Figure 1: Forest plot of comparison: Obesity, outcome: Dementia NOS
Figure 2: Forest plot of comparison: Obesity, outcome: Alzheimer's
Figure 3: Forest Plot of comparison: Smoker, outcome: Dementia NOS
Figure 4: Forest plot of comparison: Smoker, outcome: Alzheimer's
Figure 5: Forest plot of comparison: Depression, outcome: Dementia NOS
Figure 6: Forest plot of comparison: Depression, outcome: Alzheimer's
Figure 7: Forest plot of comparison: Ischaemic Heart Disease, outcome: Dementia NOS
Figure 8: Forest Plot of comparison: Hypertension, outcome: Dementia NOS
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Figure 10: Forest plot of comparison: Stroke, outcome: Dementia NOS
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Figure 17: Forest plot of comparison: Inflammatory conditions, incl bowel, outcome: Dementia NOS
Figure 18: Forest plot of comparison: Lipid lowering drugs + statins, outcome: Dementia NOS
Figure 19: Forest plot of comparison: Anti-hypertensive drugs, outcome: Dementia NOS

Figure 1: Forest plot of comparison: Obesity, outcome: Dementia NOS

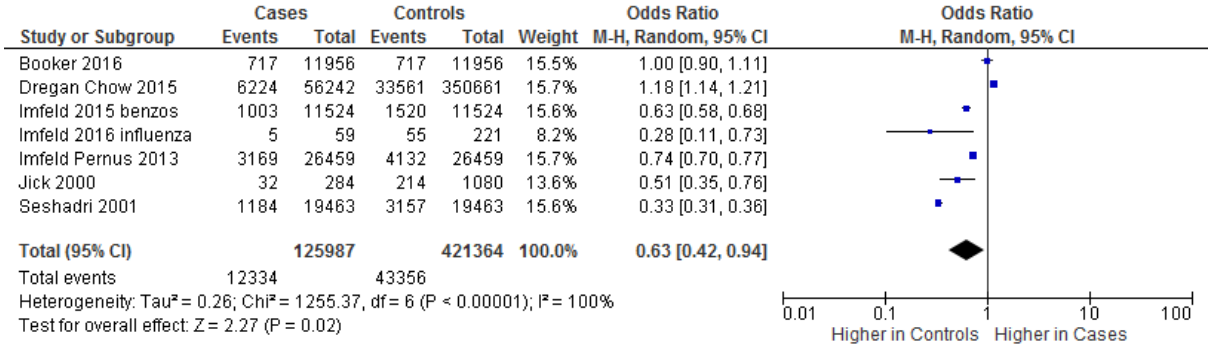

Figure 2: Forest plot of comparison: Obesity, outcome: Alzheimer's

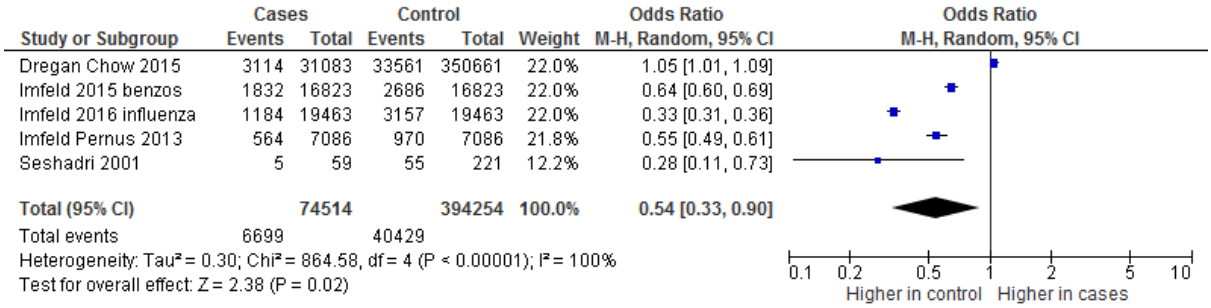

Figure 3: Forest Plot of comparison: Smoker, outcome: Dementia NOS

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	14.3%	1.21 [1.18, 1.25]
Dunn 2005 Lithium	41	284	85	1080	10.0%	1.98 [1.33, 2.94]
Imfeld 2015 benzos	2412	26459	2374	26459	14.2%	1.02 [0.96, 1.08]
Imfeld 2016 influenza	1518	19463	1652	19463	14.1%	0.91 [0.85, 0.98]
Imfeld Pernus 2013	1119	11524	1051	11524	14.0%	1.07 [0.98, 1.17]
Jick 2000	710	9954	395	9374	13.7%	1.75 [1.54, 1.98]
Seshadri 2001	10	59	32	221	5.4%	1.21 [0.55, 2.62]
Walters 2016	1468	12172	154468	857334	14.2%	0.62 [0.59, 0.66]
