**Table 2 Prevalence of smokeless tobacco use (%) in different countries of the world according to WHO sub-regional classification**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **WHO sub-regions** | **Country** | **M** | **F** | **Source** | **Year** |
| **Africa (Region D)** | Algeria\* | 10 | 0.8 | Algeria Adult Tobacco Survey [[25]](https://paperpile.com/c/i13Q9D/xTuyB) | 2010 |
| Benin\* | 9 | 3 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2015 |
| Burkina Faso\* | 5.6 | 11.6 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2013 |
| Cameroon\* | 2.2 | 3.8 | GATS [[27]](https://paperpile.com/c/i13Q9D/z2nUW) | 2013 |
| Cape Verde | 3.5 | 5.8 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2007\* |
| Chad | 1.9 | 0.4 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2008 |
| Comoros | 7.72 | 2.99 | DHS [[28]](https://paperpile.com/c/i13Q9D/KYgcW) | 2012 |
| Gabon | 0.48 | 0.34 | DHS [[28]](https://paperpile.com/c/i13Q9D/KYgcW) | 2012 |
| Gambia | 0.8 | 1.4 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2010 \* |
| Ghana | 1.33 | 0.2 | DHS [[28]](https://paperpile.com/c/i13Q9D/KYgcW) | 2008 |
| Guinea | 1.4 | 1.5 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2009 |
| Liberia\* | 1.1 | 3.1 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2011 |
| Madagascar | 24.66 | 19.6 | DHS [[28]](https://paperpile.com/c/i13Q9D/KYgcW) | 2009 |
| Mali | 5 | 1.2 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2007 |
| Mauritania | 5.7 | 28.3 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2006 |
| Niger | 4.55 | 2.3 | DHS [[29]](https://paperpile.com/c/i13Q9D/xqi0j) | 2012 |
| Nigeria\* | 2.9 | 0.9 | GATS [[27]](https://paperpile.com/c/i13Q9D/z2nUW) | 2012 |
| Sao Tome & Principe | 3.8 | 1.9 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2009 |
| Senegal\* | 0.3 | 1 | GATS [[27]](https://paperpile.com/c/i13Q9D/z2nUW) | 2015 |
| Seychelles\*\* | 0.3 | 0.4 | The Seychelles Heart Study IV [[25]](https://paperpile.com/c/i13Q9D/xTuyB) | 2013–14 |
| Sierra Leone | 2.9 | 12.1 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2009 |
| Togo | 5.1 | 2.2 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2010 |
| **Africa (Region E)** | \*Botswana\* | 1.5 | 6.5 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2014 |
| \*Burundi | 0.03 | 0.31 | DHS [[28]](https://paperpile.com/c/i13Q9D/KYgcW) | 2011 |
| Congo (Brazzaville) | 8.3 | 1.54 | DHS [[28]](https://paperpile.com/c/i13Q9D/KYgcW) | 2012 |
| Congo (Republic) | 8.67 | 3.22 | DHS [[28]](https://paperpile.com/c/i13Q9D/KYgcW) | 2013 |
| Côte d'Ivoire | 0.61 | 1.27 | DHS [[28]](https://paperpile.com/c/i13Q9D/KYgcW) | 2012 |
| Eritrea\* | 11.6 | 0.1 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2011 |
| Ethiopia\* | 2.6 | 0.8 | GATS [[27]](https://paperpile.com/c/i13Q9D/z2nUW) | 2016 |
| Kenya\* | 5.3 | 3.8 | GATS [[27]](https://paperpile.com/c/i13Q9D/z2nUW) | 2014 |
| \*Lesotho | 1.3 | 9.1 | DHS [[29]](https://paperpile.com/c/i13Q9D/xqi0j) | 2009 |
| \*Malawi | 1.9 | 5 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2009 |
| Mozambique | 10.94 | 0.82 | DHS [[28]](https://paperpile.com/c/i13Q9D/KYgcW) | 2011 |
| Namibia | 1.8 | 2.3 | DHS [[29]](https://paperpile.com/c/i13Q9D/xqi0j) | 2006–07 |
