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| ST1 Table of study characteristics for cross-sectional studies |
| # | Study | Year | Premenopausal age mean (SD) | Postmenopausal age mean (SD) | Measurement Method |
| HDL |  TG |  TC | LDL | TC:HDL |
| 1 | Abate et al. | 2014 | 46.7 | (1.9) | 52.7 | (3.4) | \* | \* | \* | - | - |
| 2 | Abdulnour et al. | 2012 | 52.3 | (0.5) | 54.4 | (2) | \* | \* | \* | \* | \* |
| 3 | Abildgaard et al. | 2013 | 49.6 | (1.8) | 52 | (2) | \* | \* | \* | \* | - |
| 4 | Agrinier et al. | 2010 | 42.8 | (4.4) | 57.4 | (5.4) | \* | \* | \* | \* | - |
| 5 | Amiri et al. | 2014 | 36.8 | (11.52) | 59 | (7.48) | \* | \* | \* | \* | - |
| 6 | Arthur et al. | 2013 | 34.48 | (8.85) | 57.25 | (8.28) | \* | \* | \* | \* | - |
| 7 | Bell et al. | 2007 | 38.9 | (7.9) | 62.8 | (8.3) | \* | \* | - | \* | - |
| 8 | Ben-Ali et al. | 2016 | 39.48 | (7.79) | 57.87 | (7.65) | \* | \* | \* | \* | - |
| 9 | Ben-Ali et al. | 2014 | 42.9 | (5) | 57.5 | (7.3) | - | \* | \* | - | - |
| 10 | Ben-Ali et al. | 2011 | 35.3 | (7.6) | 53.4 | (6.2) | \* | \* | \* | \* | - |
| 11 | Berg et al. | 2004 | 36.9 | (4.1) | 57 | (5.3) | \* | \* | \* | \* | \* |
| 12 | Berge et al. | 1994 | 38.9 | (7.2) | 55.3 | (6.1) | \* | \* | \* | \* | - |
| 13 | Bonithon-Kopp et al. | 1990 | 47.8 | (2.2) | 52.3 | (1.8) | \* | \* | \* | \* | - |
| 14 | Carr et al. | 2000 | 35.4 | (8.6) | 61 | (4.1) | \* | \* | \* | \* | - |
| 15 | Chang et al. | 2000 | 36.1 | (6.5) | 61.2 | (6.2) | \* | - | \* | \* | \* |
| 16 | Cho et al. | 2008 | 40.5 | (7.8) | 59 | (6.6) | \* | \* | \* | \* | - |
| 17 | Dallongeville et al. | 1995 | 48.3 | (3.4) | 57.4 | (3.9) | - | \* | \* | - | - |
| 18 | Davis et al. | 1994 | 48.1 | (1.7) | 50.2 | (1.7) | \* | \* | \* | \* | - |
| 19 | De Kat et al. | 2017 | 36.9 | (8.1) | 55.3 | (7.4) | \* | - | \* | \* | - |
| 20 | Feng et al. | 2008 | 43.7 | (3) | 51 | (2.6) | \* | - | \* | \* | - |
| 21 | Ghosh et al. | 2008 | 40.2 | (6.5) | 55.4 | (5.2) | \* | \* | \* | \* | - |
| 22 | Gurka et al. | 2016 | 47.6 | (3.4) | 54.3 | (3.6) | \* | \* | - | - | - |
| 23 | Gurka et al. | 2016 | 47.4 | (2.1) | 53.1 | (4.1) | \* | \* | - | - | - |
| 24 | Hagner et al. | 2009 | 36.5 | (5.17) | 62.5 | (5.43) | \* | - | - | \* | - |
| 25 | He et al. | 2012 | 45.8 | (3.6) | 54 | (3.6) | \* | \* | \* | \* | - |
| 26 | Hunter et al. | 1996 | 36.2 | (9) | 51.5 | (10.2) | \* | \* | \* | \* | \* |
| 27 | Iida et al. | 2011 | 47.6 | (3.8) | 61.3 | (6.6) | \* | - | - | \* | - |
| 28 | Jeenduang et al. | 2014 | 42.58 | (6.62) | 58.17 | (9.65) | \* | \* | \* | \* | \* |
| 29 | Jeon et al. | 2011 | 49.3 | (8.5) | 51.2 | (9) | \* | \* | \* | \* | - |
| 30 | Kadam et al. | 2010 | 45.6 | (4.8) | 54 | (7.1) | - | \* | \* | - | - |
| 31 | Kim et al. | 2007 | 35.4 | (8.1) | 65.1 | (9.3) | \* | \* | \* | \* | - |
| 32 | Kim et al. | 2012 | 50.7 | (2.8) | 65 | (7.4) | \* | \* | \* | \* | - |
| 33 | Kim et al. | 2013 | 42.12 | (6.22) | 56.48 | (6.55) | \* | \* | \* | \* | - |
