

**S3 Table.** Study-level assessment of precision and risk of bias in HCV antibody prevalence measures, as extracted from eligible reports.

| Author, Year        | Study period | Prevalence (%) | Samples tested for HCV | Sampling      | Precision      | Risk of bias      |          |               |
|---------------------|--------------|----------------|------------------------|---------------|----------------|-------------------|----------|---------------|
|                     |              |                |                        |               |                | HCV ascertainment | Sampling | Response rate |
| <b>Djibouti</b>     |              |                |                        |               |                |                   |          |               |
| Dray,2005 [1]       | 1998-2000    | 0.3            | 8,057                  | Convenience   | Good precision | Low ROB           | High ROB | Low ROB       |
| <b>Somalia</b>      |              |                |                        |               |                |                   |          |               |
| Nur, 2000 [2]       | 1995         | 2.4            | 42                     | Convenience   | Low precision  | Low ROB           | High ROB | High ROB      |
| Watts, 1994 [3]     | 1990         | 2.3            | 43                     | Convenience   | Low precision  | Low ROB           | High ROB | Unclear       |
| Nur, 2000 [2]       | 1995         | 7              | 57                     | Convenience   | Low precision  | Low ROB           | High ROB | Unclear       |
| Bile, 1993 [4]      | 1989         | 40.3           | 62                     | Convenience   | Low precision  | Low ROB           | High ROB | Unclear       |
| Bile, 1993 [4]      | 1989-1989    | 6.5            | 62                     | Convenience   | Low precision  | Low ROB           | High ROB | Unclear       |
| Bile, 1993 [4]      | 1987         | 0              | 76                     | Convenience   | Low precision  | Low ROB           | High ROB | Low ROB       |
| Watts, 1994 [3]     | 1990         | 1.3            | 79                     | Convenience   | Low precision  | Low ROB           | High ROB | Unclear       |
| Watts, 1994 [3]     | 1990         | 2.5            | 80                     | Convenience   | Low precision  | Low ROB           | High ROB | Unclear       |
| Aceti, 1993 [5]     | 1988-1990    | 14.6           | 110                    | Convenience   | Good precision | Low ROB           | High ROB | Unclear       |
| Nur, 2000 [2]       | 1995         | 0.6            | 157                    | Convenience   | Good precision | Low ROB           | High ROB | Unclear       |
| Aceti, 1993 [5]     | 1988-1990    | 2.2            | 179                    | Convenience   | Good precision | Low ROB           | High ROB | Unclear       |
| Watts, 1994 [3]     | 1990         | 1.7            | 236                    | Convenience   | Good precision | Low ROB           | High ROB | Unclear       |
| Bile, 1992 [6]      | 1987         | 1.1            | 287                    | Convenience   | Good precision | Low ROB           | High ROB | Low ROB       |
| Aceti, 1993 [5]     | 1988-1990    | 0              | 287                    | Convenience   | Good precision | Low ROB           | High ROB | Unclear       |
| Bile, 1992 [6]      | 1987         | 1.9            | 309                    | Convenience   | Good precision | Low ROB           | High ROB | Low ROB       |
| Aceti, 1993 [5]     | 1988-1990    | 1              | 309                    | Convenience   | Good precision | Low ROB           | High ROB | Unclear       |
| EMRO, 2011 [7]      | -            | 0.5            | 12,759                 | -             | Good precision | Low ROB           | Unclear  | Unclear       |
| <b>Sudan</b>        |              |                |                        |               |                |                   |          |               |
| Ahmed, 2008 [8]     | 2007         | 6.3            | 16                     | Convenience   | Low precision  | Low ROB           | High ROB | Unclear       |
| Suliman, 1995 [9]   | 1994         | 5.4            | 37                     | Convenience   | Low precision  | Low ROB           | High ROB | Unclear       |
| Suliman, 1995 [9]   | 1994         | 34.9           | 46                     | Convenience   | Low precision  | Low ROB           | High ROB | Unclear       |
| Gadour, 2011[10]    | 2008         | 13             | 62                     | Simple random | Low precision  | Low ROB           | Low ROB  | Unclear       |
| El-Amine, 2007 [11] | 2005         | 0              | 62                     | Convenience   | Low precision  | Low ROB           | High ROB | Low ROB       |
| Nagi, 2007 [12]     | 2005         | 1.3            | 78                     | Simple random | Low precision  | Low ROB           | Low ROB  | Low ROB       |