Total (95% CI)		**136157**		**1276116**	**100.0%**	**1.12 [0.89, 1.41]**
Total events	13592		193238			

Heterogeneity: Tau² = 0.09; Chi² = 531.42, df = 7 (P < 0.00001); I² = 99%
Test for overall effect: Z = 0.98 (P = 0.33)

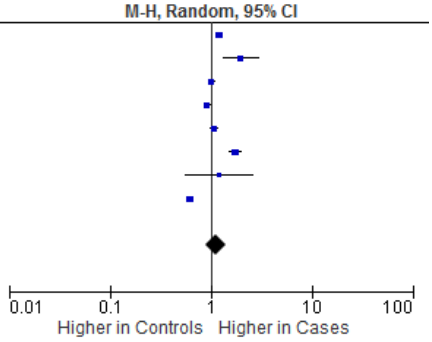

Figure 4: Forest plot of comparison: Smoker, outcome: Alzheimer's

Study or Subgroup	Cases Events	Cases Total	Control Events	Control Total	Weight	Odds Ratio M-H, Random, 95% CI
Dregan Chow 2015	3155	31083	33181	350661	26.3%	1.08 [1.04, 1.12]
Imfeld 2015 benzos	1349	16823	1546	16823	24.6%	0.86 [0.80, 0.93]
Imfeld 2016 influenza	1518	19463	1652	19463	24.8%	0.91 [0.85, 0.98]
Imfeld Pernus 2013	597	7086	669	7086	22.0%	0.88 [0.79, 0.99]
Seshadri 2001	10	59	32	221	2.4%	1.21 [0.55, 2.62]
Total (95% CI)		**74514**		**394254**	**100.0%**	**0.94 [0.83, 1.07]**
Total events	6629		37080			

Heterogeneity: Tau² = 0.02; Chi² = 41.21, df = 4 (P < 0.00001); I² = 90%
Test for overall effect: Z = 0.97 (P = 0.33)

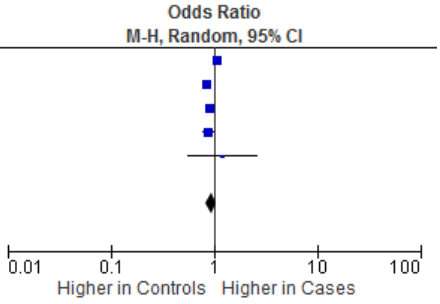

Figure 5: Forest plot of comparison: Depression, outcome: Dementia NOS

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	1.7%	2.38 [1.16, 4.90]
Burton 2013	41	400	67	1353	4.4%	2.19 [1.46, 3.29]
Dregan Chow 2015	14492	56242	61804	350661	17.8%	1.62 [1.59, 1.66]
Imfeld 2015 benzos	4668	26459	3491	26459	17.3%	1.41 [1.34, 1.48]
Imfeld 2016 influenza	3995	19463	2796	19463	17.1%	1.54 [1.46, 1.62]
Imfeld Pernus 2013	2648	11524	1716	11524	16.6%	1.71 [1.59, 1.82]
Koehler 2015	58	1680	950	34111	7.7%	1.25 [0.95, 1.63]
Seshadri 2001	0	0	0	0		Not estimable
Walters 2016	2536	13121	98129	917274	17.4%	2.00 [1.91, 2.09]
Total (95% CI)		**129026**		**1379811**	**100.0%**	**1.64 [1.49, 1.81]**
Total events	28446		169434			

Heterogeneity: Tau² = 0.01; Chi² = 132.83, df = 7 (P < 0.00001); I² = 95%
Test for overall effect: Z = 9.84 (P < 0.00001)

