

## F.1 Clinical studies

**Table 54: Studies excluded from the qualitative review**

Reference	Reason for exclusion
Abagiu 2014 <sup>1</sup>	Incorrect study design and topic: Review on MAT programmes rather; Not qualitative.
Abbasi-Ghahramanloo 2018 <sup>2</sup>	No relevant themes
Abdellaoui 2018 <sup>3</sup>	No relevant themes
Abiodun 1991 <sup>4</sup>	Incorrect medications: mixture of prescribed, non-prescribed and illicit drug use.
Abood 2018 <sup>5</sup>	Incorrect population: prescription medication abuse with the use of KHAT
Abouyanni 2000 <sup>6</sup>	No relevant themes
Adams 1993 <sup>7</sup>	No relevant themes
Adams 2018 <sup>8</sup>	No relevant themes
Agyapong 2009 <sup>10</sup>	Analysis does not meet protocol: quantitative analysis with qualitatively reported numerical findings
Al-Amri 2002 <sup>11</sup>	No relevant themes
Al-Husseini <sup>12</sup>	Incorrect population: Illicit use of pregabalin; use for addiction treatment
Albright 2010 <sup>13</sup>	No relevant themes
Alghofaily 2019 <sup>14</sup>	Incorrect study design: quantitative survey
Alishahi 2021 <sup>15</sup>	Incorrect study design: closed question survey
Alkhamis 2009 <sup>16</sup>	Incorrect population: non-prescribed drug misuse
Allcock 2003 <sup>17</sup>	Incorrect population: student nurses and no relevant themes
Alley 2020 <sup>18</sup>	Quantitative analysis; no relevant themes
Alves 2011 <sup>19</sup>	No relevant themes
Alvidrez 2004 <sup>20</sup>	Incorrect population: illicit drug use
Anderson 2014 <sup>23</sup>	Systematic review: no relevant themes
Anderson 2020 <sup>24</sup>	No relevant themes: relevant to substitution treatment for illicit drug use
Andrews 2005 <sup>27</sup>	Incorrect study design: quantitative survey
Andrews 2013 <sup>26</sup>	No relevant themes
Andrews-Cooper 2019 <sup>25</sup>	Review: references checked
Andrilla 2018 <sup>28</sup>	Quantitative analysis; no extractable themes
Andrilla 2019 <sup>30</sup>	No relevant themes
Andrilla 2020 <sup>29</sup>	No relevant themes
Anonymous 2009 <sup>337</sup>	No relevant themes
Anonymous 2010 <sup>9</sup>	Incorrect study design: Summary of research into addiction
Anonymous 2010 <sup>336</sup>	Incorrect age population: adolescents, alcohol and drug use
Anonymous 2017 <sup>119</sup>	Incorrect population: opium dependence/active methadone treatment
Anonymous 2020 <sup>117</sup>	Incorrect setting: emergency departments; no relevant themes

Reference	Reason for exclusion
Anthierens 2007 <sup>32</sup>	Non-English paper: French; full-text not available
Armstrong 2016 <sup>33</sup>	Full paper not available
Attiullah 2004 <sup>34</sup>	No relevant qualitative information
Ayakta 2021 <sup>35</sup>	No relevant themes
Ayres 2012 <sup>36</sup>	Incorrect population: Illicit substance abuse
Badger 2002 <sup>37</sup>	No relevant qualitative information
Baker 2021 <sup>38</sup>	Quantitative analysis; no relevant themes
Baldacchino 2005 <sup>40</sup>	No relevant qualitative information
Baldacchino 2010 <sup>39</sup>	No relevant qualitative information
Baldwin 2012 <sup>41</sup>	No relevant qualitative information
Balough 2019 <sup>42</sup>	No relevant qualitative information
Banta-Green 2010 <sup>43</sup>	Analysis does not meet protocol: quantitative
Bargon 2019 <sup>44</sup>	No relevant qualitative information
Barrett, 2018 <sup>45</sup>	No relevant qualitative information
Barter 1996 <sup>47</sup>	No relevant themes
Basu 2005 <sup>48</sup>	Incorrect study design: Overview of drug and alcohol abuse
Bayliss, 2015 <sup>49</sup>	No relevant themes
Bech, 2005 <sup>50</sup>	No relevant qualitative information
Becker 2007 <sup>51</sup>	No relevant themes
Bell, 1990 <sup>52</sup>	Analysis does not meet protocol: Quantitative analysis of a survey
Bendtsen, 1999 <sup>53</sup>	No relevant themes
Bennet 2019 <sup>54</sup>	Incorrect study design: pharmacists opinions based on one case report of perceived responsibility for medicines
Bergstein 2021 <sup>56</sup>	Incorrect population: 95% heroin use
Bessen 2019 <sup>57</sup>	No relevant themes
Bhamb 2006 <sup>58</sup>	No relevant qualitative information
Black 2020 <sup>59</sup>	Quantitative analysis; no extractable themes
Blanck 2015 <sup>61</sup>	Incorrect study design: quantitative, not open-ended questions
Bornstein 2020 <sup>62</sup>	No relevant themes
Bounthavong 2020 <sup>63</sup>	No relevant themes
Bowles 2021 <sup>64</sup>	Incorrect population: non-prescription use and heroin use
Brinkley-Rubistein 2019 <sup>65</sup>	Incorrect topic: Illicit opioid use
Broekmans 2004 <sup>66</sup>	Incorrect study design: Survey that did not contain open ended free text answers
Brown 2020 <sup>67</sup>	Quantitative analysis, no relevant themes
Bunbury 1980 <sup>68</sup>	Unable to obtain paper
Bunting 2021 <sup>69</sup>	No relevant themes
Busto 1998 <sup>71</sup>	Analysis does not meet protocol: Quantitative data; no relevant information
Busto 2001 <sup>70</sup>	No relevant information: says respondents had side effects but not much beyond that.
Buttram 2019 <sup>72</sup>	Incorrect population/ topic: Gabapentin as treatment for substance abuse alternative
Calcaterra 2016 <sup>73</sup>	No relevant themes
Canham 2015 <sup>76</sup>	No relevant themes
Canfield 2010 <sup>74</sup>	No relevant qualitative information

