

## Electronic Supplementary Material

### TABLES:

**ESM Table 1.** Cameron and Trivedi test for over-dispersion

Coronary Heart Disease Type	Dispersion value	Z statistic	P-value
Acute myocardial infarction	1.34	25.08	<0.001
Angina	1.18	14.14	<0.001
Revascularisation	1.59	41.85	<0.001

**ESM Table 2:** Interaction coefficients for negative binomial models, adjusted for age, sex, diabetes status, deprivation and calendar year

CHD Type	Interaction term	Relative risk [95% CI]	P-value
<b>Myocardial Infarction</b>	Diabetes Type X Age	0.99 [0.98, 0.99]	<0.001
	Diabetes Type X Deprivation	1.00 [1.00, 1.01]	0.26
	Diabetes Type X Year	1.01 [1.00, 1.01]	<0.01
	Diabetes Type X Sex	1.29 [1.25, 1.33]	<0.001
	Age X Deprivation	1.00 [1.00, 1.00]	<0.001
	Age X Year	1.00 [1.00, 1.00]	<0.001
	Age X Sex	1.02 [1.02, 1.02]	<0.001
	Deprivation X Year	1.00 [1.00, 1.00]	0.99
	Deprivation X Sex	0.98 [0.97, 0.98]	<0.001
	Year X Sex	1.00 [1.00, 1.01]	0.39
<b>Angina</b>	Diabetes Type X Age	0.97 [0.97, 0.97]	<0.001
	Diabetes Type X Deprivation	1.00 [0.99, 1.01]	0.43
	Diabetes Type X Year	1.01 [1.00, 1.02]	<0.01
	Diabetes Type X Sex	1.15 [1.09, 1.22]	<0.001
	Age X Deprivation	1.00 [1.00, 1.00]	<0.001
	Age X Year	1.00 [1.00, 1.00]	0.45
	Age X Sex	1.01 [1.00, 1.01]	<0.001
	Deprivation X Year	1.00 [1.00, 1.00]	0.84
	Deprivation X Sex	0.97 [0.97, 0.98]	<0.001
	Year X Sex	1.00 [0.99, 1.01]	0.88
<b>Revascularisation</b>	Diabetes Type X Age	0.96 [0.96, 0.97]	<0.001
	Diabetes Type X Deprivation	1.01 [1.00, 1.02]	<0.01
	Diabetes Type X Year	1.00 [0.99, 1.01]	0.96
	Diabetes Type X Sex	1.41 [1.34, 1.49]	<0.001
	Age X Deprivation	1.00 [1.00, 1.00]	<0.001

