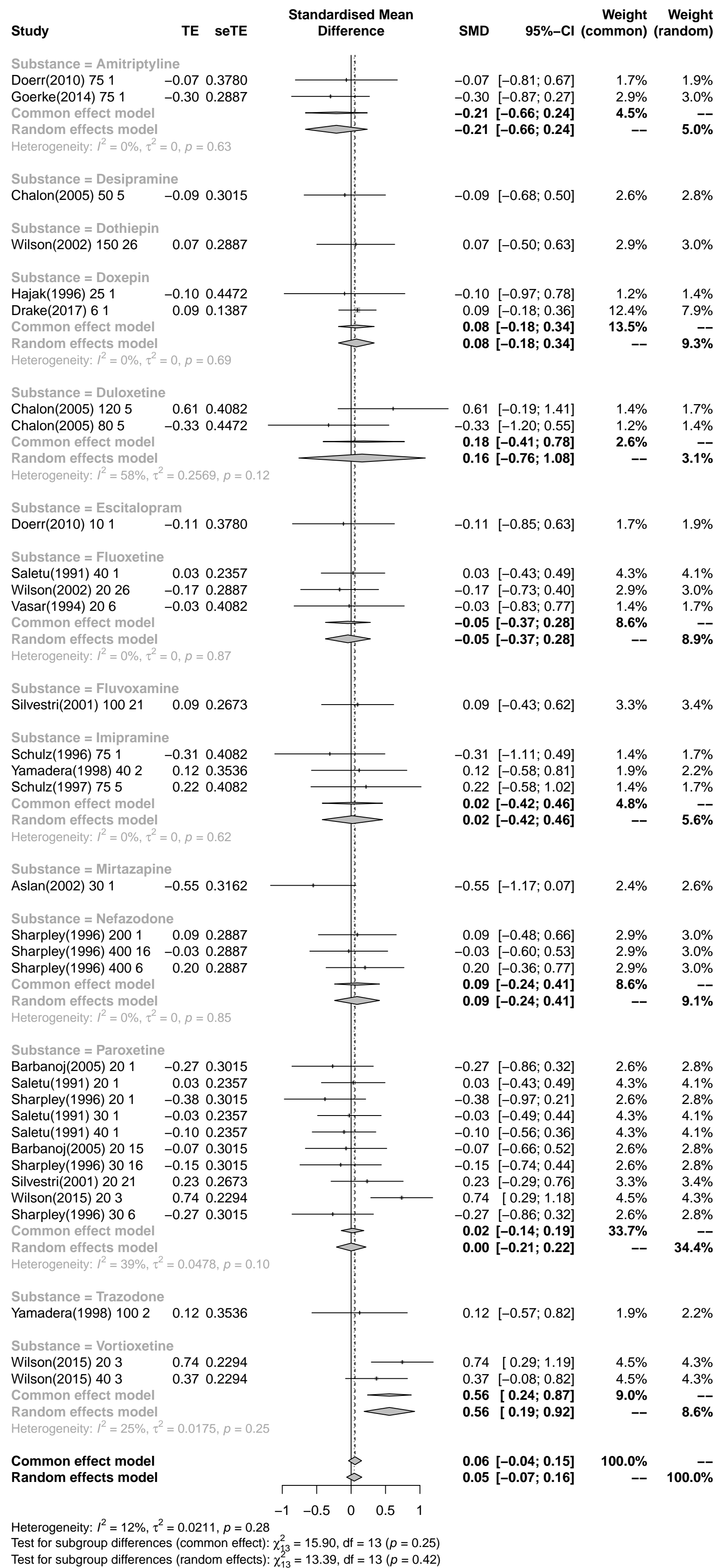
Healthy Population depth vs Placebo



Healthy Population REMpressure vs Placebo



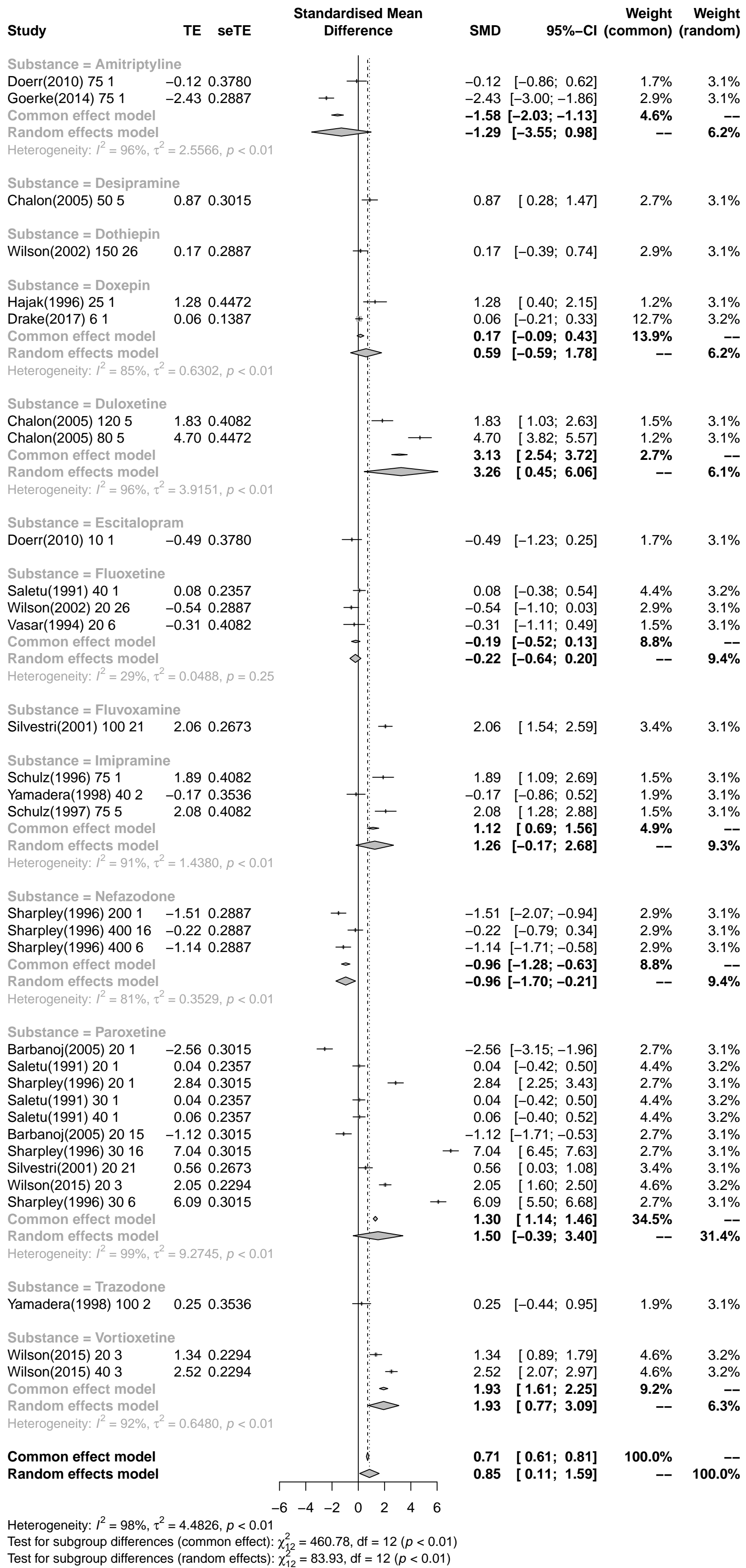
Healthy Population continuity



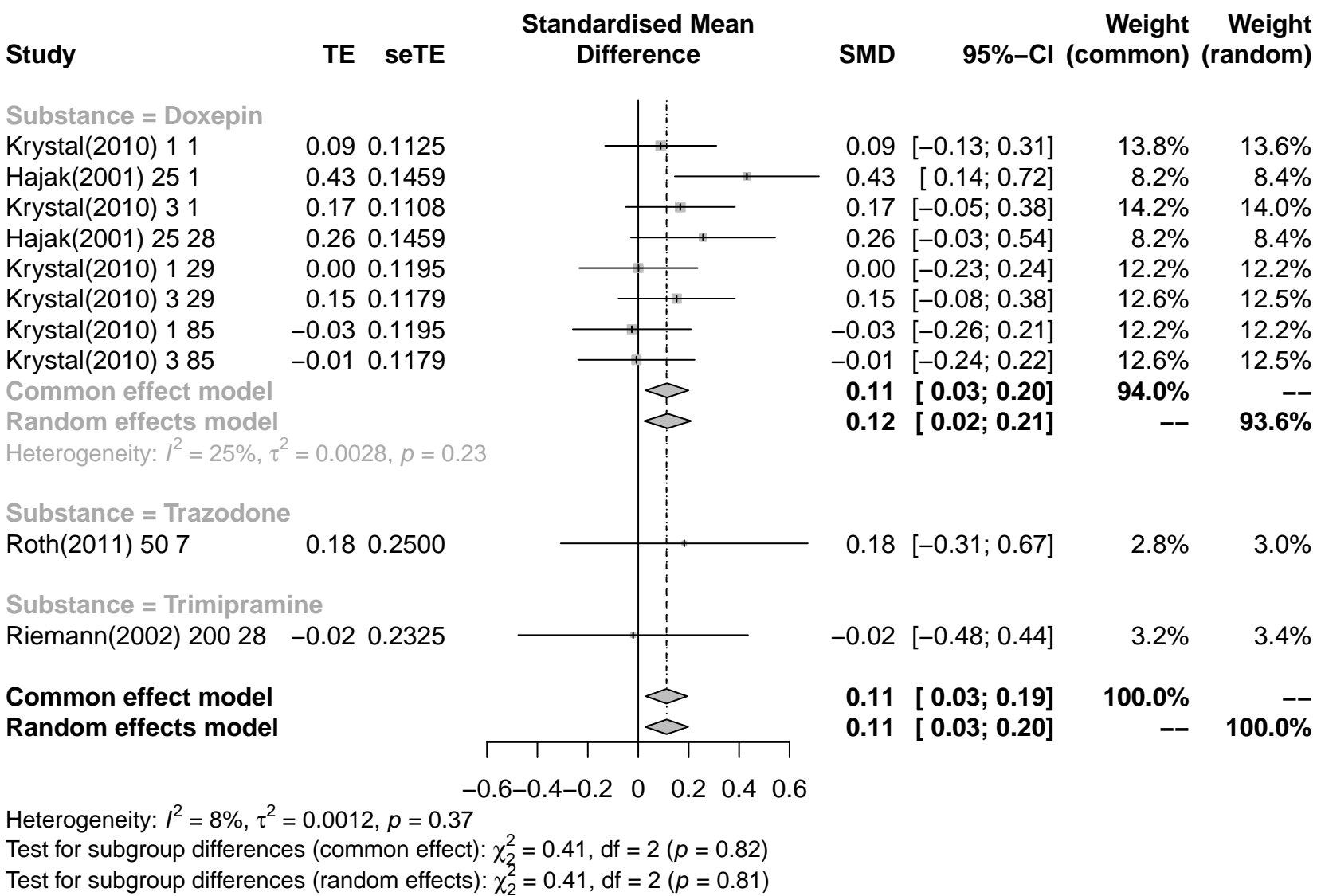
Healthy Population depth

Study	TE	seTE	Standardised Mean Difference	SMD	95%-CI	Weight (common)	Weight (random)
Substance = Amitriptyline							
Doerr(2010) 75 1	0.95	0.3780		0.95	[0.20; 1.69]	3.6%	7.1%
Goerke(2014) 75 1	2.73	0.2887		2.73	[2.17; 3.30]	6.2%	7.8%
Common effect model				2.08	[1.63; 2.53]	9.8%	--
Random effects model				1.86	[0.10; 3.61]	--	14.9%
Heterogeneity: $I^2 = 93\%$, $\tau^2 = 1.4881$, $p < 0.01$							
Substance = Doxepin							
Drake(2017) 6 1	0.14	0.1387		0.14	[-0.13; 0.41]	26.8%	8.6%