Reference	Reason for exclusion
Canfield 2011 <sup>75</sup>	erratum statement
Caplehorn 1996 <sup>77</sup>	Opinions on methadone treatment; no extractable themes
Castañeda 2020 <sup>79</sup>	No relevant themes
Chang 2016 <sup>80</sup>	Doctors' views about Canadian opioid guidelines; no extractable themes
Chatterjee 2021 <sup>81</sup>	Incorrect populations: self-reported current or prior use of opioids for recreational purposes; no relevant themes: views on combining non opioid medications with opioid use
Chau 2021 <sup>82</sup>	Incorrect population: acting representatives from local and regional drug use, the community and advocacy organisations.
Chen 2011 <sup>83</sup>	Doctors' opinions and practices; no relevant themes
Chouinard 2018 <sup>85</sup>	Quantitatively analysed survey; no extractable themes
Cleveland 2020 <sup>86</sup>	Mixed sample of illicit and prescription opioids also obtained for non-medical use; no relevant themes
Click 2018 <sup>87</sup>	No relevant themes
Cochran 2013 <sup>88</sup>	Opinions on screening and intervention for opioid abuse; quantitative results from questionnaire
Cohen 1983 <sup>89</sup>	A list of symptoms of withdrawal experienced but without qualitative data
Conrardy 2016 <sup>90</sup>	Incorrect opioid drug combination: hydrocodone-acetaminophen; no relevant themes
Cooper 2007 <sup>93</sup>	Incorrect study design: Questionnaire that did not contain open ended free text answers
Cooper 2016 <sup>95</sup>	Review of qualitative studies: references checked
Cossette 2020 <sup>96</sup>	Incorrect drugs: antipsychotics; no relevant themes
Couplant 2021 <sup>97</sup>	No relevant themes
Coyne 2021 <sup>98</sup>	Quantitatively analysed survey; no extractable themes
Coyne 2021 <sup>99</sup>	Quantitative analysis; no extractable themes
Crime 1983 <sup>100</sup>	No relevant information
Dankert 2008 <sup>101</sup>	Irrelevant topic: opinions on implantable psychotropic meds
Davies 1997 <sup>102</sup>	No relevant themes
Davis 2018 <sup>103</sup>	Paper not available
Dawson 2002 <sup>105</sup>	Irrelevant topic: Inadequate pain relief for cancer patients
Dawson 2005 <sup>104</sup>	No relevant qualitative information
Donald 2021 <sup>107</sup>	No relevant themes
Donner 1988 <sup>108</sup>	No relevant qualitative information
Doucette 1997 <sup>109</sup>	Irrelevant topic: pharmacists views on opioids for cancer pain
Drazdowski 2016 <sup>110</sup>	Incorrect study design & topic: Rationale for non-medical prescription abuse
Droege 2007 <sup>111</sup>	No relevant qualitative information
Dunn 2016 <sup>113</sup>	No relevant qualitative information
Dunn 2017 <sup>112</sup>	No relevant qualitative information
Dyas 2010 <sup>114</sup>	Unclear if drugs met protocol: 'prescribed or over-the-counter' hypnotics that were not specified
Dybwad 1997 <sup>115</sup>	No relevant themes
Ebbert 2018 <sup>116</sup>	No relevant qualitative information
Eveleigh 2019 <sup>120</sup>	duplicate of paper already extracted in the review

