

## Supplementary file

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## Supplementary Table 1. Full search strategy in electronic databases

<p><b>Medline/ Ovid</b></p> <p>((life expectancy or lifespan or years of potential life lost or years of life lost or life years or life years lost or YPLL or LYL or YLL) and (mental disorder or mental illness or schizophrenia or psychotic or mood disorder or affective disorder or bipolar or manic or depressive or dysthymia or anxiety or phobia or panic or post-traumatic stress disorder or obsessive compulsive or OCD or eating disorder or anorexia nervosa or bulimia nervosa or binge eating or personality disorder or attention-deficit hyperactivity disorders or ADHD or tic disorder or autism or Asperger or dementia or Alzheimer's disease or substance or drug or alcohol)) AND cohort study.mp. or *Cohort Studies/ [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] limit to (full text and human) 168</p>
<p><b>EMBASE</b></p> <p>((life expectancy or lifespan or years of potential life lost or years of life lost or life years or life years lost or YPLL or LYL or YLL) and (mental disorder or mental illness or schizophrenia or psychotic or mood disorder or affective disorder or bipolar or manic or depressive or dysthymia or anxiety or phobia or panic or post-traumatic stress disorder or obsessive compulsive or OCD or eating disorder or anorexia nervosa or bulimia nervosa or binge eating or personality disorder or attention-deficit hyperactivity disorders or ADHD or tic disorder or autism or Asperger or dementia or Alzheimer's disease or substance or drug or alcohol)) AND cohort study.mp. or *Cohort Studies/ limit to (full text and human) 423</p>
<p><b>PsychINFO</b></p> <p>(life expectancy OR lifespan OR years of potential life lost OR years of life lost OR life years OR life years lost OR YPLL OR LYL OR YLL) AND (mental disorder OR mental illness OR schizophrenia OR psychotic OR mood disorder OR affective disorder OR bipolar OR manic OR depressive OR dysthymia OR anxiety OR phobia OR panic OR post-traumatic stress disorder OR obsessive compulsive OR OCD OR eating disorder OR anorexia nervosa OR bulimia nervosa OR binge eating OR personality disorder OR attention-deficit hyperactivity disorders OR ADHD OR tic disorder OR autism OR Asperger or dementia or Alzheimer's disease OR substance OR drug OR alcohol) AND (cohort study) Filter/ limit Journal, Journal article, peer reviewed journal, follow-up study, longitudinal study, prospective study, retrospective study 3051 3504</p>
<p><b>Web of Science</b></p> <p>((life expectancy OR lifespan OR years of potential life lost OR years of life lost OR life years OR life years lost OR YPLL OR LYL OR YLL)) AND ((mental disorder OR mental illness) OR (schizophrenia OR psychotic OR mood disorder OR affective disorder OR bipolar OR manic OR depressive OR dysthymia OR anxiety OR phobia OR panic OR post-traumatic stress disorder OR obsessive compulsive OR OCD OR eating disorder OR anorexia nervosa OR bulimia nervosa OR binge eating OR personality disorder OR attention-deficit hyperactivity disorders OR ADHD OR tic disorder OR autism OR Asperger OR dementia OR Alzheimer's disease OR substance OR drug OR alcohol)) AND (cohort study OR follow up) Apply filter (articles) 28195</p>
<p><b>Cochran database</b></p> <p>((life expectancy OR lifespan OR years of potential life lost OR years of life lost OR life years OR life years lost OR YPLL OR LYL OR YLL)) AND ((mental disorder OR mental illness) OR (schizophrenia OR psychotic OR mood disorder OR affective disorder OR bipolar OR manic OR depressive OR dysthymia OR anxiety OR phobia OR panic OR post-traumatic stress disorder OR obsessive compulsive OR OCD OR eating disorder OR anorexia nervosa OR bulimia nervosa OR binge eating OR personality disorder OR attention-deficit hyperactivity disorders OR ADHD OR tic disorder OR autism OR Asperger OR dementia OR Alzheimer's disease OR substance OR drug OR alcohol)) AND (cohort study OR follow up) 3532</p>

**Supplementary Table 2. List of studies excluded after full text screening in alphabetical order by first author's last name**

<b>Authors</b>	<b>Reasons for exclusion</b>
Akechi <sup>1</sup>	Survival not measured in life expectancy or YPLL
Aldridge <sup>2</sup>	Review/ meta-analysis
Almeida <sup>3</sup>	Survival not measured in life expectancy or YPLL
Almeida <sup>4</sup>	Survival not measured in life expectancy or YPLL
Alonso <sup>5</sup>	Survival not measured in life expectancy or YPLL
An <sup>6</sup>	Survival not measured in life expectancy or YPLL
Andersch <sup>7</sup>	Survival not measured in life expectancy or YPLL
Angst <sup>8</sup>	Survival not measured in life expectancy or YPLL
Archer <sup>9</sup>	Survival not measured in life expectancy or YPLL
Atlantis <sup>10</sup>	Survival not measured in life expectancy or YPLL
Auger <sup>11</sup>	No mental disorder
Baandrup <sup>12</sup>	Survival not measured in life expectancy or YPLL
Bahji <sup>13</sup>	Review/ meta-analysis
Barkley <sup>14</sup>	Survival not measured in life expectancy or YPLL
Baxter <sup>15</sup>	No relevant outcomes
Beijer <sup>16</sup>	Subpopulation
Beil <sup>17</sup>	No relevant outcomes
Bennett <sup>18</sup>	No mental disorder
Benraad <sup>19</sup>	Survival not measured in life expectancy or YPLL
Berardi <sup>20</sup>	Survival not measured in life expectancy or YPLL
Biederman <sup>21</sup>	No relevant outcomes
Boden <sup>22</sup>	Survival not measured in life expectancy or YPLL
Borjesson-Hanson <sup>23</sup>	Survival not measured in life expectancy or YPLL
Boulware <sup>24</sup>	No relevant outcomes
Bowersox <sup>25</sup>	Survival not measured in life expectancy or YPLL
Britton <sup>26</sup>	Survival not measured in life expectancy or YPLL
Brodaty <sup>27</sup>	Review/ meta-analysis
Brück <sup>28</sup>	Survival not measured in life expectancy or YPLL
Butler <sup>29</sup>	Survival not measured in life expectancy or YPLL
Byers <sup>30</sup>	Survival not measured in life expectancy or YPLL
Cabello <sup>31</sup>	Survival not measured in life expectancy or YPLL
Calabrese <sup>32</sup>	No relevant outcomes
Callahan <sup>33</sup>	Survival not measured in life expectancy or YPLL
Capasso <sup>34</sup>	Survival not measured in life expectancy or YPLL
Carpiniello <sup>35</sup>	No relevant outcomes

Castillo-Carniglia <sup>36</sup>	No mental disorder
Catalá-López <sup>37</sup>	Review/ meta-analysis
Chan <sup>38</sup>	Review/ meta-analysis
Chan <sup>39</sup>	Survival not measured in life expectancy or YPLL
Chang <sup>40</sup>	Survival not measured in life expectancy or YPLL
Charlson <sup>41</sup>	Secondary analysis
Chen <sup>42</sup>	Survival not measured in life expectancy or YPLL
Cheng <sup>43</sup>	Survival not measured in life expectancy or YPLL
China Kadoorie Biobank Collaborative Group <sup>44</sup>	No mental disorder
Coleman <sup>45</sup>	Subpopulation
Collins <sup>46</sup>	Survival not measured in life expectancy or YPLL
Conner <sup>47</sup>	Subpopulation
Copeland <sup>48</sup>	Survival not measured in life expectancy or YPLL
Correll <sup>49</sup>	No relevant outcomes
Cui <sup>50</sup>	Survival not measured in life expectancy or YPLL
Davstad <sup>51</sup>	Survival not measured in life expectancy or YPLL
de la Camara <sup>52</sup>	No relevant outcomes
de Mooij <sup>53</sup>	Survival not measured in life expectancy or YPLL
Degenhardt <sup>54</sup>	Survival not measured in life expectancy or YPLL
DeLorenze <sup>55</sup>	Subpopulation
Diallo <sup>56</sup>	Survival not measured in life expectancy or YPLL
Díaz-Venegas <sup>57</sup>	No mental disorder
Diniz <sup>58</sup>	Survival not measured in life expectancy or YPLL
Djernes <sup>59</sup>	Survival not measured in life expectancy or YPLL
Doll <sup>60</sup>	No mental disorder
Drageset <sup>61</sup>	Subpopulation
Eaton <sup>62</sup>	Survival not measured in life expectancy or YPLL
Fantin <sup>63</sup>	No mental disorder
Farchi <sup>64</sup>	No mental disorder
Finney <sup>65</sup>	No relevant outcomes
Flint <sup>66</sup>	No relevant outcomes
Fok <sup>67</sup>	No relevant outcomes
Foreman <sup>68</sup>	No mental disorder
Fortes <sup>69</sup>	No mental disorder
Fredman <sup>70</sup>	Survival not measured in life expectancy or YPLL
Fridell <sup>71</sup>	Survival not measured in life expectancy or YPLL
Fridell <sup>72</sup>	Survival not measured in life expectancy or YPLL
Frojd <sup>73</sup>	Survival not measured in life expectancy or YPLL
Furiak <sup>74</sup>	No relevant outcomes

Gale <sup>75</sup>	Survival not measured in life expectancy or YPLL
Gallo <sup>76</sup>	Survival not measured in life expectancy or YPLL
Ganguli <sup>77</sup>	Survival not measured in life expectancy or YPLL
Geerlings <sup>78</sup>	Survival not measured in life expectancy or YPLL
Georgakis <sup>79</sup>	Survival not measured in life expectancy or YPLL
Girardi <sup>80</sup>	Survival not measured in life expectancy or YPLL
Goorden <sup>81</sup>	No relevant outcomes
Goorden <sup>82</sup>	No relevant outcomes
Greenfield <sup>83</sup>	No relevant outcomes
Grisales-Romero <sup>84</sup>	No relevant outcomes
Gual <sup>85</sup>	No relevant outcomes
Hagen <sup>86</sup>	No relevant outcomes
Halme <sup>87</sup>	Survival not measured in life expectancy or YPLL
Harris <sup>88</sup>	Survival not measured in life expectancy or YPLL
Harrison-Felix <sup>89</sup>	No mental disorder
Helzner <sup>90</sup>	Survival not measured in life expectancy or YPLL
Ho <sup>91</sup>	Survival not measured in life expectancy or YPLL
Holahan <sup>92</sup>	No mental disorder
Holwerda <sup>93</sup>	Survival not measured in life expectancy or YPLL
Hser <sup>94</sup>	Survival not measured in life expectancy or YPLL
Hughes <sup>95</sup>	Survival not measured in life expectancy or YPLL
Hulse <sup>96</sup>	Survival not measured in life expectancy or YPLL
Iulita <sup>97</sup>	Subpopulation
John <sup>98</sup>	Survival not measured in life expectancy or YPLL
John <sup>99</sup>	Survival not measured in life expectancy or YPLL
Johnson <sup>100</sup>	Survival not measured in life expectancy or YPLL
Johnson <sup>101</sup>	No mental disorder
Jun <sup>102</sup>	Survival not measured in life expectancy or YPLL
Kåberg <sup>103</sup>	Survival not measured in life expectancy or YPLL
Katz <sup>104</sup>	Review/ meta-analysis
Keller <sup>105</sup>	No relevant outcomes
Kendler <sup>106</sup>	Survival not measured in life expectancy or YPLL
Kendler <sup>107</sup>	Survival not measured in life expectancy or YPLL
Keshaviah <sup>108</sup>	Review/ meta-analysis
Kivela <sup>109</sup>	No relevant outcomes
Kiviniemi <sup>110</sup>	Survival not measured in life expectancy or YPLL
Kohler <sup>111</sup>	Survival not measured in life expectancy or YPLL
Kouppis <sup>112</sup>	Survival not measured in life expectancy or YPLL
Kugathasan <sup>113</sup>	Survival not measured in life expectancy or YPLL

Kugathasan <sup>114</sup>	Survival not measured in life expectancy or YPLL
Ladwig <sup>115</sup>	Subpopulation
Lahti <sup>116</sup>	Survival not measured in life expectancy or YPLL
Larney <sup>117</sup>	Review/ meta-analysis
Laursen <sup>118</sup>	Survival not measured in life expectancy or YPLL
Lawes <sup>119</sup>	Survival not measured in life expectancy or YPLL
Lee <sup>120</sup>	No mental disorder
Lee <sup>121</sup>	Conference abstract
Lee <sup>122</sup>	Review/ meta-analysis
Levola <sup>123</sup>	Survival not measured in life expectancy or YPLL
Li <sup>124</sup>	Survival not measured in life expectancy or YPLL
Lin <sup>125</sup>	No relevant outcomes
Liu <sup>126</sup>	No mental disorder
Lomholt <sup>127</sup>	Survival not measured in life expectancy or YPLL
London <sup>128</sup>	Survival not measured in life expectancy or YPLL
Lu <sup>129</sup>	No mental disorder
Lurie <sup>130</sup>	Survival not measured in life expectancy or YPLL
Manderbacka <sup>131</sup>	No mental disorder
Maniecka-Bryla <sup>132</sup>	No mental disorder
Markkula <sup>133</sup>	Survival not measured in life expectancy or YPLL
Martikainen <sup>134</sup>	No mental disorder
Maughan <sup>135</sup>	No mental disorder
Meesters <sup>136</sup>	Survival not measured in life expectancy or YPLL
Meguro <sup>137</sup>	No relevant outcomes
Meier <sup>138</sup>	Survival not measured in life expectancy or YPLL
Meier <sup>139</sup>	No relevant outcomes
MollerMadsen <sup>140</sup>	Survival not measured in life expectancy or YPLL
Moreno <sup>141</sup>	No mental disorder
Morris <sup>142</sup>	Survival not measured in life expectancy or YPLL
Musgrove <sup>143</sup>	Survival not measured in life expectancy or YPLL
Nakaya <sup>144</sup>	No mental disorder
Nielsen <sup>145</sup>	Survival not measured in life expectancy or YPLL
Nielsen <sup>146</sup>	Subpopulation
Nordentoft <sup>147</sup>	Review/ meta-analysis
Nyberg <sup>148</sup>	No mental disorder
Oh <sup>149</sup>	Survival not measured in life expectancy or YPLL
Ojansuu <sup>150</sup>	Survival not measured in life expectancy or YPLL
Oud <sup>151</sup>	Survival not measured in life expectancy or YPLL
Palsson <sup>152</sup>	Survival not measured in life expectancy or YPLL

Parmelee <sup>153</sup>	Subpopulation
Pedram <sup>154</sup>	Survival not measured in life expectancy or YPLL
Penninx <sup>155</sup>	Survival not measured in life expectancy or YPLL
Penninx <sup>156</sup>	Survival not measured in life expectancy or YPLL
Peritogiannis <sup>157</sup>	Review/ meta-analysis
Pitkanen <sup>158</sup>	Survival not measured in life expectancy or YPLL
Plana-Ripoll <sup>159</sup>	Survival not measured in life expectancy or YPLL
Ploubidis <sup>160</sup>	Survival not measured in life expectancy or YPLL
Pulska <sup>161</sup>	Survival not measured in life expectancy or YPLL
Qian <sup>162</sup>	Subpopulation
Ramadas <sup>163</sup>	No mental disorder
Ramsey <sup>164</sup>	Survival not measured in life expectancy or YPLL
Ran <sup>165</sup>	Survival not measured in life expectancy or YPLL
Rehm <sup>166</sup>	Review/ meta-analysis
Rehm <sup>167</sup>	No mental disorder
Rehm <sup>168</sup>	Review/ meta-analysis
Reynolds <sup>169</sup>	No mental disorder
Ribe <sup>170</sup>	Survival not measured in life expectancy or YPLL
Richmond-Rakerd <sup>171</sup>	Survival not measured in life expectancy or YPLL
Rorsman <sup>172</sup>	Survival not measured in life expectancy or YPLL
Rossow <sup>173</sup>	Survival not measured in life expectancy or YPLL
Rundberg <sup>174</sup>	No mental disorder
Sauvaget <sup>175</sup>	Full text not available
Schiavone <sup>176</sup>	Survival not measured in life expectancy or YPLL
Schoevers <sup>177</sup>	Survival not measured in life expectancy or YPLL
Schulz <sup>178</sup>	Survival not measured in life expectancy or YPLL
Schuurmans <sup>179</sup>	No relevant outcomes
Scragg <sup>180</sup>	No mental disorder
Sharma <sup>181</sup>	No relevant outcomes
Sherrington <sup>182</sup>	No relevant outcomes
Shim <sup>183</sup>	Survival not measured in life expectancy or YPLL
Siskind <sup>184</sup>	No relevant outcomes
Smith DaWalt <sup>185</sup>	No relevant outcomes
Smoller <sup>186</sup>	Subpopulation
Sommer <sup>187</sup>	Survival not measured in life expectancy or YPLL
Starace <sup>188</sup>	Survival not measured in life expectancy or YPLL
Staudt Hansen <sup>189</sup>	Survival not measured in life expectancy or YPLL
Steingrimsson <sup>190</sup>	Survival not measured in life expectancy or YPLL
Steingrimsson <sup>191</sup>	No relevant outcomes

Stewart <sup>192</sup>	Survival not measured in life expectancy or YPLL
Stockwell <sup>193</sup>	Review/ meta-analysis
Strömberg <sup>194</sup>	Survival not measured in life expectancy or YPLL
Sun <sup>195</sup>	No mental disorder
Surtees <sup>196</sup>	Survival not measured in life expectancy or YPLL
Suzuki <sup>197</sup>	Subpopulation
Tamakoshi <sup>198</sup>	No mental disorder
Tanskanen <sup>199</sup>	Survival not measured in life expectancy or YPLL
Thanh <sup>200</sup>	No mental disorder
Thomas <sup>201</sup>	No mental disorder
Tomkins <sup>202</sup>	No mental disorder
Tournier <sup>203</sup>	Subpopulation
Trivedi <sup>204</sup>	Survival not measured in life expectancy or YPLL
Tuot <sup>205</sup>	Survival not measured in life expectancy or YPLL
Van Baelen <sup>206</sup>	Survival not measured in life expectancy or YPLL
van den Berg <sup>207</sup>	Survival not measured in life expectancy or YPLL
Van Weel-Baumgarten <sup>208</sup>	No relevant outcomes
Vázquez-Reyes <sup>209</sup>	Survival not measured in life expectancy or YPLL
Vilalta-Franch <sup>210</sup>	Survival not measured in life expectancy or YPLL
Vinkers <sup>211</sup>	Survival not measured in life expectancy or YPLL
Vos <sup>212</sup>	No relevant outcomes
Voshaar <sup>213</sup>	Survival not measured in life expectancy or YPLL
Walker <sup>214</sup>	Review/ meta-analysis
Wang <sup>215</sup>	No mental disorder
Warshaw <sup>216</sup>	No relevant outcomes
Wattmo <sup>217</sup>	No relevant outcomes
Wei <sup>218</sup>	Survival not measured in life expectancy or YPLL
Wewalka <sup>219</sup>	Subpopulation
Whiteford <sup>220</sup>	Secondary analysis
Whooley <sup>221</sup>	Survival not measured in life expectancy or YPLL
Woodward <sup>222</sup>	No relevant outcomes
Woolf <sup>223</sup>	No mental disorder
Wu <sup>224</sup>	Survival not measured in life expectancy or YPLL
Xie <sup>225</sup>	No mental disorder
Zabransky <sup>226</sup>	Survival not measured in life expectancy or YPLL
Zhang <sup>227</sup>	Survival not measured in life expectancy or YPLL
Zivin <sup>228</sup>	Survival not measured in life expectancy or YPLL
Zubenko <sup>229</sup>	Survival not measured in life expectancy or YPLL
Zwas <sup>230</sup>	Survival not measured in life expectancy or YPLL



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**Supplementary Table 3. Summary of characteristics of the 109 included studies**

Characteristics	N (%) of studies	
	Life expectancy (n=54)	YPLL (n=109)
Source of study samples		
Health system case register	35 (66.0)	75 (68.8)
Health insurance database	6 (11.3)	7 (6.4)
Hospital or health centre medical records	7 (13.2)	18 (16.5)
Community survey	5 (9.4)	7 (6.4)
Others <sup>a</sup>	1 (1.9)	2 (1.8)
Study period (calendar year)		
Before 2001	15 (27.8)	34 (31.2)
2001 – 2010	33 (61.1)	62 (56.9)
After 2010	11 (20.4)	18 (16.5)
Length of follow-up		
1 – 5 years	13 (24.1)	24 (22.0)
>5 – 10 years	20 (37.0)	31 (28.4)
>10 years	25 (46.3)	62 (56.7)
Geographic region		
Africa	1 (1.9)	1 (0.9)
Asia	12 (22.2)	18 (16.5)
Australia	3 (5.6)	6 (5.5)
Europe	27 (50.0)	56 (51.4)
North America	10 (18.5)	28 (25.7)
South America	1 (1.9)	1 (0.9)
Method to ascertain cases of mental disorders		
Diagnosis in case register, administrative data or medical records	38 (71.7)	76 (69.7)
Diagnostic interview	8 (15.1)	19 (17.4)
Service receipt	3 (5.7)	7 (6.4)
Medication prescription records	3 (5.7)	5 (4.9)
Self-report	3 (5.7)	4 (3.7)
Proxy assessment for diagnosis <sup>b</sup>	2 (3.8)	3 (2.8)
Diagnostic system		
Any diagnostic criteria (e.g., ICD, DSM)	46 (86.8)	95 (87.2)
No criteria	11 (20.8)	18 (16.5)
Reference population for YPLL estimation		
General population	-	83 (76.1)
Individuals without any/a specified mental disorder	-	20 (18.3)
Use of a specified fixed age	-	11 (10.1)
Approach to derive YPLL		
Mean age at death	-	42 (38.5)
Life expectancy	-	62 (56.9)
Both	-	5 (4.6)

DSM: Diagnostic and Statistical Manual of Mental Disorders; ICD: International Classification of Diseases; YPLL: years of potential life lost.

