

Physical inactivity attributable burden of disease on morbidity and mortality across Swiss language regions: a population-based modelling study

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Appendix

Search strategy for RR

Supplementary Table 1: Search strings: 1 AND 2 AND 3

Search terms	
1	("Risk"[Mesh] OR Risks OR Risk OR "relative risk" OR "relative risks" OR "Odds Ratio"[Mesh] OR "Risk Ratio" OR "Risk Ratios" OR "RR" OR "PAF" OR "population attributable fraction")
2	(Exercise[Mesh] OR exercis*[Title/Abstract] OR "physical activit*" [Title/Abstract] OR training[Title/Abstract] OR sport[Title/Abstract] OR sports[Title/Abstract] OR "physical inactivity"[Title/Abstract] OR "Physical Fitness"[Mesh])
3	1. ("Dementia"[Mesh] OR "Dementia"), 2. ("Alzheimer Disease"[Mesh] OR "Alzheimer Disease" OR "Alzheimer's Disease" OR "Alzheimer Dementia"), 3. ("Breast Neoplasms"[Mesh] OR "Breast Cancer" OR "Breast Tumor" OR "Mammary Neoplasms" OR "Mammary Cancer" OR "Mammary Tumor" OR "Breast Carcinoma" OR "Mammary Carcinoma" OR "Breast Malignancy" OR "Mammary Malignancy" OR "Breast Oncology" OR "Mammary Oncology"), 4. ("Colonic Neoplasms"[Mesh] OR "Colorectal Neoplasms"[Mesh] OR "Colon Cancer" OR "Colorectal Cancer" OR "Colonic Cancer" OR "Colon Tumor" OR "Colorectal Tumor" OR "Colonic Tumor" OR "Colon Carcinoma" OR "Colorectal Carcinoma" OR "Colonic Carcinoma" OR "Colon Malignancy" OR "Colorectal Malignancy" OR "Colonic Malignancy"), 5. ("Coronary Heart Disease" OR "CHD" OR "Coronary Disease" OR "Myocardial Ischemia"[Mesh] OR "Ischemic Heart Disease" OR "Coronary Artery Disease"[MeSH] OR "Coronary Artery Disease"), 6. ("Depression"[MeSH] OR "Depression" OR "Depressive Disorder"[MeSH] OR "Depressive Disorder" OR "MDD"), 7. ("Diabetes Mellitus, Type 2"[MeSH]), 8. ("Endometrial Neoplasms"[Mesh] OR "Endometrial Cancer" OR "Uterine Cancer" OR "Uterine Carcinoma" OR "Endometrial Carcinoma" OR "Uterine Malignancy" OR "Endometrial Malignancy"), 9. ("Stomach Neoplasms"[Mesh] OR "Gastric Neoplasms" OR "Stomach Cancer" OR "Gastric Cancer" OR "Stomach Carcinoma" OR "Gastric Carcinoma" OR "Stomach Malignancy" OR "Gastric Malignancy"), 10. ("Heart Failure"[Mesh] OR "Heart Failure" OR "Cardiac Failure" OR "Congestive Heart Failure" OR "CHF"), 11. ("Liver Neoplasms"[Mesh] OR "Hepatic Neoplasms" OR "Liver Cancer" OR "Hepatic Cancer" OR "Hepatocellular Carcinoma" OR "Liver Carcinoma" OR "Hepatic Carcinoma"), 12. ("Low Back Pain"[MeSH] OR "Low Back Pain" OR "Lumbago" OR "Lumbar Pain" OR "Lower Back Pain" OR "Lumbar Spine Pain" OR "LBP" OR "Back Pain"[Mesh]), 13. ("Lung Neoplasms"[Mesh] OR "Lung Cancer" OR "Pulmonary Neoplasms" OR "Pulmonary Cancer" OR "Lung Carcinoma" OR "Pulmonary Carcinoma" OR "Bronchogenic Carcinoma"), 14. ("Myeloid Leukemia"[Mesh] OR "Myeloid Leukaemia" OR "Leukemia, Myeloid" OR "Leukaemia, Myeloid" OR "Myelogenous Leukemia" OR "Myelogenous Leukaemia" OR "Granulocytic Leukemia" OR "Granulocytic Leukaemia"), 15. ("Multiple Myeloma"[Mesh] OR "Multiple Myeloma" OR "Plasma Cell Myeloma" OR "Kahler Disease" OR "Myelomatosis")