Reference	Reason for exclusion
Fatani 2021 <sup>123</sup>	Incorrect population: mixed sample of people using prescription and illicit substances reported to be taking them for non-medical use
Fagerlin 2010 <sup>121</sup>	Incorrect study design: quantitative survey
Fernandez 2018 <sup>125</sup>	doctors survey; some useful info about prescribing decisions
Fernandez 2021 <sup>124</sup>	Incorrect population: illicit and tobacco use
Feroni 2005 <sup>126</sup>	Analysis does not meet protocol: Quantitative analysis of a survey
Ferrugia 2020 <sup>122</sup>	Incorrect population: illicit drug use; no relevant themes
Fingleton 2019 <sup>127</sup>	No relevant themes
Fisher 1995 <sup>128</sup>	Analysis does not meet protocol: quantitatively analysed investigation
Fixsen 2017 <sup>129</sup>	Incorrect study design: narrative investigation of publicly available online accounts of benzodiazepine use and withdrawal (e.g., including internet blogs and YouTube videos); no distinction between prescribed and illicit use made
Fleming 2017 <sup>130</sup>	Abstract only
Foley 2017 <sup>131</sup>	No relevant qualitative information
Foley 2018 <sup>132</sup>	No relevant qualitative information
Foley 2016 <sup>133</sup>	No relevant themes
Fulton 2012 <sup>135</sup>	Qualitative study but concentrating on initial use of a drug that may or may not be prescribed at the time.
Galland 2017 <sup>136</sup>	Unable to obtain paper
Glanz 1986 <sup>140</sup>	No relevant qualitative information
Gibson 2014 <sup>139</sup>	Incorrect study design : narrative view
Godbole 2011 <sup>141</sup>	Incorrect topic: psychotropic medication in pregnancy
Gottlieb 1978 <sup>144</sup>	Incorrect study design: Questionnaire that did not contain open ended free text answers
Grahmann <sup>145</sup>	No relevant themes
Grazzi 2008 <sup>146</sup>	No relevant qualitative information
Greaves 2015 <sup>147</sup>	No relevant themes
Green 2017 <sup>148</sup>	No relevant themes
Griffoen 2017 <sup>149</sup>	No relevant themes
Group 2015 <sup>150</sup>	Incorrect topic: management of cancer pain
Hadlandsmyth 2019 <sup>154</sup>	No relevant themes
Hamilton 2021 <sup>155</sup>	No relevant themes
Harmark 2011 <sup>156</sup>	No relevant qualitative information
Harmark 2013 <sup>157</sup>	No relevant qualitative information
Haskell 1986 <sup>158</sup>	Incorrect study design: Quantitative data from survey on benzodiazepines
Hassan 2021 <sup>160</sup>	No extractable themes
Heinemann 2017 <sup>161</sup>	No relevant qualitative information
Hellewell 2002 <sup>162</sup>	No relevant qualitative information
Hooten 2011 <sup>164</sup>	Survey with no relevant themes
Howell 2015 <sup>165</sup>	No relevant themes
Hwang 2016 <sup>168</sup>	No relevant themes
Ike 2019 <sup>169</sup>	No relevant themes
Imtiaz 2014 <sup>170</sup>	No relevant themes
Inciardi 2009 <sup>171</sup>	Incorrect population: Illicit substance abuse program users and dealers' interviews to better understand drug diversion

Reference	Reason for exclusion
Iqbal 2000 <sup>172</sup>	no relevant themes
Isacson 1993 <sup>173</sup>	Analysis does not meet protocol: Quantitative analysis of a survey
Isacson, 1999 <sup>175</sup>	Incorrect study design: Quantitative survey data on parasuicide
Isacson 2008 <sup>174</sup>	No relevant qualitative information
Isenberg 2017 <sup>176</sup>	Incorrect population: HIV patients with chronic pain and a history of substance abuse; no relevant themes
Jacobson 2019 <sup>177</sup>	No relevant themes
Jacoby 2003 <sup>178</sup>	No relevant themes
Jaiteh 2019 <sup>179</sup>	No relevant themes
James 2009 <sup>180</sup>	Incorrect drug types: second generation antipsychotics & mood stabilizers not meeting protocol
Jamison 2014 <sup>181</sup>	Incorrect study design: Closed questionnaire surveys that does not contain open ended free text answers
Jarbrink 1999 <sup>182</sup>	Incorrect study design: closed questionnaire surveys that does not contain open ended free text answers
Jarernsripornkul 2002 <sup>183</sup>	Incorrect study design: no open-ended questions; no extractable themes
Jarernsripornkul 2003 <sup>184</sup>	No qualitative information that can be used
Jariangprasert 2007 <sup>185</sup>	No open-ended free text answers
Jauhar 2009 <sup>186</sup>	Not a qualitative research study
Jeske 2019 <sup>187</sup>	Unclear if participants were on methadone maintenance due to raking prescribed or illicit opioids; no relevant themes
Jiao 2018 <sup>188</sup>	No extractable themes
Johnson 2017 <sup>189</sup>	No relevant themes
Joranson 2001 <sup>190</sup>	No relevant themes
Kahan 2011 <sup>191</sup>	No relevant themes
Kang 2019 <sup>192</sup>	No relevant themes: information needs of physicians and pharmacists
Kapadia 2007 <sup>193</sup>	Incorrect population: not limited to prescribed medicine and cannot distinguish in the paper where attitudes were about prescribed or illicit drug use
Kattail 2019 <sup>194</sup>	No relevant themes
Keller 2021 <sup>195</sup>	No relevant themes
Kelly 2021 <sup>196</sup>	No relevant themes
Kennedy-Martin 2017 <sup>197</sup>	Incorrect study design: Conference abstract
Kennedy-Martin 2017 <sup>198</sup>	Incorrect study design: Conference abstract
Kesten 2020 <sup>200</sup>	Unable to obtain paper
Kesselheim 2017 <sup>199</sup>	No relevant themes
Khetta 2017 <sup>201</sup>	Paper not available
Kilaru 2014 <sup>202</sup>	No relevant themes
Kim 2019 <sup>203</sup>	No relevant information
Kim 2020 <sup>204</sup>	No qualitative analysis
King 1983 <sup>205</sup>	Incorrect study design: Questionnaire that did not contain open ended free text answers
Kissin 2006 <sup>207</sup>	Incorrect study design: Survey data presented in a quantitative fashion
Knowlan 2001 <sup>208</sup>	Incorrect study design: No open-ended free text answers