| Rwanda\* | 0.6 | 3.3 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2012 |
| \*South Africa\* | 1.4 | 8.4 | South African Social Attitude Survey [[25]](https://paperpile.com/c/i13Q9D/xTuyB) | 2007 |
| Swaziland\* | 2.7 | 1.8 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2014 \* |
| \*Tanzania | 2.03 | 0.83 | DHS [[28]](https://paperpile.com/c/i13Q9D/KYgcW) | 2010 |
| Uganda\* | 1.7 | 3 | GATS [[27]](https://paperpile.com/c/i13Q9D/z2nUW) | 2013 |
| Zambia\* | 2.2 | 6.8 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2017 |
| Zimbabwe | 1.6 | 0.4 | DHS [[30]](https://paperpile.com/c/i13Q9D/sgAcG) | 2011 |
| **Americas (Region A)** | \*Canada\* | 0.8 | – | CTADS [[31]](https://paperpile.com/c/i13Q9D/UCCtr) | 2015\* |
| USA | 6.5 | 0.4 | ICS [[30]](https://paperpile.com/c/i13Q9D/sgAcG) | 2010 |
| **Americas (Region B)** | Argentina | 0.1 | 0.2 | GATS [[27]](https://paperpile.com/c/i13Q9D/z2nUW) | 2012 |
| Barbados | 0 | 0.6 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2007\* |
| \*Brazil | 0.6 | 0.3 | GATS [[27]](https://paperpile.com/c/i13Q9D/z2nUW) | 2008 |
| Costa Rica\*\* | 0.1 | 0 | GATS [[27]](https://paperpile.com/c/i13Q9D/z2nUW) | 2015 |
| Dominican Republic | 1.9 | 0.3 | DHS [[29]](https://paperpile.com/c/i13Q9D/xqi0j) | 2007\* |
| Grenada | 2.2 | 0.3 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2011 |
| Mexico\* | 0.4 | 0 | GATS [[27]](https://paperpile.com/c/i13Q9D/z2nUW) | 2015 |
| Panama\*\* | 1 | 0.5 | GATS [[27]](https://paperpile.com/c/i13Q9D/z2nUW) | 2013 |
| Paraguay | 3 | 1.6 | STEPS [[25]](https://paperpile.com/c/i13Q9D/xTuyB) | 2011 |
| St Kitts & Nevisa | 0.3 | 0.1 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2007 |
| St Lucia\*\* | 1.3 | 0.2 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2012\* |
| Trinidad & Tobago | 0.5 | 0.3 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2011 |
| \*Uruguay\*\* | 0.3 | – | GATS [[27]](https://paperpile.com/c/i13Q9D/z2nUW) | 2009 |
| Venezuela | 6.2 | 0.9 | National Survey of Drugs in the General Population [[25]](https://paperpile.com/c/i13Q9D/xTuyB) | 2011 |
| **Americas (Region D)** | Haiti | – | 2.5 | DHS [[29]](https://paperpile.com/c/i13Q9D/xqi0j) | 2005–06\* |
| **Eastern Mediterranean (Region B)** | Kuwait\*\* | 0.5 | 0 | STEPS[[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2014 |
| Libya | 2.2 | 0.1 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2009 |
| Qatar\*\* | 1.3 | 0 | GATS [[27]](https://paperpile.com/c/i13Q9D/z2nUW) | 2013 |
| Saudi Arabia\* | 1.5 | 0.3 | Saudi Health Information Survey [[25]](https://paperpile.com/c/i13Q9D/xTuyB) | 2014 |
| Tunisia | 8.6 | 2.2 | ICS [[30]](https://paperpile.com/c/i13Q9D/sgAcG) | 2005–06 |
| **Eastern Mediterranean (Region D)** | Egypt\* | 0.4 | 0 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2017 |
| Iraq\* | 0.4 | 0.02 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2015 |
| Morocco\*\* | 4.4 | – | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2017 |
| Pakistan\* | 11.4 | 3.7 | GATS [[27]](https://paperpile.com/c/i13Q9D/z2nUW) | 2014 |
| Sudan\* | 14.3 | 0.2 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2016 |
| Yemen | 13.7 | 4.8 | National Health and Demographic Survey [[25]](https://paperpile.com/c/i13Q9D/xTuyB) | 2013 |