Substance = Escitalopram							
Doerr(2010) 10 1	0.02	0.3780		0.02	[-0.72; 0.77]	3.6%	7.1%
Substance = Fluoxetine							
Saletu(1991) 40 1	0.10	0.2357		0.10	[-0.36; 0.56]	9.3%	8.1%
Vasar(1994) 20 6	0.56	0.4082		0.56	[-0.24; 1.36]	3.1%	6.9%
Common effect model				0.21	[-0.19; 0.61]	12.4%	--
Random effects model				0.21	[-0.19; 0.61]	--	15.0%
Heterogeneity: $I^2 = 0\%$, $\tau^2 = 0$, $p = 0.33$							
Substance = Imipramine							
Yamadera(1998) 40 2	-0.82	0.3536		-0.82	[-1.51; -0.13]	4.1%	7.3%
Substance = Paroxetine							
Barbanoj(2005) 20 1	0.59	0.3015		0.59	[0.00; 1.18]	5.7%	7.7%
Saletu(1991) 20 1	0.24	0.2357		0.24	[-0.22; 0.70]	9.3%	8.1%
Saletu(1991) 30 1	0.25	0.2357		0.25	[-0.21; 0.72]	9.3%	8.1%
Saletu(1991) 40 1	0.24	0.2357		0.24	[-0.22; 0.71]	9.3%	8.1%
Barbanoj(2005) 20 15	0.45	0.3015		0.45	[-0.15; 1.04]	5.7%	7.7%
Common effect model				0.32	[0.10; 0.55]	39.2%	--
Random effects model				0.32	[0.10; 0.55]	--	39.8%
Heterogeneity: $I^2 = 0\%$, $\tau^2 = 0$, $p = 0.86$							
Substance = Trazodone							
Yamadera(1998) 100 2	0.81	0.3536		0.81	[0.12; 1.50]	4.1%	7.3%
Common effect model				0.39	[0.25; 0.53]	100.0%	--
Random effects model				0.48	[0.04; 0.91]	--	100.0%
Heterogeneity: $I^2 = 86\%$, $\tau^2 = 0.5512$, $p < 0.01$							
Test for subgroup differences (common effect): $\chi^2_6 = 72.44$, $df = 6$ ($p < 0.01$)							
Test for subgroup differences (random effects): $\chi^2_6 = 16.24$, $df = 6$ ($p = 0.01$)							