Number of studies in each category of the study characteristic may add up more than the total number of studies included for life expectancy and YPLL outcomes, as some studies contributed to more than one category.

<sup>a</sup>“Others” for source of study samples included combinations of health system case register and health insurance database, as well as self-referrals from agencies, schools and clinics, and media announcement.

<sup>b</sup> Proxy assessment for diagnosis included screening instruments for cognitive impairment and inspection of illicit drug injection sites

**Supplementary Table 4. Characteristics of included studies for life expectancy outcome**

Study	Country/region	Source of study samples	Study period	Diagnoses	Method for mental-disorder case ascertainment	Diagnostic system	Patients sample size	Proportion of men and women	Life expectancy at specified set-age
Newman & Bland (1991) <sup>1</sup>	Canada	Health system case register	1976-1985	Schizophrenia	Diagnostic interview	ICD	3623	Women: 1501 Men: 2122	At Birth
Hannerz & Borga (2000) <sup>2</sup>	Sweden	Health system case register	1983 (1-year follow-up)	Functional psychosis	Diagnosis in care register, administrative data or medical records	ICD	17878	Women: 23256 Men: 17878	20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80 years
Hannerz et al. (2001) <sup>3</sup>	Sweden	Health system case register	1983 (1-year follow-up)	Schizophrenia, affective psychosis, other functional psychoses, organic psychoses, substance use disorder, neurotic disorders, personality disorder	Diagnosis in care register, administrative data or medical records	ICD	Schizophrenia (13823), affective psychosis (12288), other functional psychoses (15042), organic psychosis (6317), substance use disorder (53237), neurotic disorders (36489), personality disorder (3825)	Schizophrenia (Women: 6237; Men: 7586), affective psychosis (7810; 4478), other functional psychoses (9218; 5824), organic psychosis (4082; 2235), substance use disorder (8843; 44394), neurotic disorders (23978; 12511), personality disorder (1596; 2229)	30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80 years
Dodge et al. (2003) <sup>4</sup>	United States	Community survey	1987-1997	Dementia	Diagnostic interview	DSM	1201	Women: 745 Men: 456	Ages at even number since 70 years
Brugal et al. (2005) <sup>5</sup>	Spain	Hospital or health centre medical records	1992-1999	Heroin use disorder	Service receipt	No criteria	5049	Women: 1185 Men: 3864	At Birth
Smyth et al. (2006) <sup>6</sup>	United States	Hospital or health centre medical records	1964-1998	Narcotics use disorder	Service receipt	No criteria	581	Women: 0 Men: 581	Age at assessment (Mean age=25.4 years)
Miller et al. (2007) <sup>7</sup>	Canada	Hospital or health centre medical records	1996-2004	Substance use disorder	Injection site inspection	No criteria	572	Women: 268 Men: 304	15 years
Tiihonen et al. (2009) <sup>8</sup>	Finland	Health system case register	1996-2006	Schizophrenia	Diagnosis in care register, administrative data or medical records	ICD	66881	Women: 36078 Men: 30803	20 years
Chang et al. (2011) <sup>9</sup>	United Kingdom	Health system case register	2007-2009	Schizophrenia, schizoaffective disorders, bipolar	Diagnosis in care register,	ICD	Schizophrenia (7018), schizoaffective disorders (1312),	Schizophrenia (Women: 2592; Men: 4426), schizoaffective disorders	At Birth

				disorder, substance use disorder, depressive disorders	administrative data or medical records		bipolar disorder (2699), substance use disorder (10922), depressive disorders (11681)	(660; 652), bipolar disorder (1573; 1126), substance use disorder (3268; 7654), depressive disorders (7417; 4264)	
Hayes et al. (2011) <sup>10</sup>	United Kingdom	Health system case register	2007-2009	Alcohol use disorder, opioid use disorder	Diagnosis in care register, administrative data or medical records	ICD	Alcohol use disorder (4961), opioid use disorder (4834)	NA	At Birth
Laursen (2011) <sup>11</sup>	Denmark	Health system case register	2000-2006	Schizophrenia, bipolar disorder	Diagnosis in care register, administrative data or medical records	ICD	Schizophrenia (31727), bipolar disorder (17037)	NA	Average age from 15 to 110 years
Wahlbeck et al. (2011) <sup>12</sup>	Denmark, Finland, Sweden	Health system case register	1987-2006	Any mental disorders	Diagnosis in care register, administrative data or medical records	ICD	Denmark (288407), Finland (456386), Sweden (340287)	Denmark (Women: 151275; Men: 137132), Finland (198043; 258343), Sweden (159021; 181266)	15 years
Fok et al. (2012) <sup>13</sup>	United Kingdom	Health system case register	2007-2010	Personality disorder	Diagnosis in care register, administrative data or medical records	ICD	1,836	Women: 1103 Men: 733	At Birth
Kodesh et al. (2012) <sup>14</sup>	Israel	Health insurance database	2003-2009	Schizophrenia-spectrum disorder, bipolar disorder	Diagnosis in care register, administrative data or medical records	ICD	Schizophrenia-spectrum disorder (5732), bipolar disorder (8848)	NA	20 years
Westman et al. (2012) <sup>15</sup>	Finland	Health system case register	1981-2003	Any mental disorders, substance use disorder, schizophrenia-spectrum disorder, mood disorder, neurotic disorders	Diagnosis in care register, administrative data or medical records	ICD	Any mental disorders (341630)	NA	15 years
Ientile et al. (2013) <sup>16</sup>	Italy	Health system case register	2008-2012	Dementia	Diagnosis in care register, administrative data or medical records	ICD/ DSM	290	Women: 179 Men: 111	Age at diagnosis (Mean age=80.3 years)
Laursen et al. (2013) <sup>17</sup>	Denmark, Finland, Sweden	Health system case register	2000-2007	Schizophrenia, bipolar disorder	Diagnosis in care register, administrative data or medical records	ICD	Denmark: Schizophrenia (20430), Bipolar disorder (11101) Finland:	Denmark: Schizophrenia (Women: 8424; Men: 12006), Bipolar disorder (6821; 4280) Finland:	15 years

							Schizophrenia (20835), Bipolar disorder (9919) Sweden: Schizophrenia (24823), Bipolar disorder (18355)	Schizophrenia (10466; 10369), Bipolar disorder (5430; 4489) Sweden: Schizophrenia (10516; 14307), Bipolar disorder (10988; 7367)	
Lawrence et al. (2013) <sup>18</sup>	Australia	Health system case register	1985-2005	Any mental disorder, Alcohol and substance use disorder, schizophrenia, affective psychosis, other non-affective psychoses, neurotic disorders, stress or adjustment disorders, depressive disorders	Diagnosis in care register, administrative data or medical records	ICD	Any mental disorders (292585)	NA	At Birth
Nordentoft et al. (2013) <sup>19</sup>	Denmark, Finland, Sweden	Health system case register	2000-2006	Substance use disorder, schizophrenia-spectrum disorders, mood disorders, personality disorders	Diagnosis in care register, administrative data or medical records	ICD	Denmark: Substance use disorder (34420), schizophrenia-spectrum disorders (11147), mood disorders (24766), personality disorders (5681) Finland: Substance use disorder (31994), schizophrenia-spectrum disorders (17238), mood disorders (37008), personality disorders (2770) Sweden: Substance use disorder (53757), schizophrenia-spectrum disorders (12585), mood disorders (42268), personality disorders (4726)	Denmark: Substance use disorder (Women: 11422; Men: 22998), schizophrenia-spectrum disorders (5317; 5830), mood disorders (15324; 9442), personality disorders (3649; 2032) Finland: Substance use disorder (7590; 24404), schizophrenia-spectrum disorders (9285; 7953), mood disorders (23077; 13931), personality disorders (1368; 1402) Sweden: Substance use disorder (20381; 33376), schizophrenia-spectrum disorders (6571; 6014), mood disorders (25503; 16765), personality disorders (3074; 1652)	15 years

Chang et al. (2015) <sup>20</sup>	Taiwan	Hospital or health centre medical records	2006-2008	Heroin use disorder	Diagnostic interview	DSM	1283	Women: 156 Men: 1127	Age at diagnosis (Mean age=37.5)
Fekadu et al. (2015) <sup>21</sup>	Ethiopia	Community survey	1998-2012	Any severe mental illness, schizophrenia, bipolar disorder, severe depression	Diagnostic interview	ICD	Any severe mental illness (919), schizophrenia, bipolar disorder, severe depression	Any severe mental illness (Women: 347; Men: 572), schizophrenia (62; 296), bipolar disorder (153; 193), severe depression (132; 83)	At Birth
Kessing et al. (2015) <sup>22</sup>	Denmark	Health system case register	2000-2012	Bipolar disorder	Diagnosis in care register, administrative data or medical records	ICD	22635	Women: 13548 Men: 9087	15, 25, 35, 45, 55, 65, 75 years
Kessing et al. (2015) <sup>23</sup>	Denmark	Health system case register	2000-2012	Bipolar disorder	Diagnosis in care register, administrative data or medical records	ICD	22725	Women: 13650 Men: 9102	15, 25, 35, 45, 55, 65, 75 years
Lesage et al. (2015) <sup>24</sup>	Canada	Health insurance database, health system case register	1999-2012	Any mental disorders, schizophrenia, mood and anxiety disorders	Diagnosis in care register, administrative data or medical records	ICD	NA	NA	1 year
Tom et al. (2015) <sup>25</sup>	United States	Hospital or health centre medical records	1994-2010	Dementia	Diagnostic interview	DSM	815	Women: 508 Men: 307	70, 75, 80, 85, 90 years
Laursen et al. (2016) <sup>26</sup>	Denmark	Health system case register	1995-2013	Depressive disorders	Diagnosis in care register, administrative data or medical records	ICD	1650574	Women: 1095587 Men: 554987	15, 30, 45, 60, 75 years
Leng et al. (2016) <sup>27</sup>	Taiwan	Health insurance database	2000-2011	Schizophrenia	Diagnosis in care register, administrative data or medical records	ICD	34658	Women: 15805 Men: 18853	20-29, 30-39, 40-49, 50-59, 60-64 years
Tam et al. (2016) <sup>28</sup>	United States	Community survey	1997-2009	Severe mental illness	Self-report	No criteria	11563	Women: 7803 Men: 3760	All ages since birth
Zhou et al. (2016) <sup>29</sup>	Germany	Health insurance database	2005-2010	Dementia	Diagnosis in care register, administrative data or medical records	ICD	2888	NA	75 years

Bitter et al. (2017) <sup>30</sup>	Hungary	Health insurance database	2005-2013	Schizophrenia	Diagnosis in care register, administrative data or medical records	ICD	65169	Women: 37948 Men: 27221	20, 45 years
Cailhol et al. (2017) <sup>31</sup>	Canada	Health insurance database	2001-2012	Any mental disorders, personality disorders	Diagnosis in care register, administrative data or medical records	ICD	NA	NA	20 years
Chang et al. (2017) <sup>32</sup>	United States, Taiwan	Hospital or health centre medical records	United States (2006-2009), Taiwan (2006-2008)	Opioid use disorder	Service receipt (USA), diagnosis in care register, administrative data or medical records (Taiwan)	United States (no criteria), Taiwan (DSM)	United States (1267), Taiwan (983)	United States (Women: 408; Men: 859) Taiwan (115; 868)	Age at baseline assessment (Mean age=37.4 for United States cohort; mean age=37.8 for Taiwan cohort)
Jayatilleke et al. (2017) <sup>33</sup>	United Kingdom	Health system case register	2007-2012	Severe mental illness	Diagnosis in care register, administrative data or medical records	ICD	19106	Women: 8692 Men: 10414	At Birth
Castle & Chung (2018) <sup>34</sup>	Australia	Health system case register	2008-2015	Schizophrenia	Medication prescription records	No criteria	9533	Women: 4436 Men: 5097	At Birth
Strand et al. (2018) <sup>35</sup>	Norway	Health system case register	2009-2017	Dementia	Cognitive and physical function tests, blood taking, MRI/ CT of brain, diagnostic interview	No criteria, ICD	2684	Women: 1543 Men: 1141	70, 75 years
Barkley & Fischer (2019) <sup>36</sup>	United States	Hospital or health centre medical records	1979-2004	ADHD	Diagnosis in care register, administrative data or medical records	DSM	131	NA	Age at which the actuarial tables were available for subjects' age and sex in 2004
Garre-Olmo et al. (2019) <sup>37</sup>	Spain	Health system case register	2007-2015	Dementia	Diagnostic interview	DSM	5156	Women: 3284 Men: 1872	Age at diagnosis (Mean age=80.4), 60-69, 70-79, 80-89, ≥90
Strand et al. (2019) <sup>38</sup>	Norway	Health system case register	2009-2017	Dementia	Diagnosis in case register, administrative data or medical records	DSM	2911	Women: 1647 Men: 1264	60, 65, 70, 75, 80 years
Lewer et al. (2020) <sup>39</sup>	Australia	Health system case register	2001-2018	Opioid use disorder	Medication prescription records	No criteria	47197	Women: 15149 Men: 32048	18 years



Pan et al. (2020) <sup>40</sup>	Taiwan	Health insurance database	2005, 2010	Schizophrenia, bipolar disorder, depressive disorders	Diagnosis in care register, administrative data or medical records	ICD	Cohort 2005: Schizophrenia (95632), bipolar disorder (45392), depressive disorders (395006) Cohort 2010: Schizophrenia (104561), bipolar disorder (58317), depressive disorders (435585)	Cohort 2005: Schizophrenia (Women: 44097; Men: 51535), bipolar disorder (25686; 19706), depressive disorders (247090; 147916) Cohort 2010: Schizophrenia (49608; 54953), bipolar disorder (34180; 24137), depressive disorders (276372; 159213)	At Birth
Chan et al. (2021) <sup>41</sup>	Hong Kong	Health system case register	2008-2018	Bipolar disorder	Diagnosis in care register, administrative data or medical records	ICD	12556	Women: 7628 Men: 4928	Ages since 15 years
Das-Munshi et al. (2021) <sup>42</sup>	United Kingdom	Health system case register	2007-2014	Any severe mental illness, schizophrenia-spectrum disorder, bipolar disorder, depressive disorders	Diagnosis in care register, administrative data or medical records	ICD	Any severe mental illness (18335); schizophrenia-spectrum disorder (13266), bipolar disorder (5069), depressive disorders (20203)	Any severe mental illness (Women: 8640; Men: 9695); schizophrenia-spectrum disorder (5621; 7645), bipolar disorder (3019; 2050), depressive disorders (12569; 7634)	At Birth
Korhonen et al. (2021) <sup>43</sup>	Denmark, Finland, Sweden, Italy	Health system case register	1993-2007 (Denmark, Finland, Sweden), 2000-2007 (Italy)	Depressive disorders	Diagnosis in care register, administrative data or medical records (Denmark, Finland, Sweden), medication prescription records (Finland, Italy)	ICD (Denmark, Finland, Sweden), no criteria (Finland, Italy)	NA	NA	15 years
Madsen et al. (2021) <sup>44</sup>	Denmark	Health system case register	2005-2012	Depressive disorders	Diagnosis in care register, administrative data or medical records	ICD	154513	Women: 90460 Men: 64053	40 years
Moreno-Kustner et al. (2021) <sup>45</sup>	Spain	Health system case register	2003-2016	Schizophrenia-spectrum disorders (schizophrenia & other non-affective psychoses)	Diagnosis in care register, administrative data or medical records	ICD	Schizophrenia-spectrum disorders (1418), schizophrenia (852), other non-affective psychoses (566)	Schizophrenia-spectrum disorders (Women: 511; Men: 907)	At Birth

Yasar & Yildiz (2021) <sup>46</sup>	Turkey	Health system case register	2008-2018	Schizophrenia, schizoaffective disorders	Diagnosis in care register, administrative data or medical records	DSM	Schizophrenia (441), schizoaffective disorders (65)	Overall (Women: 185; Men: 321)	At Birth
Yung et al. (2021) <sup>47</sup>	Hong Kong	Health system case register	2006-2016	Schizophrenia, other non-affective psychoses	Diagnosis in care register, administrative data or medical records	ICD	Schizophrenia (46896), other non-affective psychoses (20651)	Schizophrenia (Women: 24103; Men: 22793), other non-affective psychoses (12742; 7909)	Ages since 18 years
Hu et al. (2022) <sup>48</sup>	China	Community survey	2015-2017	Depressive disorders, anxiety disorders	Self-report	No criteria	Depressive disorders (312), anxiety disorders (204)	Depressive disorders (Women: 191; Men: 121), anxiety disorders (Women: 143; Men: 61)	60 years
Liu et al. (2022) <sup>49</sup>	China	Health system case register	2009-2017	Schizophrenia	Diagnostic interview	ICD	228572	Women: 119315 Men: 109257	At Birth
Matsuyama et al. (2022) <sup>50</sup>	Japan	Community survey	2006-2017	Depressive disorders	Self-report	No criteria	3342	NA	65 years
Tseng et al. (2022) <sup>51</sup>	Taiwan	Health system case register	2002-2013	Any mental disorders, organic mental disorders, substance use disorders, schizophrenia, affective psychoses, other mental disorders	Diagnosis in care register, administrative data or medical records	ICD	Any mental disorders (905), organic mental disorders (126), substance use disorders (83), schizophrenia (151), affective psychoses (139), other mental disorders (406)	Overall (Women: 331; Men: 574)	At birth
Chang et al. (2023) <sup>52</sup>	United Kingdom	Health system case register	2008-2017	Severe mental illnesses, schizophrenia, schizoaffective disorders, bipolar disorder	Diagnosis in care register, administrative data or medical records	ICD	Severe mental illnesses (18359), schizophrenia (11329), schizoaffective disorder (1092), bipolar disorder (5938)	Severe mental illnesses (Women: 8637; Men: 9722), schizophrenia (Women: 4424; Men: 6905), schizoaffective disorder (Women: 596; Men: 496), bipolar disorder (Women: 3617; Men: 2321)	At birth
da Roza et al. (2023) <sup>53</sup>	Brazil	Health system case register	2002-2016	Any mental disorders, alcohol use disorders, substance use disorders, schizophrenia-spectrum disorders, mood disorders, other mental disorders	Diagnosis in care register, administrative data or medical records	ICD	Any mental disorders (4019)	Any mental disorders (Women: 1818; Men: 2201)	At birth

Ren et al. (2023) <sup>54</sup>	China	Health system case register	2015-2019	Schizophrenia	Diagnosis in care register, administrative data or medical records	ICD	99214	Women: 39589; Men: 40951	At birth
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**Supplementary Table 5. Characteristics of included studies for years of potential life lost outcome**