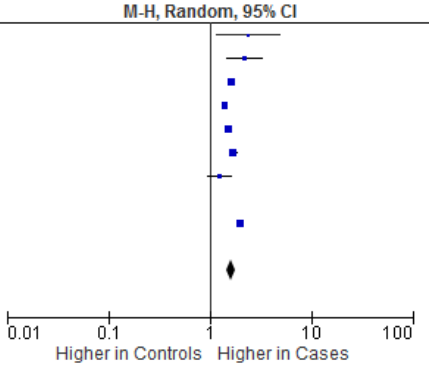

Figure 6: Forest plot of comparison: Depression, outcome: Alzheimer's

Study or Subgroup	Cases Events	Cases Total	Control Events	Control Total	Weight	Odds Ratio M-H, Random, 95% CI
Dregan Chow 2015	7567	31083	61804	350661	27.6%	1.50 [1.46, 1.55]
Imfeld 2015 benzos	2970	16823	2301	16823	25.0%	1.35 [1.28, 1.44]
Imfeld 2016 influenza	3995	19463	2796	19463	25.6%	1.54 [1.46, 1.62]
Imfeld Pernus 2013	1257	7086	1080	7086	21.8%	1.20 [1.10, 1.31]
Total (95% CI)		**74455**		**394033**	**100.0%**	**1.40 [1.29, 1.53]**
Total events	15789		67981			

Heterogeneity: Tau² = 0.01; Chi² = 33.26, df = 3 (P < 0.00001); I² = 91%
Test for overall effect: Z = 7.67 (P < 0.00001)

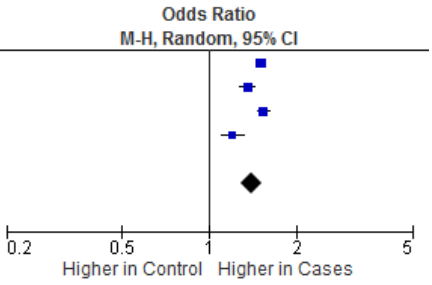

Figure 7: Forest plot of comparison: Ischaemic Heart Disease, outcome: Dementia NOS

