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| Supplementary Table 1. Burnout questionnaires used in the included studies. |
| **Burnout questionnaire** | **Items/ dimensions/scores** | **Burnout criteria** |
| **MBI**Maslach Burnout Inventory (Maslach, Jackson, and Leiter, 1996). *Mion et al., (2021),*30 *Appiani et al.,(2021),*43 *Elghazally et al.,(2021),*38 *Bahadirli and Sagaltici, (2021).*40 | 22 items and three dimensions:-emotional exhaustion (MBI-EE, 9 items) -depersonalization (MBI-DP, 5 items)-personal accomplishment (MBI-PA, 8 items)7-items Likert scale (0=never to 6=daily) | Burnout is defined when one /three criteria:-High-EE (≥27 points), and/or-High-DP (≥10), and/or-Low-PA score (≤33) |
| **MBI-HSS** Maslach Burnout Inventory-Health Survey (Maslach and Jackson, 1981) (Dion and Tessier, 1994). *Treluyer and Tourneux, (2020).*31 | 22 items and three dimensions-emotional exhaustion (MBI-EE, 9 items) -depersonalization (MBI-DP, 5 items)-personal accomplishment (MBI-PA, 8 items)7-items Likert scale (0=never to 6=daily) | Burnout is defined when -High-EE (≥30 points), and/or -High-DP (≥12), regardless of Low-PA-Low-PA score (≤33) (Schaufeli et al., 2019; Dyrbye et al., 2009)Valid tool in caregiver population |
| **MBI-HSS MP**Maslach Burnout Inventory-Health Survey for Medical Personnel (Maslach et al., 2018). *Alkhamees et al.,(2020),*36 *and Farsi et al.,(2020).*37 | 22 items and three dimensions-emotional exhaustion (MBI-EE, 9 items) -depersonalization (MBI-DP, 5 items)-personal accomplishment (MBI-PA, 8 items) and five profiles (P)7-items Likert scale (0=never to 6=daily) | -High-EE, High-DP, Low-PA: Burnout P-Low/Mod-EE, High-DP, Low/Mod-PA: Disengaged P-High-EE,Low/Mod-DP,Low/Mod-PA: Overextended P-Low/Mod-EE, Low/Mod-DP, Low-PA: Ineffective P-Low-EE, Low-DP, and High-PA: Engaged P(Leiter and Maslach, 2016)  |
| ***d*MBI** Maslach Burnout Inventory (dichotomized)*Osama et al., (2020).*41 | 22 items, three dimensions:-emotional exhaustion (MBI-EE) -depersonalization (MBI-DP)-personal accomplishment (MBI-PA) Each item (yes=1 point and non=0 points) | Burnout is assessed as mean (SD) of total score. (calculated by simple addition) and each dimension) |
| **MBI-GS** Maslach Burnout Inventory-General Survey (Shaufeli et al., 1996). *Lasalvia et al., (2021).*33 | 16 items and three subscales:-emotional exhaustion (MBI-EE, 5-items)-cynicism (CY(MBI-DP), 5-items)-professional efficacy (MBI-PE, 6-items)7-point Likert scale (0=never to 6=always) | Burnout is defined if -High MBI-EE>2.20-High MBI-CY>2 and-Low MBI-PE<3.66 Valid tool for multiple cultural settings &occupations (Leiter andSchaufeli, 1996; O´Connor et al., 2002; Rotenstein et al., 2018) |
|  ***a*MBI**Maslach Burnourt Inventory adapted-1. *Coleman et al.,(2021),*28 *and Khalafallah et al.,* *(2020).*25 | Nine-item questionnaire and 3 dimensions-emotional exhaustion (MBI-EE, 3 items)-depersonalization (MBI-DP, 3 items) -personal accomplishment (MBI-PA, 3 items). 7-point Likert scale, and the total score (0-18) | Burnout is defined if -High MBI-EE (≥13) or high MBI-DP (≥13)Validated tool against MBI  |