Study	Country/region	Source of study samples	Study period	Diagnoses	Method for mental-disorder case ascertainment	Diagnostic system	Patients sample size	Proportion of men and women	Reference population for comparison	Sample size of reference population <sup>a</sup>	Method to estimate YPLL	Causes of death
Shinozaki (1976) <sup>1</sup>	Japan	Health system case register	1968-1970	Any mental disorders	Diagnosis in care register, administrative data or medical records	ICD	30725	NA	General population	4337730	Age at death	All causes
Newman & Bland (1991) <sup>2</sup>	Canada	Health system case register	1976-1985	Schizophrenia	Diagnostic interview	ICD	3623	Women: 1501 Men: 2122	General population	2827000	Life expectancy (at birth)	All causes
Poser et al. (1992) <sup>3</sup>	Germany	Hospital or health centre medical records	1974-1991	Substance use disorder (alone or in combination with alcohol use disorder); alcohol use disorder	Diagnostic interview	DSM	Substance use disorder (1414); alcohol use disorder (712)	Substance use disorder (Women: 674; Men: 740), alcohol use disorder (142; 570)	General population	78330000	Age at death	All causes
Marshall et al. (1994) <sup>4</sup>	United Kingdom	Health system case register	1968-1988	Alcohol use disorder	Diagnostic interview	ICD	99	Women: 0 Men: 99	General population	56200000	Age at death	Circulatory diseases, digestive diseases, injury and poisoning, neoplasms, others
Dembling et al. (1999) <sup>5</sup>	United States	Health system case register	1989-1994	Any mental disorders	Diagnosis in care register, administrative data or medical records	ICD/ DSM	43274	Women: 18564 Men: 24710	General population	4700000	Age at death	All causes, natural causes, infectious diseases, neoplasms, endocrine diseases, blood diseases, mental illness, nervous system, circulatory diseases, respiratory diseases, digestive diseases, genitourinary

												diseases, skin, musculoskeletal diseases, congenital diseases, external causes, accident, suicide, homicide, events of undetermined intent
Hannerz & Borga (2000) <sup>6</sup>	Sweden	Health system case register	1983 (1-year follow-up)	Functional psychosis	Diagnosis in care register, administrative data or medical records	ICD	17878	Women: 23256 Men: 17878	General population	8329000	Life expectancy (at age 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80 years)	All causes
Hannerz et al. (2001) <sup>7</sup>	Sweden	Health system case register	1983 (1-year follow-up)	Schizophrenia, affective psychosis, other functional psychoses, organic psychoses, substance use disorder, neurotic disorders, personality disorder	Diagnosis in care register, administrative data or medical records	ICD	Schizophrenia (13823), affective psychosis (12288), other functional psychoses (15042), organic psychosis (6317), substance use disorder (53237), neurotic disorders (36489), personality disorder (3825)	Schizophrenia (Women: 6237; Men: 7586), affective psychosis (7810; 4478), other functional psychoses (9218; 5824), organic psychosis (4082; 2235), substance use disorder (8843; 44394), neurotic disorders (23978; 12511), personality disorder (1596; 2229)	General population	8329000	Life expectancy (at age 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80 years)	All causes
Dodge et al. (2003) <sup>8</sup>	United States	Community survey	1987-1997	Dementia	Diagnostic interview	DSM	1201	Women: 745 Men: 456	General population	279000000	Life expectancy of patients (ages at even number since 70)	All causes



Dickey et al. (2004) <sup>9</sup>	United States	Health system case register	1997-1998	Severe mental illness (schizophrenia-spectrum disorders & bipolar disorder), other mental illness (anxiety, dysthymia, somatoform disorders, dissociative disorders, adjustment disorders, depressive disorders, impulse control disorders), substance use disorder	Diagnosis in care register, administrative data or medical records	ICD	Severe mental illness (11048), other mental illness (21438), substance use disorder (6113)	Severe mental illness (Women: 1185; Men: 3864), other mental illness (6739; 4309), substance use disorder (2629; 3484)	General population	250100000	Age at death	All causes
Brugal et al. (2005) <sup>10</sup>	Spain	Hospital or health centre medical records	1992-1999	Heroin use disorder	Service receipt	No criteria	5049	Women: 1185 Men: 3864	General population	26720000	Life expectancy at birth	All causes
Colton & Manderscheid (2006) <sup>11</sup>	United States	Health system case register	1997-2000	Any mental disorders	Diagnosis in care register, administrative data or medical records	DSM	NA	NA	General population	276100000	Age at death	All causes
Miller et al. (2006) <sup>12</sup>	United States	Health system case register	1998-2002	Serious mental illness (schizophrenia, schizoaffective disorders, bipolar disorder, depressive disorders, substance use disorder)	Diagnosis in care register, administrative data or medical records	ICD	20018	NA	General population	282200000	Age at death	All causes, diabetes, pneumonia and influenza, heart diseases, cerebrovascular disease, neoplasms, chronic lower respiratory diseases, suicide, accidents, homicide

Smyth et al. (2006) <sup>13</sup>	United States	Hospital or health centre medical records	1964-1998	Narcotics use disorder	Service receipt	No criteria	581	Women: 0 Men: 581	General population	229500000	Life expectancy at age of assessment	All causes
Miller et al. (2007) <sup>14</sup>	Canada	Hospital or health centre medical records	1996-2004	Substance use disorder	Injection site inspection	No criteria	572	Women: 268 Men: 304	General population	30690000	Life expectancy at age 15 years	All causes
Smyth et al. (2007) <sup>15</sup>	United States	Hospital or health centre medical records	1962-1997	Heroin use disorder	Service receipt	No criteria	581	Women: 0 Men: 581	Before age 65 years	NA	Age at death	All causes, heroin overdose, chronic liver disease, cardiovascular diseases, stroke, neoplasm, respiratory diseases, endocrine diseases, infectious diseases, suicide, accidents, homicide, poisoning or injury, overdose of causes other than heroin, drug disorder, alcohol use, others
Haver et al. (2008) <sup>16</sup>	Sweden	Hospital or health centre medical records	1981-2007	Alcohol use disorder	Diagnostic interview	DSM	420	Women: 420 Men: 0	General population of women	2037	Age at death	All causes
Hiroeh et al. (2008) <sup>17</sup>	Denmark	Health system case register	1973-1993	Any mental disorders, schizophrenia, affective psychoses, non-affective psychoses, neurosis, personality disorders, alcohol use disorders, drug use disorders	Diagnosis in care register, administrative data or medical records	ICD	Any mental disorders (69841), schizophrenia (2415), affective psychoses (12860), non-affective psychoses (5370), neurosis (5402),	Any mental disorders (Women: 37129; Men: 32712), schizophrenia (1207; 1208), affective psychoses (8079; 4781), non-affective psychoses (3414; 1956), neurosis	Before age 75 years	NA	Age at death	All natural causes, neoplasm, circulatory diseases, respiratory diseases, gastrointestinal diseases, genitourinary diseases, endocrine/metabolic diseases,

							personality disorders (3934), alcohol use disorders (7410), drug use disorders (1282)	(3935; 1467), personality disorders (2116; 1818), alcohol use disorders (1475; 5935), drug use disorders (779; 503)				nervous system diseases, infectious diseases, all other natural causes
Tiihonen et al. (2009) <sup>18</sup>	Finland	Health system case register	1996-2006	Schizophrenia	Diagnosis in care register, administrative data or medical records	ICD	66881	Women: 36078 Men: 30803	General population	5200000	Life expectancy at age 20, 40 years	All causes
Kiviniemi et al. (2010) <sup>19</sup>	Finland	Health system case register	1995-2001	Schizophrenia	Diagnosis in care register, administrative data or medical records	ICD	7591	Women: 3188 Men: 4403	General population	5153000	Age at death	All causes, natural causes, neoplasms, endocrine, nutritional and metabolic diseases, nervous system, circulatory diseases, respiratory diseases, digestive diseases, alcohol-related diseases, unnatural causes, suicide, homicide, accidents, events of undetermined intent
Piatt et al. (2010) <sup>20</sup>	United States	Health system case register	1998-2004	Schizophrenia, schizoaffective disorders, mood disorders, anxiety disorder and personality disorders	Diagnosis in care register, administrative data or medical records	ICD	Overall (649)	Women: 402 Men: 247	General population; People without mental disorders	22828	Age at death	All causes, heart diseases, neoplasms, cerebrovascular diseases, chronic lower respiratory diseases, influenza or pneumonia, liver disease or cirrhosis,

												diabetes, dementia, septicemia, nephritis, suicide
Chang et al. (2011) <sup>21</sup>	United Kingdom	Health system case register	2007-2009	Schizophrenia, schizoaffective disorders, bipolar disorder, substance use disorder, depressive disorders	Diagnosis in care register, administrative data or medical records	ICD	Schizophrenia (7018), schizoaffective disorders (1312), bipolar disorder (2699), substance use disorder (10922), depressive disorders (11681)	Schizophrenia (Women: 2592; Men: 4426), schizoaffective disorders (660; 652), bipolar disorder (1573; 1126), substance use disorder (3268; 7654), depressive disorders (7417; 4264)	General population	61810000	Life expectancy at birth	All causes
Druss et al. (2011) <sup>22</sup>	United States	Community survey	1989-2006	Any mental disorders	Self-report	No criteria	1725	Women: 953 Men: 772	People without mental disorders	79125	Age at death	All causes
Hayes et al. (2011) <sup>23</sup>	United Kingdom	Health system case register	2007-2009	Alcohol use disorder, opioid use disorder	Diagnosis in care register, administrative data or medical records	ICD	Alcohol use disorder (4961), opioid use disorder (4834)	NA	General population	61320000	Life expectancy at birth	All causes
Laursen (2011) <sup>24</sup>	Denmark	Health system case register	2000-2006	Schizophrenia, bipolar disorder	Diagnosis in care register, administrative data or medical records	ICD	Schizophrenia (31727), bipolar disorder (17037)	NA	General population	5036662	Life expectancy at age 15 years	All causes, circulatory diseases, other natural causes, unnatural causes
Wahlbeck et al. (2011) <sup>25</sup>	Denmark, Finland, Sweden	Health system case register	1987-2006	Any mental disorders	Diagnosis in care register, administrative data or medical records	ICD	Denmark (288407), Finland (456386), Sweden (340287)	Denmark (Women: 151275; Men: 137132), Finland (198043; 258343), Sweden (159021; 181266)	General population	Denmark (5263000), Finland (5125000), Sweden (8841000)	Life expectancy at age 15 years	All causes

Fok et al. (2012) <sup>26</sup>	United Kingdom	Health system case register	2007-2010	Personality disorder	Diagnosis in care register, administrative data or medical records	ICD	1836	Women: 1103 Men: 733	General population	54454700	Life expectancy at birth	All causes
Healy et al. (2012) <sup>27</sup>	United Kingdom	Health system case register	1900-1910 (historical cohort); 1994-2010 (contemporary cohort)	Schizophrenia-spectrum disorders, schizophrenia, other non-affective psychoses	Diagnosis in care register, administrative data or medical records	ICD	Historical cohort: Schizophrenia-spectrum disorders (1074), schizophrenia (605), other non-affective psychoses (469); Contemporary cohort: Schizophrenia-spectrum disorders (355), schizophrenia (227), other non-affective psychoses (128)	NA	General population	Historical cohort (58020000), contemporary cohort (59370000)	Historical cohort (life expectancy at birth); contemporary cohort (age at birth)	All causes
Kodesh et al. (2012) <sup>28</sup>	Israel	Health insurance database	2003-2009	Schizophrenia-spectrum disorder, bipolar disorder	Diagnosis in care register, administrative data or medical records	ICD	Schizophrenia-spectrum disorder (5732), bipolar disorder (8848)	NA	General population	7054000	Life expectancy at age 20 years	All causes
Morden et al. (2012) <sup>29</sup>	United States	Health system case register	2000-2007	Schizophrenia	Diagnosis in care register, administrative data or medical records	ICD	65362	Women: 7859 Men: 57503	People without severe mental illness	65362	Age at death	All causes
Nome & Holsten (2012) <sup>30</sup>	Norway	Hospital or health centre medical records	1985-2003	Any mental disorders	Service receipt	No criteria	4474	Women: 2120 Men: 2354	General population	4337000	Age at death	All causes

Rizzuto et al. (2012) <sup>31</sup>	Sweden	Health system case register	1987-1998	Dementia	Diagnostic interview	DSM	371	Women: 304 Men: 67	General population	8668000	Age at death	All causes
Westman et al. (2012) <sup>32</sup>	Finland	Health system case register	1981-2003	Any mental disorders, substance use disorder, schizophrenia-spectrum disorder, mood disorder, neurotic disorders	Diagnosis in care register, administrative data or medical records	ICD	Any mental disorders (341630)	NA	General population	5042000	Life expectancy at age 15 years	All causes
Zivin et al. (2012) <sup>33</sup>	United States	Health system case register	2007 (1-year follow-up)	Depressive disorders	Diagnosis in care register, administrative data or medical records	ICD	701659	Women: 71655 Men: 630004	General population; People without depression	General population (4946852), people without depression (4245193)	Age at death	All causes, cerebrovascular diseases, diabetes, heart diseases, influenza and pneumonia, liver disease, neoplasms, nephritis, respiratory diseases, septicemia, suicide, accidents, homicide, all others
Ajetunmobi et al. (2013) <sup>34</sup>	United Kingdom	Health system case register	1986-2010	Schizophrenia-spectrum disorders, bipolar disorder, depression, anxiety disorders & OCD, eating disorders, personality disorders	Diagnosis in care register, administrative data or medical records	ICD	Schizophrenia-spectrum disorders (15965), bipolar disorder (3876), depression (33161), anxiety disorders & OCD (3075), eating disorders (635), personality	Schizophrenia-spectrum disorders (Women: 6999; Men: 8966), bipolar disorder (2196; 1680), depression (20383; 12778), anxiety disorders & OCD (1946; 1129), eating disorders (586; 49), personality	General population	58490000	Age at death	All causes, natural causes, unnatural causes, other causes

							disorders (2316)	disorders (1095; 1221)				
Crump et al. (2013) <sup>35</sup>	Sweden	Health system case register	2003-2009	Schizophrenia	Diagnosis in care register, administrative data or medical records	ICD	8277	Women: 3490 Men: 4787	People without schizophrenia	6089557	Age at death	All causes, natural causes, ischemic heart disease
Crump et al. (2013) <sup>36</sup>	Sweden	Health system case register	2003-2009	Bipolar disorder	Diagnosis in care register, administrative data or medical records	ICD	6618	Women: 3918 Men: 2700	People without bipolar disorder	6580418	Age at death	All causes, natural causes,
Degenhardt et al. (2013) <sup>37</sup>	Australia	Hospital or health centre medical records	1985-2005	Opioid use disorder	Service receipt	No criteria	43789	Women: 14860 Men: 28939	General population; before age 65 years	19514000	Age at death	All causes, cardiovascular diseases, neoplasm, liver diseases, HIV, opioid-related accidents, other- drug related accidents, motor vehicle accident, suicide, violence, any other causes
Ientile et al. (2013) <sup>38</sup>	Italy	Health system case register	2008-2012	Dementia	Diagnosis in care register, administrative data or medical records	ICD/ DSM	290	Women: 179 Men: 111	General population	59280000	Life expectancy at diagnosis	All causes
Laursen et al. (2013) <sup>39</sup>	Denmark, Finland, Sweden	Health system case register	2000-2007	Schizophrenia , bipolar disorder	Diagnosis in care register, administrative data or medical records	ICD	Denmark: Schizophre nia (20430), Bipolar disorder (11101) Finland: Schizophre nia (20835), Bipolar disorder (9919) Sweden:	Denmark: Schizophrenia (Women: 8424; Men: 12006), Bipolar disorder (6821; 4280) Finland: Schizophrenia (10466; 10369), Bipolar disorder (5430; 4489) Sweden:	General population	Denmark (5405000), Finland (5228000), Sweden (8994000)	Life expectancy at age 15 years	All causes

							Schizophrenia (24823), Bipolar disorder (18355)	Schizophrenia (10516; 14307), Bipolar disorder (10988; 7367)				
Lawrence et al. (2013) <sup>40</sup>	Australia	Health system case register	1985-2005	Any mental disorder, Alcohol and substance use disorder, schizophrenia, affective psychosis, other non-affective psychoses, neurotic disorders, stress or adjustment disorders, depressive disorders	Diagnosis in care register, administrative data or medical records	ICD	Any mental disorders (292585)	NA	General population	18000000	Life expectancy at birth	All causes
Nordentoft et al. (2013) <sup>41</sup>	Denmark, Finland, Sweden	Health system case register	2000-2006	Substance use disorder, schizophrenia-spectrum disorders, mood disorders, personality disorders	Diagnosis in care register, administrative data or medical records	ICD	Denmark: Substance use disorder (34420), schizophrenia-spectrum disorders (11147), mood disorders (24766), personality disorders (5681) Finland: Substance use disorder (31994), schizophrenia-spectrum disorders (17238), mood disorders (37008),	Denmark: Substance use disorder (Women: 11422; Men: 22998), schizophrenia-spectrum disorders (5317; 5830), mood disorders (15324; 9442), personality disorders (3649; 2032) Finland: Substance use disorder (7590; 24404), schizophrenia-spectrum disorders (9285; 7953), mood	General population	Denmark (5391000), Finland (5213000), Sweden (8958000)	Life expectancy at age 15 years	All causes



							personality disorders (2770) Sweden: Substance use disorder (53757), schizophrenia-spectrum disorders (12585), mood disorders (42268), personality disorders (4726)	disorders (23077; 13931), personality disorders (1368; 1402) Sweden: Substance use disorder (20381;33376), schizophrenia-spectrum disorders (6571; 6014), mood disorders (25503; 16765), personality disorders (3074; 1652)				
Almeida et al. (2014) <sup>42</sup>	Australia	Health system case register	1996-2010	Schizophrenia-spectrum disorders, bipolar disorder, depressive disorders, alcohol use disorder	Diagnosis in care register, administrative data or medical records	ICD	Schizophrenia-spectrum disorders (444), bipolar disorder (101), depressive disorders (958), alcohol use disorder (698)	Schizophrenia-spectrum disorders (Women:0; Men: 444), bipolar disorder (0; 101), depressive disorders (0; 958), alcohol use disorder (0; 698)	General population	19720000	Life expectancy at ages of assessment (65-85 years)	All causes
Veldhuizen & Callaghan (2014) <sup>43</sup>	United States	Health system case register	1990-2005	Opioid use disorder	Diagnosis in care register, administrative data or medical records	ICD	68066	Women: 33926 Men: 34140	Before age 75 years	NA	Age at death	All causes
Chang et al. (2015) <sup>44</sup>	Taiwan	Hospital or health centre medical records	2006-2008	Heroin use disorder	Diagnostic interview	DSM	1283	Women: 156 Men: 1127	General population	22942308	Life expectancy at diagnosis (Mean age=37.5)	All causes
Charrel et al. (2015) <sup>45</sup>	France	Health system case register	2004-2007	Any mental disorders	Diagnosis in care register,	ICD	4417	Women: 2016 Men: 2401	General population	63630000	Age at death	All causes

					administrative data or medical records							
Fekadu et al. (2015) <sup>46</sup>	Ethiopia	Community survey	1998-2012	Any severe mental illness, schizophrenia, bipolar disorder, severe depression	Diagnostic interview	ICD	Any severe mental illness (919), schizophrenia, bipolar disorder, severe depression	Any severe mental illness (Women: 347; Men: 572), schizophrenia (62; 296), bipolar disorder (153; 193), severe depression (132; 83)	General population	82000000	Age at death	All causes
Kessing et al. (2015) <sup>47</sup>	Denmark	Health system case register	2000-2012	Bipolar disorder	Diagnosis in care register, administrative data or medical records	ICD	Bipolar disorder	Women: 13548 Men: 9087	General population	5400000	Life expectancy at ages 15, 25, 35, 45, 55, 65, 75 years	All causes, natural causes, suicide, accidents
Kessing et al. (2015) <sup>48</sup>	Denmark	Health system case register	2000-2012	Bipolar disorder	Diagnosis in care register, administrative data or medical records	ICD	22725	Women: 13650 Men: 9102	General population	5400000	Life expectancy at ages 15, 25, 35, 45, 55, 65, 75 years	All causes
Lesage et al. (2015) <sup>49</sup>	Canada	Health insurance database, health system case register	1999-2012	Any mental disorders, schizophrenia, mood and anxiety disorders	Diagnosis in care register, administrative data or medical records	ICD	NA	NA	General population	7581000	Life expectancy at age 1 year	All causes
Olsson et al. (2015) <sup>50</sup>	United States	Health system case register	2001-2007	Schizophrenia	Diagnosis in care register, administrative data or medical records	ICD	1138853	Women: 528097 Men: 610711	General population	292800000	Age at death	All causes, natural causes, cardiovascular diseases, ischemic heart diseases, nonischemic heart diseases, cerebrovascular diseases, other circulatory diseases, neoplasm, lung cancer, colon cancer, breast cancer, liver