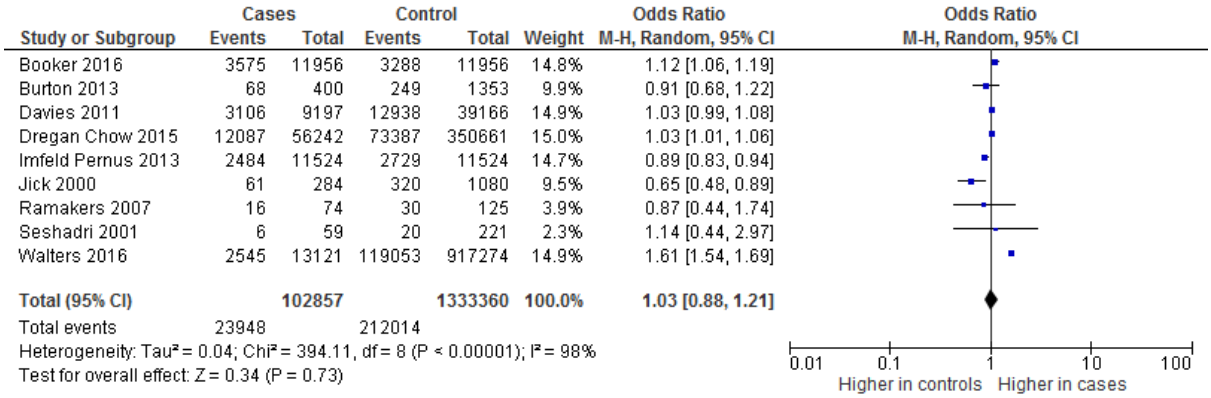

Figure 8: Forest Plot of comparison: Hypertension, outcome: Dementia NOS

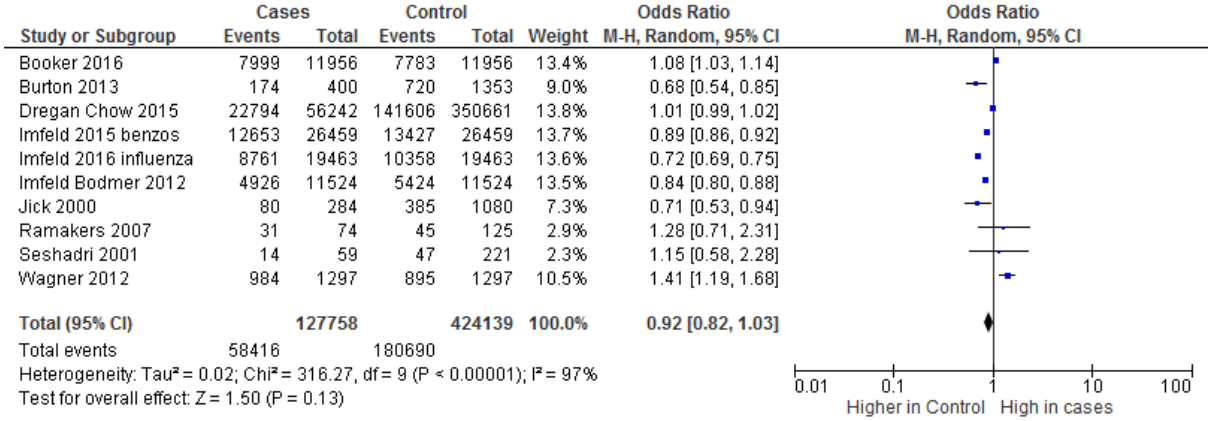

Figure 9: Forest plot of comparison: Hypertension, outcome: Alzheimer's

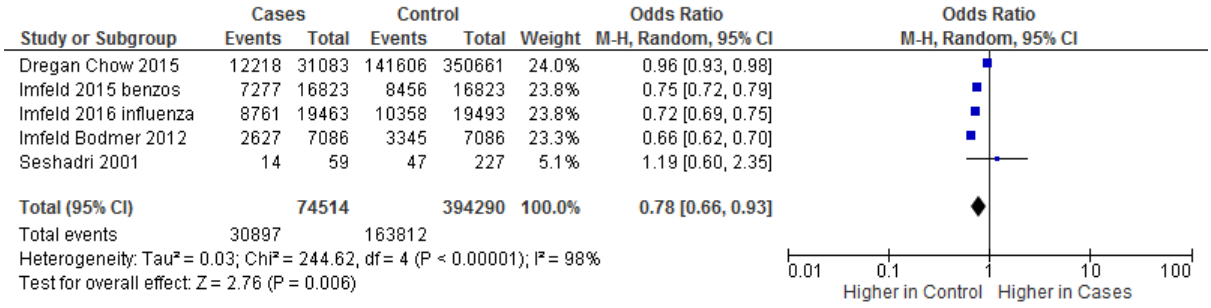

Figure 10: Forest plot of comparison: Stroke, outcome: Dementia NOS

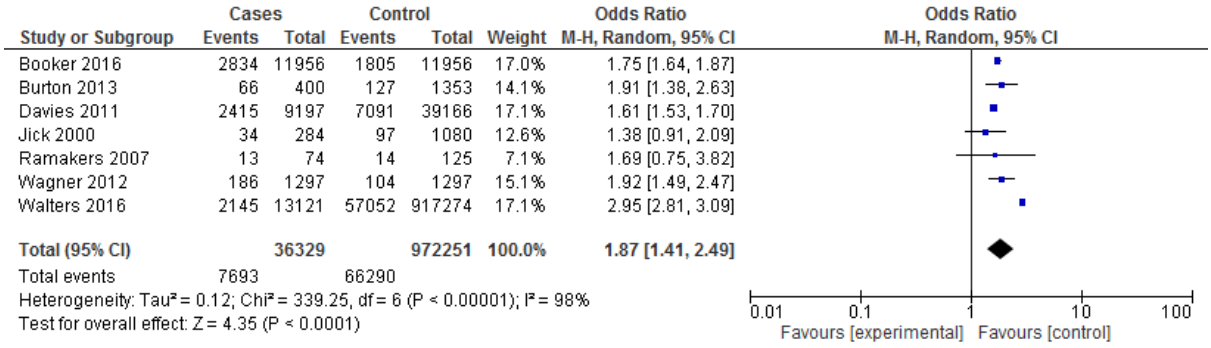

