Figure 1: Forest Plot of comparison: Obesity, outcome: Dementia

Study or Subgroup	Cases Events	Cases Total	Controls Events	Controls Total	Weight	Odds Ratio M-H, Random, 95% CI
Booker 2016	717	11956	717	11956	44.7%	1.00 [0.90, 1.11]
Dregan Chow 2015	6224	56242	33561	350661	55.3%	1.18 [1.14, 1.21]
Imfeld 2015 benzos	1003	11524	1520	11524	0.0%	0.63 [0.58, 0.68]
Imfeld 2016 influenza	5	59	55	221	0.0%	0.28 [0.11, 0.73]
Imfeld Pernus 2013	3169	26459	4132	26459	0.0%	0.74 [0.70, 0.77]
Jick 2000	32	284	214	1080	0.0%	0.51 [0.35, 0.76]
Seshadri 2001	1184	19463	3157	19463	0.0%	0.33 [0.31, 0.36]
Total (95% CI)		**68198**		**362617**	**100.0%**	**1.09 [0.93, 1.28]**
Total events	6941		34278			

Heterogeneity: Tau² = 0.01; Chi² = 8.24, df = 1 (P = 0.004); I² = 88%
Test for overall effect: Z = 1.11 (P = 0.27)

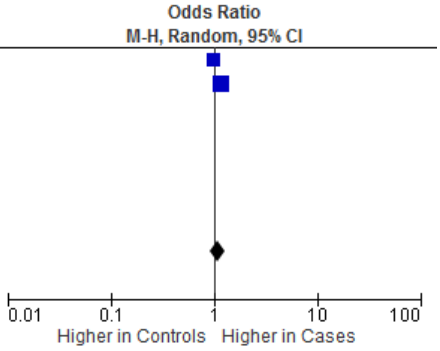

Figure 2: Forest Plot of comparison: Smoker, outcome: Dementia

Study or Subgroup	Cases Events	Cases Total	Control Events	Control Total	Weight	Odds Ratio M-H, Random, 95% CI
Dregan Chow 2015	6314	56242	33181	350661	50.1%	1.21 [1.18, 1.25]
Dunn 2005 Lithium	41	284	85	1080	0.0%	1.98 [1.33, 2.94]
Imfeld 2015 benzos	2412	26459	2374	26459	0.0%	1.02 [0.96, 1.08]
Imfeld 2016 influenza	1518	19463	1652	19463	0.0%	0.91 [0.85, 0.98]
Imfeld Pernus 2013	1119	11524	1051	11524	0.0%	1.07 [0.98, 1.17]
Jick 2000	710	9954	395	9374	0.0%	1.75 [1.54, 1.98]
Seshadri 2001	10	59	32	221	0.0%	1.21 [0.55, 2.62]
Walters 2016	1468	12172	154468	857334	49.9%	0.62 [0.59, 0.66]
Total (95% CI)		**68414**		**1207995**	**100.0%**	**0.87 [0.45, 1.67]**
Total events	7782		187649			

Heterogeneity: Tau² = 0.22; Chi² = 445.21, df = 1 (P < 0.00001); I² = 100%
Test for overall effect: Z = 0.42 (P = 0.67)