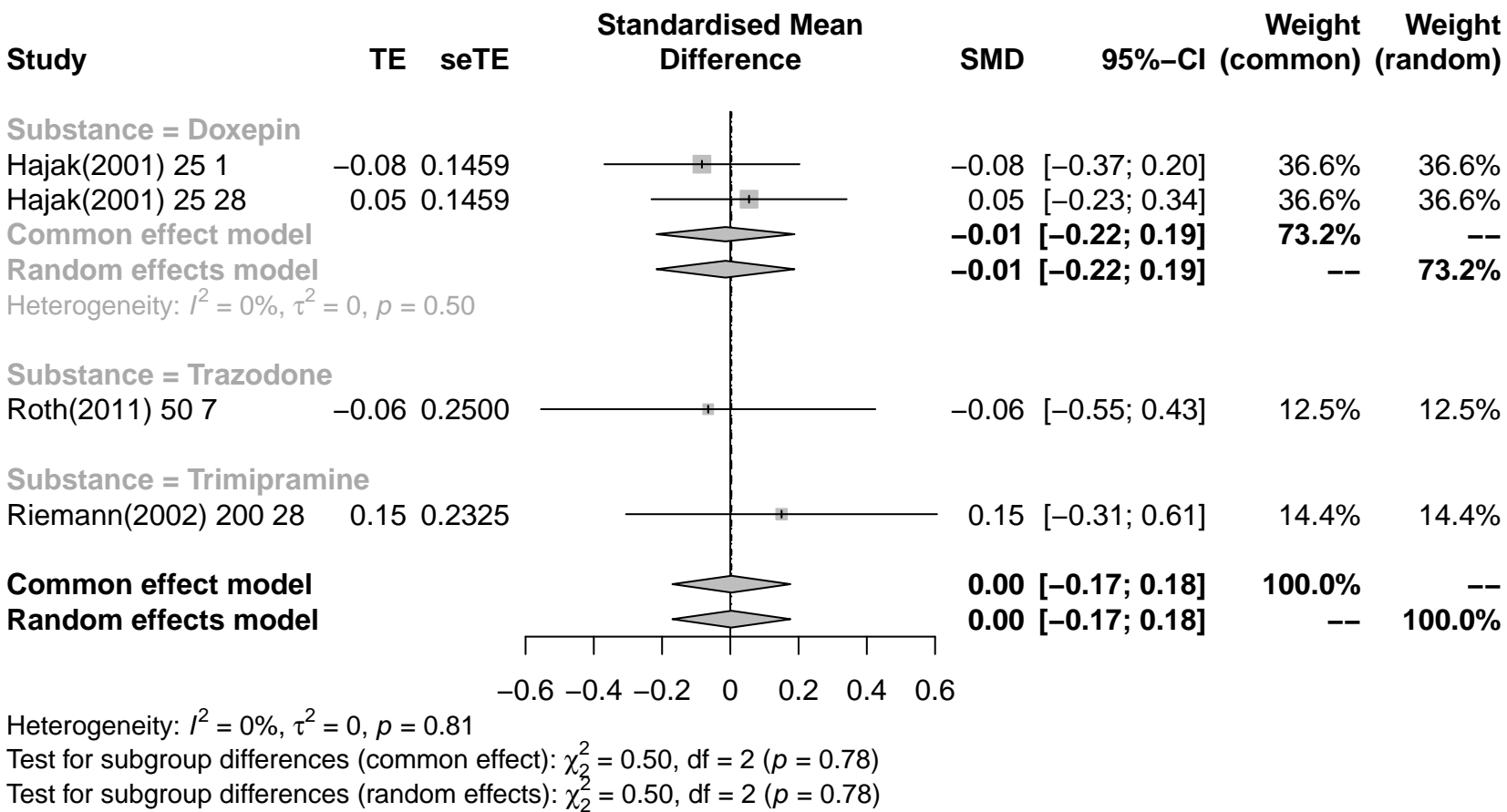
Healthy Population REMpressure



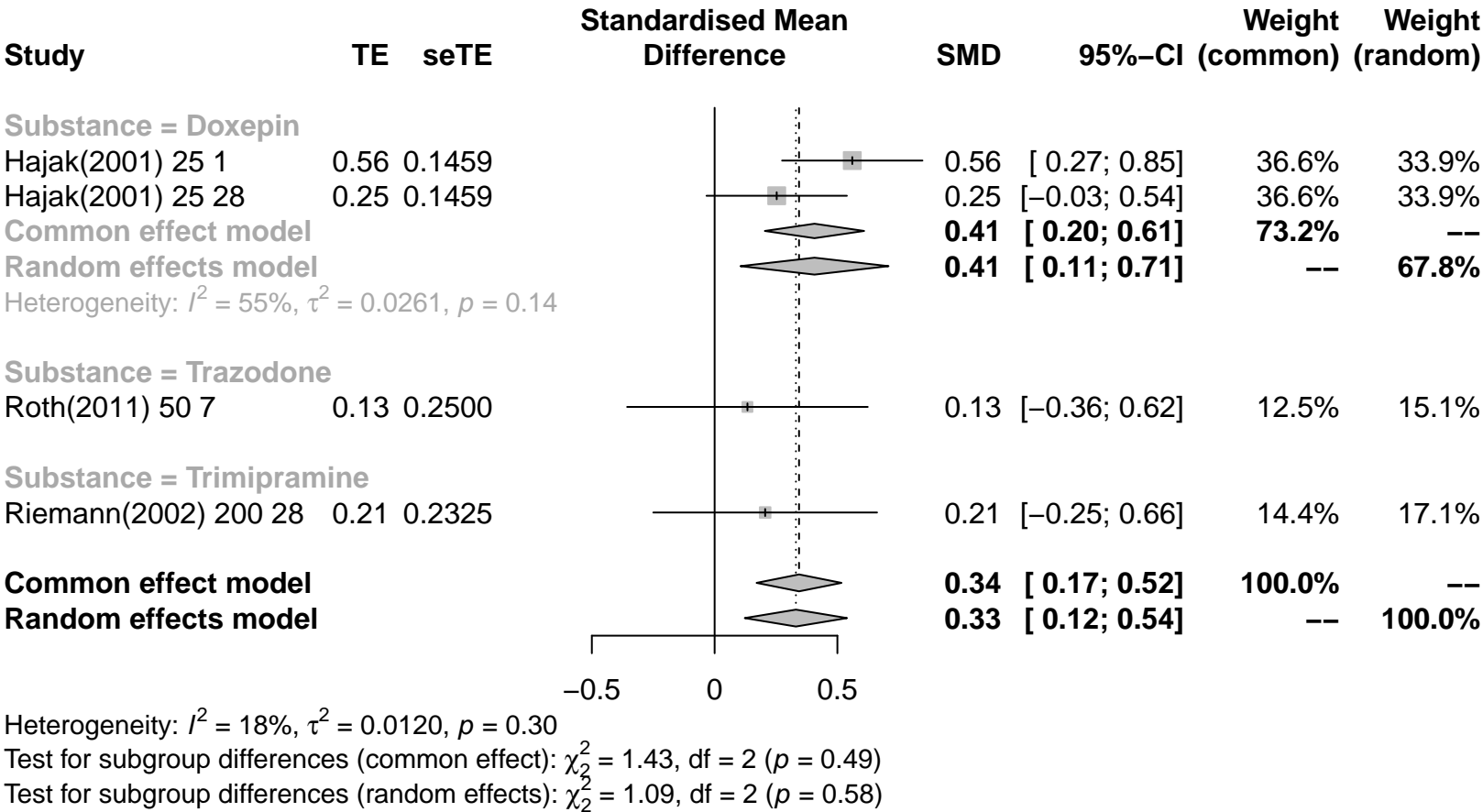
Insomnia Population continuity vs Placebo