Disease	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	>75
French												
Alzheimer's disease and dementia	0.00 (0.00, 0.00)	0.01 (0.00, 0.06)	0.01 (0.00, 0.06)	0.01 (0.00, 0.06)	0.01 (0.00, 0.11)	0.01 (0.00, 0.11)	0.01 (0.00, 0.11)	0.01 (0.00, 0.10)	0.01 (0.00, 0.09)	0.01 (0.00, 0.07)	0.01 (0.00, 0.09)	0.01 (0.00, 0.10)
Breast cancer	0.00 (0.00, 0.02)	0.01 (0.00, 0.02)	0.01 (0.00, 0.02)	0.01 (0.00, 0.03)	0.02 (0.01, 0.03)	0.02 (0.01, 0.03)	0.02 (0.01, 0.03)	0.02 (0.01, 0.03)	0.02 (0.01, 0.03)	0.01 (0.00, 0.02)	0.01 (0.00, 0.02)	0.01 (0.00, 0.03)
Colon cancer	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)
Coronary heart disease	0.00 (0.00, 0.07)	0.01 (0.00, 0.08)	0.01 (0.00, 0.08)	0.01 (0.00, 0.11)	0.01 (0.00, 0.10)	0.01 (0.00, 0.12)	0.01 (0.00, 0.10)	0.01 (0.00, 0.10)	0.01 (0.00, 0.10)	0.01 (0.00, 0.07)	0.01 (0.00, 0.10)	0.01 (0.00, 0.11)
Depression	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)
Endometrial cancer	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)
Heart failure	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)
Heart disease	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)
Gastric cancer	0.00 (0.00, 0.09)	0.01 (0.00, 0.11)	0.01 (0.00, 0.10)	0.01 (0.00, 0.13)	0.01 (0.00, 0.14)	0.01 (0.00, 0.16)	0.01 (0.00, 0.14)	0.01 (0.00, 0.14)	0.01 (0.00, 0.14)	0.01 (0.00, 0.09)	0.01 (0.00, 0.10)	0.01 (0.00, 0.13)
Low back pain	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)
Lung cancer	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)
Myeloma	0.00 (0.00, 0.11)	0.00 (0.00, 0.13)	0.00 (0.00, 0.13)	0.01 (0.00, 0.19)	0.01 (0.00, 0.19)	0.01 (0.00, 0.19)	0.01 (0.00, 0.17)	0.01 (0.00, 0.17)	0.01 (0.00, 0.17)	0.01 (0.00, 0.11)	0.01 (0.00, 0.12)	0.01 (0.00, 0.18)
Neurological	0.00 (0.00, 0.11)	0.00 (0.00, 0.11)	0.00 (0.00, 0.11)	0.00 (0.00, 0.11)	0.00 (0.00, 0.11)	0.00 (0.00, 0.11)	0.00 (0.00, 0.11)	0.00 (0.00, 0.11)	0.00 (0.00, 0.11)	0.00 (0.00, 0.11)	0.00 (0.00, 0.11)	0.00 (0.00, 0.11)
Stroke	0.04 (0.02, 0.06)	0.01 (0.00, 0.08)	0.01 (0.00, 0.08)	0.01 (0.00, 0.08)	0.01 (0.00, 0.11)	0.01 (0.00, 0.11)	0.01 (0.00, 0.11)	0.01 (0.00, 0.11)	0.01 (0.00, 0.11)	0.01 (0.00, 0.06)	0.01 (0.00, 0.06)	0.01 (0.00, 0.10)
German												
Alzheimer's disease and dementia	0.04 (0.02, 0.06)	0.01 (0.00, 0.05)	0.01 (0.00, 0.05)	0.01 (0.00, 0.07)	0.01 (0.00, 0.08)	0.01 (0.00, 0.08)	0.01 (0.00, 0.07)	0.01 (0.00, 0.08)	0.01 (0.00, 0.08)	0.01 (0.00, 0.04)	0.01 (0.00, 0.04)	0.01 (0.00, 0.08)