Figure 11: Forest plot of comparison: Dyslipidaemia, outcome: Dementia NOS

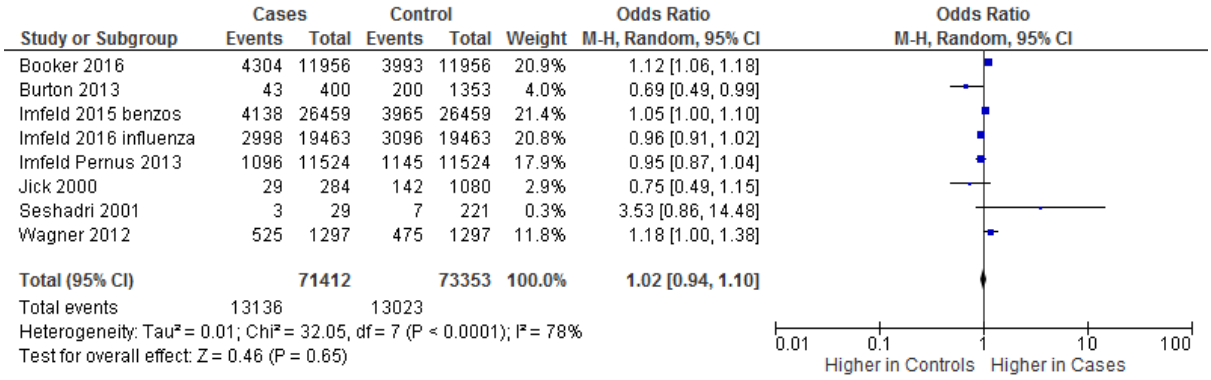

Figure 12: Forest plot of comparison: Dyslipidaemia, outcome: Alzheimer's NOS

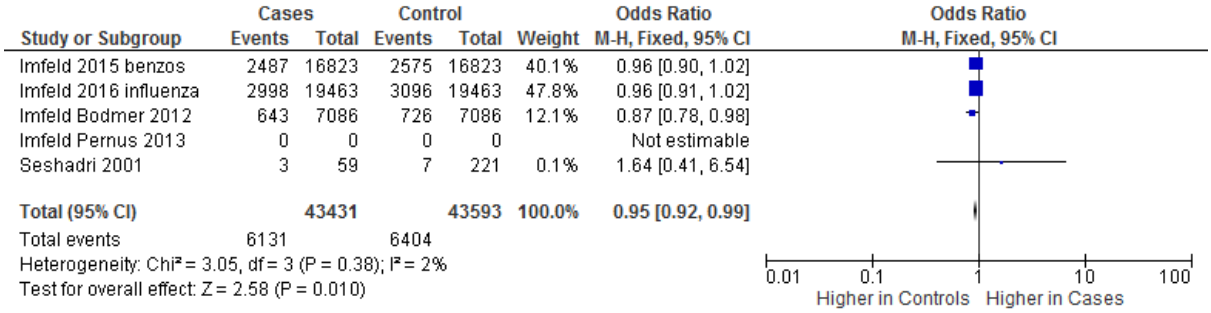

Figure 13: Forest plot of comparison: Atrial Fibrillation, outcome: Dementia NOS

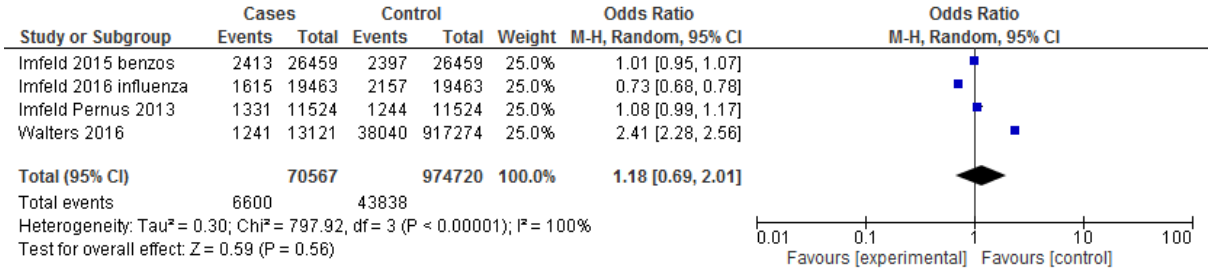

Figure 14: Forest plot of comparison: Heart Failure, outcome: Dementia NOS

