

# Studies used to generate the 2015 IDF Diabetes Atlas, 7th Edition, estimates of diabetes and IGT prevalence in adults (20-79)

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Country	Data sources
<b>African region</b>	
<b>Estimates derived from in-country studies</b>	
Benin	Benin [1]
Botswana	Botswana [2]
Cameroon	Cameroon [3, 4]
Comoros	Comoros [5]
Gambia	Gambia [6]
Kenya	Kenya [7]
Mozambique	Mozambique [8]
Réunion	Réunion [9]
Seychelles	Seychelles [10]
South Africa	South Africa [11]
Togo	Togo [12]
United Republic of Tanzania	United Republic of Tanzania [13, 14]
<b>Extrapolated from other countries in sub-groups</b>	
Angola*	Botswana [2], Mozambique [8], South Africa [11]
Burkina Faso*	Gambia [6], Benin [1], Togo [12], Cameroon [3, 4]
Burundi*	United Republic of Tanzania [13, 14], Kenya [7]
Cabo Verde*	Gambia [6], Benin [1], Togo [12], Cameroon [3, 4]
Central African Republic*	Cameroon [3, 4]
Chad	Cameroon [3, 4]
Congo*	Cameroon [3, 4]
Côte d'Ivoire*	Gambia [6], Benin [1], Togo [12], Cameroon [3, 4]
Democratic Republic of the Congo*	Cameroon [3, 4]

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Equatorial Guinea*	Cameroon [3, 4]
Eritrea*	United Republic of Tanzania [13, 14], Kenya [7]
Ethiopia*	United Republic of Tanzania [13, 14], Kenya [7]
Gabon*	Cameroon [3, 4]
Ghana*	Gambia [6], Benin [1], Togo [12], Cameroon [3, 4]
Guinea*	Gambia [6], Benin [1], Togo [12], Cameroon [3, 4]
Guine-Bissau*	Gambia [6], Benin [1], Togo [12], Cameroon [3, 4]
Lesotho*	Botswana [2], Mozambique [8], South Africa [11]
Liberia*	Gambia [6], Benin [1], Togo [12], Cameroon [3, 4]
Madagascar*	Botswana [2], Mozambique [8], South Africa [11]
Malawi*	Botswana [2], Mozambique [8], South Africa [11]
Mali*	Gambia [6], Benin [1], Togo [12], Cameroon [3, 4]
Mauritania*	Gambia [6], Benin [1], Togo [12], Cameroon [3, 4]
Namibia*	Botswana [2], Mozambique [8], South Africa [11]
Niger*	Gambia [6], Benin [1], Togo [12], Cameroon [3, 4]
Nigeria*	Gambia [6], Benin [1], Togo [12], Cameroon [3, 4]
Rwanda*	Kenya [7], United Republic of Tanzania [13, 14]
Sao Tome and Principe*	Gambia [6], Benin [1], Togo [12], Cameroon [3, 4]
Senegal*	Gambia [6], Benin [1], Togo [12], Cameroon [3, 4]
Sierra Leone*	Gambia [6], Benin [1], Togo [12], Cameroon [3, 4]
Somalia*	Kenya [7], United Republic of Tanzania [13, 14]
South Sudan*	Tunisia [94], Sudan [93], Algeria [67, 68], Morocco [82], Egypt [69]
Swaziland*	Botswana [2], Mozambique [8], South Africa [11]
Uganda*	Kenya [7], United Republic of Tanzania [13, 14]
Western Sahara*	Gambia [6], Benin [1], Togo [12], Cameroon [3, 4]

Zambia*	Botswana [2], Mozambique [8], South Africa [11]
Zimbabwe*	Botswana [2], Mozambique [8], South Africa [11]

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## **European region**

### **Estimates derived from in-country studies**

Austria	Austria [15]
Belgium	Belgium [16]
Bulgaria	Bulgaria [17, 18]
Croatia	Croatia [19]
Cyprus	Cyprus [20]
Czech Republic	Czech Republic [21]
Denmark	Denmark [22, 23]
Estonia	Estonia [24]
Finland	Finland [25]
France	France [26, 27, 28, 29]
Germany	Germany [30, 31, 32]
Greece	Greece [33]
Hungary	Hungary [34, 35]
Ireland	Ireland [36, 37]
Israel	Israel [38, 39]
Italy	Italy [40, 41, 42]
Latvia	Latvia [43]
Lithuania	Lithuania [44]
Luxembourg	Luxembourg [45]
Malta	Malta [46]
Netherlands	Netherlands [47, 42]
Poland	Poland [48, 42]
Portugal	Portugal [49]
Romania	Romaina [50, 51]
Russian Federation	Russian Federation [52]
Slovakia	Slovakia [53, 54]
Slovenia	Slovenia [55, 56]
Spain	Spain [57, 42]
Sweden	Sweden [58, 59, 42]
Switzerland	Switzerland [60]
Turkey	Turkey [61, 62]
United Kingdom	United Kingdom [63, 64, 42, 65]
Uzbekistan	Uzbekistan[66]