												cancer, pancreas cancer, hematologic cancer, other cancers, diabetes, renal failure, pneumonia and influenza, sepsis, chronic obstructive pulmonary disease, liver diseases, other natural causes, unnatural causes, accidents, accidents (poisoning), accidents (non-poisoning), homicide, suicide, events of undetermined intents
Roehr et al. (2015) <sup>51</sup>	Germany	Hospital or health centre medical records	2003-2012	Dementia	Diagnostic interview	ICD/ DSM	523	Women: 362 Men: 161	General population	82270000	Age at death	All causes
Tom et al. (2015) <sup>52</sup>	United States	Hospital or health centre medical records	1994-2010	Dementia	Physical and neurological examinations, neuropsychological test, and laboratory and neuroimaging examination; diagnostic interview	DSM	815	Women: 508 Men: 307	People without dementia	2790	Life expectancy at age 70, 75, 80, 85, 90 years	All causes
Banerjee et al. (2016) <sup>53</sup>	India	Community survey	2003-2008	Dementia	Diagnostic interview	DSM	103	Women: 48 Men: 55	General population	1155000000	Age at death	All causes
Dickerson et al. (2016) <sup>54</sup>	United States	Hospital or health centre medical records	1999-2012	Schizophrenia or schizoaffective disorder, bipolar disorder	Diagnostic interview	DSM	Schizophrenia / schizoaffective disorder (710), bipolar	Schizophrenia / schizoaffective disorder (Women: 271; Men: 439), bipolar	Before age 75 years	NA	Age at death	All causes

							disorder (406)	disorder (287; 119)				
Laursen et al. (2016) <sup>55</sup>	Denmark	Health system case register	1995-2013	Depressive disorders	Diagnosis in care register, administrative data or medical records	ICD	1650574	Women: 1095587 Men: 554987	General population	5103699	Life expectancy at age 15, 30, 45, 60, 75 years	All causes
Leng et al. (2016) <sup>56</sup>	Taiwan	Health insurance database	2000-2011	Schizophrenia	Diagnosis in care register, administrative data or medical records	ICD	34658	Women: 15805 Men: 18853	General population	22796306	Life expectancy at age 20-29, 30-39, 40-49, 50-59, 60-64 years	All causes
Tam et al. (2016) <sup>57</sup>	United States	Community survey	1997-2009	Severe mental illness	Self-report	No criteria	11563	Women: 7803 Men: 3760	People without severe mental illness	311551	Life expectancy since birth	All causes
Zhou et al. (2016) <sup>58</sup>	Germany	Health insurance database	2005-2010	Dementia	Diagnosis in care register, administrative data or medical records	ICD	2888	NA	People without dementia	45758	Life expectancy at age 75 years	All causes
Bitter et al. (2017) <sup>59</sup>	Hungary	Health insurance database	2005-2013	Schizophrenia	Diagnosis in care register, administrative data or medical records	ICD	65169	Women: 37948 Men: 27221	People without schizophrenia	325435	Life expectancy at age 20, 45 years	All causes
Cailhol et al. (2017) <sup>60</sup>	Canada	Health insurance database	2001-2012	Any mental disorders, personality disorders	Diagnosis in care register, administrative data or medical records	ICD	NA	NA	General population	7632000	Life expectancy at age 20 years	All causes
Chang et al. (2017) <sup>61</sup>	United States, Taiwan	Hospital or health centre medical records	United States (2006-2009), Taiwan (2006-2008)	Opioid use disorder	Service receipt (USA), diagnosis in care register, administrative data or medical records (Taiwan)	United States (no criteria), Taiwan (DSM)	United States (1267), Taiwan (983)	United States (Women: 408; Men: 859) Taiwan (115; 868)	General population	United States (301200000), Taiwan (22942308)	Life expectancy at age of baseline assessment (Mean age=37.4 for United States cohort; mean age=37.8 for Taiwan cohort)	All causes

Erlangsen et al. (2017) <sup>62</sup>	Denmark	Health system case register	1995-2014	Any mental disorders	Diagnosis in care register, administrative data or medical records	ICD	589327	Women: 327322 Men: 262005	People without mental disorder	6107234	Life expectancy at diagnosis	All causes, infectious diseases, neoplasm, diabetes, heart diseases, respiratory diseases, digestive diseases, alcohol misuse, accident, suicide, any other causes
Jayatileke et al. (2017) <sup>63</sup>	United Kingdom	Health system case register	2007-2012	Severe mental illness	Diagnosis in care register, administrative data or medical records	ICD	19106	Women: 8692 Men: 10414	General population	55692500	Life expectancy at birth	All causes, circulatory diseases, neoplasm, respiratory diseases, digestive diseases, suicide, other unnatural cases, any other causes
Castle & Chung (2018) <sup>64</sup>	Australia	Health system case register	2008-2015	Schizophrenia	Medication prescription records	No criteria	9533	Women: 4436 Men: 5097	People without schizophrenia	9533	Life expectancy at birth	All causes
Dickerson et al. (2018) <sup>65</sup>	United States	Hospital or health centre medical records	1999-2015	Severe mental illness (schizophrenia, schizoaffective disorder, bipolar disorder)	Diagnostic interview	DSM	Severe mental illness (1287), schizophrenia or schizoaffective disorder (789), bipolar disorder (498)	Severe mental illness (Women: 643; Men: 644), schizophrenia or schizoaffective disorder (297; 492), bipolar disorder (345; 153)	Before age 75 years	NA	Age at death	Natural causes
Ko et al. (2018) <sup>66</sup>	Taiwan	Health system case register	1998-2010	Schizophrenia	Diagnosis in care register, administrative data or medical records	DSM	4298	Women: 2001 Men: 2297	General population	22703099	Age at death	All causes, cardiovascular diseases, cerebrovascular diseases, diabetes, pneumonia,

												neoplasm, hepatitis and liver cirrhosis, nephritis and renal failure, suicide, homicide
Laursen et al. (2018) <sup>67</sup>	Denmark	Health system case register	1995-2015	Schizophrenia	Diagnosis in care register, administrative data or medical records	ICD	47554	Women: 20257 Men: 27297	General population	6641608	Life expectancy at age of diagnosis	All causes, infectious diseases, neoplasm, diabetes, circulatory diseases, respiratory diseases, digestive diseases, alcohol misuse, accident, suicide, any other causes
Lichtenstein et al. (2018) <sup>68</sup>	Canada	Hospital or health centre medical records	1997-2015	Dementia	Diagnostic interview	DSM	168	Women: 98 Men: 70	General population	4242000	Life expectancy at assessment (mean age=79.4)	All causes
Strand et al. (2018) <sup>69</sup>	Norway	Health system case register	2009-2017	Dementia	Cognitive and physical function tests; blood taking; MRI/ CT of brain; diagnostic interview	No criteria, ICD	2684	Women: 1543 Men: 1141	General population	5080000	Life expectancy at age 70, 75 years	All causes
Barkley & Fischer (2019) <sup>70</sup>	United States	Hospital or health centre medical records	1979-2004	ADHD	Diagnosis in care register, administrative data or medical records	DSM	131	NA	People without ADHD	71	Life expectancy at age during which the actuarial tables were available for subjects' age and sex in 2004	All causes

Smith DaWalt et al. (2019) <sup>71</sup>	United States	Referrals from agencies, schools, clinics, media announcement	1998-2018	Autism spectrum disorder	Diagnostic interview	ICD/ DSM	406	Women: 153 Men: 253	General population	304100000	Age at death	All causes
Doyle et al. (2019) <sup>72</sup>	Ireland	Health system case register	1995-2015	Schizophrenia-spectrum disorders	Diagnosis in care register, administrative data or medical records	ICD/ DSM	171	Women: 72 Men: 99	General population	4160000	Age at death	All causes
Garre-Olmo et al. (2019) <sup>73</sup>	Spain	Health system case register	2007-2015	Dementia	Diagnostic interview	DSM	5156	Women: 3284 Men: 1872	People without dementia	15468	Life expectancy at age 60-69, 70-79, 80-89, ≥90 years	All causes
Gerritsen et al. (2019) <sup>74</sup>	Netherlands	Health system case register	2007-2013	Dementia	Diagnosis in care register, administrative data or medical records	ICD/ DSM	198	Women: 93 Men: 105	General population	173000	Age at death	All causes
Plana-Ripoll et al. (2019) <sup>75</sup>	Denmark	Health system case register	1995-2015	Any mental disorders, organic disorders, substance use disorders, schizophrenia-spectrum disorders, mood disorders, neurotic disorders, eating disorders, personality disorders, developmental disorders, behavioral disorders	Diagnosis in care register, administrative data or medical records	ICD	Any mental disorders (762419), organic disorders (123695), substance use disorders (154335), schizophrenia-spectrum disorders (103848), mood disorders (252235), neurotic disorders (321285), eating disorders (23196), personality disorders (141174), developmental	Any mental disorders (Women: 414447 Men: 347972), organic disorders (72295; 51400), substance use disorders (56915; 97420), schizophrenia-spectrum disorders (52809; 51039), mood disorders (158771; 93464), neurotic disorders (194321; 126964), eating disorders	General population	7369926	Life expectancy at age of diagnosis	All causes, natural causes, infectious diseases, neoplasm, diabetes, circulatory diseases, digestive diseases, alcohol misuse, other natural causes, unnatural causes, accident, suicide, homicide

							disorders (31251), behavioral disorders (83626)	(21788; 1408), personality disorders (87229; 53945); developmental disorders (7857; 23394); behavioral disorders (29335; 54291)				
Strand et al. (2019) <sup>76</sup>	Norway	Health system case register	2009-2017	Dementia	Diagnosis in care register, administrative data or medical records	DSM	2911	Women: 1647 Men: 1264	General population	5080000	Life expectancy at age 60, 65, 70, 75, 80 years	All causes
Iwajomo et al. (2020) <sup>77</sup>	Canada	Health system case register	1990-2013	Eating disorder	Diagnosis in care register, administrative data or medical records	ICD	19041	Women: 17108 Men: 1933	Before age 75 years	NA	Age at death	All causes
Lewer et al. (2020) <sup>78</sup>	Australia	Health system case register	2001-2018	Opioid use disorder	Medication prescription records	No criteria	47197	Women: 15149 Men: 32048	General population; before age 75 years	7130000	Life expectancy at age 18 years; age at death	All causes, infectious diseases, non-communicable diseases, accident, drug-related, mental health and suicide, any other causes
Pan et al. (2020) <sup>79</sup>	Taiwan	Health insurance database	2005, 2010	Schizophrenia, bipolar disorder, depression	Diagnosis in care register, administrative data or medical records	ICD	Cohort 2005: Schizophrenia (95632), bipolar disorder (45392), depression (395006) Cohort 2010: Schizophrenia	Cohort 2005: Schizophrenia (Women: 44097; Men: 51535), bipolar disorder (25686; 19706), depression (247090; 147916) Cohort 2010:	General population	2005 (22796306), 2010 (23162000)	Life expectancy at birth	All causes



							(104561), bipolar disorder (58317), depression (435585)	Schizophrenia (49608; 54953), bipolar disorder (34180; 24137), depression (276372; 159213)				
Plana-Ripoll et al. (2020) <sup>80</sup>	Denmark	Health system case register	1995-2016	Any mental disorders, organic disorders, substance use disorders, schizophrenia-spectrum disorders, mood disorders, neurotic disorders, eating disorders, personality disorders, developmental disorders, behavioral disorders	Diagnosis in care register, administrative data or medical records	ICD	Any mental disorders (546090), organic disorders (111575), substance use disorders (109264), schizophrenia-spectrum disorders (73131), mood disorders (199701), neurotic disorders (237277), eating disorders (17613), personality disorders (80160), developmental disorders (11004), behavioral disorders (37337)	NA	General population	7505576	Life expectancy at age of diagnosis	All causes
Wang et al. (2020) <sup>81</sup>	Taiwan	Health insurance database	2003-2013	Substance use disorder, schizophrenia-spectrum disorders, mood disorders, anxiety	Diagnosis in care register, administrative data or medical records	ICD	Substance use disorders (22830), schizophrenia-spectrum disorders (1662),	NA	General population	285125	Age at death	All causes

				disorders, any other mental disorders			mood disorders (17608), anxiety disorders (136642), any other mental disorders (106383)					
Weye et al. (2020) <sup>82</sup>	Denmark	Health system case register	2000-2015	Alcohol use disorder, drug use disorders, opioid use disorder, cannabis use disorder, cocaine use disorder, amphetamine use disorder, other drug use disorders, schizophrenia-spectrum disorders, bipolar disorder, depressive disorders, anxiety disorders, eating disorders, personality disorders, autism spectrum disorder, ADHD, conduct disorders	Diagnosis in care register, administrative data or medical records	ICD	Alcohol use disorder (54910), drug use disorders (26771), opioid use disorder (5764), cannabis use disorder (15749), cocaine use disorder (1813), amphetamine use disorder (2415), other drug use disorders (7312), schizophrenia-spectrum disorders (39258), bipolar disorder (28512), depressive disorders (189475), anxiety disorders (111980), eating disorders (14556), personality disorders	NA	General population	6989627	Life expectancy at age of diagnosis	All causes, infectious diseases, neoplasms, diabetes, circulatory diseases, respiratory diseases, digestive diseases, accidents, homicide, suicide, any other causes (alcohol, substance-related causes?)

							(83747), autism spectrum disorder (30616), ADHD (46623), conduct disorders (2209)					
Chan et al. (2021) <sup>83</sup>	Hong Kong	Health system case register	2008-2018	Bipolar disorder	Diagnosis in care register, administrative data or medical records	ICD	12556	Women: 7628 Men: 4928	General population	7179000	Life expectancy at age of diagnosis	All causes
Das-Munshi et al. (2020) <sup>84</sup>	United Kingdom	Health system case register	2007-2014	Any severe mental illness, schizophrenia -spectrum disorder, bipolar disorder, depression	Diagnosis in care register, administrative data or medical records	ICD	Any severe mental illness (18335); schizophren ia-spectrum disorder (13266), bipolar disorder (5069), depression (20203)	Any severe mental illness (Women: 8640; Men: 9695); schizophrenia -spectrum disorder (5621; 7645), bipolar disorder (3019; 2050), depression (12569; 7634)	General population	62770000	Life expectancy at birth	All causes
Dickerson et al. (2021) <sup>85</sup>	United States	Hospital or health centre medical records	1999-2018	Any severe mental illness (schizophreni a-spectrum disorders, bipolar disorder, depression)	Diagnostic interview	DSM	Any severe mental illness (1491)	Any severe mental illness (Women: 746; Men: 748)	Before age 75 years	NA	Age at death	All causes
Iturralde et al. (2021) <sup>86</sup>	United States	Health system case register	2010-2017	Any severe mental illness, schizophrenia -spectrum disorders, bipolar disorder, depressive/ anxiety disorder,	Diagnosis in care register, administrative data or medical records	ICD	Any severe mental illness (255559), schizophren ia-spectrum disorders (5717), bipolar disorder (19250),	Any severe mental illness (Women: 170493; Men: 85066), schizophrenia -spectrum disorders (2901; 2816), bipolar disorder	General population	309300000	Age at death	All causes

				substance use disorders			depressive/ anxiety disorder (230582), substance use disorders (50184)	(12427; 6833), depressive/ anxiety (155165; 75417), substance use disorders (18925; 31259)				
John et al. (2021) <sup>87</sup>	United Kingdom	Health system case register	2003-2016	Eating disorder	Diagnosis in care register, administrative data or medical records	ICD	5786	NA	General population	2504108	Age at death	All causes, natural causes, unnatural causes, suicide
Kessing et al. (2021) <sup>88</sup>	Denmark	Health system case register	1995-2017	Bipolar disorder	Diagnosis in care register, administrative data or medical records	ICD	19955	Women:1157 4 Men: 8381	General population	5437000	Life expectancy at age of diagnosis	All causes
Korhonen et al. (2021) <sup>89</sup>	Denmark, Finland, Sweden, Italy	Health system case register	1993-2007 (Denmark, Finland, Sweden), 2000-2007 (Italy)	Depression	Diagnosis in care register, administrative data or medical records (Denmark, Finland, Sweden), medication prescription records (Finland, Italy)	ICD (Denmark, Finland, Sweden), no criteria (Finland, Italy)	NA	NA	People without depression	Denmark (5340000), Finland (5176000), Sweden (8872000), Italy (57310000)	Life expectancy at age 15 years	All causes, lung cancers, other cancers, circulatory diseases, respiratory diseases, alcohol misuse, suicide, other natural causes, other unnatural causes
Madsen et al. (2021) <sup>90</sup>	Denmark	Health system case register	2005-2012	Depressive disorders	Medication prescription records	No criteria	154513	Women: 90460 Men: 64053	Before age 80 years	NA	Life expectancy at age of diagnosis	All causes, natural causes, neoplasms, circulatory diseases, respiratory diseases, digestive diseases, unnatural causes, alcohol misuse, accidents, suicide, all other causes

Moreno-Kustner et al. (2021) <sup>91</sup>	Spain	Health system case register	2003-2016	Schizophrenia-spectrum disorders (schizophrenia & other non-affective psychoses)	Diagnosis in care register, administrative data or medical records	ICD	Schizophrenia-spectrum disorders (1418), schizophrenia (852), other non-affective psychoses (566)	Schizophrenia-spectrum disorders (Women: 511; Men: 907)	General population	46360000	Life expectancy at birth; age at death	All causes
Tisdale et al. (2021) <sup>92</sup>	Australia	Hospital or health centre medical records	2014-2016	Substance use disorders	Service receipt	No criteria	1056	Women: 695 Men: 361	General population; before age 65 years	4706193	Age at death	All causes
Yasar & Yildiz (2021) <sup>93</sup>	Turkey	Health system case register	2008-2018	Schizophrenia, schizoaffective disorders	Diagnosis in care register, administrative data or medical records	DSM	Schizophrenia (441), schizoaffective disorders (65)	Overall (Women: 185; Men: 321)	General population	76580000	Life expectancy at birth	All causes
Yung et al. (2021) <sup>94</sup>	Hong Kong	Health system case register	2006-2016	Schizophrenia, other non-affective psychoses	Diagnosis in care register, administrative data or medical records	ICD	Schizophrenia (46896), other non-affective psychoses (20651)	Schizophrenia (Women: 24103; Men: 22793), other non-affective psychoses (12742; 7909)	General population	7072000	Life expectancy at age of diagnosis	All causes
Formanek et al. (2022) <sup>95</sup>	Czech Republic	Health system case register	1994-2017	Substance use disorders	Diagnosis in care register, administrative data or medical records	ICD	121153	NA	People without substance use disorders	6742134	Life expectancy at age of diagnosis	All causes
Girardi et al. (2022) <sup>96</sup>	Italy	Health system case register	2008-2018	Substance use disorders, schizophrenia-spectrum disorders, bipolar disorder, depressive disorders, neurotic disorders, personality disorders,	Diagnosis in care register, administrative data or medical records	ICD	Substance use disorders (1160), schizophrenia-spectrum disorders (12996), bipolar disorder (1950), depressive disorders (16434),	Overall (Women: 31583; Men: 22767)	General population	11440000	Age at death	All causes, suicide

				other mental disorders			neurotic, stress-related and somatoform disorders (9689), personality disorders (4968), other mental disorders (7153)					
Hu et al. (2022) <sup>97</sup>	China	Community survey	2015-2017	Depressive disorders, anxiety disorders	Self-report	No criteria	Depressive disorders (312), anxiety disorders (204)	Depressive disorders (Women: 191; Men: 121), anxiety disorders (Women: 143; Men: 61)	People without depressive disorders (for comparison for depressive disorders), people without anxiety disorders (for comparison for anxiety disorders)	People without depressive disorders (12539), people without anxiety disorders (12647)	Life expectancy at age 60 years	All causes
Liu et al. (2022) <sup>98</sup>	China	Health system case register	2009-2017	Schizophrenia	Diagnostic interview	ICD	228572	Women: 119315 Men: 109257	General population	1363000000	Life expectancy at birth; age at death	All causes, natural causes, accidents, suicide, homicide, other causes
Matsuyama et al. (2022) <sup>99</sup>	Japan	Community survey	2006-2017	Depressive disorders	Self-report	No criteria	3342	NA	People without depressive disorders	8640	Life expectancy at age 65 years	All causes
Momen et al. (2022) <sup>100</sup>	Denmark	Health system case register	2000-2015	Organic disorders, substance use disorders, schizophrenia-spectrum disorders, mood disorders, neurotic disorders,	Diagnosis in care register, administrative data or medical records	ICD	Organic disorders (108,821), substance use disorders (137,031), schizophrenia-spectrum disorders (87,596),	NA	General population	6989627	Life expectancy at age of diagnosis	All causes

				eating disorders, personality disorders, developmental disorders, behavioral disorders			mood disorders, (227,466) neurotic disorders (294,506), eating disorders (23,570), personality disorders (128,691), developmental disorders (33,651), behavioral disorders (86,994)					
Moustgaard et al. (2022) <sup>101</sup>	Denmark, Finland, Sweden, Italy	Health system case register	1993-2007	Depressive disorders	Diagnosis in care register, administrative data or medical records (Denmark, Finland, Sweden), medication prescription records (Finland, Italy)	ICD (Denmark, Finland, Sweden), no criteria (Finland, Italy)	NA	NA	People without depression	Denmark (5340000), Finland (5176000), Sweden (8872000), Italy (57310000)	Life expectancy at age 25 years	All causes, alcohol-related causes
Plana-Ripoll et al. (2022) <sup>102</sup>	Denmark	Health system case register	2000-2018	Any mental disorders	Diagnosis in care register, administrative data or medical records	ICD	NA	NA	General population	5523000	Life expectancy at age of diagnosis	All causes
Tseng et al. (2022) <sup>103</sup>	Taiwan	Health system case register	2002-2013	Any mental disorders, organic mental disorders, substance use disorders, schizophrenia, affective psychoses, other mental disorders	Diagnosis in care register, administrative data or medical records	ICD	Any mental disorders (905), organic mental disorders (126), substance use disorders (83), schizophrenia (151), affective	Overall (Women: 331; Men: 574)	General population	22942308	Life expectancy at birth	All causes

							psychoses (139), other mental disorders (406)					
Yin et al. (2022) <sup>104</sup>	United Kingdom	Health system case register	2006-NA (median follow-up period=12.3 years)	Bipolar disorder, depressive disorders	Diagnosis in care register, administrative data or medical records	ICD	Bipolar disorder (1251), depressive disorders (15815)	Bipolar disorder (Women: 614; Men: 637), depressive disorders (Women: 9633; Men: 6182)	People without mood disorders	78285	Life expectancy at age 45 and 60 years	All causes
Chang et al. (2023) <sup>105</sup>	United Kingdom	Health system case register	2008-2017	Severe mental illnesses, schizophrenia, schizoaffective disorders, bipolar disorder	Diagnosis in care register, administrative data or medical records	ICD	Severe mental illnesses (18359), schizophrenia (11329), schizoaffective disorder (1092), bipolar disorder (5938)	Severe mental illnesses (Women: 8637; Men: 9722), schizophrenia (Women: 4424; Men: 6905), schizoaffective disorder (Women: 596; Men: 496), bipolar disorder (Women: 3617; Men: 2321)	General population	1010000	Life expectancy at birth	All causes
da Roza et al. (2023) <sup>106</sup>	Brazil	Health system case register	2002-2016	Any mental disorders, alcohol use disorders, substance use disorders, schizophrenia-spectrum disorders, mood disorders, other mental disorders	Diagnosis in care register, administrative data or medical records	ICD	Any mental disorders (4019)	Any mental disorders (Women: 1818; Men: 2201)	General population	194500000	Life expectancy at birth; mean age at death	All causes