Reference	Reason for exclusion
Kohlbeck 2018 <sup>209</sup>	Incorrect study design: Review of prescribing practices after an education intervention; no relevant themes
Kosteniuk 2020 <sup>210</sup>	No relevant themes
Kraus 2015 <sup>211</sup>	Incorrect study design: quantitative survey
Kring 2014 <sup>213</sup>	Unable to obtain paper
Lafferty <sup>214</sup>	Incorrect study design: survey with no open-ended free text answers
Lahteenmaki 2019 <sup>215</sup>	Incorrect study design: RCT
Lai 2021 <sup>216</sup>	Incorrect population: people with a history on non-medical opioid use
Lal 2019 <sup>217</sup>	No relevant themes
Langford 2021 <sup>219</sup>	No relevant themes
Lapshin 2006 <sup>220</sup>	Incorrect study design: development of questionnaire
Larson 2018 <sup>221</sup>	No relevant themes
Lau 2008 <sup>222</sup>	Limited free text answers and nothing related to protocols
Lau 2016 <sup>223</sup>	Incorrect medication: paracetamol
Leece <sup>224</sup>	Qualitative study concentrating on prescribing practices; no relevant themes
Lefebvre-Durel 2021 <sup>225</sup>	No relevant themes
Leonardi <sup>226</sup>	Buprenorphine usage for replacement treatment; no relevant themes
Leong <sup>227</sup>	No relevant themes
Lewis 2016 <sup>228</sup>	Incorrect study design: gabapentin intervention for pain; very briefly reported qualitative findings; no extractable themes
Liebreuz 2015 <sup>230</sup>	Mixed population of prescribed and illicit medication. Outcomes do not directly relate to a clinical question.
Lin 2007 <sup>231</sup>	Incorrect study design: statement responses with quantitative results
Linn 1971 <sup>232</sup>	Incorrect study design: Opinions based on specific situations with antidepressant medicines
Lopez 2018 <sup>233</sup>	No qualitative information: about adherence to guidance
Mahtani-Chugani 2011 <sup>235</sup>	Review: references checked
Malewski 2018 <sup>236</sup>	Unable to obtain paper
Manubay 2015 <sup>237</sup>	Incorrect study design: quantitative questionnaire
Marazziti 2014 <sup>238</sup>	Incorrect study design: Questionnaire survey
Markocic 2016 <sup>239</sup>	Questionnaire that did not contain open ended free text answers
Marquez 2021 <sup>240</sup>	No relevant themes
Martin 2018 <sup>241</sup>	No relevant themes
Martirosyan 2012 <sup>242</sup>	Incorrect drugs: drugs for Type 2 diabetes
Mathis, 2019 <sup>243</sup>	No relevant themes
Mathis 2019 <sup>243</sup>	Duplicate already excluded before reruns; no relevant themes
Mathis 2020 <sup>234</sup>	No relevant themes
Matthias 2020 <sup>245</sup>	No relevant themes
Mayock 2021 <sup>246</sup>	Incorrect population: long term methadone maintenance therapy and no relevant themes
Mazurenko 2020 <sup>247</sup>	No relevant themes; incorrect setting: acute care hospital
McCaffery <sup>248</sup>	Incorrect study design: Assessment of nurses' knowledge of opioid drugs, no qualitative data
McCaffery 1992 <sup>249</sup>	No relevant themes
McCarthy 2014 <sup>250</sup>	Very briefly stated themes; not extractable as no information to support them