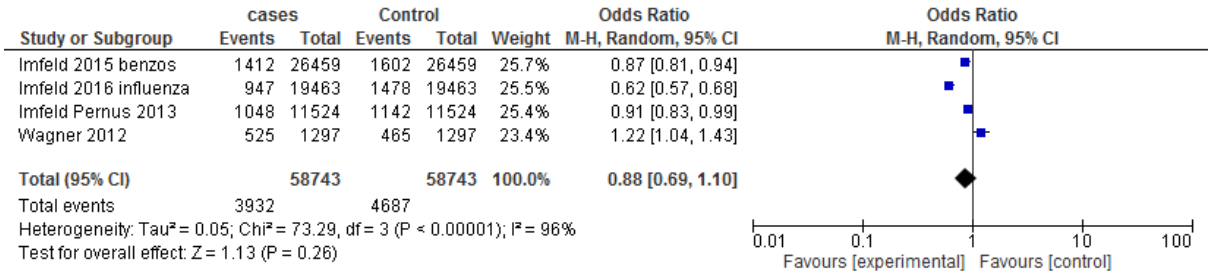

Figure 15: Forest plot of comparison: Diabetes, outcome: Dementia NOS.

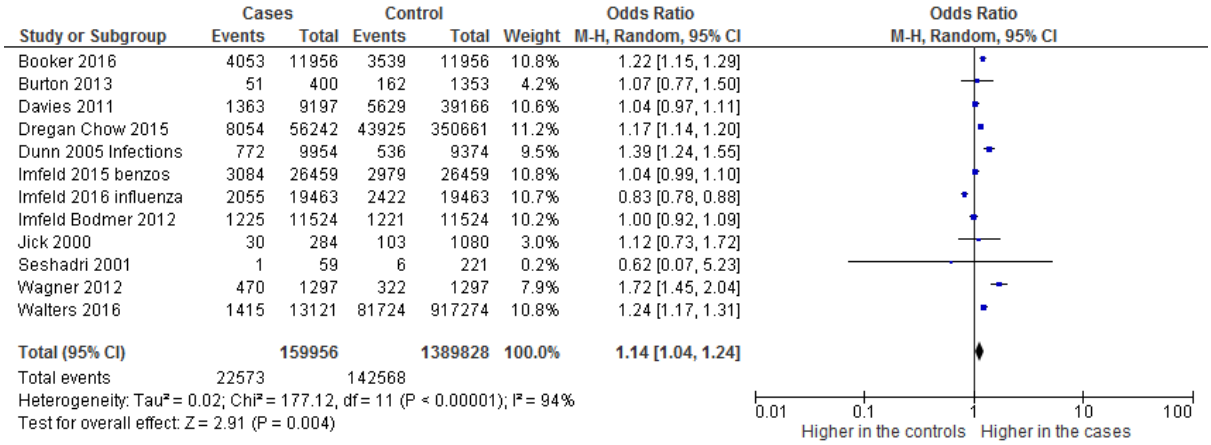

Figure 16: Forest plot of comparison: Diabetes, outcome: Alzheimer's

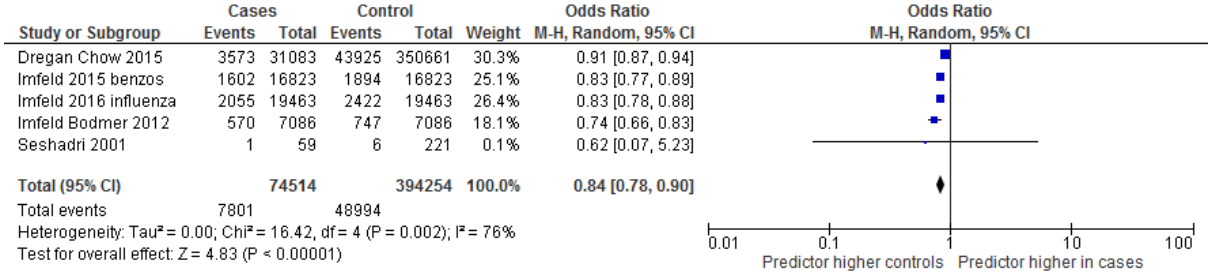

Figure 17: Forest plot of comparison: Inflammatory conditions, incl bowel, outcome: Dementia NOS