Fond et al. (2023) <sup>107</sup>	France	Health system case register	2012-2017	Schizophrenia-spectrum disorders	Diagnosis in care register, administrative data or medical records	ICD	456003	Women: 211019; Men: 244984	General population	66310000	Median age at death	All causes
Ren et al. (2023) <sup>108</sup>	China	Health system case register	2015-2019	Schizophrenia	Diagnosis in care register, administrative data or medical records	ICD	99214	Women: 39589; Men: 40951	General population	13960000000	Life expectancy at age of diagnosis	All causes
Wu et al. (2023) <sup>109</sup>	China	Health system case register	2009-2019	Alcohol use disorders, substance use disorders, schizophrenia-spectrum disorders, bipolar disorder, depressive disorders, post-traumatic stress disorder, obsessive compulsive disorder, panic disorder, sleep disorder, mental developmental disorders due to lead exposure	Diagnosis in care register, administrative data or medical records	ICD	NA	NA	General population	13720000000	Mean age at death	All causes

<sup>a</sup> For studies using general population as a comparison group (i.e., reference population), the sample size was calculated using nationwide data the census-based population for the median year of the study period. Please refer to **Supplementary Table 7** for the reference list of the 109 studies included in this meta-analysis on YPLL.

**Supplementary Table 6. Newcastle-Ottawa Scale for risk-of-bias assessment of included studies <sup>a</sup>**

Studies	Representativeness of the exposed cohort	Selection of the non-exposed cohort	Ascertainment of outcome	Demonstration that outcome of interest was not present at start of study	Control for Sex (Comparability)	Control for other factors	Assessment of outcome	Was follow-up long enough for outcome	Adequacy of follow-up of cohorts	Score
Shinozaki (1976) <sup>1</sup>	1	1	1	1	1	1	1	0	0	7
Newman & Bland (1991) <sup>2</sup>	1	1	1	1	0	1	1	1	1	8
Poser et al. (1992) <sup>3</sup>	1	1	1	1	0	1	1	1	1	8
Marshall et al. (1994) <sup>4</sup>	1	0	1	1	0	1	1	1	1	7
Dembling et al. (1999) <sup>5</sup>	1	1	1	1	1	1	1	1	1	9
Hannerz & Borga (2000) <sup>6</sup>	1	1	1	1	1	1	1	0	0	7
Hannerz et al. (2001) <sup>7</sup>	1	1	1	1	1	1	1	1	1	9
Dodge et al. (2003) <sup>8</sup>	1	0	1	1	1	1	1	1	1	8
Dickey et al. (2004) <sup>9</sup>	1	1	1	1	1	1	1	1	1	9
Brugal et al. (2005) <sup>10</sup>	1	1	1	1	0	1	1	1	1	8
Colton & Manderscheid (2006) <sup>11</sup>	1	1	1	1	0	1	1	1	1	8
Miller et al. (2006) <sup>12</sup>	1	1	1	1	1	1	1	1	1	9
Smyth et al. (2006) <sup>13</sup>	1	1	1	1	0	1	1	1	1	8
Miller et al. (2007) <sup>14</sup>	1	1	1	1	0	1	1	1	1	8
Smyth et al. (2007) <sup>15</sup>	1	1	1	1	1	1	1	1	1	9
Haver et al. (2008) <sup>16</sup>	1	1	1	1	0	1	1	1	1	8
Hiroeh et al. (2008) <sup>17</sup>	1	1	1	1	1	1	1	1	1	9
Tiihonen et al. (2009) <sup>18</sup>	1	1	1	1	1	1	1	1	1	9
Kiviniemi et al. (2010) <sup>19</sup>	1	1	1	1	1	1	1	1	1	9
Piatt et al. (2010) <sup>20</sup>	1	1	1	1	0	1	1	0	0	6
Chang et al. (2011) <sup>21</sup>	1	1	1	1	1	1	1	1	1	9
Druss et al. (2011) <sup>22</sup>	1	1	1	1	1	1	1	1	1	9
Hayes et al. (2011) <sup>23</sup>	1	1	1	1	1	1	1	1	1	9
Laursen (2011) <sup>24</sup>	1	1	1	1	1	1	1	1	1	9
Wahlbeck et al. (2011) <sup>25</sup>	1	1	1	1	1	1	1	1	1	9
Fok et al. (2012) <sup>26</sup>	1	1	1	1	1	1	1	1	1	9
Healy et al. (2012) <sup>27</sup>	1	1	1	1	1	1	1	1	1	9
Kodesh et al. (2012) <sup>28</sup>	1	1	1	1	1	1	1	1	1	9
Morden et al. (2012) <sup>29</sup>	1	1	1	1	0	1	1	1	1	8
Nome & Holsten (2012) <sup>30</sup>	1	1	1	1	1	1	1	1	1	9

Rizzuto et al. (2012) <sup>31</sup>	1	1	1	1	0	1	1	1	1	8
Westman et al. (2012) <sup>32</sup>	1	1	1	1	1	1	1	1	1	9
Zivin et al. (2012) <sup>33</sup>	1	0	1	1	0	1	1	1	1	7
Ajetunmobi et al. (2013) <sup>34</sup>	1	1	1	1	0	1	1	1	1	8
Crump et al. (2013) <sup>35</sup>	1	1	1	1	1	1	1	1	1	9
Crump et al. (2013) <sup>36</sup>	1	1	1	1	1	1	1	1	1	9
Degenhardt et al. (2013) <sup>37</sup>	1	0	1	1	1	1	1	1	1	9
Ientile et al. (2013) <sup>38</sup>	1	1	1	1	1	1	1	1	1	9
Laursen et al. (2013) <sup>39</sup>	1	1	1	1	1	1	1	1	1	9
Lawrence et al. (2013) <sup>40</sup>	1	1	1	1	1	1	1	1	1	9
Nordentoft et al. (2013) <sup>41</sup>	1	1	1	1	1	1	1	1	1	9
Almeida et al. (2014) <sup>42</sup>	1	0	1	1	0	1	1	1	1	7
Veldhuizen & Callaghan (2014) <sup>43</sup>	1	1	1	1	1	1	1	1	1	9
Chang et al. (2015) <sup>44</sup>	1	1	1	1	1	1	1	1	1	9
Charrel et al. (2015) <sup>45</sup>	1	1	1	1	1	1	1	1	1	9
Fekadu et al. (2015) <sup>46</sup>	1	1	1	1	1	1	1	1	1	9
Kessing et al. (2015) <sup>47</sup>	1	1	1	1	0	1	1	1	1	8
Kessing et al. (2015) <sup>48</sup>	1	1	1	1	1	1	1	1	1	9
Lesage et al. (2015) <sup>49</sup>	1	1	1	1	1	1	1	1	1	9
Olfson et al. (2015) <sup>50</sup>	1	1	1	1	1	1	1	1	1	9
Roehr et al. (2015) <sup>51</sup>	1	1	1	1	0	1	1	1	1	8
Tom et al. (2015) <sup>52</sup>	1	0	1	1	1	1	1	1	1	8
Banerjee et al. (2016) <sup>53</sup>	1	1	1	1	1	1	1	1	1	9
Dickerson et al. (2016) <sup>54</sup>	1	1	1	1	0	1	1	1	1	8
Laursen et al. (2016) <sup>55</sup>	1	1	1	1	1	1	1	1	1	9
Leng et al. (2016) <sup>56</sup>	1	1	1	1	1	1	1	1	1	9
Tam et al. (2016) <sup>57</sup>	1	0	1	1	1	1	1	1	1	8
Zhou et al. (2016) <sup>58</sup>	1	1	1	1	1	1	1	1	1	9
Bitter et al. (2017) <sup>59</sup>	1	1	1	1	1	1	1	1	1	9
Cailhol et al. (2017) <sup>60</sup>	1	1	1	1	1	1	1	1	1	9
Chang et al. (2017) <sup>61</sup>	1	0	1	1	1	1	1	1	1	8
Erlangsen et al. (2017) <sup>62</sup>	1	1	1	1	1	1	1	1	1	9
Jayatilke et al. (2017) <sup>63</sup>	1	0	1	1	1	1	1	1	1	8

Castle & Chung (2018) <sup>64</sup>	1	1	1	1	1	1	1	1	1	9
Dickerson et al. (2018) <sup>65</sup>	1	1	1	1	0	1	1	1	1	8
Ko et al. (2018) <sup>66</sup>	1	1	1	1	1	1	1	1	1	9
Laursen et al. (2018) <sup>67</sup>	1	1	1	1	1	1	1	1	1	9
Lichtenstein et al. (2018) <sup>68</sup>	1	1	1	1	0	1	1	1	1	8
Strand et al. (2018) <sup>69</sup>	1	1	1	1	1	1	1	1	1	9
Barkley & Fischer (2019) <sup>70</sup>	1	1	1	1	1	1	1	1	1	9
Smith DaWalt et al. (2019) <sup>71</sup>	1	1	1	1	1	1	1	1	1	9
Doyle et al. (2019) <sup>72</sup>	1	1	1	1	1	1	1	1	1	9
Garre-Olmo et al. (2019) <sup>73</sup>	1	1	1	1	1	1	1	1	1	9
Gerritsen et al. (2019) <sup>74</sup>	1	1	1	1	1	1	1	1	1	9
Plana-Ripoll et al. (2019) <sup>75</sup>	1	1	1	1	1	1	1	1	1	9
Strand et al. (2019) <sup>76</sup>	1	1	1	1	1	1	1	1	1	9
Iwajomo et al. (2020) <sup>77</sup>	1	1	1	1	1	1	1	1	1	9
Lewer et al. (2020) <sup>78</sup>	1	1	1	1	1	1	1	1	1	9
Pan et al. (2020) <sup>79</sup>	1	1	1	1	1	1	1	1	1	9
Plana-Ripoll et al. (2020) <sup>80</sup>	1	1	1	1	1	1	1	1	1	9
Wang et al. (2020) <sup>81</sup>	1	1	1	1	0	1	1	1	1	8
Weye et al. (2020) <sup>82</sup>	1	1	1	1	1	1	1	1	1	9
Chan et al. (2021) <sup>83</sup>	1	1	1	1	1	1	1	1	1	9
Das-Munshi et al. (2020) <sup>84</sup>	1	1	1	1	1	1	1	1	1	9
Dickerson et al. (2021) <sup>85</sup>	1	1	1	1	1	1	1	1	1	9
Iturralde et al. (2021) <sup>86</sup>	1	1	1	1	0	1	1	1	1	8
John et al. (2021) <sup>87</sup>	1	1	1	1	1	1	1	1	1	9
Kessing et al. (2021) <sup>88</sup>	1	1	1	1	1	1	1	1	1	9
Korhonen et al. (2021) <sup>89</sup>	1	0	1	1	1	1	1	1	1	8
Madsen et al. (2021) <sup>90</sup>	1	1	1	1	1	1	1	1	1	9
Moreno-Kustner et al. (2021) <sup>91</sup>	1	1	1	1	1	1	1	1	1	9
Tisdale et al. (2021) <sup>92</sup>	1	1	1	1	1	1	1	1	1	9
Yasar & Yildiz (2021) <sup>93</sup>	1	1	1	1	1	1	1	1	1	9
Yung et al. (2021) <sup>94</sup>	1	1	1	1	1	1	1	1	1	9
Formanek et al. (2022) <sup>95</sup>	1	1	1	1	1	1	1	1	1	9
Girardi et al. (2022) <sup>96</sup>	1	1	1	1	0	1	1	1	1	8

Hu et al. (2022) <sup>97</sup>	1	1	1	1	1	1	1	1	1	9
Liu et al. (2022) <sup>98</sup>	1	1	1	1	1	1	1	1	1	9
Matsuyama et al. (2022) <sup>99</sup>	1	1	1	1	1	1	1	1	1	9
Mormen et al. (2022) <sup>100</sup>	1	1	1	1	0	1	1	1	1	8
Moustgaard et al. (2022) <sup>101</sup>	1	1	1	1	1	1	1	1	1	9
Plana-Ripoll et al. (2022) <sup>102</sup>	1	1	1	1	0	1	1	1	1	8
Tseng et al. (2022) <sup>103</sup>	1	1	1	1	0	1	1	1	1	8
Yin et al. (2022) <sup>104</sup>	1	1	1	1	0	1	1	1	1	8
Chang et al. (2023) <sup>105</sup>	1	1	1	1	1	1	1	1	1	9
da Roza et al. (2023) <sup>106</sup>	1	1	1	1	0	1	1	1	1	8
Fond et al. (2023) <sup>107</sup>	1	1	1	1	1	1	1	1	1	9
Ren et al. (2023) <sup>108</sup>	1	1	1	1	1	1	1	1	1	9
Wu et al. (2023) <sup>109</sup>	1	1	1	1	0	1	1	1	1	8

<sup>a</sup> Quality of studies was evaluated based on the domains of selection of study groups, comparability of groups and outcome ascertainment. In the comparability domain, only “control for sex” item was assessed, while “control for other covariates” item is not applicable in the current evaluation (as no additional covariates are controlled for in life expectancy and YPLL estimation) (Hjorthøj et al., 2017) and is counted as “1” for all included studies. Following the method of previous meta-analyses (e.g., Solmi et al., 2020), studies with NOS score  $\geq 7$  are regarded as of high quality.

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**Supplementary Table 7. Life expectancy of people with mental disorders**

	N of studies	Estimate (95% CI)	I <sup>2</sup>	Cochran's Q test (p value)	Egger's test (p value)	Estimate after trim & fill procedure
<b><i>Any mental disorders</i></b>						
Overall life expectancy (Average)	54	63.85 (62.63 - 65.06)	100	<0.0001	0.44	-
Overall life expectancy (Female)	45	68.24 (66.83 - 69.65)	100	<0.0001	0.41	-
Overall life expectancy (Male)	46	60.98 (59.34 - 62.62)	100	<0.0001	0.59	-
<b><i>Dementia</i></b>						
Overall life expectancy (Average)	7	75.40 (72.49 - 78.31)	100	<0.0001	0.38	-
Overall life expectancy (Female)	7	76.53 (72.46 - 80.61)	100	<0.0001	0.50	-
Overall life expectancy (Male)	7	74.96 (70.92 - 78.99)	100	<0.0001	0.33	-
Remaining life expectancy						
Since age 70 years	4	6.05 (4.22 - 7.87)	100	<0.0001	0.067	6.05 (4.22 - 7.87)
Since age 75 years	5	4.31 (3.34 - 5.28)	99.95	<0.0001	0.77	-
Since age 80 years	4	4.15 (3.11 - 5.18)	99.96	<0.0001	0.96	-
Since age 85 years	2	1.59 (1.44 - 1.73)	0	0.53	NA	-
Since age 90 years	2	2.14 (1.32 - 2.95)	99.95	<0.0001	<0.0001	2.14 (1.32 - 2.95)
<b><i>Substance use disorders</i></b>						
Overall life expectancy (Average)	14	57.07 (54.47 - 59.67)	100	<0.0001	0.016	54.26 (51.52 - 57.01)
Overall life expectancy (Female)	8	59.56 (55.72 - 63.40)	100	<0.0001	0.19	-
Overall life expectancy (Male)	9	53.70 (49.93 - 57.46)	100	<0.0001	0.0068	53.70 (49.93 - 57.46)
Remaining life expectancy						
Since birth	5	56.82 (51.50 - 62.14)	100	<0.0001	0.031	54.85 (49.48 - 60.22)
Since age 15 years	3	41.28 (39.15 - 43.42)	100	<0.0001	NA	-
Heroin use disorder	2	51.11 (27.38 - 74.84)	100	<0.0001	NA	-
Opioid use disorder	4	64.13 (57.17 - 71.09)	100	<0.0001	0.50	-
<b><i>Severe mental illness</i></b>						
Overall life expectancy (Average)	30	65.10 (63.79 - 66.42)	100	<0.0001	0.37	-
Overall life expectancy (Female)	28	69.07 (67.54 - 70.59)	100	<0.0001	0.33	-
Overall life expectancy (Male)	28	61.84 (60.19 - 63.49)	100	<0.0001	0.42	-
Remaining life expectancy						
Since birth	16	64.52 (62.48 - 66.56)	100	<0.0001	0.27	-
Since age 15 years	5	48.40 (46.62 - 50.18)	100	<0.0001	0.48	-
Since age 20 years	4	45.18 (40.18 - 50.18)	100	<0.0001	NA	-
Since age 25 years	4	42.05 (39.11 - 44.99)	100	<0.0001	0.99	-
Since age 30 years	2	37.67 (34.44 - 40.91)	100	<0.0001	NA	-
Since age 35 years	5	34.48 (32.35 - 36.61)	100	<0.0001	0.94	-
Since age 40 years	2	29.97 (26.88 - 33.07)	100	<0.0001	NA	-
Since age 45 years	6	25.73 (23.80 - 27.66)	100	<0.0001	0.85	-
Since age 50 years	2	22.67 (19.80 - 25.55)	100	<0.0001	NA	-
Since age 55 years	4	19.18 (17.34 - 21.03)	100	<0.0001	0.83	-
Since age 60 years	2	16.16 (13.75 - 18.57)	100	<0.0001	NA	-