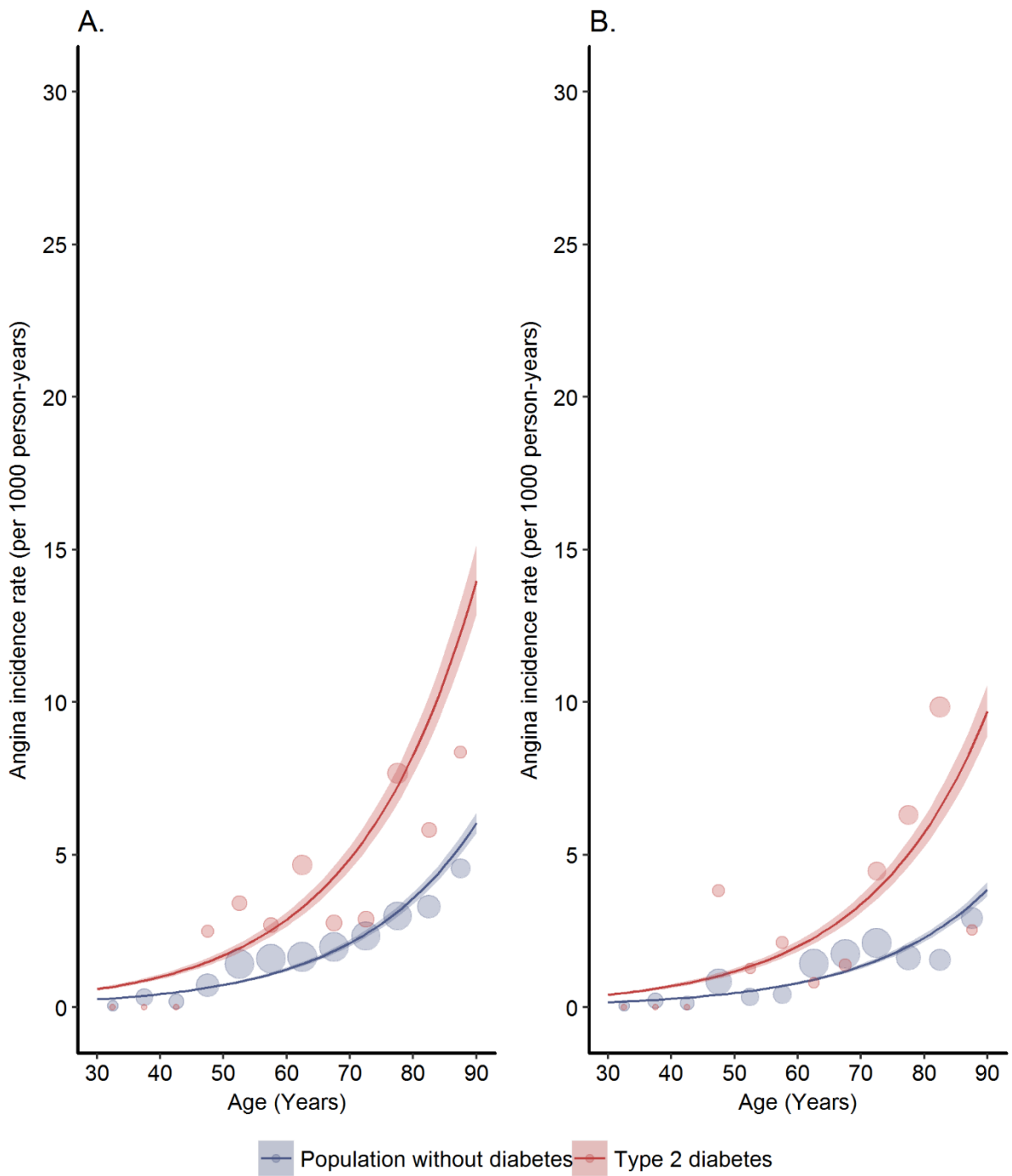
Age X Year	1.00 [1.00, 1.00]	0.12
Age X Sex	1.01 [1.01, 1.01]	<0.001
Deprivation X Year	1.00 [1.00, 1.00]	0.14
Deprivation X Sex	0.95 [0.94, 0.96]	<0.001
Year X Sex	1.00 [0.99, 1.01]	0.67