Breast cancer	0.00 (0.00, 0.02)	0.01 (0.00, 0.02)	0.01 (0.00, 0.02)	0.01 (0.00, 0.03)	0.02 (0.01, 0.04)	0.02 (0.01, 0.04)	0.02 (0.01, 0.04)	0.02 (0.01, 0.04)	0.02 (0.01, 0.04)	0.01 (0.00, 0.02)	0.01 (0.00, 0.02)	0.01 (0.00, 0.04)
Colon cancer	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)
Coronary heart disease	0.00 (0.00, 0.07)	0.01 (0.00, 0.08)	0.01 (0.00, 0.08)	0.01 (0.00, 0.11)	0.01 (0.00, 0.10)	0.01 (0.00, 0.12)	0.01 (0.00, 0.10)	0.01 (0.00, 0.10)	0.01 (0.00, 0.10)	0.01 (0.00, 0.07)	0.01 (0.00, 0.10)	0.01 (0.00, 0.11)
Depression	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)
Endometrial cancer	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)
Heart failure	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)
Heart disease	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)
Gastric cancer	0.00 (0.00, 0.09)	0.01 (0.00, 0.05)	0.01 (0.00, 0.07)	0.01 (0.00, 0.07)	0.01 (0.00, 0.07)	0.01 (0.00, 0.07)	0.01 (0.00, 0.07)	0.01 (0.00, 0.07)	0.01 (0.00, 0.07)	0.01 (0.00, 0.04)	0.01 (0.00, 0.04)	0.01 (0.00, 0.08)
Low back pain	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)
Lung cancer	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)
Myeloma	0.00 (0.00, 0.10)	0.00 (0.00, 0.09)	0.00 (0.00, 0.12)	0.01 (0.00, 0.13)	0.01 (0.00, 0.13)	0.01 (0.00, 0.14)	0.01 (0.00, 0.13)	0.01 (0.00, 0.13)	0.01 (0.00, 0.13)	0.01 (0.00, 0.07)	0.01 (0.00, 0.07)	0.01 (0.00, 0.10)
Neurological	0.00 (0.00, 0.10)	0.00 (0.00, 0.10)	0.00 (0.00, 0.10)	0.00 (0.00, 0.10)	0.00 (0.00, 0.10)	0.00 (0.00, 0.10)	0.00 (0.00, 0.10)	0.00 (0.00, 0.10)	0.00 (0.00, 0.10)	0.00 (0.00, 0.10)	0.00 (0.00, 0.10)	0.00 (0.00, 0.10)
Stroke	0.04 (0.02, 0.06)	0.01 (0.00, 0.05)	0.01 (0.00, 0.05)	0.01 (0.00, 0.07)	0.01 (0.00, 0.08)	0.01 (0.00, 0.08)	0.01 (0.00, 0.07)	0.01 (0.00, 0.08)	0.01 (0.00, 0.08)	0.01 (0.00, 0.04)	0.01 (0.00, 0.04)	0.01 (0.00, 0.08)
Italian												
Alzheimer's disease and dementia	0.02 (0.00, 0.09)	0.02 (0.00, 0.11)	0.01 (0.00, 0.16)	0.01 (0.00, 0.09)	0.01 (0.00, 0.16)	0.01 (0.00, 0.16)	0.01 (0.00, 0.12)	0.01 (0.00, 0.11)	0.01 (0.00, 0.08)	0.01 (0.00, 0.09)	0.01 (0.00, 0.12)	0.01 (0.00, 0.10)
Breast cancer	0.00 (0.00, 0.04)	0.01 (0.00, 0.04)	0.01 (0.00, 0.04)	0.01 (0.00, 0.04)	0.01 (0.00, 0.04)	0.01 (0.00, 0.04)	0.01 (0.00, 0.04)	0.01 (0.00, 0.04)	0.01 (0.00, 0.04)	0.01 (0.00, 0.04)	0.01 (0.00, 0.04)	0.01 (0.00, 0.04)
Colon cancer	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)