Since age 65 years	4	13.13 (11.71 - 14.55)	100	<0.0001	0.71	-
Since age 70 years	2	10.74 (9.06 - 12.41)	100	<0.0001	NA	-
Since age 75 years	4	8.23 (7.31 - 9.14)	99.99	<0.0001	0.37	-
Since age 80 years	2	6.59 (5.70 - 7.48)	99.99	<0.0001	NA	-
<b><i>Schizophrenia-spectrum disorders</i></b>						
Overall life expectancy (Average)	25	63.70 (62.13 - 65.27)	100	<0.0001	0.40	63.70 (62.13 - 65.27)
Overall life expectancy (Female)	22	68.15 (66.31 - 69.99)	100	<0.0001	0.72	69.95 (67.97 - 71.93)
Overall life expectancy (Male)	22	60.92 (59.02 - 62.82)	100	<0.0001	0.78	60.92 (59.02 - 62.82)
Remaining life expectancy						
Since birth	14	62.96 (60.55 - 65.37)	100	<0.0001	0.75	-
Since age 15 years	3	47.35 (45.21 - 49.5)	100	<0.0001	NA	-
Since age 20 years	4	47.85 (43.08 - 52.62)	100	<0.0001	NA	-
Since age 25 years	2	41.58 (36.11 - 47.04)	100	<0.0001	0.77	-
Since age 30 years	2	37.02 (33.28 - 40.76)	100	<0.0001	NA	-
Since age 35 years	3	34.33 (31.06 - 37.6)	100	<0.0001	0.14	-
Since age 40 years	2	29.28 (25.71 - 32.86)	100	<0.0001	NA	-
Since age 45 years	4	25.07 (22.37 - 27.78)	100	<0.0001	0.24	-
Since age 50 years	2	22.02 (18.75 - 25.29)	100	<0.0001	NA	-
Since age 55 years	3	18.99 (16.68 - 21.31)	100	<0.0001	0.57	-
Since age 60 years	2	15.63 (12.97 - 18.3)	100	<0.0001	NA	-
Since age 65 years	2	12.87 (10.66 - 15.08)	100	<0.0001	NA	-
Since age 70 years	2	10.38 (8.61 - 12.15)	100	<0.0001	NA	-
Since age 75 years	2	8.25 (6.96 - 9.54)	100	<0.0001	NA	-
Since age 80 years	2	6.38 (5.5 - 7.26)	99.99	<0.0001	NA	-
<b><i>Schizophrenia</i></b>						
Overall life expectancy (Average)	19	63.66 (61.48 - 65.84)	100	<0.0001	0.95	63.66 (61.48 - 65.84)
Overall life expectancy (Female)	15	69.22 (66.81 - 71.64)	100	<0.0001	0.60	69.22 (66.81 - 71.64)
Overall life expectancy (Male)	15	61.69 (59.32 - 64.06)	100	<0.0001	0.60	61.69 (59.32 - 64.06)
Remaining life expectancy						
Since birth	12	63.73 (60.75 - 66.72)	100	<0.0001	0.97	-
Since age 20 years	2	37.40 (33.07 - 41.73)	100	<0.0001	NA	-
Since age 35 years	2	36.51 (33.06 - 39.95)	100	<0.0001	0.31	-
Since age 45 years	3	25.32 (21.72 - 28.93)	100	<0.0001	0.24	-
Since age 55 years	2	19.98 (17.38 - 22.59)	100	<0.0001	0.87	-
<b><i>Mood disorders</i></b>						
Overall life expectancy (Average)	22	64.03 (61.99 - 66.07)	100	<0.0001	0.60	-
Overall life expectancy (Female)	20	68.99 (66.71 - 71.27)	100	<0.0001	0.15	-
Overall life expectancy (Male)	20	61.12 (58.59 - 63.65)	100	<0.0001	0.48	-
Remaining life expectancy						
Since birth	8	64.57 (61.49 - 67.65)	100	<0.0001	0.89	-
Since age 15 years	7	45.92 (43.05 - 48.79)	100	<0.0001	<0.0001	45.92 (43.05 - 48.79)
Since age 25 years	2	42.53 (39.39 - 45.66)	100	<0.0001	0.82	-

Since age 30 years	2	38.20 (33.64 - 42.76)		100	<0.0001	NA	-
Since age 35 years	3	34.68 (31.94 - 37.42)		100	<0.0001	0.70	-
Since age 40 years	2	31.73 (28.28 - 35.18)		100	<0.0001	NA	-
Since age 45 years	4	26.24 (24.04 - 28.44)		100	<0.0001	0.85	-
Since age 55 years	3	19.66 (17.33 - 22.00)		100	<0.0001	0.60	-
Since age 60 years	3	13.00 (6.33 - 19.67)		100	<0.0001	NA	-
Since age 65 years	4	14.78 (11.60 - 17.96)		100	<0.0001	0.12	-
Since age 75 years	4	7.83 (6.60 - 9.06)		99.99	<0.0001	0.62	-
<b><i>Bipolar disorder</i></b>							
Overall life expectancy (Average)	11	67.30 (65.29 - 69.31)		100	<0.0001	0.30	-
Overall life expectancy (Female)	10	70.57 (68.75 - 72.39)		100	<0.0001	0.81	-
Overall life expectancy (Male)	10	64.80 (62.17 - 67.44)		100	<0.0001	0.81	-
Remaining life expectancy							
Since birth	5	66.07 (63.61 - 68.54)		95.19	<0.0001	0.040	66.07 (63.61 - 68.54)
Since age 15 years	3	50.70 (47.84 - 53.57)		100	<0.0001	0.92	-
<b><i>Depressive disorders</i></b>							
Overall life expectancy (Average)	10	61.94 (57.88 - 66.00)		100	<0.0001	0.19	-
Overall life expectancy (Female)	9	67.34 (61.98 - 72.72)		100	<0.0001	0.11	-
Overall life expectancy (Male)	9	58.95 (53.24 - 64.65)		100	<0.0001	0.81	-
Remaining life expectancy							
Since birth	5	66.70 (63.24 - 70.17)		98.63	<0.0001	<0.0001	66.70 (63.24 - 70.17)
Since age 15 years	2	37.58 (32.21 - 42.96)		100	<0.0001	<0.0001	37.58 (32.21 - 42.96)
<b><i>Neurotic disorders</i></b>							
Overall life expectancy (Average)	4	69.51 (67.26 - 71.76)		100	<0.0001	0.10	-
Overall life expectancy (Female)	4	73.56 (70.80 - 76.31)		100	<0.0001	0.081	71.81 (69.15 - 74.47)
Overall life expectancy (Male)	4	64.70 (63.29 - 66.11)		100	<0.0001	0.14	-
<b><i>Personality disorders</i></b>							
Overall life expectancy (Average)	4	63.51 (60.47 - 66.55)		100	<0.0001	0.51	-
Overall life expectancy (Female)	4	66.90 (63.20 - 70.60)		100	<0.0001	0.36	-
Overall life expectancy (Male)	4	60.12 (57.05 - 63.19)		100	<0.0001	0.92	-

**Supplementary Table 8. Subgroup analyses stratified by source of study sample, length of follow-up, method and diagnostic system to ascertain mental disorders, and nature of the reference population**

Characteristics	Study outcomes			
	Life expectancy		YPLL	
	Estimate (95% CI)	I <sup>2</sup>	Estimate (95% CI)	I <sup>2</sup>
Source of study samples				
Health system case register	63.40 (62.11 – 64.70)	100.0	14.89 (14.08 – 15.71)	100.0
Health insurance database	58.98 (50.56 – 67.40)	100.0	17.84 (12.66 – 23.01)	100.0
Hospital or health center medical records	68.27 (65.53 – 71.02)	100.0	12.11 (10.34 – 13.88)	100.0
Others <sup>a</sup>	69.60 (62.33 – 76.86)	100.0	13.69 (8.41 – 18.97)	100.0
Length of follow-up				
1 – 5 years	63.13 (61.50 – 64.76)	100.0	17.03 (15.00 – 19.06)	100.0
>5 – 10 years	64.52 (62.92 – 66.13)	100.0	14.62 (13.45 – 15.79)	100.0
>10 years	65.02 (61.15 – 68.88)	100.0	14.04 (12.95 – 15.13)	100.0
Method to ascertain cases of mental disorders				
Diagnosis in case register, administrative data or medical records	63.95 (62.73 – 65.18)	100.0	14.66 (13.86 – 15.45)	100.0
Diagnostic interview	65.46 (59.66 – 71.25)	100.0	15.52 (12.77 – 18.27)	100.0
Others <sup>b</sup>	64.89 (58.22 – 71.56)	100.0	15.41 (10.95 – 19.86)	100.0
Diagnostic system				
Any diagnostic systems (e.g., ICD, DSM)	64.07 (62.87 – 65.27)	100.0	14.63 (13.88 – 15.39)	100.0
No criteria	64.87 (57.74 – 72.00)	100.0	16.56 (12.13 – 20.99)	100.0
Reference population for YPLL estimation				
General population	-	-	15.38 (14.52 – 16.24)	100.0
Individuals without any/ a specified mental disorder	-	-	10.81 (9.12 – 12.51)	100.0
Use of a specified fixed age	-	-	13.17 (9.92 – 16.41)	100.0
Approach to derive YPLL				
Mean age at death <sup>c</sup>	-	-	19.09 (17.05 – 21.14)	100.0
Life expectancy <sup>d</sup>	-	-	13.27 (12.58 – 13.96)	100.0

<sup>a</sup> “Others” for sources of sample included community survey and combinations of other sources.

<sup>b</sup> “Others” for methods to ascertain cases of mental disorders included service receipt, medication prescription records, self-report and proxy assessment for diagnoses.

<sup>c</sup> In the mean-age-at-death approach, YPLL is calculated by subtracting the mean age at the observed death of people with mental disorders from the life expectancy of the general population. The mean age at death was computed by averaging the age at death of people with mental disorders who died during the study period.

<sup>d</sup> In the life-expectancy approach, YPLL is quantified by subtracting the estimated life expectancy of people with mental disorders from that of the general population. To calculate the life expectancy of people with mental disorders, age-specific mortality rates are used to generate the total number of person-years contributed by people with mental disorders during the study period, which is then weighted by the total number of people with mental disorders in the study cohort.



**Supplementary 9. Subgroup analyses stratified by continent and study period on overall life expectancy of people with mental disorders.**

	N of studies	Estimate (95% CI)	I <sup>2</sup>	Cochran's Q test (p value)
<b><i>Any mental disorders</i></b>				
Continents				
Africa	1	49.25 (44.55 - 53.95)	0	1.00
Asia	12	67.73 (64.57 - 70.89)	100	<0.0001
Australia	3	67.70 (63.51 - 71.90)	99.6	<0.0001
Europe	27	62.46 (61.16 - 63.76)	100	<0.0001
North America	10	67.84 (62.00 - 73.69)	100	<0.0001
South America	1	47.27 (47.25 - 47.29)	0	1.00
Study period				
Before 2001	15	59.86 (57.70 - 62.03)	100	<0.0001
2001 – 2010	33	64.71 (63.37 - 66.05)	100	<0.0001
After 2010	11	72.46 (68.88 - 76.04)	100	<0.0001
<b><i>Dementia</i></b>				
Continents				
Europe	5	75.06 (71.38 – 78.74)	100	<0.0001
North America	2	76.39 (71.70 – 81.09)	100	<0.0001
Study period				
Before 2001	1	78.55 (75.12 - 81.98)	100	<0.0001
2001 – 2010	3	78.08 (73.43 - 82.73)	99.72	<0.0001
After 2010	3	72.46 (68.58 - 76.33)	100	<0.0001
<b><i>Substance use disorders</i></b>				
Continents				
Asia	3	54.19 (41.86 - 66.52)	100	<0.0001
Australia	2	58.85 (54.79 - 62.91)	95.98	<0.0001
Europe	6	58.38 (55.68 - 61.07)	100	<0.0001
North America	3	56.31 (39.51 - 73.12)	100	<0.0001
South America	1	40.29 (31.27 - 49.31)	100	<0.0001
Study period				
Before 2001	6	54.06 (51.18 - 56.94)	100	<0.0001
2001 – 2010	10	59.14 (55.39 - 62.88)	100	<0.0001
<b><i>Severe mental illness</i></b>				
Continents				
Africa	1	49.25 (44.55 - 53.95)	0	1.00
Asia	8	67.75 (64.09 - 71.42)	100	<0.0001
Australia	2	65.12 (61.99 - 68.25)	97.92	<0.0001
Europe	15	64.21 (62.88 - 65.54)	100	<0.0001
North America	3	68.28 (62.47 - 74.09)	100	<0.0001
South America	1	48.97 (48.95 - 48.99)	0	1.00
Study period				
Before 2001	8	63.97 (62.00 - 65.93)	100	<0.0001
2001 – 2010	20	64.34 (62.71 - 65.96)	100	<0.0001
After 2010	6	73.20 (68.61 - 77.80)	100	<0.0001
<b><i>Schizophrenia-spectrum disorders</i></b>				
Continents				
Africa	1	46.27 (41.92 - 50.62)	0	1.00
Asia	7	66.46 (61.61 - 71.31)	100	<0.0001
Australia	2	63.32 (59.34 - 67.30)	97.74	<0.0001
Europe	12	63.36 (61.84 - 64.88)	100	<0.0001

North America	2	65.10 (58.49 - 71.71)	100	<0.0001
South America	1	48.97 (48.95 - 48.99)	0	1.00
Study period				
Before 2001	6	62.27 (60.01 - 64.52)	100	<0.0001
2001 – 2010	18	62.82 (60.90 - 64.74)	100	<0.0001
After 2010	5	72.13 (66.72 - 77.55)	100	<0.0001
<b>Schizophrenia</b>				
Continents				
Africa	1	46.27 (41.92 - 50.62)	0	1.00
Asia	6	63.70 (58.21 - 69.19)	100	<0.0001
Australia	2	66.95 (61.43 - 72.47)	98.58	<0.0001
Europe	8	63.00 (60.70 - 65.31)	100	<0.0001
North America	2	65.10 (58.49 - 71.71)	100	<0.0001
Study period				
Before 2001	4	63.07 (58.84 - 67.31)	100	<0.0001
2001 – 2010	13	62.19 (59.72 - 64.66)	100	<0.0001
After 2010	5	70.47 (64.18 - 76.76)	100	<0.0001
<b>Mood disorders</b>				
Continents				
Africa	1	50.50 (42.89 - 58.11)	71.72	0.060
Asia	6	66.08 (59.02 - 73.15)	100	<0.0001
Australia	1	67.78 (65.05 - 70.50)	96.66	<0.0001
Europe	13	63.35 (61.14 - 65.55)	100	<0.0001
South America	1	50.25 (50.23 - 50.27)	0	1.00
Study period				
Before 2001	6	60.97 (57.46 - 64.47)	100	<0.0001
2001 – 2010	16	64.77 (62.32 - 67.23)	100	<0.0001
After 2010	4	73.12 (64.97 - 81.26)	99.85	<0.0001
<b>Bipolar disorder</b>				
Continents				
Africa	1	54.12 (49.14 - 59.10)	0	1.00
Asia	3	70.36 (65.33 - 75.39)	100	<0.0001
Europe	7	66.60 (64.93 - 68.27)	100	<0.0001
Study period				
Before 2001	2	66.99 (63.23 - 70.76)	100	<0.0001
2001 – 2010	8	66.38 (64.13 - 68.63)	100	<0.0001
After 2010	2	72.54 (66.09 - 79.00)	97.57	<0.0001
<b>Depressive disorders</b>				
Continents				
Africa	1	46.34 (39.94 - 52.74)	0	1.00
Asia	3	70.71 (62.28 - 79.15)	99.87	<0.0001
Australia	1	66.62 (62.56 - 70.68)	96.9	<0.0001
Europe	5	58.28 (52.98 - 63.58)	100	<0.0001
Study period				
Before 2001	2	54.22 (48.01 - 60.43)	99.8	<0.0001
2001 – 2010	8	66.04 (62.44 - 69.64)	100	<0.0001
After 2010	2	74.35 (47.4 - 101.29)	99.99	<0.0001
<b>Neurotic disorders</b>				
Continents				
Australia	1	70.80 (67.60 – 74.00)	96.1	<0.0001

Europe	2	69.06 (65.95 – 72.17)	100	<0.0001
Study period				
Before 2001	3	69.58 (66.85 – 72.31)	100	<0.0001
2001 – 2010	2	70.89 (67.31 – 74.48)	100	<0.0001
<b><i>Personality disorders</i></b>				
Continents				
Europe	3	62.11 (59.49 – 64.72)	100	<0.0001
North America	1	70.50 (61.68 – 79.32)	100	<0.0001
Study period				
Before 2001	1	64.40 (57.54 – 71.26)	100	<0.0001
2001 – 2010	3	63.33 (59.80 – 66.86)	100	<0.0001

**Supplementary Table 10. Subgroup analyses stratified by study countries/regions on overall life expectancy of people with mental disorders**

	N of studies	Estimate (95% CI)	I <sup>2</sup>	Cochran's Q test (p value)
<b><i>Dementia</i></b>				
Germany	1	78.40 (77.98 - 78.82)	0	0.66
Italy	1	83.60 (83.50 - 83.70)	0	1.00
Norway	2	71.27 (66.02 - 76.53)	100	<0.0001
Spain	1	74.99 (70.99 - 79.00)	65.32	0.089
USA	2	76.39 (71.70 - 81.09)	100	<0.0001
<b><i>Substance use disorders</i></b>				
Australia	2	58.85 (54.79 - 62.91)	95.98	<0.0001
Brazil	1	40.29 (31.27 - 49.31)	100	<0.0001
Canada	1	51.80 (51.78 - 51.82)	0	1.00
Denmark	1	54.90 (49.41 - 60.39)	100	<0.0001
Finland	2	56.11 (53.66 - 58.56)	100	<0.0001
Spain	1	39.00 (38.98 - 39.02)	0	1.00
Sweden	2	60.80 (57.40 - 64.20)	100	<0.0001
Taiwan	3	54.19 (41.86 - 66.52)	100	<0.0001
UK	2	65.79 (62.83 - 68.75)	96.37	<0.0001
USA	2	58.57 (30.48 - 86.66)	100	<0.0001
<b><i>Severe mental illness</i></b>				
Australia	2	65.12 (61.99 - 68.25)	97.92	<0.0001
Brazil	1	48.97 (48.95 - 48.99)	0	1.00
Canada	2	65.10 (58.49 - 71.71)	100	<0.0001
China	1	55.70 (55.40 - 56.00)	0	1.00
Denmark	5	63.78 (61.20 - 66.35)	100	<0.0001
Ethiopia	1	49.25 (44.55 - 53.95)	0	1.00
Finland	4	61.99 (59.28 - 64.70)	100	<0.0001
Hong Kong	2	77.01 (73.85 - 80.16)	100	<0.0001
Hungary	1	59.85 (53.28 - 66.42)	100	<0.0001
Israel	1	73.00 (70.88 - 75.12)	100	<0.0001
Spain	1	67.11 (62.24 - 71.97)	0	1.00
Sweden	4	65.68 (63.21 - 68.15)	100	<0.0001
Taiwan	3	61.87 (57.62 - 66.12)	100	<0.0001
Turkey	1	73.40 (73.25 - 73.55)	0	1.00
UK	4	67.46 (65.62 - 69.30)	95.86	<0.0001
USA	1	74.63 (71.27 - 78.00)	100	<0.0001
<b><i>Schizophrenia-spectrum disorders</i></b>				
Australia	2	63.32 (59.34 - 67.30)	97.74	<0.0001
Brazil	1	48.97 (48.95 - 48.99)	0	1.00
Canada	2	65.10 (58.49 - 71.71)	100	<0.0001
China	1	55.70 (55.40 - 56.00)	0	1.00
Denmark	3	60.32 (56.79 - 63.84)	100	<0.0001
Ethiopia	1	46.27 (41.92 - 50.62)	0	1.00
Finland	4	62.10 (59.19 - 65.01)	100	<0.0001
Hong Kong	1	76.71 (72.25 - 81.16)	100	<0.0001
Hungary	1	59.85 (53.28 - 66.42)	100	<0.0001
Israel	1	71.50 (70.52 - 72.48)	99.97	<0.001
Spain	1	67.11 (62.24 - 71.97)	0	1.00
Sweden	4	64.47 (61.61 - 67.33)	100	<0.0001
Taiwan	3	60.52 (54.71 - 66.34)	100	<0.0001
Turkey	1	73.40 (73.25 - 73.55)	0	1.00
UK	3	66.63 (64.48 - 68.78)	94.62	<0.0001
<b><i>Schizophrenia</i></b>				