| 34 | Konrad et al. | 2011 | 43 | (5) | 53 | (4) | \* | \* | \* | \* | - |
| 35 | Konukoglu et al. | 2000 | 35.4 | (8.3) | 49.5 | (4.7) | - | \* | \* | - | - |
| 36 | Kotani et al. | 2011 | 44.7 | (4.9) | 64.6 | (4.4) | \* | - | \* | - | - |
| 37 | Lejskova et al. | 2012 | 48.6 | (2.4) | 52.2 | (2) | \* | \* | \* | \* | \* |
| 38 | Lin et al. | 2006 | 46 | (3.6) | 53.1 | (4.4) | \* | \* | \* | \* | \* |
| 39 | Lindquist et al. | 1980 | 50 | (NA) | 50 | (NA) | - | \* | \* | - | - |
| 40 | Lyu et al. | 2001 | 45.1 | (3.4) | 53.4 | (5) | \* | \* | \* | \* | - |
| 41 | Maharlouei et al. | 2013 | 46.5 | (5) | 58.6 | (6.7) | \* | \* | \* | \* | - |
| 42 | Matsushita et al. | 2003 | 43 | (6.3) | 62.4 | (7.9) | \* | \* | \* | \* | - |
| 43 | Matthews et al. | 1989 | 47.3 | (1.5) | 47.8 | (1.6) | \* | \* | \* | \* | - |
| 44 | Mesch et al. | 2006 | 33 | (5.6) | 55 | (5.6) | \* | \* | - | \* | - |
| 45 | Muchanga et al. | 2014 | 44 | (3) | 53 | (4) | \* | \* | \* | \* | - |
| 46 | Noh et al. | 2013 | 46.92 | (4.7) | 59.34 | (5.82) | \* | \* | - | - | - |
| 47 | Pavlica et al. | 2013 | 38.87 | (9.81) | 58.42 | (1.01) | - | \* | \* | - | - |
| 48 | Phillips et al. | 2008 | 32.9 | (9.14) | 61.4 | (10.73) | \* | \* | \* | - | \* |
| 49 | Polesel et al. | 2015 | 34.83 | (8.4) | 52.63 | (5.72) | \* | \* | \* | \* | - |
| 50 | Priya et al. | 2013 | 38.65 | (6.21) | 55.32 | (6.32) | \* | \* | \* | \* | \* |
| 51 | Sarrafzadegan et al. | 2013 | 32.15 | (9.22) | 59.8 | (10.39) | \* | \* | \* | \* | - |
| 52 | Shakir et al. | 2004 | 53.2 | (1.6) | 56.9 | (2.9) | \* | - | \* | \* | - |
| 53 | Shibata et al. | 1979 | 46.9 | (1.4) | 47.4 | (1.4) | - | \* | \* | - | - |
| 54 | Sieminska et al. | 2006 | 28.2 | (4.1) | 53.9 | (3.2) | \* | \* | - | - | - |
| 55 | Skrzypczak et al. | 2005 | 43.66 | (4.07) | 56.01 | (7.08) | - | - | \* | - | - |
| 56 | Soderberg et al. | 2002 | 37.9 | (7.9) | 60.7 | (6.1) | \* | \* | \* | - | - |
| 57 | Son et al. | 2015 | 46.8 | (2.5) | 52.2 | (3.1) | \* | \* | - | \* | - |
| 58 | Soriguer et al. | 2009 | 36.9 | (7.5) | 64.1 | (5.2) | \* | \* | - | \* | - |
| 59 | Suliga et al. | 2016 | 49.7 | (3.1) | 55.2 | (3) | \* | \* | \* | \* | - |
| 60 | Torng et al. | 2000 | 42.7 | (5.8) | 61.2 | (9.5) | \* | \* | \* | \* | \* |
| 61 | Veldhuis et al. | 2016 | 34 | (9.3) | 64 | (8.52) | \* | \* | \* | \* | - |
| 62 | Wing et al. | 1991 | NA | (NA) | NA | (NA) | \* | \* | \* | \* | - |
| 63 | Yamatani et al. | 2013 | 42.6 | (7.35) | 60.6 | (7.5) | \* | \* | \* | - | - |
| 64 | Yoldemir et al. | 2012 | 45.27 | (2.93) | 57.02 | (6.15) | \* | \* | \* | \* | - |
| 65 | Yoo et al. | 2012 | 34.2 | (9.7) | 61.1 | (7.7) | \* | - | \* | \* | - |
| 66 | Zhou et al. | 2015 | 44.1 | (4.8) | 60 | (7.8) | \* | \* | \* | \* | - |
| 67 | Zivkovic et al. | 2011 | 37 | (5.3) | 54 | (4.5) | \* | \* | - | - | - |
| Abbreviations: HDL, high-density lipoprotein; TG, triglyceride; TC, total cholesterol; LDL, low-density lipoprotein; TC:HDL, total cholesterol to high-density lipoprotein ratio.Note: \* indicates inclusion of measure. |