|                               |           |      |     |                   |                |         |          |          |
|-------------------------------|-----------|------|-----|-------------------|----------------|---------|----------|----------|
| Mohamedani, 2014 [13]         | -         | 4    | 100 | Convenience       | Good precision | Low ROB | High ROB | Unclear  |
| Mohamedani, 2014 [13]         | -         | 31.1 | 106 | Convenience       | Good precision | Low ROB | High ROB | Unclear  |
| Omer, 2001 [14]               | 1996-1998 | 11   | 115 | Convenience       | Good precision | Low ROB | High ROB | High ROB |
| IBBS National Team, 2013 [15] | 2011-2012 | 1    | 135 | Respondent driven | Good precision | Low ROB | Low ROB  | Low ROB  |
| IBBS National Team, 2013 [15] | 2011-2012 | 5.9  | 172 | Respondent driven | Good precision | Low ROB | Low ROB  | Low ROB  |
| Mudawi, 2007b [16]            | 2001      | 4.5  | 176 | Convenience       | Good precision | Low ROB | High ROB | Unclear  |
| Omer, 2001 [14]               | 1996-1998 | 2    | 199 | Simple random     | Good precision | Low ROB | Low ROB  | Low ROB  |
| Nail, 2008 [17]               | 2007      | 0    | 211 | Convenience       | Good precision | Low ROB | High ROB | High ROB |
| El-Amine, 2007 [11]           | 2005      | 23.7 | 236 | Convenience       | Good precision | Low ROB | High ROB | Unclear  |
| Elfaki, 2008 [18]             | -         | 0    | 260 | Convenience       | Good precision | Low ROB | High ROB | Low ROB  |
| IBBS National Team, 2013 [15] | 2011-2012 | 0    | 288 | Respondent driven | Good precision | Low ROB | Low ROB  | Low ROB  |
| IBBS National Team, 2013 [15] | 2011-2012 | 0    | 291 | Respondent driven | Good precision | Low ROB | Low ROB  | Low ROB  |
| IBBS National Team, 2013 [15] | 2011-2012 | 0    | 292 | Respondent driven | Good precision | Low ROB | Low ROB  | Low ROB  |
| IBBS National Team, 2013 [15] | 2011-2012 | 0    | 296 | Respondent driven | Good precision | Low ROB | Low ROB  | Low ROB  |
| IBBS National Team, 2013 [15] | 2011-2012 | 0    | 296 | Respondent driven | Good precision | Low ROB | Low ROB  | Low ROB  |
| IBBS National Team, 2013 [15] | 2011-2012 | 5.1  | 299 | Respondent driven | Good precision | Low ROB | Low ROB  | Low ROB  |
| IBBS National Team, 2013 [15] | 2011-2012 | 0.6  | 300 | Respondent driven | Good precision | Low ROB | Low ROB  | Low ROB  |
| IBBS National Team, 2013 [15] | 2011-2012 | 0.2  | 303 | Respondent driven | Good precision | Low ROB | Low ROB  | Low ROB  |
| IBBS National Team, 2013 [15] | 2011-2012 | 2.6  | 303 | Respondent driven | Good precision | Low ROB | Low ROB  | Low ROB  |
| IBBS National Team, 2013 [15] | 2011-2012 | 0.5  | 303 | Respondent driven | Good precision | Low ROB | Low ROB  | Low ROB  |
| IBBS National Team, 2013 [15] | 2011-2012 | 0.2  | 304 | Respondent driven | Good precision | Low ROB | Low ROB  | Low ROB  |
| IBBS National Team, 2013 [15] | 2011-2012 | 0.5  | 305 | Respondent driven | Good precision | Low ROB | Low ROB  | Low ROB  |
| IBBS National Team, 2013 [15] | 2011-2012 | 1.5  | 305 | Respondent driven | Good precision | Low ROB | Low ROB  | Low ROB  |
| IBBS National Team, 2013 [15] | 2011-2012 | 0.5  | 305 | Respondent driven | Good precision | Low ROB | Low ROB  | Low ROB  |
| IBBS National Team, 2013 [15] | 2011-2012 | 1.1  | 307 | Respondent driven | Good precision | Low ROB | Low ROB  | Low ROB  |
| IBBS National Team, 2013 [15] | 2011-2012 | 0    | 312 | Respondent driven | Good precision | Low ROB | Low ROB  | Low ROB  |
| Gasim, 2012 [19]              | 2010      | 8.5  | 353 | Convenience       | Good precision | Low ROB | High ROB | Low ROB  |
| Mudawi, 2014 [20]             | 2010-2012 | 1.7  | 358 | Convenience       | Good precision | Low ROB | High ROB | Low ROB  |
| Osman, 2014 [21]              | 2011      | 1.3  | 396 | Convenience       | Good precision | Low ROB | High ROB | Unclear  |

