**Table S1**. Quality assessment of included studies for evaluation of risk of bias

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| score | Are all important confounding factors/subgroups/differences identified and accounted for? | Was there appropriate statistical analysis? | Was the condition measured reliably? | Were valid methods used for the identification of the condition? | Was the data analysis conducted with sufficient coverage of the identified sample? | Were the study subjects and the setting described in detail? | Was the sample size adequate? | Were study participants recruited in an appropriate way? | Was the sample representative of the target population? | First author/year |
| 4 | N | N | U | Y | N | Y | N | Y | Y | Ahmad et al, 2020 |
| 4 | N | Y | N | Y | N | Y | N | N | Y | Alvarado-Esquivel et al, 2015 |
| 2 | N | N | U | Y | N | N | Y | N | N | Ardelean et al, 2005 |
| 8 | Y | Y | U | Y | Y | Y | Y | Y | Y | G/selasie et al, 2013 |
| 7 | Y | Y | U | Y | N | Y | Y | Y | Y | Awoke et al, 2011 |
| 3 | U | Y | U | Y | U | N | N | N | Y | Azian et al, 2008 |
| 1 | N | N | U | Y | N | N | N | N | N | Beknazarova et al, 2019 |
| 5 | N | Y | U | Y | N | Y | Y | N | Y | Campos et al, 2016  |
| 3 | N | N | U | Y | U | Y | N | N | Y | Paradies et al, 2017 |
| 2 | N | N | U | Y | N | N | N | N | Y | Eydal&Skírnisson, 2016 |
| 3 | N | N | U | Y | N | Y | N | N | Y | Fang et al, 2015 |
| 4 | N | Y | U | Y | N | Y | N | N | Y | Ferreira Ju´nioret al, 2006 |
| 4 | N | Y | U | Y | N | Y | N | N | Y | Ferreira Ju´nioret al, 2006 |
| 5 | N | Y | U | Y | N | Y | Y | N | Y | Gonc¸alves et al, 2007 |
| 5 | N | Y | U | Y | N | Y | Y | N | Y | Gonc¸alves et al, 2007 |
| 4 | N | Y | U | Y | N | N | Y | N | Y | Harvey et al, 2020 |
| 2 | N | Y | U | Y | N | N | N | N | N | Hernández-Camachoet al, 20114 |
| 3 | N | Y | U | Y | N | N | N | N | Y | Iatta et al, 2019 |
| 3 | N | Y | U | Y | N | N | N | N | Y | Iatta et al, 2019 |
| 3 | N | Y | U | Y | N | N | N | N | Y | Iatta et al, 2019 |
| 1 | U | N | U | Y | U | N | N | N | N | Jaleta et al, 2017 |
| 4 | U | Y | U | Y | N | N | Y | N | Y | Jaskoski et al, 1971 |
| 3 | U | Y | U | Y |  n | N | N | N | Y |  Kidimaet al, 2019 |
| 7 | U | Y | U | Y | Y | Y | Y | Y | Y | Kostopoulou et al, 2017 |
| 3 | N | Y | U | Y | U | N | N | N | Y | Mandarino-Pereira et al, 2010 |
| 6 | N | Y | N | Y | Y | Y | Y | N | Y | Martinset al, 2012 |
| 2 | N | N | N | Y | N | N | N | N | Y | Meloni .et al, 1993 |
| 6 | U | Y | U | Y | U | Y | Y | Y | Y | Merga et al, 2013 |
| 5 | U | Y | U | Y | Y | Y | N | N | Y | Mircean et al, 2011 |
| 6 | U | Y | U | Y | Y | Y | Y | N | Y | Mulugeta , 2013 |
| 5 | U | Y | U | Y | N | Y | N | Y | Y | Natalini et al, 2020 |
| 1 | U | N | U | Y | N | N | U | N | N | O’Connell et al, 2019 |
| 5 | N | Y | N | Y | N | Y | U | Y | Y | Opazo et al, 2019 |
| 6 | N | Y | N | Y | N | Y | Y | Y | Y | Ortuño et al, 2011 |
| 3 | N | Y | N | Y | N | N | N | N | Y | Ortuño et al, 2014 |
| 4 | N | Y | N | Y | N | Y | N | N | Y | Papazahariadou et al, 2007 |
| 2 | N | Y | N | Y | N | N | N | N | N | Paradies et al, 2019 |
| 3 | N | N | N | Y | N | N | Y | N | Y | Perera et al, 2013 |
| 3 | N | N | N | Y | N | Y | N | N | Y | Pumidonminget al, 2016 |
| 3 | N | Y | N | Y | N | N | N | N | Y | Pumipuntu et al, 2018 |
| 3 | N | Y | N | Y | N | N | N | N | Y | Regidor-Cerrillo et al, 2020 |
| 4 | N | Y | U | Y | N | N | N | Y | Y | Riggio et al, 2013 |
| 2 | N | N | N | Y | N | N | N | N | Y | Robinson,et al, 1989 |
| 4 | N | Y | N | Y | N | Y | N | N | Y | Sanchez-Thevenet et al, 2019 |
| 4 | N | Y | N | Y | N | Y | N | N | Y | Sanchez-Thevenet et al, 2019 |
| 2 | N | N | U | Y | N | N | N | N | Y | Sanpool et al, 2019 |
| 6 | N | Y | N | Y | N | Y | Y | Y | Y | Sauda et al, 2018 |
| 4 | N | Y | U | Y | N | Y | N | Y | N | Schär et al, 2014 |
| 2 | N | Y | U | Y | N | N | N | N | N | Silva et al, 2020 |
| 2 | N | N | U | Y | N | N | N | N | Y | Štrkolcová et al, 2017 |
| 2 | N | N | U | Y | N | N | N | N | Y | Štrkolcová et al, 2017 |
| 4 | N | Y | U | Y | N | Y | N | N | Y | Takano et al, 2009 |
| 5 | N | Y | U | Y | N | Y | N | Y | Y | Tamponi et al, 2020 |
| 2 | n | y | u | y | n | n | n | n | n | Tull et al, 2020 |
| 4 | n | y | n | y | n | n | n | y | y | Utaaker et al, 2018 |
| 4 | n | y | n | y | n | y | n | n | y | Wright et al, 2016 |
| 3 | n | y | n | y | n | n | n | n | y | Zanzani et al, 2014 |