Coronary heart disease	0.00 (0.00, 0.04)	0.01 (0.00, 0.04)	0.01 (0.00, 0.04)	0.01 (0.00, 0.04)	0.01 (0.00, 0.04)	0.01 (0.00, 0.04)	0.01 (0.00, 0.04)	0.01 (0.00, 0.04)	0.01 (0.00, 0.04)	0.01 (0.00, 0.04)	0.01 (0.00, 0.04)	0.01 (0.00, 0.04)
Depression	0.00 (0.00, 0.12)	0.01 (0.00, 0.14)	0.01 (0.00, 0.21)	0.01 (0.00, 0.12)	0.01 (0.00, 0.12)	0.01 (0.00, 0.13)	0.01 (0.00, 0.13)	0.01 (0.00, 0.15)	0.01 (0.00, 0.15)	0.01 (0.00, 0.12)	0.01 (0.00, 0.12)	0.01 (0.00, 0.17)
Endometrial cancer	0.00 (0.00, 0.01)	0.00 (0.00, 0.01)	0.00 (0.00, 0.01)	0.00 (0.00, 0.01)	0.00 (0.00, 0.01)	0.00 (0.00, 0.01)	0.00 (0.00, 0.01)	0.00 (0.00, 0.01)	0.00 (0.00, 0.01)	0.00 (0.00, 0.01)	0.00 (0.00, 0.01)	0.00 (0.00, 0.01)
Gastric cancer	0.00 (0.00, 0.12)	0.01 (0.00, 0.21)	0.01 (0.00, 0.21)	0.01 (0.00, 0.12)	0.01 (0.00, 0.12)	0.01 (0.00, 0.12)	0.01 (0.00, 0.12)	0.01 (0.00, 0.12)	0.01 (0.00, 0.12)	0.01 (0.00, 0.06)	0.01 (0.00, 0.06)	0.01 (0.00, 0.12)
Heart failure	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)
Heart disease	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)
Gastric cancer	0.00 (0.00, 0.09)	0.01 (0.00, 0.09)	0.01 (0.00, 0.14)	0.01 (0.00, 0.09)	0.01 (0.00, 0.09)	0.01 (0.00, 0.09)	0.01 (0.00, 0.09)	0.01 (0.00, 0.09)	0.01 (0.00, 0.09)	0.01 (0.00, 0.09)	0.01 (0.00, 0.09)	0.01 (0.00, 0.09)
Low back pain	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)
Lung cancer	0.00 (0.00, 0.07)	0.01 (0.00, 0.08)	0.01 (0.00, 0.12)	0.01 (0.00, 0.07)	0.01 (0.00, 0.07)	0.01 (0.00, 0.07)	0.01 (0.00, 0.09)	0.01 (0.00, 0.09)	0.01 (0.00, 0.09)	0.01 (0.00, 0.07)	0.01 (0.00, 0.10)	0.01 (0.00, 0.07)
Lung cancer	0.00 (0.00, 0.12)	0.01 (0.00, 0.12)	0.01 (0.00, 0.12)	0.01 (0.00, 0.12)	0.01 (0.00, 0.12)	0.01 (0.00, 0.12)	0.01 (0.00, 0.12)	0.01 (0.00, 0.12)	0.01 (0.00, 0.12)	0.01 (0.00, 0.12)	0.01 (0.00, 0.12)	0.01 (0.00, 0.12)
Myeloma	0.00 (0.00, 0.10)	0.01 (0.00, 0.10)	0.01 (0.00, 0.16)	0.01 (0.00, 0.14)	0.01 (0.00, 0.14)	0.01 (0.00, 0.14)	0.01 (0.00, 0.14)	0.01 (0.00, 0.14)	0.01 (0.00, 0.14)	0.01 (0.00, 0.14)	0.01 (0.00, 0.14)	0.01 (0.00, 0.14)
Neurological	0.00 (0.00, 0.10)	0.01 (0.00, 0.10)	0.01 (0.00, 0.16)	0.01 (0.00, 0.14)	0.01 (0.00, 0.14)	0.01 (0.00, 0.14)	0.01 (0.00, 0.14)	0.01 (0.00, 0.14)	0.01 (0.00, 0.14)	0.01 (0.00, 0.14)	0.01 (0.00, 0.14)	0.01 (0.00, 0.14)
Stroke	0.04 (0.02, 0.06)	0.01 (0.00, 0.05)	0.01 (0.00, 0.05)	0.01 (0.00, 0.07)	0.01 (0.00, 0.08)	0.01 (0.00, 0.08)	0.01 (0.00, 0.07)	0.01 (0.00, 0.08)	0.01 (0.00, 0.08)	0.01 (0.00, 0.04)	0.01 (0.00, 0.04)	0.01 (0.00, 0.08)