Australia	2	66.95 (61.43 - 72.47)	98.58	<0.0001
Canada	2	65.10 (58.49 - 71.71)	100	<0.0001
China	1	55.70 (55.40 - 56.00)	0	1.00
Denmark	2	60.47 (56.16 - 64.78)	100	<0.0001
Ethiopia	1	46.27 (41.92 - 50.62)	0	1.00
Finland	2	58.85 (52.99 - 64.71)	100	<0.0001
Hong Kong	1	75.49 (68.64 - 82.34)	100	<0.0001
Hungary	1	59.85 (53.28 - 66.42)	100	<0.0001
Spain	1	66.20 (57.85 - 74.55)	0	1.00
Sweden	2	65.82 (60.99 - 70.66)	100	<0.0001
Taiwan	3	60.52 (54.71 - 66.34)	100	<0.0001
Turkey	1	73.40 (73.25 - 73.55)	0	1.00
UK	2	66.41 (63.27 - 69.55)	96.01	<0.0001
<b>Mood disorders</b>				
Australia	1	67.78 (65.05 - 70.50)	96.66	<0.0001
Brazil	1	50.25 (50.23 - 50.27)	0	1.00
China	1	60.60 (60.58 - 60.62)	0	1.00
Denmark	8	63.47 (58.93 - 68.01)	100	<0.0001
Ethiopia	1	50.50 (42.89 - 58.11)	71.72	0.060
Finland	4	60.60 (56.35 - 64.86)	100	<0.0001
Hong Kong	1	77.62 (72.46 - 82.78)	95.31	<0.0001
Israel	1	74.50 (71.56 - 77.44)	100	<0.0001
Italy	1	56.97 (45.70 - 68.24)	99.37	<0.0001
Japan	1	88.10 (87.51 - 88.68)	0	1.00
Sweden	4	63.56 (57.72 - 69.39)	100	<0.0001
Taiwan	2	60.42 (51.53 - 69.32)	100	<0.0001
UK	3	68.38 (66.72 - 70.03)	92.15	<0.0001
<b>Bipolar disorder</b>				
Denmark	4	66.38 (63.89 - 68.88)	100	<0.0001
Ethiopia	1	54.12 (49.14 - 59.10)	0	1.00
Finland	1	61.10 (50.91 - 71.29)	100	<0.0001
Hong Kong	1	77.62 (72.46 - 82.78)	95.31	<0.0001
Israel	1	74.50 (71.56 - 77.44)	100	<0.0001
Sweden	1	67.75 (63.34 - 72.16)	100	<0.0001
Taiwan	1	64.59 (59.57 - 69.61)	96.56	<0.0001
UK	3	68.20 (66.85 - 69.55)	72.07	<0.0001
<b>Depressive disorders</b>				
Australia	1	66.62 (62.56 - 70.68)	96.9	<0.0001
China	1	60.60 (60.58 - 60.62)	0	1.00
Denmark	3	59.72 (48.36 - 71.07)	100	<0.0001
Ethiopia	1	46.34 (39.94 - 52.74)	0	1.00
Finland	1	49.47 (41.09 - 57.84)	99.74	<0.0001
Italy	1	56.97 (45.70 - 68.24)	99.37	<0.0001
Japan	1	88.10 (87.51 - 88.68)	0	1.00
Sweden	1	51.86 (43.72 - 59.99)	99.59	<0.0001
Taiwan	1	68.88 (62.30 - 75.46)	98.59	<0.0001
UK	2	68.86 (64.54 - 73.17)	97.74	<0.0001
<b>Neurotic disorders</b>				
Australia	1	70.80 (67.60 - 74.00)	96.06	<0.0001
Finland	1	69.05 (65.47 - 72.63)	100	<0.0001
Sweden	1	69.10 (61.26 - 76.94)	100	<0.0001
<b>Personality disorders</b>				
Canada	1	70.50 (61.68 - 79.32)	100	<0.0001

Denmark	1	60.30 (51.48 - 69.12)	100	<0.0001
Finland	1	65.05 (59.07 - 71.03)	100	<0.0001
Sweden	2	61.93 (57.23 - 66.62)	100	<0.0001
UK	1	61.35 (58.22 - 64.49)	86.78	0.0052

**Supplementary Table 11. Years of potential life lost (YPLL) of people with mental disorders**

	N of studies	Estimate (95% CI)	I <sup>2</sup>	Cochran's Q test (p value)	Egger's test (p-value)	Estimate after trim & fill procedure
<b><i>Any mental disorders</i></b>						
YPLL (Average)	109	14.66 (13.88 - 15.45)	100	<0.0001	0.66	-
YPLL (Female)	64	12.83 (11.85 - 13.82)	100	<0.0001	0.15	-
YPLL (Male)	68	14.73 (13.64 - 15.82)	100	<0.0001	0.73	-
Method of estimation						
Age at death	47	18.90 (16.78 - 21.01)	100	<0.0001	0.18	-
Life expectancy gap	66	13.28 (12.59 - 13.98)	100	<0.0001	0.33	-
<b><i>Dementia</i></b>						
YPLL (Average)	12	8.58 (6.32 - 10.84)	100	<0.0001	0.33	-
YPLL (Female)	9	9.88 (6.10 - 13.67)	100	<0.0001	0.56	-
YPLL (Male)	9	8.86 (5.50 - 12.23)	100	<0.0001	0.54	-
Method of estimation						
Age at death	4	8.15 (3.48 - 12.81)	100	<0.0001	NA	-
Life expectancy gap	8	9.11 (6.32 - 11.91)	100	<0.0001	0.39	-
Estimated at 70 years	4	8.81 (6.78 - 10.85)	100	<0.0001	0.27	-
Estimated at 75 years	4	6.74 (5.63 - 7.84)	100	<0.0001	<0.0001	6.21 (5.06 - 7.35)
Estimated at 80 years	3	4.20 (3.11 - 5.28)	100	<0.0001	0.0010	3.86 (2.66 - 5.06)
Estimated at 90 years	2	1.90 (1.13 - 2.67)	100	<0.0001	0.24	-
<b><i>Substance use disorders</i></b>						
YPLL (Average)	33	20.38 (18.65 - 22.11)	100	<0.0001	0.86	-
YPLL (Female)	13	18.37 (16.20 - 20.54)	100	<0.0001	0.0031	18.37 (16.20 - 20.54)
YPLL (Male)	16	18.62 (16.54 - 20.69)	100	<0.0001	0.19	-
Method of estimation						
Age at death	15	24.10 (20.72 - 27.48)	100	<0.0001	0.0009	24.10 (20.72 - 27.48)
Life expectancy gap	19	18.34 (16.66 - 20.03)	100	<0.0001	0.30	-
Estimated at birth	5	21.74 (17.05 - 26.43)	100	<0.0001	0.088	25.28 (20.41 - 30.15)
Estimated at 15 years	3	21.77 (20.52 - 23.02)	100	<0.0001	NA	-
Estimated since diagnosis	4	15.41 (14.16 - 16.65)	99.85	<0.0001	0.60	-
Alcohol use disorders	9	18.32 (15.50 - 21.14)	100	<0.0001	0.40	-
Opioid use disorder	10	18.95 (14.12 - 23.78)	100	<0.0001	0.39	-
Heroin use disorders	3	22.91 (7.74 - 38.08)	100	<0.0001	0.76	-
<b><i>Severe mental illness</i></b>						
YPLL (Average)	56	14.22 (13.23 - 15.21)	100	<0.0001	0.20	-
YPLL (Female)	38	12.83 (11.54 - 14.12)	100	<0.0001	0.0057	12.83 (11.54 - 14.12)
YPLL (Male)	39	14.43 (12.92 - 15.95)	100	<0.0001	0.15	-
Method of estimation						

Age at death	22	17.10 (14.08 - 20.12)	100	<0.0001	0.078	17.10 (14.08 - 20.12)
Life expectancy gap	37	13.32 (12.47 - 14.16)	100	<0.0001	0.31	-
Estimated at birth	16	14.18 (12.73 - 15.63)	100	<0.0001	0.33	-
Estimated at 15 years	7	14.56 (13.44 - 15.68)	100	<0.0001	0.21	-
Estimated at 20 years	5	12.65 (9.37 - 15.92)	100	<0.0001	NA	-
Estimated at 25 years	5	10.14 (8.44 - 11.85)	100	<0.0001	0.84	-
Estimated at 30 years	3	9.31 (7.41 - 11.22)	100	<0.0001	NA	-
Estimated at 35 years	6	8.53 (7.37 - 9.70)	100	<0.0001	0.91	-
Estimated at 40 years	4	9.4 (6.83 - 11.97)	100	<0.0001	NA	-
Estimated at 45 years	7	7.44 (6.58 - 8.30)	100	<0.0001	0.97	-
Estimated at 50 years	3	6.09 (4.84 - 7.33)	100	<0.0001	NA	-
Estimated at 55 years	6	6.64 (4.58 - 8.70)	100	<0.0001	0.78	-
Estimated at 60 years	3	4.32 (3.44 - 5.20)	100	<0.0001	NA	-
Estimated at 65 years	5	3.60 (3.03 - 4.17)	100	<0.0001	0.96	-
Estimated at 70 years	3	2.50 (1.87 - 3.13)	100	<0.0001	NA	-
Estimated at 75 years	5	1.76 (1.29 - 2.23)	100	<0.0001	0.85	-
Estimated at 80 years	3	0.92 (0.39 - 1.45)	100	<0.0001	NA	-
Estimated since diagnosis	7	9.08 (7.99 - 10.17)	99.81	<0.0001	0.032	9.70 (8.57 - 10.84)
<b><i>Schizophrenia-spectrum disorders</i></b>						
YPLL (Average)	46	15.37 (14.18 - 16.55)	100	<0.0001	0.15	-
YPLL (Female)	31	13.87 (12.38 - 15.36)	100	<0.0001	0.080	13.87 (12.38 - 15.36)
YPLL (Male)	32	15.84 (14.01 - 17.67)	100	<0.0001	0.63	-
Method of estimation						
Age at death	18	18.45 (14.57 - 22.34)	100	<0.0001	0.12	-
Life expectancy gap	31	14.48 (13.49 - 15.48)	100	<0.0001	0.23	-
Estimated at birth	14	15.53 (13.85 - 17.21)	100	<0.0001	0.51	-
Estimated at 15 years	4	16.05 (15.05 - 17.06)	100	<0.0001	0.340	-
Estimated at 20 years	4	15.20 (11.46 - 18.94)	100	<0.0001	NA	-
Estimated at 25 years	2	11.57 (9.02 - 14.13)	100	<0.0001	0.47	-
Estimated at 30 years	2	10.85 (8.56 - 13.14)	100	<0.0001	NA	-
Estimated at 35 years	3	9.15 (7.27 - 11.02)	100	<0.0001	0.097	9.57 (7.72 - 11.42)
Estimated at 40 years	3	11.21 (8.06 - 14.36)	100	<0.0001	NA	-
Estimated at 45 years	4	8.15 (7.05 - 9.25)	100	<0.0001	0.55	-
Estimated at 50 years	2	7.10 (5.56 - 8.64)	100	<0.0001	NA	-
Estimated at 55 years	3	8.23 (4.43 - 12.04)	100	<0.0001	0.78	-
Estimated at 60 years	2	4.92 (3.88 - 5.96)	100	<0.0001	NA	-
Estimated at 65 years	2	3.73 (2.97 - 4.50)	100	<0.0001	NA	-
Estimated at 70 years	2	2.67 (2.06 - 3.27)	100	<0.0001	NA	-
Estimated at 75 years	2	1.60 (1.14 - 2.06)	100	<0.0001	NA	-
Estimated at 80 years	2	0.82 (0.45 - 1.18)	100	<0.0001	NA	-
Estimated since diagnosis	5	9.73 (8.28 - 11.19)	99.88	<0.0001	0.23	-
<b><i>Schizophrenia</i></b>						
YPLL (Average)	31	15.22 (13.8 - 16.65)	100	<0.0001	0.55	-



YPLL (Female)	22	13.11 (11.29 - 14.93)	100	<0.0001	0.11	-
YPLL (Male)	22	14.96 (13.33 - 16.59)	100	<0.0001	0.22	-
Method of estimation						
Age at death	12	16.81 (12.36 - 21.25)	100	<0.0001	0.043	16.81 (12.36 - 21.25)
Life expectancy gap	22	14.81 (13.44 - 16.18)	100	<0.0001	0.51	-
Estimated at birth	13	14.92 (12.98 - 16.85)	100	<0.0001	0.57	-
Estimated at 15 years	2	17.50 (16.44 - 18.56)	100	<0.0001	1.00	-
Estimated at 20 years	2	18.17 (11.73 - 24.62)	100	<0.0001	NA	-
Estimated at 35 years	2	7.34 (6.42 - 8.27)	100	<0.0001	0.041	7.34 (6.42 - 8.27)
Estimated at 40 years	2	12.45 (6.42 - 18.48)	100	<0.0001	NA	-
Estimated at 45 years	3	7.57 (6.53 - 8.61)	100	<0.0001	0.89	-
Estimated at 55 years	2	5.96 (4.40 - 7.52)	100	<0.0001	0.004	5.96 (4.40 - 7.52)
Estimated since diagnosis	3	17.45 (8.84 - 26.07)	100	<0.0001	<0.0001	17.45 (8.84 - 26.07)
<b>Mood disorders</b>						
YPLL (Average)	39	12.79 (11.58 - 14.00)	100	<0.0001	0.11	-
YPLL (Female)	24	10.63 (9.52 - 11.74)	100	<0.0001	0.14	-
YPLL (Male)	25	12.77 (11.52 - 14.03)	100	<0.0001	0.074	11.06 (9.68 - 12.44)
Method of estimation						
Age at death	12	17.19 (13.87 - 20.51)	100	<0.0001	0.0082	16.67 (13.32 - 20.02)
Life expectancy gap	27	11.89 (10.66 - 13.13)	100	<0.0001	0.81	-
Estimated at birth	6	13.57 (10.76 - 16.39)	100	<0.0001	0.0029	16.64 (14.22 - 19.07)
Estimated at 15 years	8	13.58 (12.51 - 14.66)	100	<0.0001	0.25	-
Estimated at 25 years	3	12.17 (9.55 - 14.78)	100	<0.0001	0.73	-
Estimated at 30 years	2	9.57 (7.45 - 11.70)	100	<0.0001	NA	-
Estimated at 35 years	3	8.72 (7.47 - 9.97)	100	<0.0001	0.84	-
Estimated at 40 years	2	7.22 (5.28 - 9.16)	100	<0.0001	NA	-
Estimated at 45 years	5	6.35 (4.56 - 8.13)	100	<0.0001	0.16	-
Estimated at 55 years	3	5.29 (4.06 - 6.53)	100	<0.0001	0.75	-
Estimated at 60 years	2	4.37 (2.38 - 6.37)	100	<0.0001	NA	-
Estimated at 65 years	5	3.16 (2.30 - 4.02)	100	<0.0001	0.58	-
Estimated at 75 years	4	2.04 (1.18 - 2.89)	100	<0.0001	0.63	-
Estimated since diagnosis	7	12.93 (5.21 - 20.65)	100	<0.0001	0.16	-
<b>Bipolar disorder</b>						
YPLL (Average)	21	12.47 (10.93 - 14.01)	100	<0.0001	0.094	12.47 (10.93 - 14.01)
YPLL (Female)	12	11.29 (10.10 - 12.48)	100	<0.0001	0.67	-
YPLL (Male)	13	11.63 (9.66 - 13.60)	100	<0.0001	0.95	-
Method of estimation						
Age at death	7	16.67 (12.08 - 21.26)	100	<0.0001	0.060	16.67 (12.08 - 21.26)
Life expectancy gap	14	11.24 (9.95 - 12.52)	100	<0.0001	0.75	-
Estimated at birth	4	12.94 (12.12 - 13.77)	100	<0.0001	0.92	-
Estimated at 15 years	4	12.99 (11.4 - 14.58)	100	<0.0001	0.26	-
Estimated since diagnosis	3	7.82 (7.18 - 8.45)	89.59	<0.0001	0.043	8.01 (7.34 - 8.68)

<b><i>Depressive disorders</i></b>						
YPLL (Average)	17	12.80 (11.12 - 14.48)	100	<0.0001	0.053	12.80 (11.12 - 14.48)
YPLL (Female)	11	10.68 (8.49 - 12.88)	100	<0.0001	0.87	-
YPLL (Male)	12	13.45 (11.33 - 15.57)	100	<0.0001	0.15	-
Method of estimation						
Age at death	5	19.66 (15.40 - 23.91)	100	<0.0001	0.10	-
Life expectancy gap	13	11.30 (9.67 - 12.92)	100	<0.0001	0.070	11.30 (9.67 - 12.92)
Estimated at birth	4	11.18 (9.69 - 12.66)	92.49	<0.0001	0.27	-
Estimated at 15 years	2	13.87 (11.33 - 16.42)	100	<0.0001	0.018	13.87 (11.33 - 16.42)
<b><i>Neurotic disorders</i></b>						
YPLL (Average)	11	8.83 (7.55 - 10.11)	100	<0.0001	0.086	10.06 (8.79 - 11.33)
YPLL (Female)	7	7.88 (5.22 - 10.54)	100	<0.0001	0.072	9.90 (7.46 - 12.33)
YPLL (Male)	7	10.26 (8.51 - 12.02)	100	<0.0001	0.56	-
<b><i>Eating disorders</i></b>						
YPLL (Average)	6	16.64 (7.45 - 25.82)	100	<0.0001	0.70	-
<b><i>Personality disorders</i></b>						
YPLL (Average)	11	15.35 (12.80 - 17.89)	100	<0.0001	<0.0001	15.35 (12.80 - 17.89)
YPLL (Female)	7	13.30 (10.47 - 16.13)	100	<0.0001	0.38	-
YPLL (Male)	7	15.52 (12.79 - 18.25)	100	<0.0001	0.93	-
<b><i>Developmental disorders</i></b>						
YPLL (Average)	5	12.72 (4.50 - 20.94)	99.51	<0.0001	<0.0001	12.72 (4.50 - 20.94)
<b><i>Behavioural disorders</i></b>						
YPLL (Average)	4	8.54 (7.73 - 9.34)	83.55	<0.0001	0.65	-

**Supplementary Table 12. Subgroup analyses stratified by continent and study period on years of potential life lost (YPLL) of people with mental disorders**

	N of studies	Estimate (95% CI)	I <sup>2</sup>	Cochran's Q test (p value)
<b><i>Any mental disorders</i></b>				
Continents				
Africa	1	28.40 (23.70 - 33.10)	0	1
Asia	18	15.97 (13.85 - 18.10)	100	<0.0001
Australia	6	14.37 (8.24 - 20.51)	100	<0.0001
Europe	56	14.00 (13.21 - 14.80)	100	<0.0001
North America	28	16.21 (13.17 - 19.25)	100	<0.0001
South America	1	27.64 (26.76 - 28.52)	0	1
Study period				
Before 2001	34	17.08 (15.45 - 18.71)	100	<0.0001
2001 – 2010	64	13.36 (12.51 - 14.21)	100	<0.0001
After 2010	18	15.74 (12.87 - 18.60)	100	<0.0001
<b><i>Dementia</i></b>				
Continents				
Asia	1	13.98 (13.98 - 13.98)	0	1
Europe	8	8.64 (5.85 - 11.43)	100	<0.0001
North America	3	5.77 (4.99 - 6.56)	100	<0.0001
Study period				
Before 2001	1	3.41 (3.41 - 3.41)	0	1
2001 – 2010	7	7.52 (4.81 - 10.22)	100	<0.0001
After 2010	3	13.08 (9.14 - 17.02)	98.39	<0.0001
<b><i>Substance use disorders</i></b>				
Continents				
Asia	5	26.16 (20.84 - 31.49)	100	<0.0001
Australia	5	21.89 (15.19 - 28.59)	100	<0.0001
Europe	16	18.04 (16.58 - 19.50)	100	<0.0001
North America	6	22.69 (16.88 - 28.49)	100	<0.0001
South America	1	34.46 (25.45 - 43.48)	95.88	<0.0001
Study period				
Before 2001	14	21.92 (19.60 - 24.24)	100	<0.0001
2001 – 2010	18	18.20 (15.86 - 20.53)	100	<0.0001
After 2010	4	27.65 (20.35 - 34.94)	100	<0.0001
<b><i>Severe mental illnesses</i></b>				
Continents				
Africa	1	28.40 (23.70 - 33.10)	0	1
Asia	12	15.41 (12.96 - 17.86)	100	<0.0001
Australia	3	12.91 (10.33 - 15.50)	98.52	<0.0001
Europe	31	13.44 (12.25 - 14.62)	100	<0.0001
North America	10	15.58 (11.87 - 19.30)	100	<0.0001
South America	1	25.94 (24.02 - 27.86)	0	1
Study period				
Before 2001	15	13.93 (11.74 - 16.12)	100	<0.0001
2001 – 2010	37	14.35 (13.19 - 15.50)	100	<0.0001
After 2010	12	13.68 (11.09 - 16.27)	100	<0.0001
<b><i>Schizophrenia-spectrum disorders</i></b>				
Continents				