Reference	Reason for exclusion
McKeganey 2004 <sup>251</sup>	Incorrect topic: Non-prescribed illegal drug use; no relevant qualitative info
McNeil 2016 <sup>253</sup>	No relevant themes
Miller 1991 <sup>254</sup>	No relevant themes
Mishriky 2019 <sup>255</sup>	No relevant themes
Mitchell 2006 <sup>256</sup>	Need to check relevant references
Mol 2005 <sup>257</sup>	Incorrect design: quantitative; No open-ended free text answers
Mol 2006 <sup>258</sup>	Incorrect study design: quantitative questionnaire
Mol 2007 <sup>259</sup>	Incorrect study design: Quantitative trial
Moore 2002 <sup>260</sup>	Incorrect study design: Survey of prescribing practices
Mueller 2017 <sup>261</sup>	Qualitative study without relevant information
Muller-Schwefe 2014 <sup>262</sup>	Incorrect population: mixed population with cancer pain; no relevant information
Nabovati 2017 <sup>263</sup>	Incorrect study design: closed question survey
Nagel 2018 <sup>264</sup>	No relevant themes
Nardini 2019 <sup>265</sup>	Incorrect study design: quantitative survey
Narsin 2012 <sup>266</sup>	Incorrect study design: quantitative survey
Navis 2019 <sup>268</sup>	No relevant themes
Neo 2001 <sup>269</sup>	Incorrect study design: quantitative survey
Nerlekar 2019 <sup>270</sup>	Incorrect study design: quantitative questionnaire
Nielsen 2011 <sup>272</sup>	Incorrect study design: closed-question survey, no qualitative analysis
Nielsen 2013 <sup>273</sup>	No relevant themes
Nielsen 2013 <sup>271</sup>	Incorrect population: illicit drug use; quantitative measures
Nielsen 2016 <sup>276</sup>	Incorrect study design: quantitative survey
Nielsen 2018 <sup>277</sup>	Analysis does not meet protocol: quantitative analysis
Nielsen 2018 <sup>275</sup>	Partially incorrect population: illicitly obtained opioids for the majority
Nielsen 2019 <sup>274</sup>	No relevant themes
North 1995 <sup>279</sup>	No relevant themes
Nunn 2011 <sup>280</sup>	Correction to existing paper; no extractable themes
Nwokeji, 2007 <sup>281</sup>	Incorrect study design: closed question survey
Nygaard 2004 <sup>282</sup>	Incorrect study design: quantitative survey
Nystrom 2005 <sup>283</sup>	Incorrect study design: quantitative questionnaires
O'Brien 2012 <sup>284</sup>	Analysis does not meet protocol: quantitative
O'Byrne 2019 <sup>285</sup>	Incorrect population: illicit drug users
O'Connor 2004 <sup>286</sup>	Analysis did not meet protocol: quantitative measures and analysis
O'Rourke 2019 <sup>289</sup>	Incorrect study design: Secondary analysis of quantitative survey
O'Shea 1991 <sup>290</sup>	Analysis does not meet protocol: quantitative analysis
O'Sullivan 2016 <sup>291</sup>	Analysis does not meet protocol: quantitative analysis
Oberleitner 2011 <sup>292</sup>	Paper not ordered: dissertation
Okoro 2018 <sup>293</sup>	Incorrect study design: closed-question questionnaire
Oldfield 2019 <sup>294</sup>	Analysis does not meet protocol: quantitatively analysed results of workshop with medical students
Olsen 2009 <sup>296</sup>	Incorrect study design: quantitative survey
Olsen 2018 <sup>297</sup>	Incorrect study design: closed question survey; quantitative analysis



Reference	Reason for exclusion
Olsen 2019 <sup>501</sup>	Incorrect study design: closed question questionnaire; quantitative analysis
Olsen 2019 <sup>295</sup>	No relevant themes
Oppong 2016 <sup>298</sup>	No relevant themes
Oros 2021 <sup>299</sup>	No relevant themes
Ostrow 2017 <sup>301</sup>	Incorrect study design: results of closed-question survey
Ott 2012 <sup>302</sup>	Unclear if drugs met protocol and unclear if survey included open-ended questions
Overton 2018 <sup>303</sup>	Incorrect study design: not a qualitative study; Delphi method involving a multidisciplinary expert panel
Owen 2012 <sup>304</sup>	Incorrect study design: quantitative survey
Oxman 2000 <sup>305</sup>	Incorrect study design: quantitatively analysed survey
Oyler 2018 <sup>306</sup>	Incorrect study design: closed question survey with 1 open-ended optional question and no qualitative analysis
Paap 2018 <sup>310</sup>	Incorrect study design: examination of internet posts, no extractable themes; unclear if antidepressants were prescribed
Padmanathan 2014 <sup>307</sup>	Incorrect study design: appraisal of accessing psychotropic medicines in India
Palacios-Cena 2017 <sup>308</sup>	No relevant themes
Paparella 2018 <sup>309</sup>	Incorrect study design: review of practice guidelines
Parchman 2017 <sup>311</sup>	No relevant themes
Pareira 2017 <sup>324</sup>	Incorrect population: illicit drug users
Park 2014 <sup>313</sup>	Analysis does not meet protocol: quantitative
Park 2021 <sup>314</sup>	incorrect population: 30.8% benzodiazepines that were not prescribed
Parks 2018 <sup>315</sup>	Paper not ordered: dissertation
Parran 2000 <sup>317</sup>	Incorrect study design: quantitative survey
Parry 2017 <sup>318</sup>	Incorrect population: health professionals treating codeine misusers, majority of which was intentional use for intoxication
Peacey <sup>320</sup>	Incorrect study design: quantitative survey
Peacock-Chambers 2020 <sup>321</sup>	No relevant themes: about early intervention child development services for mothers in recovery of opioid use disorder
Pearace 2019 <sup>322</sup>	Incorrect population: illicit opioid use
Penm 2019 <sup>323</sup>	No relevant themes
Perrone 2012 <sup>326</sup>	Incorrect study design: closed question questionnaire
Pinsker 1984 <sup>327</sup>	unclear analysis; quantitatively stated results
Pomerleau 2017 <sup>329</sup>	Incorrect design: closed question survey
Poon 2016 <sup>330</sup>	Incorrect study design: review of a monitoring system not relevant to the protocols
Porucznik 2013 <sup>331</sup>	Incorrect study design & analysis: web-based questionnaire; quantitative analysis
Pottgard 2014 <sup>332</sup>	Analysis does not meet protocol: quantitative analysis
Potter 2001 <sup>333</sup>	Incorrect study design: Closed question survey
Prathivadi 2021 <sup>335</sup>	No relevant themes
Prathivadi 2021 <sup>334</sup>	No relevant themes
Price 2012 <sup>338</sup>	Study testing validity & reliability of questionnaire developed using qualitative data, qualitative data or analysis not reported; no relevant themes