|                     |      |     |     |             |                |         |          |         |
|---------------------|------|-----|-----|-------------|----------------|---------|----------|---------|
| Abou, 2009 [22]     | 2007 | 1   | 400 | Convenience | Good precision | Low ROB | High ROB | Low ROB |
| Mudawi, 2007a [23]  | 2000 | 2.2 | 410 | Convenience | Good precision | Low ROB | High ROB | Low ROB |
| Elsheikh, 2007 [24] | 2006 | 0.6 | 423 | Convenience | Good precision | Low ROB | High ROB | Low ROB |
| McCarthy, 1994 [25] | 1989 | 3   | 666 | Convenience | Good precision | Low ROB | High ROB | Unclear |

### Yemen

|                       |           |      |     |               |                |         |          |         |
|-----------------------|-----------|------|-----|---------------|----------------|---------|----------|---------|
| Haidar, 2002 [26]     | 1997-1999 | 40   | 30  | Convenience   | Low precision  | Low ROB | High ROB | Unclear |
| Selm, 2010 [27]       | 2007      | 62.7 | 51  | Convenience   | Low precision  | Low ROB | High ROB | Low ROB |
| Denis, 1994 [28]      | 1988-1990 | 3.9  | 51  | Convenience   | Low precision  | Low ROB | High ROB | Unclear |
| Al Selwi, 2009 [29]   | 2004-2007 | 37   | 54  | Convenience   | Low precision  | Low ROB | High ROB | Unclear |
| Selm, 2010 [27]       | 2007      | 17.9 | 67  | Convenience   | Low precision  | Low ROB | High ROB | Unclear |
| Salem, 2009 [30]      | 2005-2007 | 10.7 | 75  | Convenience   | Low precision  | Low ROB | High ROB | Low ROB |
| Gunaid, 1997 [31]     | -         | 6.4  | 78  | Convenience   | Low precision  | Low ROB | High ROB | Unclear |
| Saeed, 2012 [32]      | 2008-2010 | 28.4 | 88  | Convenience   | Low precision  | Low ROB | High ROB | Low ROB |
| Sallam, 2003 [33]     | 1999-2002 | 5.1  | 99  | Convenience   | Good precision | Low ROB | High ROB | Low ROB |
| Selm, 2010 [27]       | 2007      | 0.8  | 100 | Convenience   | Good precision | Low ROB | High ROB | Unclear |
| El Guneid, 1993 [34]  | -         | 21.8 | 107 | Convenience   | Good precision | Low ROB | High ROB | Low ROB |
| Salem, 2009 [30]      | 2005-2007 | 17.6 | 117 | Convenience   | Good precision | Low ROB | High ROB | Low ROB |
| Denis, 1994 [28]      | 1988-1990 | 21   | 117 | Convenience   | Good precision | Low ROB | High ROB | Unclear |
| Al-Moslih, 2001 [35]  | -         | 4.2  | 120 | Convenience   | Good precision | Low ROB | High ROB | Unclear |
| Al-Shamiri, 2011 [36] | 2007-2009 | 2.1  | 141 | Simple random | Good precision | Low ROB | Low ROB  | Unclear |
| Gray, 1999 [37]       | 1992      | 1    | 158 | Convenience   | Good precision | Low ROB | High ROB | Unclear |
| Gray, 1999 [37]       | 1992      | 1    | 175 | Convenience   | Good precision | Low ROB | High ROB | Unclear |
| Haidar, 2002 [26]     | 1997-1999 | 0.5  | 200 | Convenience   | Good precision | Low ROB | High ROB | Unclear |
| Aman, 2015 [38]       | 2010-2012 | 40.2 | 219 | Convenience   | Good precision | Low ROB | High ROB | Unclear |
| El Guneid, 1993 [34]  | -         | 3.3  | 243 | Convenience   | Good precision | Low ROB | High ROB | Low ROB |
| Salem, 2012 [39]      | 2001-2008 | 38.2 | 251 | Convenience   | Good precision | Low ROB | High ROB | Low ROB |
| Gray, 1999 [37]       | 1992      | 0    | 253 | Convenience   | Good precision | Low ROB | High ROB | Unclear |
| Al-Moslih, 2001 [35]  | -         | 37.1 | 286 | Convenience   | Good precision | Low ROB | High ROB | Unclear |
| El Guneid, 1993 [34]  | -         | 1    | 294 | Convenience   | Good precision | Low ROB | High ROB | Low ROB |
| Scott, 1992 [40]      | 1988      | 6    | 348 | Convenience   | Good precision | Low ROB | High ROB | Unclear |
| Al Mansoob, 2013 [41] | 2009-2011 | 14.2 | 394 | Convenience   | Good precision | Low ROB | High ROB | Low ROB |
| Murad, 2013 [42]      | 2011      | 8.5  | 400 | Convenience   | Good precision | Low ROB | High ROB | Unclear |
| Bakhubaira, 2009 [43] | 2007-2008 | 8    | 449 | Convenience   | Good precision | Low ROB | High ROB | Unclear |

