

**S2 Table. The effect of comorbidity on the occurrence of depression and/or angina in GS: SFHS overall and stratified according to gender.**

Exposure	Outcome	Group	Unadjusted		Adjusted	
			N	OR [95% CI]	N	OR [95% CI]
<b>Depression in the presence of chronic pain</b>						
Chronic Pain	Depression	Overall <sup>†</sup>	13,376	2.80 <sup>a</sup> [2.52 to 3.11]	11,679	2.62 <sup>a</sup> [2.32 to 2.96]
		Females only <sup>‡</sup>	7,845	2.57 <sup>a</sup> [2.27 to 2.91]	6,832	2.63 <sup>a</sup> [2.28 to 3.03]
		Males only <sup>‡</sup>	5,531	2.71 <sup>a</sup> [2.21 to 3.32]	4,847	2.58 <sup>a</sup> [2.04 to 3.25]
<b>Depression in the presence of angina</b>						
Angina	Depression	Overall <sup>†</sup>	16,224	2.18 <sup>a</sup> [1.92 to 2.47]	14,121	2.10 <sup>a</sup> [1.82 to 2.43]
		Females only <sup>‡</sup>	9,669	2.13 <sup>a</sup> [1.82 to 2.48]	8,379	2.05 <sup>a</sup> [1.72 to 2.45]
		Males only <sup>‡</sup>	6,555	2.43 <sup>a</sup> [1.94 to 3.03]	5,742	2.20 <sup>a,d</sup> [1.71 to 2.84]
<b>Depression in the presence of chronic pain and angina</b>						
Chronic pain and angina	Depression	Overall <sup>†</sup>	9,461	4.36 <sup>a</sup> [3.58 to 5.30]	8,297	3.78 <sup>a</sup> [2.99 to 4.78]
		Females only <sup>‡</sup>	5,480	3.91 <sup>a</sup> [3.10 to 4.91]	4,805	3.76 <sup>a,b</sup> [2.87 to 4.94]
		Males only <sup>‡</sup>	3,981	4.77 <sup>a</sup> [3.26 to 6.97]	3,492	3.86 <sup>a,c</sup> [2.49 to 5.99]
<b>Angina in the presence of chronic pain</b>						
Chronic pain	Angina	Overall <sup>†</sup>	14,564	5.45 <sup>a</sup> [4.84 to 6.14]	11,973	4.23 <sup>a</sup> [3.67 to 4.86]
		Females only <sup>‡</sup>	8,720	6.13 <sup>a</sup> [5.26 to 7.16]	7,193	4.97 <sup>a</sup> [4.16 to 5.95]
		Males only <sup>‡</sup>	5,844	4.93 <sup>a</sup> [4.06 to 5.99]	4,780	3.31 <sup>a,e</sup> [2.63 to 4.17]
<b>Angina in the presence of depression</b>						
Depression	Angina	Overall <sup>†</sup>	16,224	2.18 <sup>a</sup> [1.92 to 2.47]	14,121	2.20 <sup>a</sup> [1.90 to 2.54]
		Females only <sup>‡</sup>	9,669	2.13 <sup>a</sup> [1.82 to 2.48]	8,379	2.11 <sup>a</sup> [1.77 to 2.52]
		Males only <sup>‡</sup>	6,555	2.43 <sup>a</sup> [1.94 to 3.03]	5,742	2.37 <sup>a,f</sup> [1.83 to 3.06]
<b>Angina in the presence of chronic pain and depression</b>						
Chronic pain and depression	Angina	Overall <sup>†</sup>	9,003	9.15 <sup>a</sup> [7.43 to 11.26]	7,919	7.76 <sup>a</sup> [6.05 to 9.95]
		Females only <sup>‡</sup>	5,120	10.19 <sup>a</sup> [7.91 to 13.12]	4,506	7.77 <sup>a</sup> [5.79 to 10.42]

		Males only <sup>‡</sup>	3,883	9.85 <sup>a</sup> [6.52 to 14.88]	3,413	8.45 <sup>a, g</sup> [5.25 to 13.59]
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<sup>†</sup>valid data adjusted for age, gender, education, SIMD and smoking status; overall results are also reported in Table 3; <sup>‡</sup>valid data adjusted for age, education, SIMD and smoking status;

a= p<0.001; b = Variable removed from model, SIMD P=0.62; c= Variable removed from model, Age P=0.21; d = Variable removed from model: education P=0.18; e = Variable removed from model: education P=0.80; f= Variable removed from model: education P=0.12; g = Variables removed from model: SIMD P=0.45 and Education P=0.30