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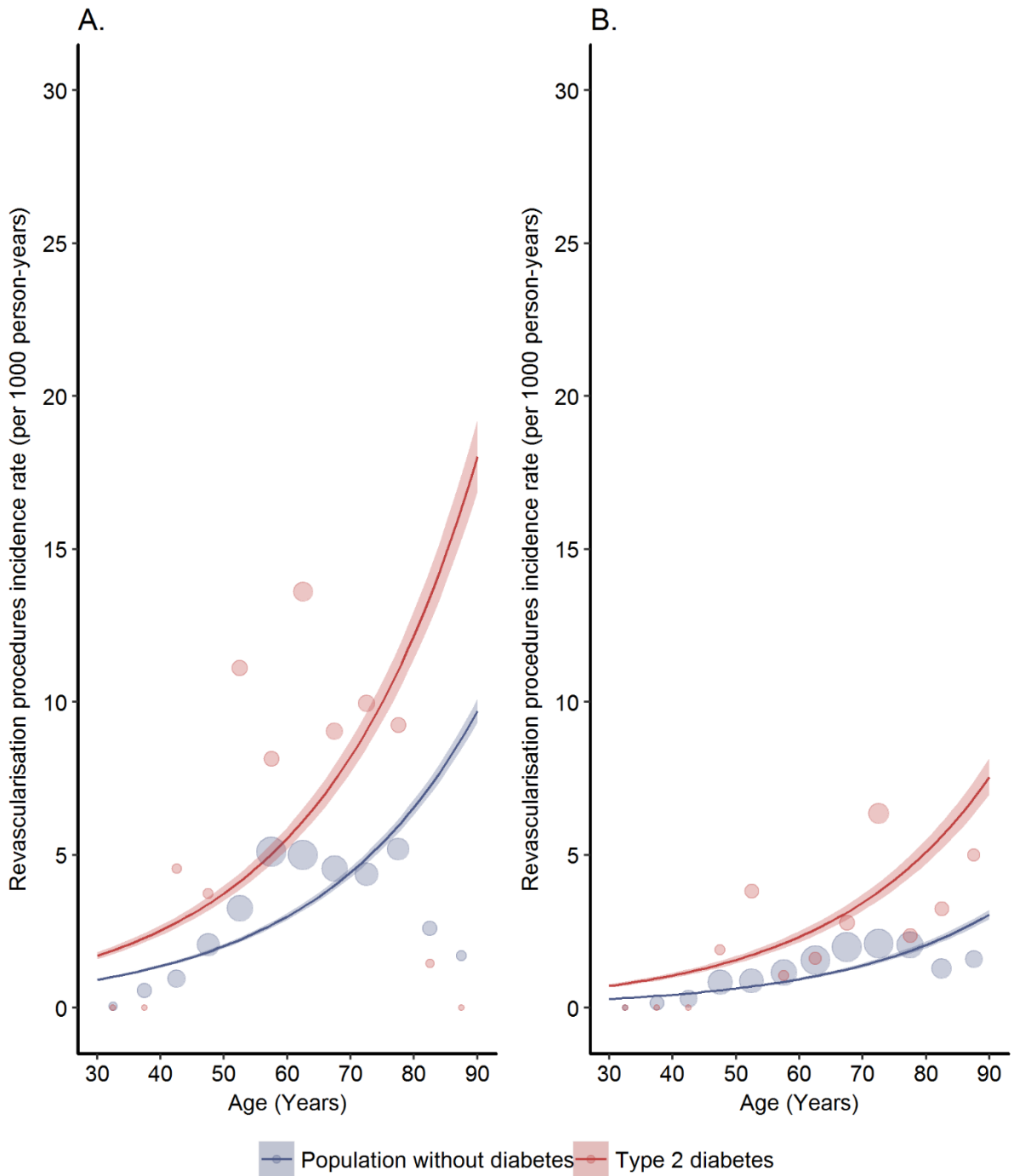
**ESM Table 3.** Total number of coronary heart disease events and person-time by calendar year, sex and diabetes (events/person-time (1000s)).

CHD Type	Sex	Diabetes status	Overall	Total hosp person-time(10 00s)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Myocardial infarction	M	No DM	65611	15579	6487/1507	6479/1520	6532/1531	6563/1541	6936/1552	6797/1567	6787/1575	6514/1584	6290/1595	6226/1604
	M	T2DM	15093	1146	1218/90	1317/96	1343/101	1488/107	1597/113	1545/117	1676/123	1614/128	1568/132	1727/136
	F	No DM	39925	17260	4398/1693	4092/1702	4126/1707	4123/1713	4184/1719	4030/1728	4101/1735	3774/1743	3616/1753	3481/1762
	F	T2DM	9297	929	875/76	778/80	847/84	924/88	948/92	999/95	955/98	1026/101	934/104	1011/106
Angina	M	No DM	18584	15603	2440/1509	2619/1522	2534/1533	2123/1543	1854/1555	1465/1570	1435/1578	1429/1587	1378/1597	1307/1606
	M	T2DM	4725	1152	531/90	572/96	560/101	468/107	505/113	384/118	378/123	445/129	426/134	456/137
	F	No DM	14809	17273	2002/1695	2064/1703	2081/1708	1664/1714	1444/1720	1153/1730	1158/1737	1157/1744	1099/1754	987/1763
	F	T2DM	3145	930	361/76	385/80	397/84	369/88	319/92	283/95	236/98	282/102	250/104	263/106
Revascularisation	M	No DM	42497	15591	4065/1508	4197/1521	4007/1532	4070/1542	4255/1553	4286/1569	4395/1576	4497/1585	4424/1595	4301/1605
	M	T2DM	8382	1138	685/90	763/96	723/101	783/106	818/112	828/117	903/121	912/126	969/131	998/134
	F	No DM	15770	17272	1572/1695	1635/1703	1544/1709	1479/1714	1546/1720	1574/1730	1617/1737	1628/1744	1628/1754	1547/1763
	F	T2DM	3226	930	295/76	268/80	258/84	337/88	316/92	338/95	287/98	361/101	376/104	390/106