[illegible]

Prevalences of physical inactivity

Supplementary Table 4: Prevalence of Physical Inactivity

Age group	Prevalence in % [95% CI] for females	Prevalence in % [95% CI] for males
French		
20-24	15.5 [9.4, 24.6]	30.9 [22.7, 40.5]
25-29	20.3 [13.2, 29.8]	31.2 [22.0, 42.2]
30-34	20.5 [14.1, 28.8]	40.0 [31.3, 49.4]
35-39	32.5 [24.1, 42.3]	43.6 [35.1, 52.6]
40-44	30.1 [22.7, 38.7]	37.8 [30.9, 45.2]
45-49	34.3 [26.8, 42.6]	30.4 [24.1, 37.5]
50-54	30.0 [23.1, 37.9]	36.2 [29.6, 43.5]
55-59	30.3 [23.8, 37.7]	37.4 [30.7, 44.6]
60-64	17.3 [12.2, 23.9]	27.6 [21.7, 34.4]
65-69	18.6 [12.9, 26.0]	25.2 [19.3, 32.3]
70-74	27.5 [20.3, 36.0]	24.2 [18.3, 31.2]
75_plus	31.7 [24.2, 40.4]	49.6 [43.5, 55.7]
German		
20-24	15.6 [10.5, 22.5]	24.3 [18.3, 31.6]
25-29	13.7 [9.4, 19.5]	17.0 [12.4, 22.8]
30-34	20.7 [15.8, 26.6]	22.3 [17.3, 28.3]
35-39	21.4 [16.8, 26.9]	22.5 [18.0, 27.6]
40-44	23.2 [18.5, 28.6]	21.1 [16.9, 26.0]
45-49	21.5 [17.2, 26.5]	23.2 [19.0, 27.9]
50-54	21.5 [17.2, 26.5]	19.8 [16.3, 23.9]
55-59	24.1 [19.7, 29.0]	21.1 [17.5, 25.1]
60-64	16.2 [12.8, 20.2]	21.9 [18.1, 26.1]
65-69	11.3 [8.5, 15.0]	20.2 [16.5, 24.5]
70-74	15.8 [11.9, 20.7]	20.9 [16.5, 26.1]
75_plus	25.6 [21.7, 29.9]	35.0 [31.0, 39.3]
Italian		
20-24	10.9 [3.1, 31.7]	24.6 [12.7, 42.1]
25-29	10.8 [2.5, 36.4]	31.2 [17.2, 49.7]
30-34	48.4 [28.4, 68.9]	25.6 [13.3, 43.4]
35-39	14.2 [5.1, 33.8]	25.1 [14.0, 40.9]
40-44	22.8 [11.3, 40.6]	27.1 [16.7, 40.9]
45-49	24.6 [14.6, 38.4]	41.7 [28.6, 56.0]
50-54	33.1 [20.6, 48.5]	29.4 [18.6, 43.3]
55-59	30.8 [20.1, 44.1]	36.7 [24.3, 51.1]
60-64	17.7 [9.8, 30.0]	30.7 [21.0, 42.5]
65-69	17.9 [8.2, 34.8]	29.9 [18.7, 44.1]
70-74	31.9 [15.2, 55.2]	41.9 [28.8, 56.2]
75_plus	27.2 [17.3, 39.9]	46.9 [35.9, 58.3]

PIA-attributable rates for YLD and YLL

Supplementary Table 5: PIA-attributable YLD rates per 100 000 persons (>20 years) per disease