| **Europe (Region A)** | Austria\* | 2.8 | 0.5 | Representative Survey on Substance Abuse [[32]](https://paperpile.com/c/i13Q9D/DcuTW) | 2015 |
| Belgium | 1.1 | 0.6 | SEBS [[33]](https://paperpile.com/c/i13Q9D/aVFUD) | 2012 |
| Cyprus | 2.1 | 0.4 | SEBS [[33]](https://paperpile.com/c/i13Q9D/aVFUD) | 2012 |
| Czech Republic\* | 2.2 | 1.2 | The use of tobacco in the Czech Republic [[25]](https://paperpile.com/c/i13Q9D/xTuyB) | 2015 |
| Denmark\* | 2.3 | 0.9 | Monitoring Smoking Habits in the Danish Population [[25]](https://paperpile.com/c/i13Q9D/xTuyB) | 2015 |
| Finland\* | 5.6 | 0.4 | Health Behaviour and Health among the Finnish Adult Population [[25]](https://paperpile.com/c/i13Q9D/xTuyB) | 2014 |
| France | 1.2 | 0.6 | SEBS [[33]](https://paperpile.com/c/i13Q9D/aVFUD) | 2012 |
| Germany | 3.4 | 3.4 | SEBS [[33]](https://paperpile.com/c/i13Q9D/aVFUD) | 2012 |
| Iceland\* | 13 | 3 | May–December Household Surveys done by Gallup [[25]](https://paperpile.com/c/i13Q9D/xTuyB) | 2015 |
| Ireland | 2.2 | 0.9 | SEBS [[33]](https://paperpile.com/c/i13Q9D/aVFUD) | 2012 |
| Italy | 1.8 | 1.5 | SEBS [[33]](https://paperpile.com/c/i13Q9D/aVFUD) | 2012 |
| Luxembourg | 1.8 | 1 | SEBS [[33]](https://paperpile.com/c/i13Q9D/aVFUD) | 2012 |
| Malta | 5.5 | 1.5 | SEBS [[33]](https://paperpile.com/c/i13Q9D/aVFUD) | 2012 |
| Netherlands | 0.3 | 0.1 | The Dutch Continuous Survey of Smoking Habits [[25]](https://paperpile.com/c/i13Q9D/xTuyB) | 2011 |
| Norway\* | 21 | 6 | Statistics Norway Smoking Habits Survey [[25]](https://paperpile.com/c/i13Q9D/xTuyB) | 2015 |
| Portugal | 4.4 | 1.1 | SEBS [[33]](https://paperpile.com/c/i13Q9D/aVFUD) | 2012 |
| Slovenia | 1.8 | 0.4 | SEBS [[33]](https://paperpile.com/c/i13Q9D/aVFUD) | 2012 |
| Spain | 0.4 | 0.2 | SEBS [[33]](https://paperpile.com/c/i13Q9D/aVFUD) | 2012 |
| Sweden\* | 25 | 7 | National Survey of Public Health [[25]](https://paperpile.com/c/i13Q9D/xTuyB) | 2015 |
| Switzerland\* | 4.2 | 1.2 | Addiction Monitoring survey [[25]](https://paperpile.com/c/i13Q9D/xTuyB) | 2013 |
| United Kingdom | 1.6 | 0.5 | SEBS [[33]](https://paperpile.com/c/i13Q9D/aVFUD) | 2012 |
| **Europe (Region B)** | Azerbaijan\* | 0.2 | 0 | National study of risk factors for non-communicable diseases [[25]](https://paperpile.com/c/i13Q9D/xTuyB) | 2011 |
| Armenia | 1.8 | 0 | DHS [[29]](https://paperpile.com/c/i13Q9D/xqi0j) | 2005 |
| Bulgaria | 0.3 | 0 | SEBS [[33]](https://paperpile.com/c/i13Q9D/aVFUD) | 2012 |
| Georgia | 1 | 0.2 | Survey of Risk Factors of Non-Communicable Diseases [[25]](https://paperpile.com/c/i13Q9D/xTuyB) | 2010 |
| \*Kazakhstan\*\* | 2.8 | 0 | GATS [[27]](https://paperpile.com/c/i13Q9D/z2nUW) | 2014 |
| Kyrgyzstan\* | 10.1 | 0.1 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2013 |
| Poland | 1 | 0.1 | GATS [[27]](https://paperpile.com/c/i13Q9D/z2nUW) | 2009 |
| \*Romania | 0.4  1.8 | 0.2  0.4 | GATS [[27]](https://paperpile.com/c/i13Q9D/z2nUW) | 2011 |
| Slovakia\* | 1.9 | 0.8 | Tobacco and Health Education Survey [[25]](https://paperpile.com/c/i13Q9D/xTuyB) | 2014 |
| Uzbekistan\* | 23.2 | 0.2 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2014 |
| **Europe (Region C)** | Latvia\* | 0.1 | 0 | Health Behaviour among Latvian Adult Population [[25]](https://paperpile.com/c/i13Q9D/xTuyB) | 2014 |