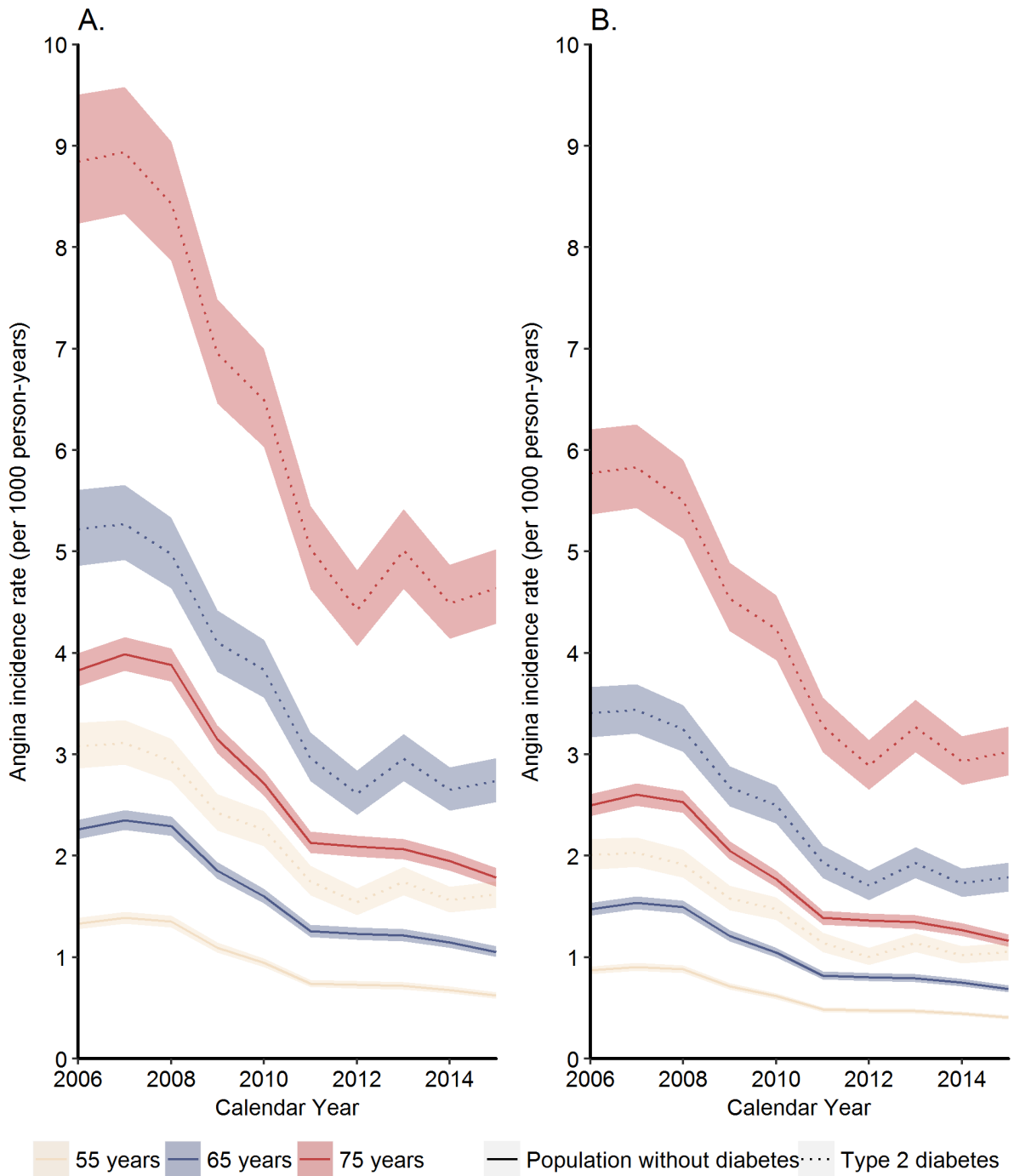
M: Male, F: Females. No DM: No diabetes, T2DM: Type 2 diabetes