Disease	Mean rate [95% CI]
Depression	93.38 [85.46, 101.80]
Low back pain	52.01 [45.90, 58.47]
Alzheimer's disease and dementia	29.43 [23.51, 36.39]
Diabetes mellitus type 2	21.28 [19.03, 23.74]
Stroke	13.41 [11.76, 15.19]
Coronary heart disease	10.87 [9.54, 12.31]
Breast cancer	1.16 [0.89, 1.47]
Myeloid leukaemia	1.09 [0.83, 1.40]
Heart failure	1.06 [0.74, 1.44]
Colon cancer	0.98 [0.70, 1.30]
Lung cancer	0.80 [0.71, 0.90]
Myeloma	0.71 [0.51, 0.97]
Gastric cancer	0.38 [0.29, 0.47]
Endometrial cancer	0.36 [0.27, 0.46]
Liver cancer	0.16 [0.12, 0.21]

Supplementary Table 6: PIA-attributable YLL rates per 100 000 persons (>20 years) per disease

Disease	Mean rate [95% CI]
Coronary heart disease	132.12 [115.60, 149.55]
Alzheimer's disease and dementia	83.59 [51.85, 135.00]
Stroke	57.16 [49.08, 65.75]
Lung cancer	51.56 [47.81, 55.46]
Heart failure	22.36 [14.53, 30.44]
Gastric cancer	14.04 [11.45, 16.82]
Myeloid leukaemia	14.01 [10.88, 17.40]
Colon cancer	10.81 [7.89, 13.93]
Diabetes mellitus type 2	10.23 [8.88, 11.71]
Myeloma	10.05 [7.59, 12.61]
Liver cancer	8.86 [6.87, 10.82]
Breast cancer	7.32 [5.69, 9.10]
Endometrial cancer	2.12 [1.55, 2.70]
Depression	0.00 [0.00, 0.00]
Low back pain	0.00 [0.00, 0.00]

Supplementary Table 7: PIA-attributable YLD rates per 100 000 (> 20 years) by disease

Disease	Rate [95% CI] for females	Rate [95% CI] for males
French		
Alzheimer's disease and dementia	22.78 [14.80, 32.70]	7.54 [4.86, 11.02]
Breast cancer	1.28 [0.87, 1.76]	0.01 [0.00, 0.01]
Colon cancer	0.54 [0.22, 0.91]	0.53 [0.25, 0.84]
Coronary heart disease	4.28 [3.17, 5.73]	6.80 [5.38, 8.55]
Depression	79.89 [66.99, 93.98]	33.74 [27.76, 40.59]
Diabetes mellitus type 2	11.26 [8.84, 14.24]	11.82 [9.59, 14.45]
Endometrial cancer	0.38 [0.24, 0.53]	0.00 [0.00, 0.00]
Gastric cancer	0.17 [0.10, 0.27]	0.23 [0.14, 0.34]
Heart failure	0.74 [0.32, 1.25]	0.35 [0.19, 0.56]
Liver cancer	0.06 [0.02, 0.10]	0.12 [0.06, 0.19]
Low back pain	37.66 [29.12, 46.92]	22.59 [17.65, 28.15]
Lung cancer	0.43 [0.34, 0.54]	0.44 [0.35, 0.56]
Myeloid leukaemia	0.56 [0.29, 0.91]	0.62 [0.36, 0.97]
Myeloma	0.35 [0.17, 0.68]	0.40 [0.21, 0.68]
Stroke	8.03 [6.20, 10.28]	6.19 [4.77, 7.95]
German		
Alzheimer's disease and dementia	18.87 [12.23, 27.35]	6.93 [4.50, 10.04]
Breast cancer	0.96 [0.64, 1.35]	0.00 [0.00, 0.01]
Colon cancer	0.41 [0.15, 0.71]	0.43 [0.20, 0.70]
Coronary heart disease	3.65 [2.70, 4.87]	6.08 [4.81, 7.63]
Depression	51.54 [43.63, 60.41]	25.64 [21.45, 30.42]
Diabetes mellitus type 2	8.83 [6.93, 11.21]	9.69 [7.86, 11.82]
Endometrial cancer	0.31 [0.20, 0.43]	0.00 [0.00, 0.00]
Gastric cancer	0.13 [0.07, 0.20]	0.20 [0.12, 0.29]
Heart failure	0.63 [0.28, 1.07]	0.31 [0.17, 0.51]
Liver cancer	0.05 [0.02, 0.08]	0.09 [0.05, 0.14]
Low back pain	27.05 [20.78, 34.02]	16.56 [12.91, 20.64]
Lung cancer	0.33 [0.26, 0.42]	0.36 [0.28, 0.44]
Myeloid leukaemia	0.44 [0.23, 0.72]	0.51 [0.29, 0.80]
Myeloma	0.29 [0.14, 0.53]	0.34 [0.18, 0.56]
Stroke	6.40 [4.93, 8.26]	5.24 [4.09, 6.65]
Italian		
Alzheimer's disease and dementia	31.11 [19.29, 46.11]	9.23 [5.35, 14.62]
Breast cancer	1.52 [0.99, 2.18]	0.01 [0.00, 0.01]
Colon cancer	0.70 [0.27, 1.21]	0.62 [0.28, 1.04]
Coronary heart disease	5.86 [4.16, 7.97]	8.57 [6.20, 11.48]
Depression	66.09 [53.87, 79.87]	27.97 [21.27, 35.50]
Diabetes mellitus type 2	13.29 [9.99, 17.42]	13.71 [10.30, 17.60]
Endometrial cancer	0.48 [0.30, 0.68]	0.00 [0.00, 0.00]
Gastric cancer	0.23 [0.13, 0.37]	0.28 [0.16, 0.44]
Heart failure	1.00 [0.46, 1.71]	0.41 [0.21, 0.68]
Liver cancer	0.09 [0.03, 0.17]	0.16 [0.08, 0.27]
Low back pain	42.70 [31.28, 55.91]	20.83 [15.02, 27.61]
Lung cancer	0.56 [0.43, 0.74]	0.56 [0.39, 0.76]
Myeloid leukaemia	0.73 [0.36, 1.20]	0.68 [0.35, 1.12]
Myeloma	0.45 [0.20, 0.90]	0.44 [0.23, 0.76]
Stroke	11.24 [8.45, 14.74]	7.62 [5.32, 10.53]