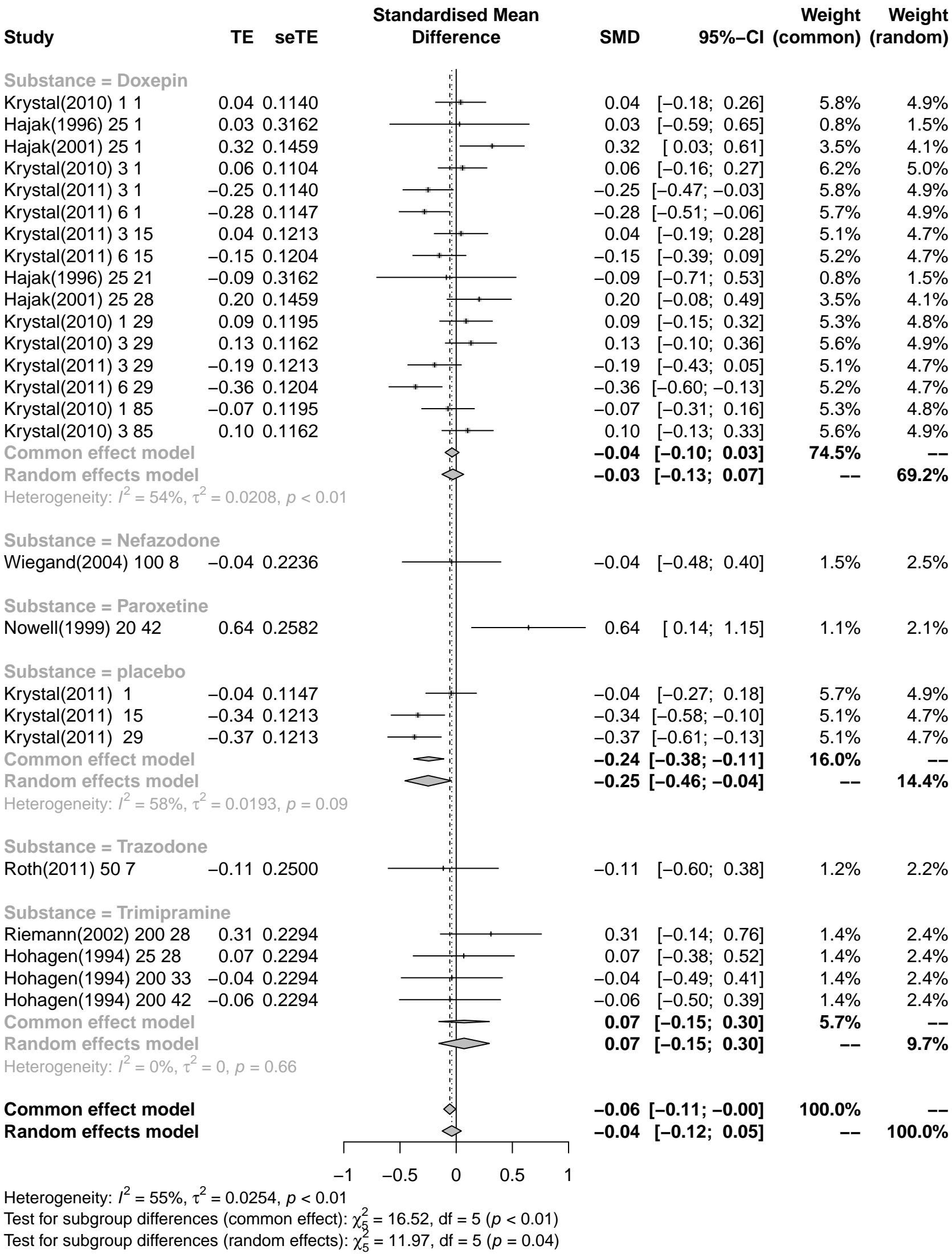
Insomnia Population REMpressure vs Placebo