Reference	Reason for exclusion
Prien 1978 <sup>340</sup>	Incorrect design: secondary examination of existing surveys; no qualitative analysis
Qureshi 2015 <sup>342</sup>	Incorrect study design: quantitative survey
Raban 2016 <sup>343</sup>	Incorrect study design: Website content evaluation; available qualitative results not likely to relate to drugs meeting protocol
Radomski 2018 <sup>344</sup>	No relevant themes
Rash 2018 <sup>345</sup>	Incorrect study design: systematic review protocol
Rath 2012 <sup>346</sup>	Paper not ordered: dissertation
Rauck 2017 <sup>347</sup>	Incorrect study design: quantitative survey
Rausch 2012 <sup>348</sup>	Incorrect study design: Article
Razouki 2018 <sup>349</sup>	Incorrect study design: closed-question survey
Read 2014 <sup>350</sup>	Analysis does not meet protocol: quantitative analysis
Read 2015 <sup>351</sup>	Analysis does not meet protocol: quantitative analysis
Read 2016 <sup>354</sup>	Incorrect study design: quantitative survey
Read 2017 <sup>352</sup>	Incorrect study design: quantitative questionnaires
Read 2018 <sup>356</sup>	Incorrect study design: Quantitatively analysed survey
Read 2019 <sup>353</sup>	Incorrect study design: closed question survey; reports some qualitative comments but not sufficient to extract themes
Reeve 2013 <sup>357</sup>	Systematic review: references checked
Richards 2004 <sup>358</sup>	Incorrect study design: quantitative questionnaires
Rifkin 2010 <sup>359</sup>	Drugs not meeting protocol
Riley 2018 <sup>360</sup>	Paper not ordered: dissertation
Riley 2019 <sup>361</sup>	Incorrect study design: quantitative survey
Robinson 2015 <sup>362</sup>	Incorrect study design: quantitative
Rolman 2019 <sup>363</sup>	Incorrect study design: quantitative review
Roman 2011 <sup>364</sup>	Analysis and topic do not meet protocol: quantitative analysis exploring the use of medication for substance-use disorder
Rosen 2014 <sup>365</sup>	Incorrect study design: quantitative survey
Rosenberg 2003 <sup>366</sup>	Incorrect study design: quantitatively analysed closed question survey
Rosenblat 2018 <sup>367</sup>	Incorrect study design: quantitatively analysed survey
Roth 2008 <sup>368</sup>	Incorrect study design: quantitative survey
Roux 2011 <sup>369</sup>	Incorrect study design: quantitative questionnaire
Rubio 2016 <sup>370</sup>	Incorrect population: relevant to illicit drug use
Runci 2012 <sup>371</sup>	Analysis does not meet protocol: quantitative analysis
Russel 2000 <sup>372</sup>	Incorrect drugs: not dependence forming
Rutkow 2015 <sup>374</sup>	Incorrect study design: quantitative survey
Ryan 2007 <sup>375</sup>	Analysis does not meet protocol: quantitative measures and analysis
Saad 2018 <sup>376</sup>	Incorrect study design: quantitative survey; partially incorrect population: only 3/9 most commonly reported medication met protocol
Saeed 2019 <sup>377</sup>	Incorrect study design: closed question survey
Saigal 2019 <sup>378</sup>	Incorrect study design: literature review
Sake 2018 <sup>379</sup>	Incorrect study design: quantitative survey
Salazar-Fraile 2015 <sup>380</sup>	No relevant themes
Salimi 2014 <sup>381</sup>	Incorrect study design: prospective study on opioid detoxification efficacy; unclear if relevant to prescribed opioids

Reference	Reason for exclusion
Salinas 2012 <sup>382</sup>	Incorrect study design: quantitative survey
Salinas 2012 <sup>383</sup>	Incorrect study design: quantitative survey
Salvato 2003 <sup>384</sup>	Analysis does not meet protocol: quantitatively analysed questionnaires; cancer pain management
Samples 2015 <sup>385</sup>	Analysis does not meet protocol: quantitative analysis
Sanchez-Ramirez 2019 <sup>386</sup>	Closed question survey
Schieffe 2005 <sup>388</sup>	Incorrect study design: quantitatively analysed questionnaire data and medical records
Schmalstieg-Bahr, 2019 <sup>389</sup>	No relevant themes
Scott 2020 <sup>390</sup>	No relevant themes
Shader 1968 <sup>392</sup>	Incorrect study design: quantitative questionnaire
Sirdifield 2013 <sup>394</sup>	Systematic review: references checked
Sirdifield 2017 <sup>395</sup>	Systematic review: references checked
Sirey 2001 <sup>396</sup>	Incorrect study design; quantitatively analysed questionnaire
Sirley 1999 <sup>397</sup>	Analysis does not meet protocol: quantitatively analysed interviews
Slevin 2011 <sup>399</sup>	Incorrect study design: closed question survey analysed qualitatively
Stumbo 2016 <sup>402</sup>	Incorrect population: majority was illicit or non-prescribed opioids; no relevant themes
Subelj 2010 <sup>403</sup>	No relevant themes
Takaesu 2014 <sup>404</sup>	Incorrect study design: quantitative questionnaire
Tan 1999 <sup>405</sup>	Incorrect study design: closed question questionnaire
Tanguay Bernard 2018 <sup>406</sup>	Analysis did not meet protocol: quantitative analysis
Tannoury 2020 <sup>407</sup>	Incorrect study design: quantitative survey
Taverner 2000 <sup>408</sup>	Analysis does not meet protocol: quantitative analysis
Taylor 2006 <sup>409</sup>	Incorrect study design: quantitative survey
Taylor 2015 <sup>410</sup>	Incorrect setting: administration of controlled drugs in acute setting; no relevant themes
Teal 2009 <sup>411</sup>	No relevant themes
Tepper 2004 <sup>412</sup>	Incorrect study design: quantitative questionnaire; full-text not available
Togighi 2019 <sup>414</sup>	Incorrect population: opioid dependence obtained without prescription
Tong 2019 <sup>415</sup>	No relevant themes
Torabi <sup>416</sup>	Analysis does not meet protocol: quantitative analysis
Torberg 2019 <sup>425</sup>	Incorrect study design: quantitative questionnaire
Tordoff 2010 <sup>417</sup>	Unable to obtain paper
Tormohlen 2019 <sup>418</sup>	Incorrect study design: quantitatively analysed survey
Torrens 2016 <sup>419</sup>	Non-English language paper: Spanish
Townsend 2003 <sup>420</sup>	No relevant themes
Towsley 2013 <sup>421</sup>	Paper not ordered: dissertation
Toye 2017 <sup>422</sup>	Review: references checked
Trafton 2011 <sup>423</sup>	Incorrect study design: quantitative
Tran 2015 <sup>424</sup>	Incorrect study design: quantitative survey; methadone maintenance for illicit drug use
Trujols 2017 <sup>426</sup>	Incorrect study design: secondary analysis of quantitative survey; relevant to illicit drug use
Turk 1994 <sup>429</sup>	Incorrect study design: closed question questionnaire; quantitative analysis