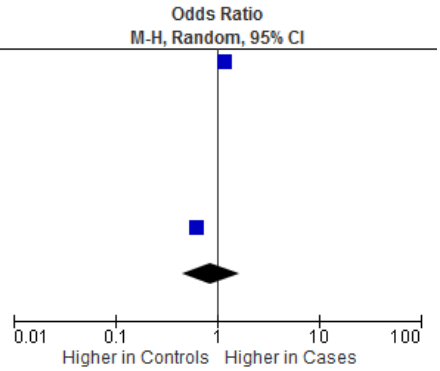

Figure 3: Forest plot of comparison: Depression, outcome: Dementia

Study or Subgroup	Cases Events	Cases Total	Control Events	Control Total	Weight	Odds Ratio M-H, Random, 95% CI
Buntinx 1996	8	137	481	18966	4.7%	2.38 [1.16, 4.90]
Burton 2013	41	400	67	1353	11.3%	2.19 [1.46, 3.29]
Dregan Chow 2015	14492	56242	61804	350661	33.3%	1.62 [1.59, 1.66]
Imfeld 2015 benzos	4668	26459	3491	26459	0.0%	1.41 [1.34, 1.48]
Imfeld 2016 influenza	3995	19463	2796	19463	0.0%	1.54 [1.46, 1.62]
Imfeld Pernus 2013	2648	11524	1716	11524	0.0%	1.71 [1.59, 1.82]
Koehler 2015	58	1680	950	34111	18.0%	1.25 [0.95, 1.63]
Seshadri 2001	0	0	0	0		Not estimable
Walters 2016	2536	13121	98129	917274	32.7%	2.00 [1.91, 2.09]
Total (95% CI)		**71580**		**1322365**	**100.0%**	**1.75 [1.48, 2.07]**
Total events	17135		161431			

Heterogeneity: Tau² = 0.02; Chi² = 78.93, df = 4 (P < 0.00001); I² = 95%
Test for overall effect: Z = 6.50 (P < 0.00001)

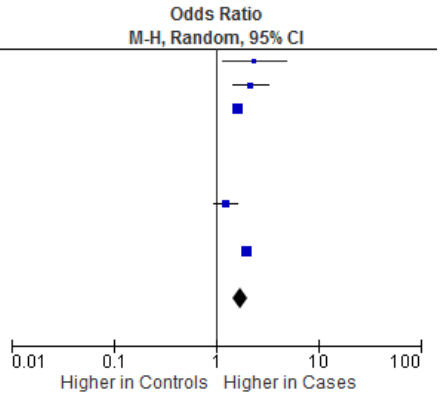

Figure 4: Forest plot of comparison: Coronary Heart Disease, outcome: Dementia

Study or Subgroup	Cases Events	Cases Total	Control Events	Control Total	Weight	Odds Ratio M-H, Random, 95% CI
Booker 2016	3575	11956	3288	11956	24.4%	1.12 [1.06, 1.19]
Burton 2013	68	400	249	1353	18.1%	0.91 [0.68, 1.22]
Davies 2011	3106	9197	12938	39166	0.0%	1.03 [0.99, 1.08]
Dregan Chow 2015	12087	56242	73387	350661	24.7%	1.03 [1.01, 1.06]
Imfeld Pernus 2013	2484	11524	2729	11524	0.0%	0.89 [0.83, 0.94]
Jick 2000	61	284	320	1080	0.0%	0.65 [0.48, 0.89]
Ramakers 2007	16	74	30	125	8.3%	0.87 [0.44, 1.74]
Seshadri 2001	6	59	20	221	0.0%	1.14 [0.44, 2.97]
Walters 2016	2545	13121	119053	917274	24.5%	1.61 [1.54, 1.69]
Total (95% CI)		**81793**		**1281369**	**100.0%**	**1.13 [0.89, 1.45]**
Total events	18291		196007			

Heterogeneity: Tau² = 0.06; Chi² = 322.56, df = 4 (P < 0.00001); I² = 99%
Test for overall effect: Z = 1.02 (P = 0.31)