Insomnia Population depth vs Placebo



Insomnia Population continuity



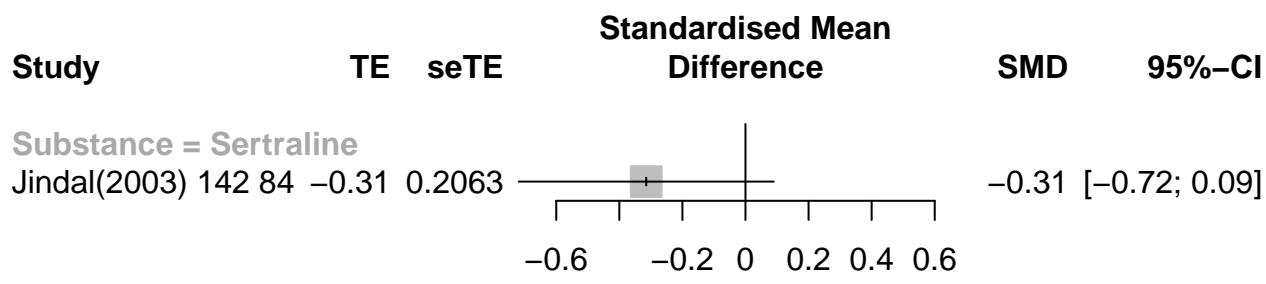
Insomnia Population REMpressure

Study	TE	seTE	Standardised Mean Difference	SMD	95%-CI (common)	Weight (common)	Weight (random)
Substance = Doxepin							
Hajak(1996) 25 1	0.73	0.3162		0.73	[0.11; 1.35]	4.1%	7.3%
Hajak(2001) 25 1	-0.03	0.1459		-0.03	[-0.32; 0.25]	19.5%	11.1%
Hajak(1996) 25 21	-0.53	0.3162		-0.53	[-1.15; 0.09]	4.1%	7.3%
Hajak(2001) 25 28	0.03	0.1459		0.03	[-0.25; 0.32]	19.5%	11.1%
Common effect model				0.02	[-0.17; 0.20]	47.3%	--
Random effects model				0.04	[-0.36; 0.44]	--	36.7%
Heterogeneity: $I^2 = 63\%$, $\tau^2 = 0.1127$, $p = 0.04$							
Substance = Nefazodone							
Wiegand(2004) 100 8	0.16	0.2236		0.16	[-0.28; 0.59]	8.3%	9.3%
Substance = Paroxetine							
Nowell(1999) 20 42	1.24	0.2582		1.24	[0.73; 1.74]	6.2%	8.5%
Substance = Trazodone							
Roth(2011) 50 7	-0.15	0.2500		-0.15	[-0.64; 0.34]	6.6%	8.7%
Substance = Trimipramine							
Riemann(2002) 200 28	0.04	0.2294		0.04	[-0.41; 0.49]	7.9%	9.2%
Hohagen(1994) 25 28	0.09	0.2294		0.09	[-0.36; 0.54]	7.9%	9.2%
Hohagen(1994) 200 33	-0.09	0.2294		-0.09	[-0.54; 0.36]	7.9%	9.2%
Hohagen(1994) 200 42	-0.12	0.2294		-0.12	[-0.57; 0.33]	7.9%	9.2%
Common effect model				-0.02	[-0.25; 0.20]	31.5%	--
Random effects model				-0.02	[-0.25; 0.20]	--	36.7%
Heterogeneity: $I^2 = 0\%$, $\tau^2 = 0$, $p = 0.90$							
Common effect model				0.08	[-0.04; 0.21]	100.0%	--
Random effects model				0.11	[-0.14; 0.37]	--	100.0%

