

Supplementary Table 1. Method used to calculate estimated numbers and incidence rates (see methods section of this manuscript for description of methodology) and the reference or source data.

<b>COUNTRY</b>	<b>METHOD*</b>	<b>REFERENCE OR SOURCE DATA</b>
<b>Eastern Europe</b>		
Belarus	4	Russia
Bulgaria	4	Russia
Czech Republic	4	Russia
Hungary	4	Russia
Moldova	4	Russia
Poland	4	Russia
Romania	4	Russia
Russian Federation	3	Razdlovsky, 1954 <sup>29</sup>
Slovakia	4	Russia
Ukraine	4	Russia
<b>Northern Europe</b>		
Denmark	2	Danish Cancer Registry, 2002 <sup>11</sup>
Estonia	2	Liigant et al., 2000 <sup>22</sup>
Finland	2	Finland Cancer Registry <sup>15</sup>
Iceland	2	Iceland Cancer Registry <sup>17</sup>
Ireland	1	National Cancer Registry Ireland <sup>25</sup>
Latvia	4	Estonia
Lithuania	4	Estonia
Norway	2	Cancer Registry of Norway <sup>10</sup>
Sweden	1	Swedish Cancer Registry <sup>36</sup> and Personal Communication
United Kingdom	5	Northern and Yorkshire Cancer Registry <sup>26</sup>
<b>Southern Europe</b>		
Albania	4	Croatia
Bosnia Herzegovina	4	Croatia
Croatia	5	Dobec-Meic et al., 2006 <sup>12</sup>

Greece	4	Croatia
Italy	5	Ferrari et al., 1985 <sup>14</sup>
Macedonia	4	Croatia
Malta	4	Italy
Portugal	4	Spain
Slovenia	1	Slovenia Cancer Registry <sup>34</sup>
Spain	5	Asturias Cancer Registry <sup>31</sup>
Serbia and Montenegro	4	Croatia

### **Western Europe**

Austria	4	France
Belgium	4	France
France	2	Elia-Pasquet et al., 2004 <sup>13</sup>
Germany	4	France
Luxembourg	4	France
The Netherlands	4	France
Switzerland	4	France

### **Eastern Africa**

Burundi	4	Kenya
Comoros	4	Kenya
Djibouti	4	Kenya
Eritrea	4	Kenya
Ethiopia	4	Kenya
Kenya	3	Mwang'ombe and Ombachi, 2000 <sup>24</sup>
Madagascar	4	Kenya
Malawi	4	Kenya
Mauritius	4	Kenya
Mozambique	4	Kenya
Rwanda	4	Kenya
Somalia	4	Kenya
Tanzania	4	Kenya
Uganda	4	Kenya

Zambia 4 Kenya

Zimbabwe 4 Kenya

### **Middle Africa**

Angola 4 Kenya

Cameroon 4 Kenya

Central African Republic 4 Kenya

Chad 4 Kenya

Congo Brazzaville 4 Kenya

Congo 4 Kenya

Equatorial Guinea 4 Kenya

Gabon 4 Kenya

### **Northern Africa**

Algeria 4 Morocco

Egypt 4 Morocco

Libya 4 Morocco

Morocco 3 Amarti et al., 2001<sup>8</sup>

Sudan 3 Abu-Salih and Abdul-Rahman, 1988<sup>7</sup>

Tunisia 4 Morocco

### **Southern Africa**

Botswana 4 Kenya

Lesotho 4 Kenya

Namibia 4 Kenya

South African Republic 4 Kenya

Swaziland 4 Kenya

### **Western Africa**

Benin 4 Nigeria

Burkina Faso 4 Nigeria

Cape Verde 4 Nigeria

Cape d'Ivoire 4 Nigeria

The Gambia 4 Nigeria

Ghana 3 Andrews et al., 2003<sup>9</sup>

Guinea-Bissau	4	Nigeria
Guinea	4	Nigeria
Liberia	4	Nigeria
Mali	4	Nigeria
Mauritania	4	Nigeria
Niger	4	Nigeria
Nigeria	3	Ohaegbulam et al., 1980 <sup>27</sup>
Senegal	4	Nigeria
Sierra Leone	4	Nigeria
Togo	4	Nigeria

### **Caribbean**

Bahamas	4	Trinidad and Tobago
Barbados	4	Trinidad and Tobago
Cuba	4	Trinidad and Tobago
Dominican Republic	4	Trinidad and Tobago
Haiti	4	Trinidad and Tobago
Jamaica	4	Trinidad and Tobago
Puerto Rico	4	Trinidad and Tobago
Trinidad and Tobago	3	Raju et al., 1984 <sup>30</sup>