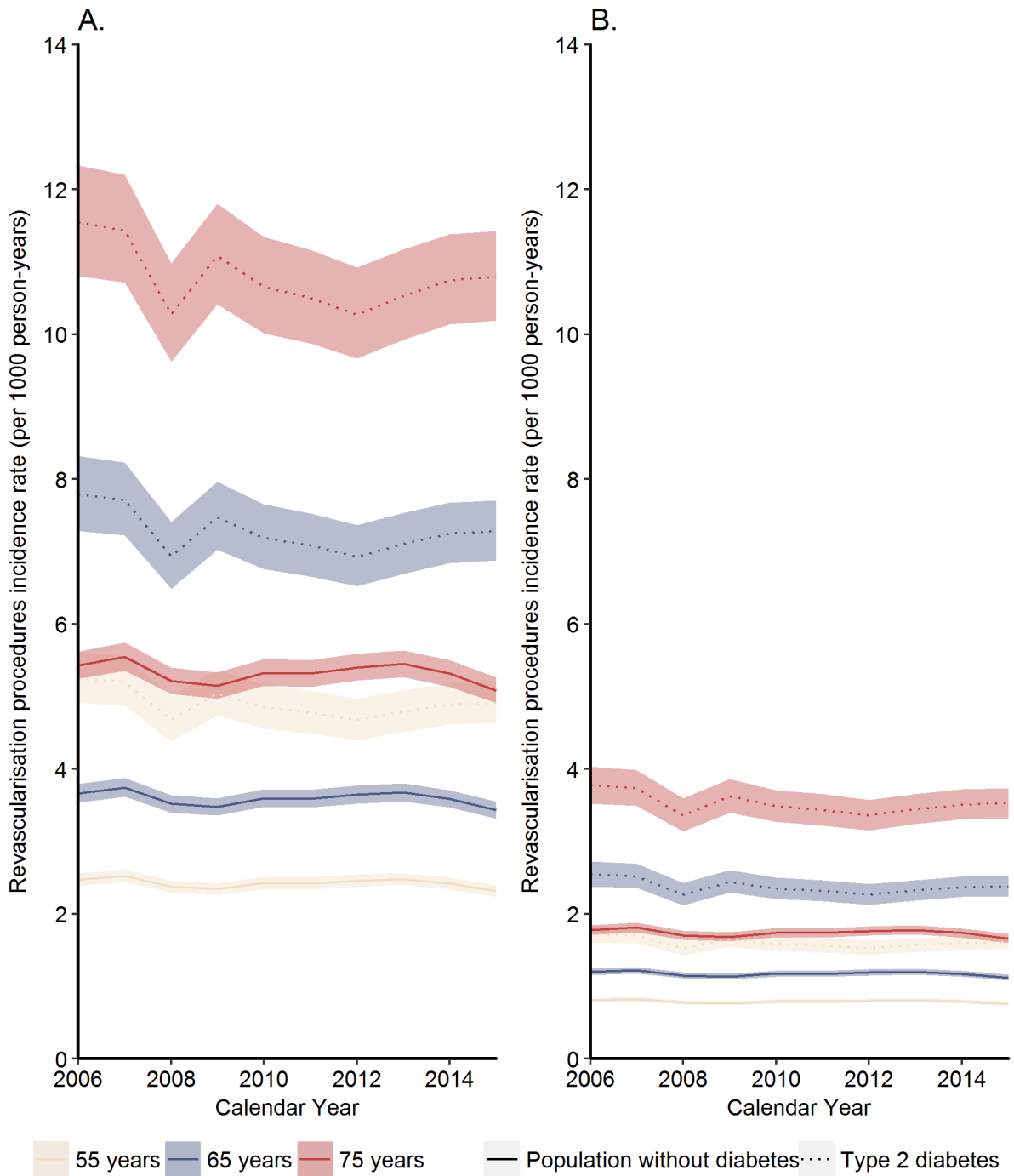
**ESM Fig. 1.** Incidence of angina by diabetes status and age for **A.** Men and **B.** Women. *Graph illustrates rates for people in deprivation decile 5 in the year 2010. Model adjusted for age, sex, diabetes status, deprivation and calendar year. The shading shows 95% CIs.*