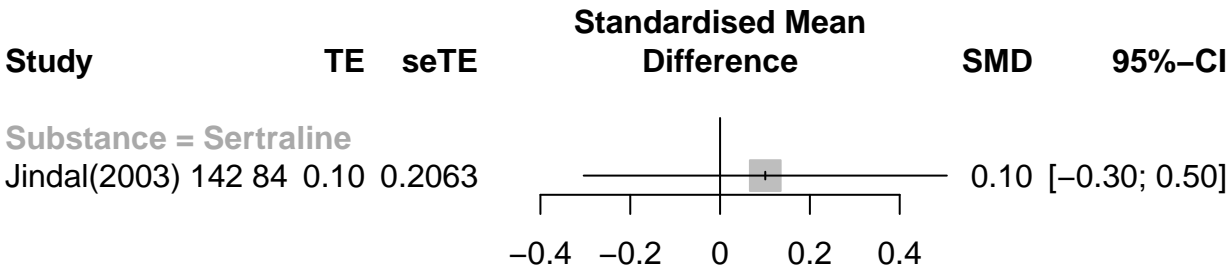
Insomnia Population depth

Study	TE	seTE	Standardised Mean Difference	SMD	95%-CI (common)	Weight (common)	Weight (random)
Substance = Doxepin							
Hajak(2001) 25 1	0.45	0.1459		0.45	[0.17; 0.74]	20.2%	13.8%
Hajak(2001) 25 28	0.23	0.1459		0.23	[-0.05; 0.52]	20.2%	13.8%
Common effect model				0.34	[0.14; 0.54]	40.3%	--
Random effects model				0.34	[0.13; 0.56]	--	27.6%
Heterogeneity: $I^2 = 12\%$, $\tau^2 = 0.0030$, $p = 0.29$							
Substance = Nefazodone							
Wiegand(2004) 100 8	0.07	0.2236		0.07	[-0.37; 0.51]	8.6%	9.8%
Substance = Paroxetine							
Nowell(1999) 20 42	0.25	0.2582		0.25	[-0.26; 0.75]	6.4%	8.4%
Substance = Trazodone							
Paterson(2009) 100 56	1.48	0.2887		1.48	[0.91; 2.04]	5.2%	7.3%
Roth(2011) 50 7	0.15	0.2500		0.15	[-0.34; 0.64]	6.9%	8.7%
Common effect model				0.72	[0.35; 1.09]	12.0%	--
Random effects model				0.81	[-0.49; 2.10]	--	16.0%
Heterogeneity: $I^2 = 92\%$, $\tau^2 = 0.8026$, $p < 0.01$							
Substance = Trimipramine							
Riemann(2002) 200 28	0.24	0.2294		0.24	[-0.21; 0.68]	8.2%	9.5%
Hohagen(1994) 25 28	0.46	0.2294		0.46	[0.01; 0.91]	8.2%	9.5%
Hohagen(1994) 200 33	0.38	0.2294		0.38	[-0.07; 0.83]	8.2%	9.5%
Hohagen(1994) 200 42	0.35	0.2294		0.35	[-0.10; 0.80]	8.2%	9.5%
Common effect model				0.36	[0.13; 0.58]	32.6%	--
Random effects model				0.36	[0.13; 0.58]	--	38.2%
Heterogeneity: $I^2 = 0\%$, $\tau^2 = 0$, $p = 0.92$							
Common effect model				0.36	[0.23; 0.49]	100.0%	--
Random effects model				0.38	[0.19; 0.57]	--	100.0%

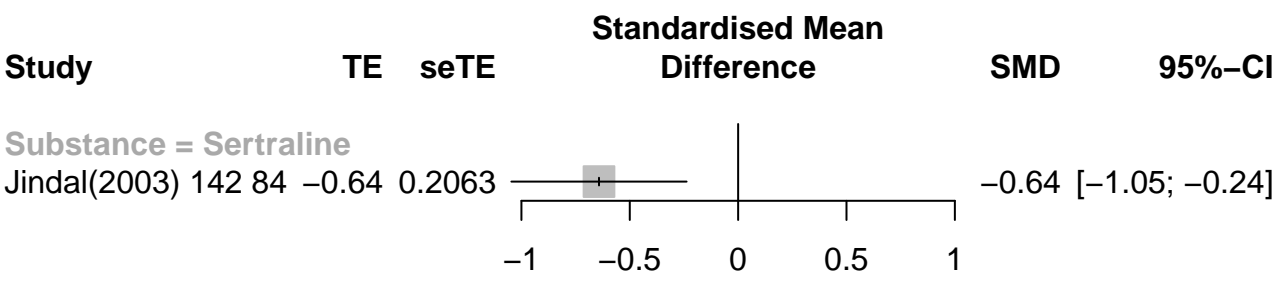
Depressed Population continuity vs Placebo