|                       |           |     |        |               |                |         |          |          |
|-----------------------|-----------|-----|--------|---------------|----------------|---------|----------|----------|
| Al-Waleedi, 2012 [44] | 2007-2008 | 1.3 | 469    | Simple random | Good precision | Low ROB | High ROB | Low ROB  |
| Sallam, 2003 [33]     | 1999-2002 | 0.2 | 493    | Convenience   | Good precision | Low ROB | High ROB | Low ROB  |
| Sallam, 2003 [33]     | 1999-2002 | 0.6 | 494    | Convenience   | Good precision | Low ROB | High ROB | Unclear  |
| Shidrawi, 2004 [45]   | -         | 3.5 | 546    | Convenience   | Good precision | Low ROB | High ROB | Unclear  |
| Saghir, 2012 [46]     | 2009-2010 | 0.7 | 564    | Convenience   | Good precision | Low ROB | High ROB | Low ROB  |
| Al-Jarba, 2003 [47]   | -         | 1.3 | 576    | Convenience   | Good precision | Low ROB | High ROB | Unclear  |
| Sallam, 2003 [33]     | 1999-2002 | 1.4 | 593    | Convenience   | Good precision | Low ROB | High ROB | Low ROB  |
| Haidar, 2002 [26]     | 1997-1999 | 8.8 | 749    | Convenience   | Good precision | Low ROB | High ROB | Unclear  |
| Saghir, 2012 [46]     | 2008-2009 | 0.9 | 919    | Convenience   | Good precision | Low ROB | High ROB | Low ROB  |
| Oshaish, 2008 [48]    | -         | 1   | 1,000  | Convenience   | Good precision | Low ROB | High ROB | Unclear  |
| Gacche, 2012 [49]     | 2010-2011 | 1.3 | 2,379  | Simple random | Good precision | Low ROB | Low ROB  | Low ROB  |
| Haidar, 2002 [26]     | 1997-1999 | 2   | 2,434  | Convenience   | Good precision | Low ROB | High ROB | Unclear  |
| Alodini, 2012 [50]    | 2010      | 3   | 3,000  | Convenience   | Good precision | Low ROB | High ROB | Low ROB  |
| Omer, 2010 [51]       | 2007-2008 | 2   | 5,826  | Convenience   | Good precision | Low ROB | High ROB | Unclear  |
| Salem, 2009 [30]      | 2005-2007 | 3.5 | 8,055  | Convenience   | Good precision | Low ROB | High ROB | High ROB |
| Salem, 2009 [30]      | 2005-2007 | 4.3 | 20,329 | Convenience   | Good precision | Low ROB | High ROB | Low ROB  |

Abbreviations: ROB: risk of bias; EMRO: WHO regional office for the Eastern Mediterranean

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