Reference	Reason for exclusion
Turk 1995 <sup>430</sup>	Incorrect study design: quantitative survey
Turk 1996 <sup>428</sup>	Incorrect study design: article reviewing literature and quantitative survey results
Turk 1997 <sup>431</sup>	Incorrect study design: quantitatively analysed questionnaire
Turminello 2019 <sup>427</sup>	Incorrect study design: short article including quantitative survey results
Turner 2005 <sup>432</sup>	Incorrect study design: quantitative survey; Incorrect drugs: methadone and buprenorphine maintenance for drug misuse
Tylee 1999 <sup>434</sup>	Analysis does not meet protocol: quantitative analysis
Uebelacker 2011 <sup>435</sup>	No relevant themes
Ueberall 2015 <sup>436</sup>	Incorrect study design: quantitative survey
Ulmer 2017 <sup>437</sup>	Incorrect study design: closed questionnaire; no qualitative analysis
Uosukainen 2013 <sup>438</sup>	Incorrect study design: quantitatively analysed questionnaires
Upshur 2006 <sup>439</sup>	Incorrect study design: quantitative survey
Urru 2015 <sup>440</sup>	Incorrect study design: quantitative survey
Vader 2003 <sup>441</sup>	Population does not meet protocol: illicit drug use; Incorrect study design: quantitative analysis of expert panel results
Vallerand 2010 <sup>443</sup>	No relevant themes
Van Eijk 2002 <sup>444</sup>	Unable to obtain paper
Van Geffen 2005 <sup>445</sup>	Incorrect study design: Quantitatively analysed questionnaire
Van Hout 2018 <sup>446</sup>	Opioid agonist treatment for both prescription and illicit opioids; views reported mostly relevant to illicit opioid use.
Vanderplasschen 2015 <sup>449</sup>	Population does not meet protocol: illicit drug use
Varley 2019 <sup>451</sup>	Paper not ordered: dissertation
Verdoux 2014 <sup>453</sup>	Incorrect study design: quantitative survey
Vignau 2001 <sup>454</sup>	Incorrect study design: quantitative
Vilhelmsson 2011 <sup>457</sup>	No relevant themes
Vijayaraghavan 2012 <sup>455</sup>	Incorrect study design: quantitative questionnaire
Von Korff 1995 <sup>458</sup>	Analysis does not meet protocol: interviews analysed quantitatively; no extractable themes.
Von Korff 2016 <sup>459</sup>	Quantitatively analysed interviews
Voyer 2007 <sup>462</sup>	Incorrect study design: article
Waddington 2015 <sup>463</sup>	Incorrect design and irrelevant topic: qualitatively analysed food interviews.
Wagner 2014 <sup>465</sup>	Population does not meet protocol: illicit drug use
Wagner 2016 <sup>464</sup>	No relevant themes
Wallace 2014 <sup>466</sup>	No relevant themes
Walter 2018 <sup>467</sup>	Views on mixed prescription and non-prescription opioids explored; former also likely to be illicitly obtained; unclear if emerging themes were relevant to prescription opioids
Wells 2005 <sup>471</sup>	Population does not meet protocol: cancer-related pain; quantitative results
Wells 2019 <sup>470</sup>	Incorrect study design: quantitative questionnaire
Wentik 2019 <sup>472</sup>	Unable to obtain paper
Wergeland Sorbye 2019 <sup>473</sup>	Incorrect study design: single nurse interview relevant to palliative care; no themes reported
Wettermark 2003 <sup>474</sup>	Incorrect study design: quantitative data obtained from national register