| ***aa*MBI**Two single items derived from aMBI (West et al., 2009). *Aebisher et al.,(2020),*32 *Cravero et al.,(2020),*44*Al-Humadi et al.,(2021),*45 *Aziz et al.,(2021).*29*\** | Two-items and two dimensions: -emotional exhaustion (MBI-EE)-depersonalization (MBI-DP)7-point Likert scale (0=never to 6=daily)\* One-single question from MBI | Burnout is defined if-High MBI-EE (≥2) or-High MBI-DP (≥2)Validated tool against MBI (West et al., 2009;Dyrbye et al., 2014)\* |
| **Mini-Z Burnout assessment**(Rohland et al., 2004). *Civantos et al.,(2020),*27 *and Kaplan et al.,(2021)*.26 | A single-item measure(range 1-5) | Burnout is defined as score ≥3 Validated tool against MBI.  |
| **Self-reported burnout** (Dolan et al., 2015). *Chow et al., (2020).*23 | A single-item measure:*based on your definition of burnout, how would you rate your level of burnout*? (1=No symptoms to 5=completely burned) | This item is dichotomized as ≤2 (no symptoms of burnout) vs. ≥3 (1 or more symptoms)Validated tool against MBI-EE (Dolan et al., 2015) |
| **SMDM** Shirom-Melamet Burnout Measure (Shirom and Melamed, 2006). *Chow et al., (2020).*23 | 14 items and three dimensions:-emotional exhaustion (EE)-cognitive weariness (CW)-physical fatigue (PF) | A SMDM index ≥4.40 suggest clinically relevant burnout (Shilling et al., 2019) |
| **PFI**Stanford Professional Fulfilment Index (Tronkel et al., 2018). *Kannampallil et al., (2020).*24 | A 16-items and three subscales: -workload exhaustion (WE) -depersonalization (DP) -professional fulfilment (PF)Score range for each subscales (0-4) | Burnout was determined from the average item score of WE and DP scales). Scores≥1.33 was considered burnout (Tronkel et al., 2018)The burnout components of PFI (WE and DP) correlate with those of MBI  |
| **ProQOL**The Professional Quality of Life measure (Stamm BH, 2012).*Khoodoruth et al., (2021).*39 | Three dimensions: -professional satisfaction (PS)-burnout (B)-frightening experience at work (FEW) | The scores of the three categories:-PS= <23 = poor level)-Burnout = >41 higher risk score of burnout-FEW= >43:higher risk score of FEW |
| **CBI**The Copenhagen Burnout Inventory (Kristensen et al., 2005). *Degraeve et al.,(2020).*34 | 19 questions and three dimensions: -personal exhaustion (CBIP)-professional exhaustion (CBIPro)-relationship exhaustion (CBIR) | The scores allow three categories: -No worry (CBIP/R=0-13, CBIPro=0-15) -Alertness (CBIP/R=14-17, CBIPro=16-19)-Significant worrying (CBIP/R>17, CBIPro>19) |
| **OLBI**The Odenburgh Burnout Inventory(Demerouti & Bakker, 2008)*Mendoca et al.,(2021).*42 | 16 items: 8 of exhaustion [2(R), 5, 8(R), 10, 12(R),14,16]; and 8 of disengagement [1, 3 (R), 6(R),7, 9(R), 11(R),13,15]. (R): reversed items4-point Likert scale (1=strongly agree to4=strongly disagree).  | Low, medium, or high OLBI scores, based on scores below 1 SD of the mean (M=2.15, SD=0.52) -Low= ≤1.62-Medium= 1.63-2.67-High= ≥2.68 |
| **UBS**Utrecht Burnout Scale (Schaufeli & van Dierendoch, 2000)*Poelmann et al.,(2021).*35 | 20 items and three subscales:-emotional exhaustion (EE) (8 items)-depersonalization (DP) (5 items)-personal accomplishment (PA) (7 items)7-point Likert scale (0=never to 6=daily) | Higher scores on EE and DP and lower PAindicate burnoutValidated tool derived from MBI (Schaufeli & van Dierendoch, 2000) |