### **Extrapolated from other countries in sub-groups**

Albania*	Turkey [61, 62], Cyprus [20], Slovenia [55, 56], Croatia [19], Greece [33]
Andorra*	Portugal [49], Spain [57, 42]
Armenia*	Uzbekistan [66], Bulgaria [17, 18], Russian Federation [52], Romaina [50, 51], Poland [48, 42]
Azerbaijan*	Uzbekistan [66], Bulgaria [17, 18], Russian Federation [52], Romaina [50, 51], Poland [48, 42]
Belarus*	Bulgaria [17, 18], Poland [48, 42], Estonia [24], Lithuania [44], Latvia [43], Romaina [50, 51]
Bosnia and Herzegovina*	Turkey [61, 62], Cyprus [20], Slovenia [55, 56], Croatia [19], Greece [33]
Channel Islands*	United Kingdom [63, 64, 42, 65], Netherlands [47, 42]
Faeroe Islands*	Finland [25], Denmark [22, 23], Sweden [58, 59, 42]
Georgia*	Uzbekistan [66], Bulgaria [17, 18], Russian Federation [52], Romaina [50, 51], Poland [48, 42]
Iceland*	Finland [25], Denmark [22, 23], Sweden [58, 59, 42]
Kazakhstan*	Uzbekistan [66], Russian Federation [52]
Kyrgyzstan*	Uzbekistan [66], Russian Federation [52]
Liechtenstein*	Austria [15], Germany [30, 31, 32], Switzerland [60], Netherlands [47, 42], United Kingdom [63, 64, 42, 65]
Monaco*	France [26, 27, 28, 29], Italy [40, 41, 42]
Montenegro*	Turkey [61, 62], Cyprus [20], Slovenia [55, 56], Croatia [19], Greece [33]
Norway*	Finland [25], Denmark [22, 23], Sweden [58, 59, 42]
Republic of Moldova*	Slovakia [53, 54], Hungary [34, 35], Bulgaria [17, 18], Czech Republic [21], Romaina [50, 51], Poland [48, 42]
San Marino*	Italy [40, 41, 42], Malta [46]
Serbia*	Turkey [61, 62], Cyprus [20], Slovenia [55, 56], Croatia [19], Greece [33]
Tajikistan*	Uzbekistan [66], Russian Federation [52]
Macedonia*	Turkey [61, 62], Cyprus [20], Slovenia [55, 56], Croatia [19], Greece [33]
Turkmenistan*	Uzbekistan [66], Russian Federation [52]
Ukraine*	Uzbekistan [66], Bulgaria [17, 18], Russian Federation [52], Romaina [50, 51], Poland [48, 42]

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**Middle East and North African region**

**Estimates derived from in-country studies**

Algeria	Algeria [67, 68]
Egypt	Egypt [69]
Islamic Republic of Iran	Islamic Republic of Iran [70, 71, 72]
Iraq	Iraq [73, 74]
Jordan	Jordan [75, 76]
Kuwait	Kuwait [77, 78]
Lebanon	Lebanon [79, 80, 81]
Morocco	Morocco [82]
Oman	Oman [83, 84, 85]
Pakistan	Pakistan [86]
Saudi Arabia	Saudi Arabia [87, 88, 89, 90]
State of Palestine	State of Palestine [91, 92]
Sudan	Sudan [93]
Tunisia	Tunisia [94]
United Arab Emirates	United Arab Emirates [95]
Yemen	Yemen [96]