Supplementary Table 8: PIA-attributable YLL rate per 100 000 (>20 years) by disease

Disease	Rate [95% CI] for females	Rate [95% CI] for males
French		
Alzheimer's disease and dementia	65.68 [26.28, 140.44]	19.69 [7.87, 43.65]
Breast cancer	8.19 [5.57, 10.93]	0.03 [0.02, 0.04]
Colon cancer	6.02 [2.58, 9.67]	5.79 [2.93, 8.88]
Coronary heart disease	62.64 [45.45, 81.45]	70.88 [55.92, 88.64]
Depression	0.00 [0.00, 0.00]	0.00 [0.00, 0.00]
Diabetes mellitus type 2	5.52 [3.99, 7.24]	5.23 [3.97, 6.70]
Endometrial cancer	2.23 [1.33, 3.16]	0.00 [0.00, 0.00]
Gastric cancer	6.59 [3.97, 9.25]	8.54 [5.68, 11.64]
Heart failure	16.81 [5.99, 28.14]	5.97 [2.87, 9.46]
Liver cancer	3.11 [1.58, 4.67]	6.66 [4.03, 9.45]
Low back pain	0.00 [0.00, 0.00]	0.00 [0.00, 0.00]
Lung cancer	26.15 [22.60, 30.10]	30.19 [25.52, 35.38]
Myeloid leukaemia	6.82 [3.65, 10.05]	8.34 [4.94, 12.24]
Myeloma	5.25 [2.61, 8.11]	5.43 [3.09, 8.05]
Stroke	37.05 [26.65, 48.26]	22.77 [16.96, 29.65]
German		
Alzheimer's disease and dementia	55.44 [22.40, 120.11]	18.11 [7.20, 40.59]
Breast cancer	6.09 [4.12, 8.25]	0.02 [0.01, 0.03]
Colon cancer	4.59 [1.82, 7.58]	4.73 [2.31, 7.28]
Coronary heart disease	53.43 [38.58, 70.20]	65.11 [51.78, 80.07]
Depression	0.00 [0.00, 0.00]	0.00 [0.00, 0.00]
Diabetes mellitus type 2	4.44 [3.24, 5.84]	4.60 [3.52, 5.77]
Endometrial cancer	1.82 [1.11, 2.54]	0.00 [0.00, 0.00]
Gastric cancer	4.83 [2.83, 7.05]	7.36 [4.83, 10.20]
Heart failure	14.22 [5.26, 24.04]	5.60 [2.68, 9.04]
Liver cancer	2.48 [1.29, 3.72]	5.07 [3.08, 7.24]
Low back pain	0.00 [0.00, 0.00]	0.00 [0.00, 0.00]
Lung cancer	20.26 [17.38, 23.28]	24.07 [20.69, 27.66]
Myeloid leukaemia	5.38 [2.86, 8.09]	6.83 [3.94, 10.13]
Myeloma	4.26 [2.15, 6.63]	4.57 [2.60, 6.76]
Stroke	30.15 [21.75, 39.49]	19.71 [14.89, 24.91]
Italian		
Alzheimer's disease and dementia	90.73 [36.03, 196.67]	23.54 [8.95, 51.92]
Breast cancer	9.62 [6.28, 13.37]	0.03 [0.02, 0.04]
Colon cancer	7.75 [3.15, 13.06]	6.80 [3.30, 11.03]
Coronary heart disease	85.22 [59.80, 115.18]	88.70 [62.54, 120.22]
Depression	0.00 [0.00, 0.00]	0.00 [0.00, 0.00]
Diabetes mellitus type 2	6.82 [4.76, 9.28]	5.86 [3.98, 8.12]
Endometrial cancer	2.87 [1.69, 4.14]	0.00 [0.00, 0.00]
Gastric cancer	8.85 [5.22, 12.97]	10.24 [6.32, 15.04]
Heart failure	22.06 [8.36, 38.04]	6.96 [3.30, 11.89]
Liver cancer	4.60 [2.09, 7.42]	8.89 [4.88, 13.71]
Low back pain	0.00 [0.00, 0.00]	0.00 [0.00, 0.00]
Lung cancer	34.14 [28.30, 40.76]	37.44 [27.63, 48.30]
Myeloid leukaemia	8.72 [4.46, 13.08]	9.10 [5.00, 14.01]
Myeloma	6.68 [3.16, 10.60]	6.00 [3.29, 9.44]
Stroke	51.67 [35.87, 69.55]	28.71 [18.92, 40.44]

