Supplementary Table 1. Quality Assessment of Included Studies (JBI Cross-Sectional Studies Checklist)

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| **Studies** | **Clear Inclusion Criteria** | **Detailed Setting Description** | **Valid / Reliable Exposure** | **Objective/**  **Standard Measurement Criteria** | **Confounding Factor Identification** | **Dealing strategies for confounding factors** | **Valid Reliable Outcome Measurement** | **Appropriate Statistical Analysis** | **Quality score** |
| Akerele, J., et al. (2002) | yes | yes | Yes | yes | no | no | yes | No | 5/8 |
| Abdelaziz, Z. A., et al.,2014 | yes | yes | Yes | yes | no | no | yes | Yes | 6/8 |
| Asmah, R. H., et al.,2017 | yes | yes | Yes | yes | unclear | no | yes | Yes | 6/8 |
| Sangaré, I., et al., 2018 | yes | yes | Yes | yes | yes | no | yes | Yes | 7/8 |
| Mushi, M. F., et al., 2019 | yes | yes | Yes | yes | yes | yes | yes | Yes | 8/8 |
| Tsega, A. and F. Mekonnen, 2019 | yes | yes | Yes | yes | yes | yes | yes | Yes | 8/8 |
| Waikhom, S. D., et al., 2020 | yes | yes | Yes | yes | yes | yes | yes | Yes | 8/8 |
| Sule-Odu, A. O., et al., 2020 | yes | yes | Yes | yes | yes | yes | yes | Yes | 8/8 |
| Shawaky, S. M., et al., 2022 | yes | yes | Yes | yes | yes | yes | yes | Yes | 8/8 |
| Cotch, M. F., et al., 1998 | yes | yes | Yes | yes | no | no | yes | Yes | 6/8 |
| Caramalac, D. A., et al. 2007 | yes | yes | Yes | yes | no | no | yes | Yes | 5/8 |
| Dias, L. B., et al. 2011 | yes | yes | Yes | yes | no | no | yes | No | 5/8 |
| Mucci, M. J., et al., 2016 | yes | yes | Yes | yes | yes | yes | yes | Yes | 8/8 |
| Akpaka, P. E., et al., 2022 | yes | yes | Yes | yes | yes | yes | yes | Yes | 8/8 |
| Abu-Elteen, K. H., 1997 | yes | yes | Yes | yes | unclear | unclear | yes | No | 5/8 |
| Qi, W. J. and Y. F. Shi, 2006 | yes | yes | Yes | yes | unclear | unclear | yes | Yes | 6/8 |
| Guzel, A. B., et al., 2011 | yes | yes | Yes | yes | yes | yes | yes | Yes | 8/8 |
| Kalkanci, A., et al., 2012 | yes | yes | Yes | yes | no | no | yes | Yes | 6/8 |
| Faidah, H. S., 2013 | yes | yes | Yes | yes | unclear | unclear | yes | No | 5/8 |
| Lakshmi, S. J., et al., 2015 | yes | yes | Yes | yes | yes | no | yes | No | 6/8 |
| Masri, S. N., et al., 2015 | yes | yes | Yes | yes | yes | yes | yes | Yes | 8/8 |
| Yang, L., et al.,2016 | yes | yes | Yes | yes | yes | no | yes | No | 6/8 |
| Zhai, Y., et al., 2018 | yes | yes | Yes | yes | no | no | yes | Yes | 6/8 |
| Khan, M., et al., 2018 | yes | yes | Yes | yes | unclear | no | yes | No | 5/8 |
| Kiasat, N., et al., 2019 | yes | yes | Yes | yes | unclear | no | yes | Yes | 6/8 |
| Ghaddar, N., et al., 2019 | yes | yes | Yes | yes | yes | yes | yes | Yes | 8/8 |
| Ghaddar, N., et al., 2020 | yes | yes | Yes | yes | yes | yes | yes | Yes | 8/8 |
| Abu-Lubad, M.A., et al.,2021 | yes | yes | Yes | yes | no | no | yes | Yes | 6/8 |
| Hizkiyahu, R., et al., 2022 | yes | yes | Yes | yes | yes | yes | yes | Yes | 8/8 |
| Yadav, L. K. and R. Yadav, 2023 | yes | yes | Yes | yes | unclear | no | yes | No | 5/8 |
| Payne, M. S., et al., 2016 | yes | yes | Yes | yes | yes | yes | yes | Yes | 8/8 |
| Arena, B. and M. D. Daccò, 2021 | yes | yes | Yes | yes | no | no | yes | No | 5/8 |
| Holzer, I., et al., 2017 | yes | yes | Yes | yes | yes | unclear | yes | Yes | 7/8 |
| Babic, M. and M. Hukic, 2010 | yes | yes | Yes | yes | no | no | yes | Yes | 5/8 |
| Zisova, L. G., et al., 2016 | yes | yes | Yes | yes | unclear | no | yes | Yes | 6/8 |
| Nowakowska, D., et al., 2004 | yes | yes | Yes | yes | yes | yes | yes | Yes | 8/8 |