| **Supplementary Table 1.** Summary of articles included in analysis. |
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| **Mortality Strata** | **Country** | **Vaccine** | **Gavi eligible** | **Year of publication** | **Number of surveillance years after introduction** | **Coverage\* [1]** | **Reference** |
| Low | Australia | RV5 | No | 2010 |  2 | 81 | [2] |
| Low | Australia | RV1 | No | 2011 |  3 | 82 | [3] |
| Low | Australia | Both | No | 2012 |  3 | 84 | [4] |
| Low | Australia | RV1 | No | 2014 |  6 | 84 | [5] |
| Low | Australia | RV1 | No | 2015 |  5 | 85 | [6] |
| Low | Austria | Both | No | 2010 |  1 | 47 | [7] |
| Low | Austria | Both | No | 2011 |  2 | 61 | [8] |
| Low | Austria | Both | No | 2013 |  4 | 61 | [9] |
| Low | Austria | Both | No | 2013 |  2 | 61 | [10] |
| Low | Belgium | Both | No | 2010 |  3 |  | [11] |
| Low | Belgium | Both | No | 2011 |  3 |  | [12] |
| Low | Belgium | Both | No | 2013 |  4 | 77 | [13] |
| Low | Belgium | Both | No | 2016 |  9 | 88 | [14] |
| Low | Canada | RV1 | No | 2016 |  3 |  | [15] |
| Low | Canada | RV1 | No | 2016 |  2 |  | [16] |
| Low | Finland | RV5 | No | 2012 |  1 |  | [17] |
| Low | United Kingdom | RV1 | No | 2016 |  2 | 89 | [18] |
| Low | United Kingdom | RV1 | No | 2016 |  2 | 89 | [19] |
| Low | United Kingdom | RV1 | No | 2016 |  1 | 89 | [20] |
| Low | US | RV5 | No | 2010 |  3 | 44 | [21] |
| Low | US | Both | No | 2010 |  3 | 44 | [22] |
| Low | US | Both | No | 2010 |  3 | 44 | [23] |
| Low | US | Both | No | 2011 |  3 | 44 | [24] |
| Low | US | Both | No | 2011 |  3 | 44 | [25] |
| Low | US | Both | No | 2012 |  4 | 59 | [26] |
| Low | US | Both | No | 2014 |  6 | 67 | [27] |
| Low | US | Both | No | 2015 |  6 | 67 | [28] |
| Low | US | Both | No | 2015 |  7 | 69 | [29] |
| Low | US | Both | No | 2016 |  8 | 73 | [30] |
| Medium | Armenia | RV1 | No | 2016 |  3 | 93 | [31] |
| Medium | Brazil | RV1 | No | 2010 |  3 | 81 | [32] |
| Medium | Brazil | RV1 | No | 2011 |  4 | 86 | [33] |
| Medium | Brazil | RV1 | No | 2011 |  4 | 86 | [34] |
| Medium | Brazil | RV1 | No | 2015 |  5 | 83 | [35] |
| Medium | Brazil | RV1 | No | 2015 |  4 | 86 | [36] |
| Medium | Brazil | RV1 | No | 2016 |  5 | 83 | [37] |
| Medium | Brazil | RV1 | No | 2016 |  4 | 86 | [38] |
| Medium | El Salvador | RV1 | No | 2013 |  5 | 90 | [39] |
| Medium | El Salvador | RV1 | No | 2015 |  3 | 62 | [36] |
| Medium | Mexico | RV1 | No | 2010 |  2 | 93 | [40] |
| Medium | Mexico | RV1 | No | 2013 |  5 | 98 | [41] |
| Medium | Mexico | RV1 | No | 2014 |  5 | 98 | [42] |
| Medium | Mexico | Both | No | 2015 |  3 | 93 | [36] |
| Medium | Mexico | Both | No | 2016 |  8 | 85 | [43] |
| Medium | Moldova | RV1 | No | 2016 |  2 | 69 | [44] |
| Medium | Panama | RV1 | No | 2011 |  3 | 74 | [45] |
| Medium | Panama | RV1 | No | 2011 |  3 | 74 | [46] |
| Medium | Panama | RV1 | No | 2015 |  4 | 78 | [36] |
| Medium | Venezuela | RV1 | No | 2013 |  4 | 54 | [39] |
| High | Bolivia | RV1 | Yes | 2013 |  2 | 87 | [39] |
| High | Botswana | RV1 | No | 2016 |  2 | 82 | [47] |
| High | Ghana | RV1 | Yes | 2014 |  2 | 98 | [48] |
| High | Ghana | RV1 | Yes | 2016 |  3 | 98 | [49] |
| High | Honduras | RV1 | Yes | 2013 |  2 | 98 | [39] |
| High | Malawi | RV1 | Yes | 2016 |  3 | 84 | [50] |
| High | Morocco | RV1 | No | 2015 |  3 | 90 | [51] |
| High | Nicaragua | RV5 | Yes | 2015 |  3 | 94 | [36] |
| High | Rwanda | RV5 | Yes | 2016 |  3 | 98 | [52] |
| High | South Africa | RV1 | No | 2016 |  5 | 72 | [53] |
| High | Tanzania | RV1 | Yes | 2016 |  3 | 85 | [54] |
| High | Togo | RV1 | Yes | 2016 |  1 | 85 | [55] |
| High | Yemen | RV1 | Yes | 2015 |  2 | 57 | [56] |
| High | Yemen | RV1 | Yes | 2016 |  2 | 57 | [57] |
| High | Zambia | RV1 | Yes | 2016 |  3 | 73 | [58] |
| \*Coverage during the final year of surveillance. |

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