| Lithuania | 1.2 | 0.2 | SEBS [[33]](https://paperpile.com/c/i13Q9D/aVFUD) | 2012 |
| Moldova\* | 0.1 | 0 | DHS [[29]](https://paperpile.com/c/i13Q9D/xqi0j) | 2013 |
| Russia\* | 0.8 | 0.1 | GATS [[27]](https://paperpile.com/c/i13Q9D/z2nUW) | 2016 |
| Ukraine\* | 0.4 | 0 | GATS [[27]](https://paperpile.com/c/i13Q9D/z2nUW) | 2017 |
| **South East Asia (Region B)** | Indonesia\* | 3.9 | 4.8 | Basic Health Research [[25]](https://paperpile.com/c/i13Q9D/xTuyB) | 2013 |
| Sri Lanka\* | 26 | 5.3 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2014 |
| Thailand | 1.1 | 5.2 | GATS [[27]](https://paperpile.com/c/i13Q9D/z2nUW) | 2011 |
| **South East Asia (Region D)** | Bangladesh\* | 16.2 | 24.8 | GATS [[27]](https://paperpile.com/c/i13Q9D/z2nUW) | 2017 |
| Bhutan\* | 26.5 | 11 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2014 |
| India\* | 29.6 | 12.8 | GATS [[27]](https://paperpile.com/c/i13Q9D/z2nUW) | 2017 |
| Maldives\* | 3.9 | 1.4 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2011 |
| Myanmar\* | 62.2 | 24.1 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2014 |
| Nepal\* | 31.3 | 4.8 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2013 |
| Timor Leste\* | 16.1 | 26.8 | National survey for non-communicable disease risk factors and injuries [[34]](https://paperpile.com/c/i13Q9D/npVAi) | 2014 |
| **Western Pacific (Region A)** | Australia\* | 0.6 | 0.3 | National Drug Strategy Household Survey [[25]](https://paperpile.com/c/i13Q9D/xTuyB) | 2013 |
| Brunei Darussalam\*\* | 1.3 | 2.7 | Knowledge, Attitudes and Practices Survey on Non-communicable Diseases [[25]](https://paperpile.com/c/i13Q9D/xTuyB) | 2014–15 |
| **Western Pacific (Region B)** | Cambodia\* | 0.8 | 8.6 | National Adult Tobacco Survey of Cambodia [[25]](https://paperpile.com/c/i13Q9D/xTuyB) | 2014 |
| China | 0.7  1.6 | 0  0.1 | GATS [[27]](https://paperpile.com/c/i13Q9D/z2nUW) | 2010 |
| Lao People’s Democratic Republic\* | 0.5 | 8.6 | National Adult Tobacco Survey [[25]](https://paperpile.com/c/i13Q9D/xTuyB) | 2015 |
| Malaysia\* | 20.4 | 0.8 | National Health And Morbidity Survey [[25]](https://paperpile.com/c/i13Q9D/xTuyB) | 2015 |
| Marshall Islands\*\* | 13.7 | 4 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2002 |
| Micronesia | 22.4 | 3 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2002 |
| Mongolia\* | 0.8 | 0.2 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2015 |
| Niue\*\* | 0.3 | 0.2 | STEPS [[26]](https://paperpile.com/c/i13Q9D/Ufbim) | 2011 |
| Philippines\* | 2.7 | 0.7 | GATS [[27]](https://paperpile.com/c/i13Q9D/z2nUW) | 2015 |
| Vietnam\* | 0.8 | 2 | GATS [[27]](https://paperpile.com/c/i13Q9D/z2nUW) | 2015 |

1. *CTADS* Canadian Tobacco Alcohol and Drugs Survey, *DHS* The Demographic and Health Surveys, *ICS* Individual Country Survey, *GATS* Global Adult Tobacco Survey, *SEBS* The Special Europe Barometer Survey, *STEPS* STEPwise approach to Surveillance, *WHO* World Health Organization
2. \* indicates countries included in the earlier paper (n = 55), but with updated values; \*\* indicates new countries not included in the earlier paper (n = 12)
3. a Populations of St Kitts and Nevis are tiny and unlikely to affect our estimates