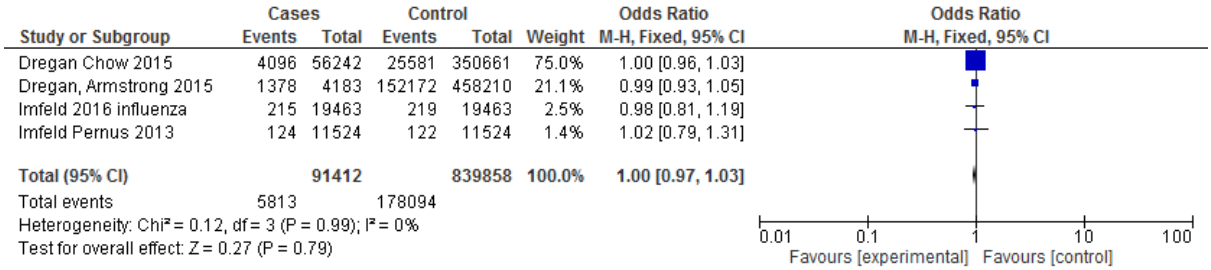

Figure 18: Forest plot of comparison: Lipid lowering drugs + statins, outcome: Dementia NOS

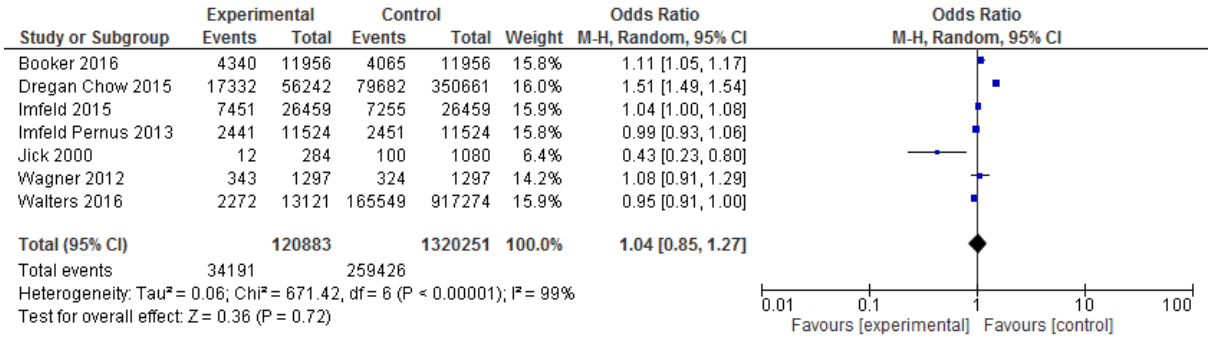
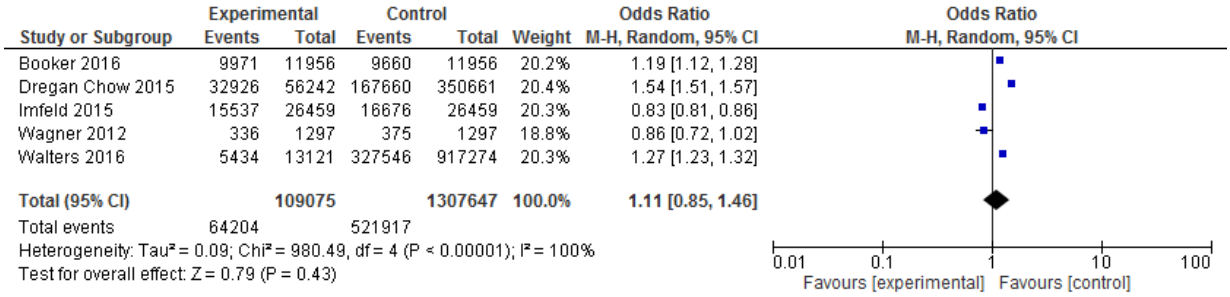
Figure 19: Forest plot of comparison: Anti-hypertensive drugs, outcome: Dementia NOS