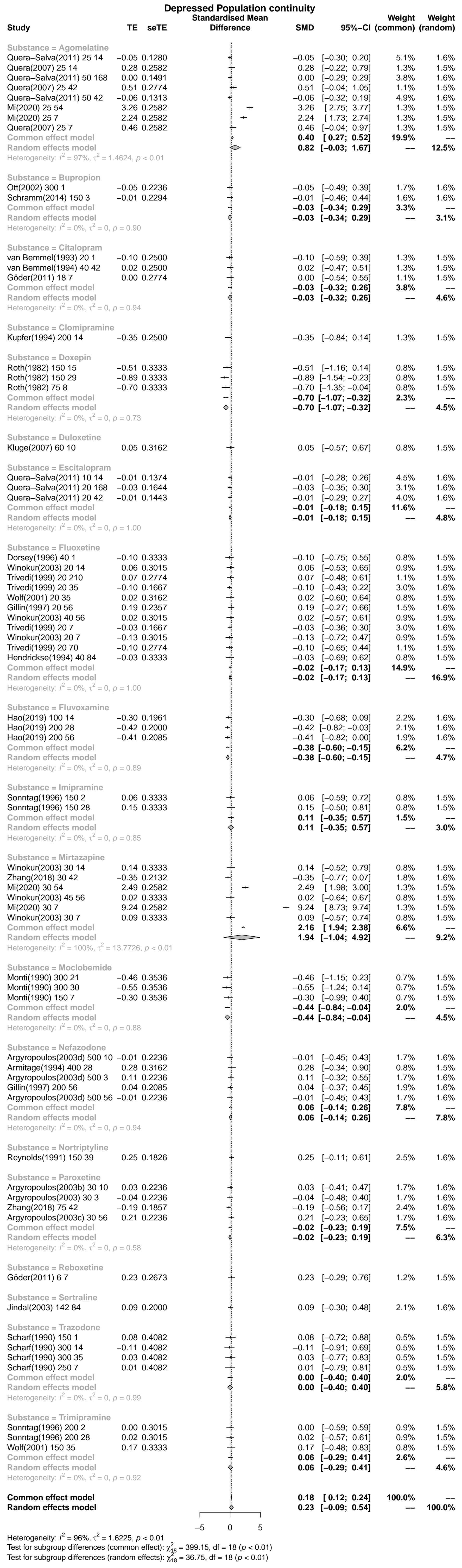


Depressed Population depth vs Placebo

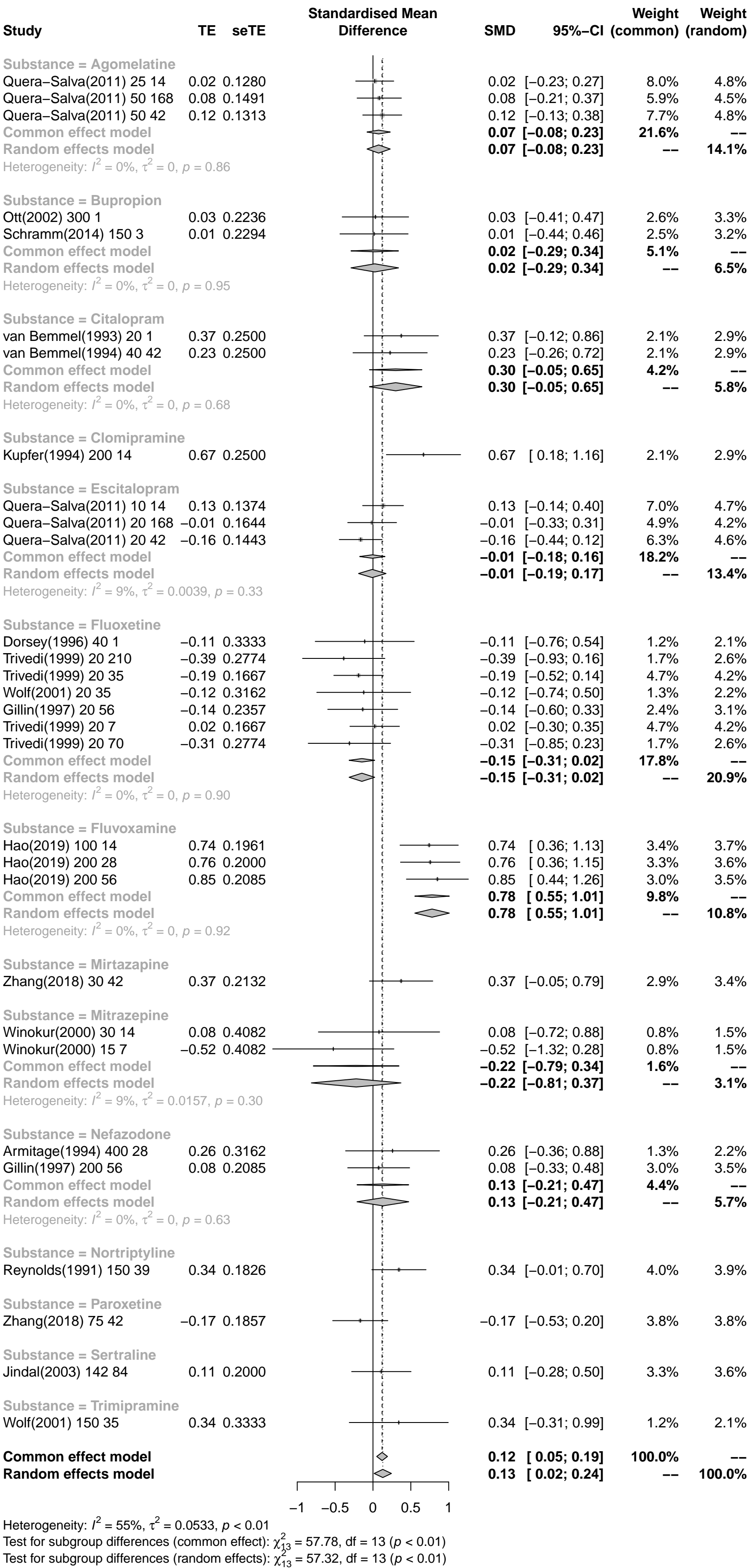


Depressed Population REMpressure vs Placebo





Depressed Population depth



Heterogeneity: $I^2 = 55\%$, $\tau^2 = 0.0533$, $p < 0.01$
Test for subgroup differences (common effect): $\chi^2_{13} = 57.78$, $df = 13$ ($p < 0.01$)
Test for subgroup differences (random effects): $\chi^2_{13} = 57.32$, $df = 13$ ($p < 0.01$)

Depressed Population REMpressure