Supplementary Table 9: Sensitivity analysis for regional YLD and YLL rates across alternative population-mortality weighting scenarios. Estimates are presented as rates per 100 000 persons aged > 20 years (95% CI). DALY = disability-adjusted life years; YLD = years lived with disability; YLL = years of life lost. Weighting scenarios indicate the relative contribution of population size and mortality (e.g., 80/20 = 80% population, 20% deaths).

Measure	100/0	90/10	80/20
French			
YLD	130.58 [120.60, 141.26]	130.65 [120.71, 141.30]	130.72 [120.78, 141.50]
YLL	228.95 [198.63, 273.64]	225.23 [195.48, 269.07]	221.56 [192.54, 264.55]
German			
YLD	95.88 [88.41, 103.61]	96.07 [88.63, 103.80]	96.26 [88.81, 104.01]
YLL	184.21 [160.60, 219.42]	185.45 [161.63, 220.85]	186.67 [162.64, 222.27]
Italian			
YLD	141.10 [127.87, 154.74]	137.98 [124.91, 151.39]	134.90 [122.04, 148.25]
YLL	291.59 [249.17, 353.68]	289.65 [247.40, 352.03]	287.74 [245.82, 349.99]
Measure	70/30	60/40	50/50
French			
YLD	130.79 [120.76, 141.68]	130.85 [120.74, 141.83]	130.92 [120.58, 142.13]
YLL	217.93 [189.52, 260.08]	214.34 [186.41, 255.67]	210.80 [183.54, 251.30]
German			
YLD	96.45 [89.02, 104.26]	96.64 [89.18, 104.48]	96.83 [89.36, 104.69]
YLL	187.87 [163.64, 223.66]	189.06 [164.62, 225.04]	190.24 [165.61, 226.42]
Italian			
YLD	131.86 [119.31, 144.95]	128.86 [116.54, 141.84]	125.89 [113.58, 138.86]
YLL	285.85 [244.35, 347.83]	283.99 [242.64, 345.48]	282.15 [241.08, 343.44]