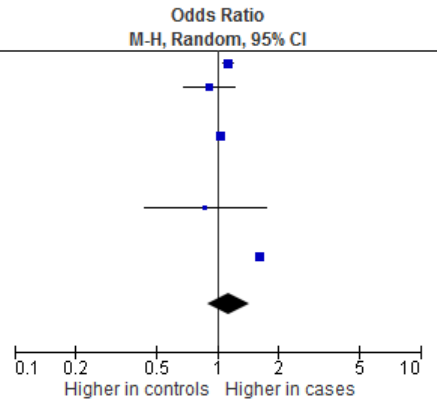

Figure 5: Forest plot of comparison: Hypertension, outcome: Dementia

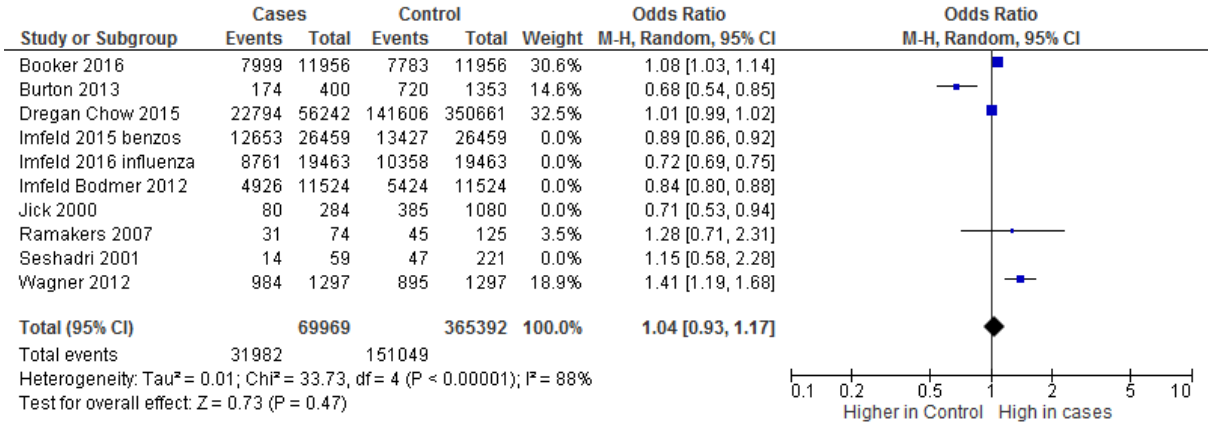

Figure 6: Forest plot of comparison: Dyslipidemia, outcome: Dementia

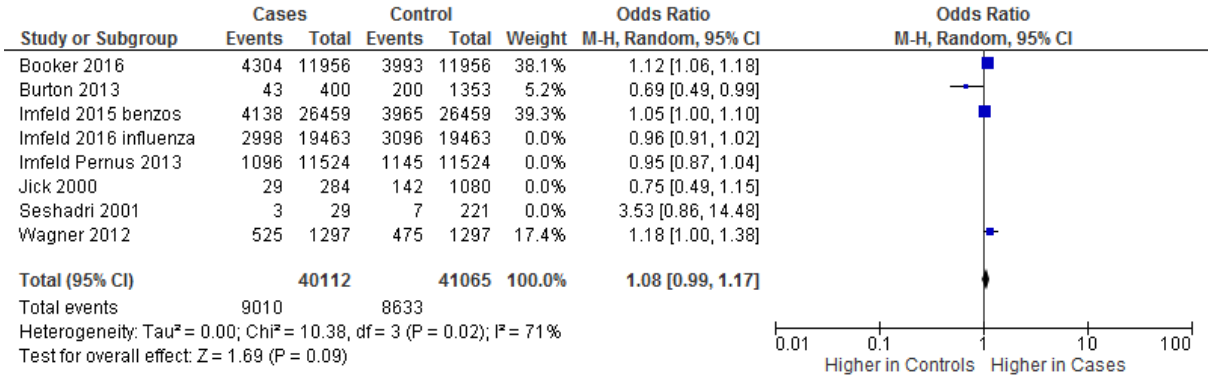

Figure 7: Forest plot of comparison: Atrial Fibrillation, outcome: Dementia