Africa	1	27.70 (23.35 - 32.05)	0	1
Asia	11	16.66 (13.57 - 19.75)	100	<0.0001
Australia	3	15.18 (12.15 - 18.20)	97.76	<0.0001
Europe	25	14.49 (13.07 - 15.92)	100	<0.0001
North America	6	16.02 (12.15 - 19.88)	100	<0.0001
South America	1	25.94 (24.02 - 27.86)	0	1
Study period				
Before 2001	12	15.22 (12.60 - 17.84)	100	<0.0001
2001 – 2010	31	15.72 (14.30 - 17.14)	100	<0.0001
After 2010	10	14.03 (11.46 - 16.61)	100	<0.0001
<b>Schizophrenia</b>				
Continents				
Africa	1	27.70 (23.35 - 32.05)	0	1
Asia	9	17.06 (13.36 - 20.76)	100	<0.0001
Australia	2	13.53 (12.01 - 15.05)	79.35	<0.0001
Europe	14	14.17 (12.53 - 15.82)	100	<0.0001
North America	5	15.80 (11.37 - 20.24)	100	<0.0001
Study period				
Before 2001	8	13.36 (10.17 - 16.54)	100	<0.0001
2001 – 2010	21	16.39 (14.58 - 18.19)	100	<0.0001
After 2010	6	13.10 (10.37 - 15.82)	100	<0.0001
<b>Mood disorders</b>				
Continents				
Africa	1	29.15 (25.22 - 33.08)	0	1
Asia	8	15.91 (11.43 - 20.39)	100	<0.0001
Australia	2	9.58 (7.42 - 11.74)	97.92	<0.0001
Europe	23	11.98 (11.05 - 12.90)	100	<0.0001
North America	3	16.57 (11.50 - 21.64)	99.99	<0.0001
South America	1	24.66 (22.78 - 26.54)	0	1
Study period				
Before 2001	8	13.61 (12.05 - 15.16)	100	<0.0001
2001 – 2010	27	12.45 (10.81 - 14.10)	100	<0.0001
After 2010	8	13.58 (9.36 - 17.80)	100	<0.0001
<b>Bipolar disorder</b>				
Continents				
Africa	1	29.00 (24.02 - 33.98)	0	1
Asia	4	12.77 (9.11 - 16.42)	100	<0.0001
Australia	1	1.10 (0.35 - 1.85)	0	1
Europe	13	11.87 (10.6 - 13.15)	100	<0.0001
North America	2	18.16 (11.21 - 25.1)	99.98	<0.0001
Study period				
Before 2001	4	14.59 (9.15 - 20.02)	100	<0.0001
2001 – 2010	13	11.47 (10.12 - 12.81)	100	<0.0001
After 2010	6	14.27 (9.18 - 19.36)	100	<0.0001
<b>Depressive disorders</b>				
Continents				
Africa	1	29.40 (23.00 - 35.80)	0	1
Asia	4	13.55 (8.24 - 18.87)	100	<0.0001
Australia	2	10.69 (7.56 - 13.82)	97.5	<0.0001
Europe	10	12.12 (10.31 - 13.93)	100	<0.0001

North America	1	13.40 (13.29 - 13.51)	0	1
Study period				
Before 2001	4	14.88 (12.30 - 17.46)	99.63	<0.0001
2001 – 2010	12	11.19 (9.37 - 13.01)	100	<0.0001
After 2010	5	12.69 (5.17 - 20.21)	100	<0.0001
<b>Neurotic disorders</b>				
Continents				
Asia	2	17.99 (7.79 - 28.20)	100	<0.0001
Australia	1	8.07 (6.05 - 10.10)	89.76	<0.0001
Europe	8	8.37 (7.31 - 9.43)	100	<0.0001
Study period				
Before 2001	4	8.06 (6.94 - 9.18)	100	<0.0001
2001 – 2010	7	8.52 (7.10 - 9.93)	100	<0.0001
After 2010	2	19.31 (11.66 - 26.95)	99.81	<0.0001
<b>Eating disorders</b>				
Continents				
Europe	5	16.94 (6.09 - 27.79)	100	<0.0001
North America	1	14.82 (14.82 - 14.82)	0	1
Study period				
Before 2001	1	39.00 (39.00 - 39.00)	0	1
2001 – 2010	5	12.86 (6.35 - 19.37)	100	<0.0001
<b>Personality disorders</b>				
Continents				
Europe	10	15.77 (13.05 - 18.48)	100	<0.0001
North America	1	11.00 (7.08 - 14.92)	100	<0.0001
Study period				
Before 2001	3	16.30 (12.44 - 20.16)	100	<0.0001
2001 – 2010	7	13.53 (11.13 - 15.93)	100	<0.0001
After 2010	1	28.37 (15.93 - 40.81)	96.82	<0.0001
<b>Developmental disorders</b>				
Continents				
Europe	4	8.42 (6.71 - 10.14)	87.75	<0.0001
North America	1	38.50 (33.23 - 43.77)	0	1
Study period				
2001 – 2010	5	12.72 (4.50 - 20.94)	99.51	<0.0001
<b>Behavioural disorders</b>				
Continents				
Europe	3	8.55 (7.64 - 9.45)	88.44	<0.0001
North America	1	8.50 (6.29 - 10.71)	0	1
Study period				
Before 2001	1	8.50 (6.29 - 10.71)	0	1
2001 – 2010	3	8.55 (7.64 - 9.45)	88.44	<0.0001

**Supplementary Table 13. Subgroup analyses stratified by study countries/regions on years of potential life lost (YPLL) of people with mental disorders**

	N of studies	Estimate (95% CI)	I <sup>2</sup>	Cochran's Q test (p value)
<b><i>Dementia</i></b>				
Canada	1	7.17 (5.31 - 9.02)	0	1
Denmark	1	13.00 (9.08 - 16.92)	100	<0.0001
Germany	2	3.87 (2.51 - 5.24)	100	<0.0001
India	1	13.98 (13.98 - 13.98)	0	1
Italy	1	5.60 (4.19 - 7.00)	99.38	<0.0001
Norway	2	14.06 (9.72 - 18.41)	98.71	<0.0001
Spain	1	8.80 (5.96 - 11.64)	0	1
Sweden	1	3.41 (3.41 - 3.41)	0	1
United States	2	5.56 (4.88 - 6.25)	100	<0.0001
<b><i>Substance use disorders</i></b>				
Australia	5	21.89 (15.19 - 28.59)	100	<0.0001
Brazil	1	34.46 (25.45 - 43.48)	95.88	<0.0001
Canada	1	28.00 (28.00 - 28.00)	0	1
China	1	26.94 (21.13 - 32.76)	100	<0.0001
Czech Republic	1	5.47 (3.73 - 7.21)	100	<0.0001
Denmark	6	16.57 (15.04 - 18.10)	100	<0.0001
Finland	2	21.42 (20.22 - 22.62)	100	<0.0001
Germany	1	17.32 (17.32 - 17.32)	0	1
Italy	1	22.50 (21.10 - 23.90)	0	1
Spain	1	38.00 (38.00 - 38.00)	0	1
Sweden	3	19.22 (16.70 - 21.73)	100	<0.0001
Taiwan	4	25.23 (15.06 - 35.40)	100	<0.0001
United Kingdom	3	16.67 (13.59 - 19.74)	100	<0.0001
United States	5	21.62 (14.98 - 28.26)	100	<0.0001
<b><i>Severe mental illnesses</i></b>				
Australia	3	12.91 (10.33 - 15.50)	98.52	<0.0001
Brazil	1	25.94 (24.02 - 27.86)	0	1
Canada	2	12.80 (10.53 - 15.07)	100	<0.0001
China	3	19.21 (15.48 - 22.95)	100	<0.0001
Denmark	12	11.38 (9.80 - 12.95)	100	<0.0001
Ethiopia	1	28.40 (23.70 - 33.10)	0	1
Finland	5	15.53 (13.70 - 17.36)	100	<0.0001
France	1	12.50 (3.68 - 21.32)	100	<0.0001
Hong Kong	2	7.58 (6.45 - 8.70)	95.92	<0.0001
Hungary	1	12.60 (10.44 - 14.76)	100	<0.0001
Ireland	1	37.35 (17.06 - 57.64)	100	<0.0001
Israel	1	10.50 (8.62 - 12.38)	100	<0.0001
Italy	1	17.36 (15.80 - 18.92)	88.88	<0.0001
Spain	1	17.49 (10.35 - 24.63)	88.57	<0.0001
Sweden	6	12.76 (10.97 - 14.54)	100	<0.0001
Taiwan	5	18.22 (14.33 - 22.12)	100	<0.0001
Turkey	1	8.70 (8.55 - 8.85)	0	1
United Kingdom	7	11.89 (9.87 - 13.91)	100	<0.0001
United States	8	16.70 (11.66 - 21.73)	100	<0.0001
<b><i>Schizophrenia-spectrum disorders</i></b>				
Australia	3	15.18 (12.15 - 18.20)	97.76	<0.0001
Brazil	1	25.94 (24.02 - 27.86)	0	1
Canada	2	12.80 (10.53 - 15.07)	100	<0.0001
China	3	20.05 (17.65 - 22.45)	100	<0.0001

Denmark	9	12.58 (10.35 - 14.80)	100	<0.0001
Ethiopia	1	27.70 (23.35 - 32.05)	0	1
Finland	5	15.24 (13.26 - 17.22)	100	<0.0001
France	1	12.50 (3.68 - 21.32)	100	<0.0001
Hong Kong	1	7.81 (6.14 - 9.49)	97.8	<0.0001
Hungary	1	12.60 (10.44 - 14.76)	100	<0.0001
Ireland	1	37.35 (17.06 - 57.64)	100	<0.0001
Israel	1	12.00 (10.04 - 13.96)	100	<0.0001
Italy	1	18.10 (17.69 - 18.51)	0	1
Spain	1	17.49 (10.35 - 24.63)	88.57	<0.0001
Sweden	5	14.20 (12.09 - 16.31)	100	<0.0001
Taiwan	5	19.92 (14.83 - 25.01)	100	<0.0001
Turkey	1	8.70 (8.55 - 8.85)	0	1
United Kingdom	5	12.78 (10.79 - 14.77)	100	<0.0001
United States	4	19.23 (13.06 - 25.40)	100	<0.0001
<b>Schizophrenia</b>				
Australia	2	13.53 (12.01 - 15.05)	79.35	<0.001
Canada	2	12.80 (10.53 - 15.07)	100	<0.001
China	2	18.13 (14.49 - 21.77)	99.87	<0.001
Denmark	5	13.96 (11.38 - 16.54)	100	<0.001
Ethiopia	1	27.70 (23.35 - 32.05)	0	1
Finland	3	17.39 (11.17 - 23.60)	100	<0.0001
Hong Kong	1	8.80 (7.37 - 10.23)	96.18	<0.0001
Hungary	1	12.60 (10.44 - 14.76)	100	<0.0001
Spain	1	19.62 (11.56 - 27.68)	74.87	<0.0001
Sweden	3	13.37 (9.93 - 16.81)	100	<0.0001
Taiwan	5	19.92 (14.83 - 25.01)	100	<0.0001
Turkey	1	9.50 (6.56 - 12.44)	100	<0.0001
United Kingdom	3	12.33 (9.62 - 15.04)	100	<0.0001
United States	3	19.81 (11.24 - 28.39)	100	<0.0001
<b>Mood disorders</b>				
Australia	2	9.58 (7.42 - 11.74)	97.92	<0.0001
Brazil	1	24.66 (22.78 - 26.54)	0	1
China	2	20.53 (15.73 - 25.34)	100	<0.0001
Denmark	14	11.02 (9.39 - 12.64)	100	<0.0001
Ethiopia	1	29.15 (25.22 - 33.08)	0	1
Finland	5	14.19 (12.52 - 15.86)	100	<0.0001
Hong Kong	1	7.16 (6.62 - 7.69)	0	<0.0001
Israel	1	9.00 (9.00 - 9.00)	0	1
Italy	3	11.15 (7.14 - 15.16)	99.62	<0.0001
Japan	1	2.86 (2.76 - 2.96)	100	<0.0001
Sweden	6	11.92 (10.04 - 13.8)	100	<0.0001
Taiwan	3	18.20 (10.20 - 26.20)	100	<0.0001
United Kingdom	5	11.19 (9.06 - 13.32)	100	<0.0001
United States	3	16.57 (11.5 - 21.64)	99.99	<0.0001
<b>Bipolar disorder</b>				
Australia	1	1.10 (0.35 - 1.85)	0	1
China	1	17.54 (6.11 - 28.96)	100	<0.0001
Denmark	6	10.82 (9.53 - 12.12)	100	<0.0001
Ethiopia	1	29.00 (24.02 - 33.98)	0	1
Finland	1	18.00 (14.47 - 21.53)	100	<0.0001
Hong Kong	1	7.16 (6.62 - 7.69)	0	<0.0001
Israel	1	9.00 (9.00 - 9.00)	0	1
Italy	1	16.50 (15.54 - 17.46)	0	1

Sweden	2	10.70 (8.48 - 12.92)	100	<0.0001
Taiwan	1	13.94 (12.55 - 15.34)	55.22	<0.0001
United Kingdom	5	11.81 (9.40 - 14.21)	100	<0.0001
United States	2	18.16 (11.21 - 25.10)	99.98	<0.0001
<b><i>Depressive disorders</i></b>				
Australia	2	10.69 (7.56 - 13.82)	97.5	<0.001
China	2	22.78 (22.22 - 23.34)	100	<0.001
Denmark	5	12.50 (8.88 - 16.12)	100	<0.001
Ethiopia	1	29.40 (23.00 - 35.80)	0	1
Finland	2	14.67 (10.89 - 18.45)	99.54	<0.0001
Italy	3	9.81 (5.90 - 13.73)	99.59	<0.0001
Japan	1	2.86 (2.76 - 2.96)	100	<0.0001
Sweden	2	13.68 (11.47 - 15.88)	97.93	<0.0001
Taiwan	1	9.66 (6.74 - 12.58)	92.82	<0.0001
United Kingdom	4	10.17 (5.95 - 14.38)	99.67	<0.0001
United States	1	13.40 (13.29 - 13.51)	0	1
<b><i>Neurotic disorders</i></b>				
Australia	1	8.07 (6.05 - 10.10)	89.76	<0.0001
China	1	23.20 (23.20 - 23.20)	0	1
Denmark	5	7.65 (6.24 - 9.07)	100	<0.0001
Finland	1	8.17 (6.89 - 9.45)	100	<0.0001
Italy	1	15.4 (14.73 - 16.07)	0	1
Sweden	1	8.75 (6.50 - 11.00)	100	<0.0001
Taiwan	1	12.79 (12.79 - 12.79)	0	1
<b><i>Eating disorders</i></b>				
Canada	1	14.82 (14.82 - 14.82)	0	1
Denmark	3	7.82 (6.43 - 9.22)	75.63	<0.0001
United Kingdom	2	33.72 (23.24 - 44.21)	98.63	<0.0001
<b><i>Personality disorders</i></b>				
Canada	1	11.00 (7.08 - 14.92)	100	<0.0001
Denmark	6	12.07 (9.23 - 14.91)	100	<0.0001
Finland	1	13.75 (12.28 - 15.22)	100	<0.0001
Italy	1	28.37 (15.93 - 40.81)	96.82	<0.0001
Sweden	2	17.20 (12.86 - 21.54)	100	<0.0001
United Kingdom	2	19.83 (16.71 - 22.96)	95.77	<0.0001
<b><i>Developmental disorders</i></b>				
Denmark	4	8.42 (6.71 - 10.14)	87.75	<0.0001
United States	1	38.5 (33.23 - 43.77)	0	1
<b><i>Behavioural disorders</i></b>				
Denmark	3	8.55 (7.64 - 9.45)	88.44	<0.0001
United States	1	8.50 (6.29 - 10.71)	0	1



**Supplementary Table 14. Years of potential life lost (YPLL) due to specific death causes in people with mental disorders**

	N of studies	Estimate (95% CI)	I <sup>2</sup>	Cochran's Q test (p value)	Egger's test (p-value)	Estimate after trim & fill procedure
<b>Compared to the general population with the same death cause</b>						
Unnatural causes	4	8.11 (6.10 – 10.13)	100	<0.0001	0.85	-
Accidents	4	6.91 (3.22 – 10.6)	100	<0.0001	0.98	-
Suicide	4	8.31 (6.43 – 10.19)	100	<0.0001	0.64	-
Homicide	3	5.64 (0.30 – 10.97)	100	<0.0001	0.64	-
Natural causes	4	4.38 (3.15 – 5.61)	100	<0.0001	<0.0001	4.38 (3.15 – 5.61)
Infectious diseases	3	6.35 (3.36 – 9.34)	100	<0.0001	0.061	6.35 (3.36 – 9.34)
Neoplasms	4	5.02 (2.13 – 7.91)	100	<0.0001	0.019	5.02 (2.13 – 7.91)
Endocrine and metabolic diseases	4	7.31 (2.91 – 11.71)	100	<0.0001	0.15	-
Circulatory system diseases	4	4.73 (2.38 – 7.09)	100	<0.0001	0.27	-
Respiratory diseases	4	3.96 (1.77 – 6.15)	100	<0.0001	0.036	3.44 (0.90 – 5.98)
Digestive diseases	4	6.41 (3.63 – 9.19)	100	<0.0001	0.62	-
Genitourinary diseases	4	3.25 (1.96 – 4.55)	100	<0.0001	0.0077	3.25 (1.96 – 4.55)
<b>Compared to the general population</b>						
<b>Total population</b>						
Unnatural causes	14	29.12 (25.66 – 32.58)	100	<0.0001	0.039	29.12 (25.66 – 32.58)
Accidents	9	31.64 (24.23 – 39.04)	100	<0.0001	0.73	-
Suicide	11	29.78 (23.25 – 36.32)	100	<0.0001	0.55	-
Homicide	7	34.29 (26.76 – 41.81)	100	<0.0001	0.15	-
Natural causes	16	16.97 (14.97 – 18.98)	100	<0.0001	<0.0001	16.97 (14.97 – 18.98)
Infectious diseases	6	19.70 (10.53 – 28.87)	100	<0.0001	0.59	-
Neoplasms	10	17.96 (12.24 – 23.69)	100	<0.0001	0.22	-
Endocrine and metabolic diseases	8	16.28 (10.62 – 21.95)	100	<0.0001	0.010	16.28 (10.62 – 21.95)
Circulatory system diseases	12	15.89 (12.04 – 19.75)	100	<0.0001	0.17	-
Respiratory diseases	8	15.15 (9.82 – 20.48)	100	<0.0001	0.029	15.15 (9.82 – 20.48)
Digestive diseases	9	21.75 (17.25 – 26.25)	100	<0.0001	0.72	-
Genitourinary diseases	5	13.32 (4.88 – 21.75)	100	<0.0001	0.12	-
<b>Females</b>						
Unnatural causes	4	31.26 (20.45 – 42.08)	100	<0.0001	0.015	31.26 (20.45 – 42.08)
Accidents	3	34.24 (17.37 – 51.11)	98.42	<0.0001	0.14	-
Suicide	3	32.18 (10.73 – 53.63)	99.56	<0.0001	<0.0001	32.18 (10.73 – 53.63)
Homicide	2	39.17 (29.43 – 48.92)	63.04	0.10	-	-
Natural causes	7	17.85 (14.27 – 21.44)	100	<0.0001	<0.0001	16.26 (12.45 – 20.07)
Infectious diseases	1	10.60 (10.59 – 10.61)	0	1.000	-	-
Neoplasms	4	16.38 (6.70 – 26.06)	100	<0.0001	<0.0001	16.38 (6.7 – 26.06)
Endocrine and metabolic diseases	3	22.43 (4.36 – 40.51)	97.34	<0.0001	<0.0001	22.43 (4.36 – 40.51)
Circulatory system diseases	6	14.76 (8.20 – 21.32)	100	<0.0001	0.0059	14.76 (8.2 – 21.32)
Respiratory diseases	4	18.06 (9.11 – 27.00)	100	<0.0001	0.43	-
Digestive diseases	2	14.46 (9.08 – 19.85)	96.83	<0.0001	-	-
Genitourinary diseases	2	16.28 (-11.21 – 43.78)	86.81	0.0058	-	-

<b>Males</b>							
Unnatural causes	6	24.70 (19.48 – 29.93)		100	<0.0001	<0.0001	24.7 (19.48 – 29.93)
Accidents	4	24.63 (13.69 – 35.57)		100	<0.0001	0.040	24.63 (13.69 – 35.57)
Suicide	4	25.88 (11.13 – 40.63)		100	<0.0001	0.035	25.88 (11.13 – 40.63)
Homicide	3	27.56 (13.15 – 41.96)		100	<0.0001	0.0008	27.56 (13.15 – 41.96)
Natural causes	7	17.70 (14.69 – 20.72)		100	<0.0001	<0.0001	15.41 (12.19 – 18.63)
Infectious diseases	2	15.80 (-1.45 – 33.05)		100	<0.0001	-	-
Neoplasms	6	14.94 (7.16 – 22.73)		100	<0.0001	<0.0001	14.94 (7.16 – 22.73)
Endocrine and metabolic diseases	5	15.85 (8.82 – 22.89)		100	<0.0001	0.0010	15.85 (8.82 – 22.89)
Circulatory system diseases	8	16.14 (11.21 – 21.06)		100	<0.0001	0.15	-
Respiratory diseases	5	17.28 (8.43 – 26.12)		100	<0.0001	<0.0001	17.28 (8.43 – 26.12)
Digestive diseases	5	23.25 (17.44 – 29.06)		100	<0.0001	0.39	-
Genitourinary diseases	2	13.95 (-7.71 – 35.61)		100	<0.0001	-	-