**Supplementary data**

**Supplementary Figure 1:** Flow-diagram of inclusion and exclusion process of selected articles

PubMed hits: 5612

Pre-selected articles: 52

Selected articles: 24

Excluded articles: 28

Headlines and abstracts read by AF and BC

**Supplementary Table 1: List of excluded studies**

|  |  |  |
| --- | --- | --- |
| **Reason for exclusion** | **Author, year** | **Journal** |
| **Duplicate sample set** | Dyrbye et al., 2010 | Medical Education |
| Dyrbye et al., 2011 | Medical teacher |
| Dyrbye et al., 2012 | Academic Medicine |
| Dyrbye et al., 2016 | Academic Medicine |
| Jackson et al., 2016 | Academic Medicine, |
| Reed et al., 2011 | Academic Medicine, |
| West et al., 2015 | J Gen Intern Med |
| **No information about prevalence** | Arbabisarjou et al., 2016  | Global Journal of Health Science |
| Backović et al., 2012  | Psychiatria Danubina |
| Brazeau et al., 2010  | Academic Medicine, |
| Bughi et al., 2017  | Education for Health |
| Chang et al., 2012  | Academic Psychiatry |
| Dahlin et al., 2012  | BMC Medical Education |
| Fang et al., 2012  | Academic Psychiatry |
| Goel et al., 2016  | J Neurosci Rural Pract |
| Győrffy et al., 2016  | BMC Medical Education |
| Ilic et al., 2016  | Behavioral Medicine |
| Lin et al., 2016  | BMC Medical Education |
| Lin et Lin, 2016  | BMC Medical Education |
| Pagnin et al., 2013 | Medical Teacher |
| Pagnin et al., 2014 | Academic Psychiatry |
| Pagnin et al., 2015 | SpringerPlus |
| Prinz et al., 2012  | GMS Z Med Ausbild |
| Santen et al., 2010  | Southern Medical Journal |
| Seo et al., 2015  | Psychiatry Investigation |
| Shad et al., 2015  | Cureus |
| Villwock et al., 2017  | International Journal of Medical Education |
| Von Harsher et al., 2015 | Psychology, Health & Medicine |

**Supplementary Figure 2:** Meta-analysis of burnout symptoms

a: Emotional exhaustion



b: depersonalization



c: personal accomplishment

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**Supplementary Figure 3:** Leave-one-out analysis

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**Supplementary Figure 4:** Funnel plot



The studies were plotted after a logit transformation of their proportions. The red-boxed area corresponds to the 2016 study by Asencio-Lopez et al.46. This study diverges from the other studies with a prevalence estimated to be 100%. It was excluded from further analyses (subgroup meta-analysis and meta-regression).

**Supplementary Figure 5:** Subgroup meta-analysis based on assessment scale

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**Supplementary Figure 6:** Meta-regression analysis of the year of publication

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**Supplementary Figure 7:** Meta-regression analysis of the response rate (number of participants divided by number of solicited individuals)

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