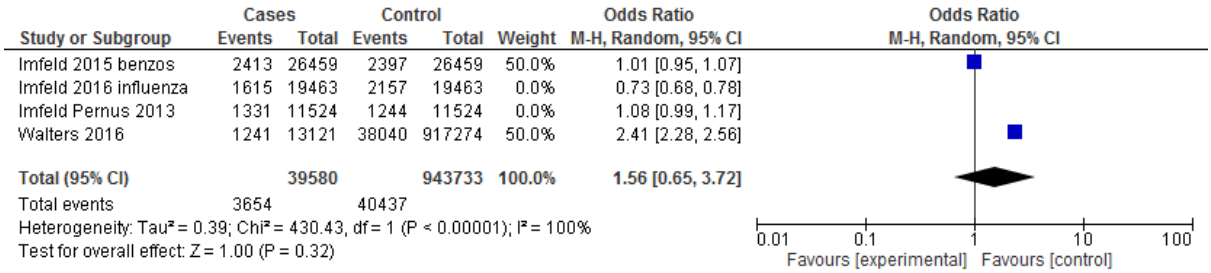

Figure 8: Forest plot of comparison: Heart Failure, outcome: Dementia

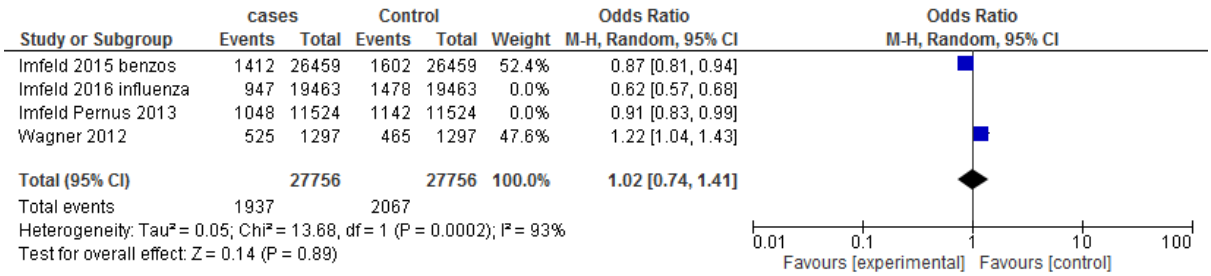

Figure 9: Forest plot of comparison: Diabetes, outcome: Dementia

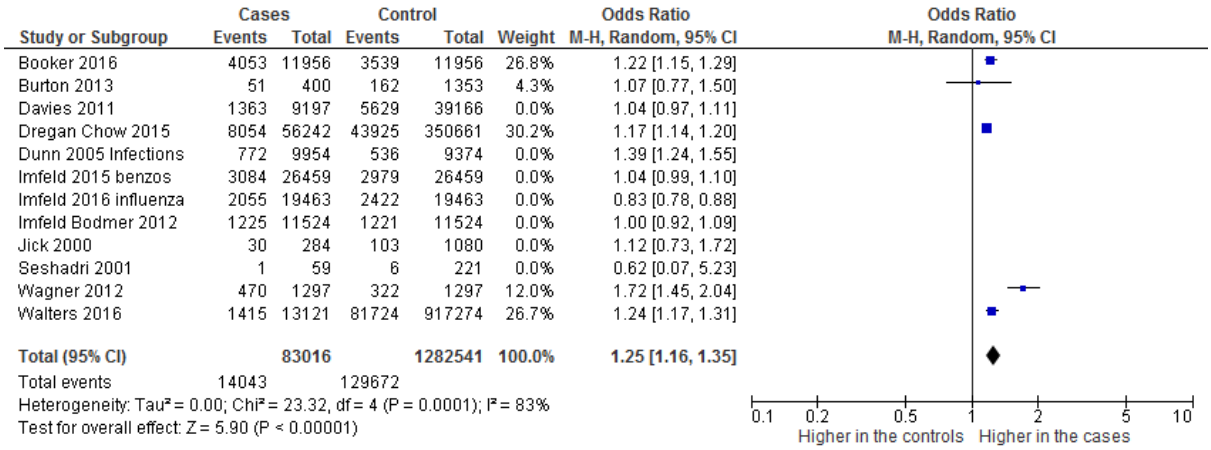

