

**Additional file 5. Example of confusion matrix for true and estimated cause classifications.**

Predicted cause:	Angina pectoris	Osteoarthritis	Rheumatoid arthritis	Asthma	Cataracts	COPD	Cirrhosis	Depression	Hearing loss	Vision loss	Control	Total
<b>True cause:</b>												
Angina pectoris	24	1	0	0	0	0	0	0	1	0	1	27
Osteoarthritis	2	8	6	0	4	0	0	1	2	0	1	24
Rheumatoid arthritis	1	4	19	0	1	0	1	2	0	0	0	28
Asthma	0	1	0	15	0	1	0	0	1	0	0	18
Cataracts	1	1	0	0	10	4	1	2	1	5	2	27
COPD	1	0	0	1	1	2	0	0	0	0	0	5
Cirrhosis	0	0	0	0	0	0	20	0	0	2	1	23
Depression	0	0	0	0	0	0	0	11	0	1	0	12
Hearing loss	0	0	0	0	0	0	0	5	5	0	2	12
Vision loss	3	0	0	0	8	0	1	1	3	8	0	24
Control	2	0	0	3	1	0	0	3	21	0	20	50
<b>Total</b>	<b>34</b>	<b>15</b>	<b>25</b>	<b>19</b>	<b>25</b>	<b>7</b>	<b>23</b>	<b>25</b>	<b>34</b>	<b>16</b>	<b>27</b>	<b>250</b>