Reference	Reason for exclusion
Wettermark 2009 <sup>475</sup>	No relevant themes
Wheatley 1993 <sup>476</sup>	Incorrect design: single case history and quantitative survey results
White 2015 <sup>477</sup>	Population does not meet protocol: people who inject opioids intended for oral/ sublingual consumption, not dependent on prescribed medicines.
Whiteside 2018 <sup>478</sup>	Incorrect study design: secondary analysis of quantitative measures
Wilder 2016 <sup>479</sup>	Analysis does not meet protocol: quantitative analysis
Wilkinson 2016 <sup>481</sup>	Incorrect study design: article, includes presentation of individual cases but no qualitative analysis
Willcox 1994 <sup>482</sup>	Incorrect study design: quantitatively analysed survey
Williams 1999 <sup>483</sup>	Incorrect study design: quantitative survey
Williams 2018 <sup>484</sup>	Incorrect study design: quantitative survey
Wilson 2018 <sup>486</sup>	Incorrect study design: quantitative survey
Winstock 2009 <sup>488</sup>	Quantitative survey
Wolfe 2008 <sup>490</sup>	Incorrect study design: quantitative survey
Wolf 2011 <sup>489</sup>	Analysis did not meet protocol: quantitative
Wood 2019 <sup>491</sup>	No relevant themes: majority were most likely illicit drug users
Wyse 2019 <sup>493</sup>	No relevant themes
Yadav 2019 <sup>494</sup>	Population does not meet protocol: pharmacist views for opioid substitution of non-prescribed opioids
Yarborough 2016 <sup>495</sup>	Population does not meet protocol: mixed population of people with illicit and prescribed drug use with data not analysed separately and not being possible to separate out information reported by people with illicit or prescribed drug use
Yedinak 2016 <sup>496</sup>	Incorrect population: non-medical use of prescription opioids
Yeo 1994 <sup>497</sup>	Analysis does not meet protocol: views of GPs following interview briefly presented but no evidence of qualitative analysis
Yildirim 2014 <sup>498</sup>	Incorrect study design: Article
Yorkgitis 2019 <sup>499</sup>	Incorrect study design: closed-question survey; quantitative analysis
Yoshida 2006 <sup>500</sup>	Incorrect study design: review of drug product information; no qualitative data
Young 1997 <sup>502</sup>	Incorrect study design: quantitative survey
Young 2005 <sup>504</sup>	Population does not meet protocol: not specifically linked to any of the drugs included in the review protocol.
Young 2006 <sup>508</sup>	Incorrect study design: Results of three quantitative studies
Young 2009 <sup>503</sup>	Incorrect study design: intervention study; quantitative measures
Young 2012 <sup>501</sup>	Incorrect study design: quantitative survey
Young 2017 <sup>506</sup>	Incorrect study design: longitudinal study with quantitative measures
Young 2017 <sup>505</sup>	Incorrect study design: quantitative survey
Yuanhong Lai 2019 <sup>509</sup>	No relevant themes
Zerzan 2011 <sup>510</sup>	Population did not meet protocol" physicians prescribing for end-of-life care
Zgierska 2012 <sup>511</sup>	No relevant themes
Zgierska 2014 <sup>512</sup>	No relevant themes
Zhang 2018 <sup>513</sup>	Incorrect study design: quantitative measures; relevant to non-prescribed opioids
Zhou 2017 <sup>514</sup>	Incorrect population: illicit drug use; quantitative measures

**Table 55:** Studies identified but not included in the qualitative review due to saturation being reached

Reference
Anthierens 2007 <sup>31</sup>
Barry 2010 <sup>46</sup>
Bergman 2013 <sup>55</sup>
Blake 2007 <sup>60</sup>
Cartwright 2018 <sup>78</sup>
Cook 2007 <sup>91</sup>
Cook 2007 <sup>92</sup>
Esquibel 2014 <sup>118</sup>
Garfield 2003 <sup>137</sup>
Giannitrapani 2018 <sup>138</sup>
Goberman-Hill 2011 <sup>143</sup>
Guillaumie 2018 <sup>153</sup>
Haslam 2004 <sup>159</sup>
Huijbers 2020 <sup>166</sup>
Hurstak 2017 <sup>167</sup>
Kesten 2020 <sup>200</sup>
Krawczyk 2018 <sup>212</sup>
Langford 2021 <sup>218</sup>
Magee 2021 <sup>234</sup>
McMullen 2009 <sup>252</sup>
O'Mullan 2015 <sup>288</sup>
Ostrach 2019 <sup>300</sup>
Park 2013 <sup>312</sup>
Price 2009 <sup>339</sup>
Read 2020 <sup>355</sup>
Rutkow 2017 <sup>373</sup>
Satterwhite 2019 <sup>387</sup>
Seamark 2013 <sup>391</sup>
Simmonds 2015 <sup>393</sup>
Slingsby 2007 <sup>400</sup>
Spitz 2011 <sup>401</sup>
Thakur 2020 <sup>413</sup>
Turner 2008 <sup>433</sup>
Van Hout 2017 <sup>448</sup>
Van Hout 2018 <sup>447</sup>
Vallerand 2009 <sup>442</sup>
Vargas 2015 <sup>450</sup>
Voon 2018 <sup>460</sup>
Weiss 2001 <sup>469</sup>
Wiles 2018 <sup>480</sup>
Wilson 2020 <sup>485</sup>