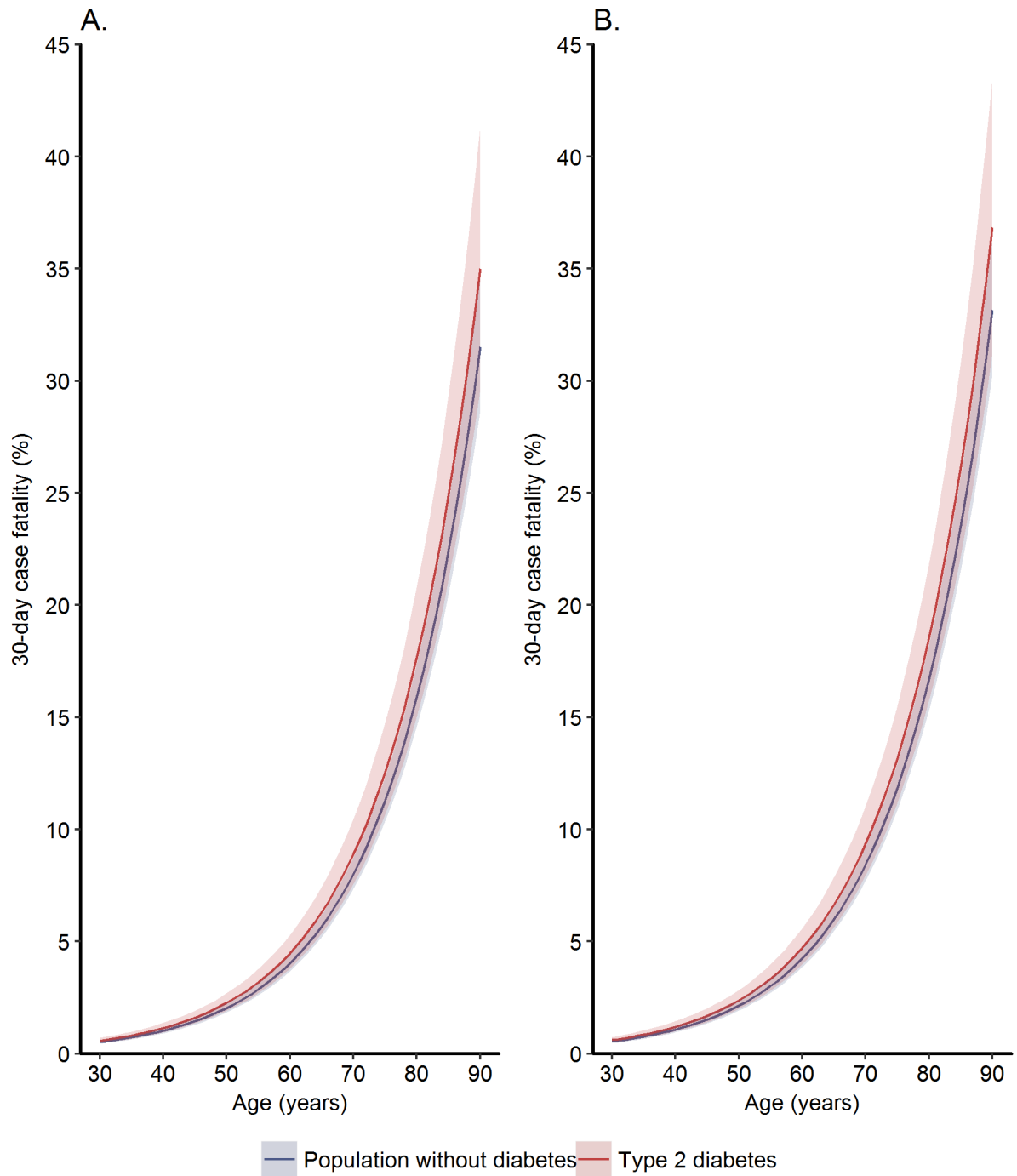
**ESM Fig. 2.** Incidence of revascularisation procedures by diabetes status and age for **A.** Men and **B.** Women. Graph illustrates rates for people in deprivation decile 5 in the year 2010. Model adjusted for age, sex, diabetes status, deprivation and calendar year. The shading shows 95% CIs.



**ESM Fig. 3.** Incidence of angina by diabetes status and year for **A.** Men and **B.** Women. Graph illustrates rates for people aged 55, 65 and 75 years and in deprivation decile 5. Model adjusted for age, sex, diabetes status, deprivation, calendar year and interaction terms between sex and diabetes status, deprivation and diabetes status, diabetes status and year. The shading shows 95% CIs.



**ESM Fig. 4.** Incidence of revascularisation procedures by diabetes status, sex and year for **A.** Men and **B.** Women. *Graph illustrates rates for people aged 55, 65 and 75 years and in deprivation decile 5. Model adjusted for age, sex, diabetes status, deprivation, calendar year and interaction terms between sex and diabetes status, deprivation and diabetes status, diabetes status and year. The shading shows 95% CIs.*



**ESM Fig. 5.** Case-fatality within 30 days of hospital admission following myocardial infarction by age, sex and diabetes status for **A.** Men and **B.** Women. Model adjusted for age, sex, diabetes status, deprivation, calendar year. The shading shows 95% CIs.