### **Central America**

Belize	4	Mexico
Costa Rica	4	Mexico
El Salvador	4	Mexico
Guatemala	4	Mexico
Honduras	4	Mexico
Mexico	3	Lopez-Gonzalez and Sotelo, 2000 <sup>23</sup>
Nicaragua	4	Mexico
Panama	4	Mexico

### **South America**

Argentina	4	Mexico
Bolivia	4	Mexico

Brazil	4 Mexico
Chile	4 Mexico
Colombia	4 Mexico
Ecuador	4 Mexico
Guyana	4 Mexico
Paraguay	4 Mexico
Peru	4 Mexico
Suriname	4 Mexico
Uruguay	4 Mexico
Venezuela	4 Mexico

#### **North America**

Canada	5 Pirouzman and Sadanand, 2007 <sup>28</sup>
United States of America	5 CBTRUS, 2005 <sup>3</sup>

#### **Eastern Asia**

China	3 Wen-Qing et al., 1982 <sup>37</sup>
Japan	5 Kuratsu et al., 2001 <sup>20</sup>
Korea, Democratic Republic	4 Korea, Republic
Korea, Republic	3 Suh et al., 2002 <sup>35</sup>
Mongolia	4 China

#### **South-Eastern Asia**

Brunei Daressalam	4 China
Cambodia	4 China
Indonesia	4 China
Lao PDR	4 China
Malaysia	4 China
Myanmar	4 China
Philippines	4 China
Singapore	4 China
Thailand	3 Shuangshoti et al., 1969 <sup>33</sup>
Viet Nam	4 China

### **South Central Asia**

Afghanistan	4	Iran
Bangladesh	4	India
Bhutan	4	India
India	3	Lalitha et al., 1980 <sup>21</sup>
Iran	2	Sadjadi et al., 2003 <sup>32</sup>
Kazakhstan	4	Russia
Kyrgyzstan	4	Russia
Nepal	4	India
Pakistan	4	India
Sri Lanka	4	India
Tajikistan	4	Russia
Turkmenistan	4	Russia
Uzbekistan	4	Russia

### **Western Asia**

Armenia	4	Iran
Azerbaijan	4	Iran
Bahrain	4	Saudi Arabia
Cyprus	4	Israel non Jewish
Georgia	4	Russia
Iraq	4	Saudi Arabia
Israel	2	Israel National Cancer Registry <sup>18</sup>
Jordan	4	Israel non Jewish
Kuwait	4	Saudi Arabia
Lebanon	4	Israel non Jewish
Oman	4	Saudi Arabia
Qatar	4	Saudi Arabia
Saudi Arabia	5	Ibrahim, 1992 <sup>16</sup>
Syrian Arab Republic	4	Israel non Jewish
Turkey	4	Israel non Jewish
United Arab Emirates	4	Saudi Arabia

Yemen	4	Saudi Arabia
<b>Polynesia</b>		
Samoa	4	Sub-analysis of CBTRUS 1998-2002 data
<b>Micronesia</b>		
Guam	4	Sub-analysis of CBTRUS 1998-2002 data
<b>Melanesia</b>		
Fiji	4	Sub-analysis of CBTRUS 1998-2002 data
Papua New Guinea	4	Sub-analysis of CBTRUS 1998-2002 data
Solomon Islands	4	Sub-analysis of CBTRUS 1998-2002 data
Vanuatu	4	Sub-analysis of CBTRUS 1998-2002 data
Melanesia	4	Sub-analysis of CBTRUS 1998-2002 data
<b>Australia/New Zealand</b>		
Australia	1	Kaye et al., 1993 <sup>19</sup>
New Zealand	4	Australia

\*Methods to estimate the number of benign tumors (see Methods for more details):

1. A published benign incidence rate for the entire country was used.
2. Published incidence rates for all primary brain tumors minus the Globocan 2002 incidence rate for malignant tumors in that country was used to estimate the benign incidence rate.
3. Published frequencies of primarily benign and malignant histologies and total number of cases from Globocan were used to estimate the total number of all primary tumors. Malignant tumors were then subtracted from the estimated total of all tumors.
4. Published benign incidence rate data from a neighboring or ethnically similar country were applied.
5. Published regional benign incidence data were used.