Figure 10: Forest plot of comparison: COPD, outcome: Dementia

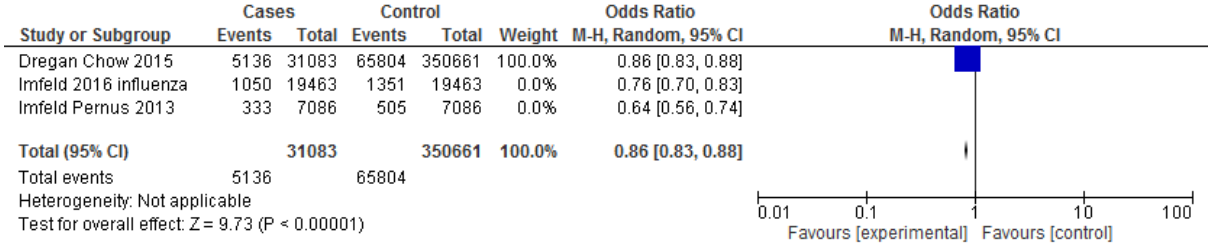

Figure 11: Forest plot of comparison: Inflammatory Conditions, outcome: Dementia

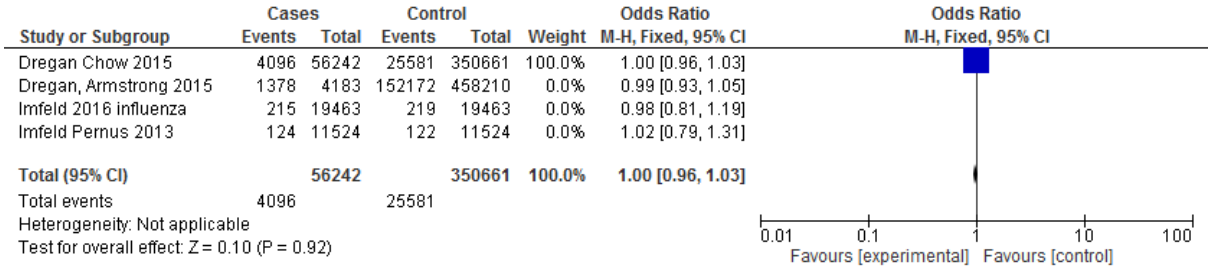
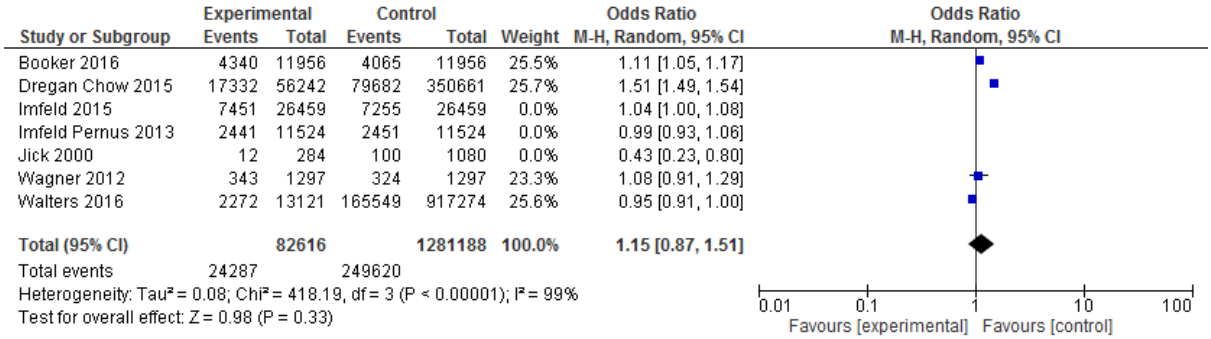
Figure 12: Forest plot of comparison: Statins, outcome: Dementia