**Extrapolated from other countries in sub-groups**

Afghanistan*	State of Palestine [91, 92], Jordan [75, 76], Pakistan [86], Islamic Republic of Iran [70, 71, 72]
Bahrain*	Saudi Arabia [87, 88, 89, 90], United Arab Emirates [95], Oman [83, 84, 85], Kuwait [77, 78]
Libya*	Tunisia [94], Sudan [93], Algeria [67, 68], Morocco [82], Egypt [69]
Qatar*	Saudi Arabia [87, 88, 89, 90], United Arab Emirates [95], Oman [83, 84, 85], Kuwait [77, 78]
Syrian Arab Republic*	State of Palestine [91, 92], Jordan [75, 76], Pakistan [86], Iraq [73, 74], Yemen [96]

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**North American and Caribbean region****Estimates derived from in-country studies**

Barbados	Barbados [97, 98]
Belize	Belize [99, 100]
Bermuda	Bermuda [101, 102]
British Virgin Islands	British Virgin Islands [103]
Canada	Canada [104]
Haiti	Haiti [105]
Jamaica	Jamaica [106, 107]
Mexico	Mexico [108, 109, 110]
Saint Kitts and Nevis	St. Kitts and Nevis [111]
United States of America	United States of America [112, 113, 114, 115]

United States Virgin Islands	US Virgin Islands [116, 117]
<b>Extrapolated from other countries in sub-groups</b>	
Anguilla*	United States of America [112, 113, 114, 115], British Virgin Islands [103], Jamaica [106, 107]
Antigua and Barbuda*	Barbados [97, 98], US Virgin Islands [116, 117], Bermuda [101, 102], United States of America [112, 113, 114, 115], St. Kitts and Nevis [111]
Aruba*	United States of America [112, 113, 114, 115], British Virgin Islands [103], Jamaica [106, 107]
Bahamas*	Barbados [97, 98], US Virgin Islands [116, 117], Bermuda [101, 102], United States of America [112, 113, 114, 115], St. Kitts and Nevis [111]
Cayman Islands*	Barbados [97, 98], US Virgin Islands [116, 117], Bermuda [101, 102], United States of America [112, 113, 114, 115], St. Kitts and Nevis [111]
Curaçao*	United States of America [112, 113, 114, 115], British Virgin Islands [103], Jamaica [106, 107]
Dominica*	United States of America [112, 113, 114, 115], British Virgin Islands [103], Jamaica [106, 107]
Grenada*	United States of America [112, 113, 114, 115], British Virgin Islands [103], Jamaica [106, 107]
Guadeloupe*	United States of America [112, 113, 114, 115], British Virgin Islands [103], Jamaica [106, 107]
Guyana*	Haiti [105], British Virgin Islands [103], Jamaica [106, 107]
Martinique*	United States of America [112, 113, 114, 115], British Virgin Islands [103], Jamaica [106, 107]
Montserrat*	Barbados [97, 98], US Virgin Islands [116, 117], Bermuda [101, 102], United States of America [112, 113, 114, 115], St. Kitts and Nevis [111]
Saint Lucia*	United States of America [112, 113, 114, 115], British Virgin Islands [103], Jamaica [106, 107]
Saint Vincent and the Grenadines*	United States of America [112, 113, 114, 115], British Virgin Islands [103], Jamaica [106, 107]
Sint Maarten (Dutch part)*	Barbados [97, 98], US Virgin Islands [116, 117], Bermuda [101, 102], United States of America [112, 113, 114, 115], St. Kitts and Nevis [111]

Suriname*	United States of America [112, 113, 114, 115], British Virgin Islands [103], Jamaica [106, 107]
Trinidad and Tobago*	Barbados [97, 98], US Virgin Islands [116, 117], Bermuda [101, 102], United States of America [112, 113, 114, 115], St. Kitts and Nevis [111]

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### **South and Central American region**

#### **Estimates derived from in-country studies**

Argentina	Argentina [118]
Plurinational State of Bolivia	Bolivia [119]
Brazil	Brazil [120, 121, 122]
Chile	Chile [123, 124, 125]
Costa Rica	Costa Rica [126, 127, 127]
Dominican Republic	Dominican Republic [128, 129]
Guatemala	Guatemala [99]
Peru	Peru [130]
Puerto Rico	Puerto Rico [131]

#### **Extrapolated from other countries in sub-groups**

Colombia*	Bolivia [119], Brazil [120, 121, 122], Costa Rica [126, 127, 127], Dominican Republic [128, 129]
Cuba*	Bolivia [119], Brazil [120, 121, 122], Costa Rica [126, 127, 127], Dominican Republic [128, 129]
Ecuador*	Bolivia [119], Guatemala [99]
El Salvador*	Bolivia [119], Guatemala [99]
French Guiana*	Bolivia [119], Brazil [120, 121, 122], Costa Rica [126, 127, 127], Dominican Republic [128, 129]
Honduras*	Bolivia [119], Guatemala [99]
Nicaragua*	Bolivia [119], Guatemala [99]
Panama*	Bolivia [119], Brazil [120, 121, 122], Costa Rica [126, 127, 127], Dominican Republic [128, 129]
Paraguay*	Bolivia [119], Brazil [120, 121, 122], Costa Rica [126, 127, 127], Dominican Republic [128, 129]
Uruguay*	Argentina [118], Bolivia [119], Chile [123, 124, 125], Peru [130]
Venezuela*	Bolivia [119], Puerto Rico [131]

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### **South East Asia region**

#### **Estimates derived from in-country studies**

Bangladesh	Bangladesh [132, 133]
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India	India [134, 135, 136]
Maldives	Maldives [137]
Mauritius	Mauritius [138]
Nepal	Nepal [139, 140]
Sri Lanka	Sri Lanka [141, 142]
<b>Extrapolated from other countries in sub-groups</b>	
Bhutan	Nepal [139, 140], India [134, 135, 136], Sri Lanka [141, 142], Bangladesh [132, 133], Maldives [137]

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## **West Pacific region**

### **Estimates derived from in-country studies**

Australia	Australia [143, 144]
Cambodia	Cambodia [145]
China	China [146, 147, 148, 149]
Hong Kong China	Hong Kong China [150, 151, 152]
Fiji	Fiji [153]
French Polynesia	French Polynesia [154, 155]
Guam	Guam [156]
Indonesia	Indonesia [157, 158]
Japan	Japan [159, 160]
Malaysia	Malaysia [161, 162, 163, 164]
Mongolia	Mongolia [165, 166]
Myanmar	Myanmar [167, 168]
Nauru	Nauru [169]
New Zealand	New Zealand [170, 171]
Philippines	Philippines [172]
Republic of Korea	Republic of Korea [173, 174]
Samoa	Samoa [175]
Singapore	Singapore [176, 177, 178]
Solomon Islands	Solomon Islands [179]
Taiwan	Taiwan [180, 181]
Thailand	Thailand [182, 183, 184, 185]
Tokelau	Tokelau [186]
Tonga	Tonga [187]
Viet Nam	Viet Nam [188]
<b>Extrapolated from other countries in sub-groups</b>	
Brunei Darussalam*	Mongolia [165, 166], Singapore [176, 177, 178], Malaysia [161, 162, 163, 164], Japan [159, 160]
Macao China*	Hong Kong China [150, 151, 152], Taiwan [180, 181]

Cook Islands*	Tonga [187], Samoa [175], Solomon Islands [179], Nauru [169]
Dem. People's Republic of Korea*	Indonesia [157, 158], Myanmar [167, 168], China [146, 147, 148, 149], Cambodia [145], Philippines [172]
Kiribati*	Tonga [187], Samoa [175], Solomon Islands [179], Nauru [169]
Lao People's Democratic Republic*	Indonesia [157, 158], Myanmar [167, 168], China [146, 147, 148, 149], Cambodia [145], Philippines [172]
Marshall Islands*	Tonga [187], Samoa [175], Solomon Islands [179], Nauru [169]
Federated States of Micronesia*	Tonga [187], Samoa [175], Solomon Islands [179], Nauru [169]
New Caledonia*	Tonga [187], Samoa [175], French Polynesia [154, 155], Guam [156]
Niue*	Tonga [187], Samoa [175], Fiji [153], Tokelau [186]
Palau*	Tonga [187], Samoa [175], Fiji [153], Tokelau [186]
Papua New Guinea*	Tonga [187], Indonesia [157, 158], Myanmar [167, 168], China [146, 147, 148, 149], Solomon Islands [179], Nauru [169], Philippines [172]
Timor-Leste*	Thailand [182, 183, 184, 185], Indonesia [157, 158], Myanmar [167, 168], China [146, 147, 148, 149], Viet Nam [188], Philippines [172]
Tuvalu*	Tonga [187], Samoa [175], Fiji [153], Tokelau [186]
Vanuatu*	Tonga [187], Samoa [175], Solomon Islands [179], Nauru [169]

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Table 1: Data sources used for diabetes prevalence estimates in 2015. The estimates derived from 188 sources for 220 countries and territories are presented below. Some country estimates presented in the report were based on extrapolation and marked with sign '\*'.

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