

Supplementary Table 1: Registries included in each subregion and volume

| Region | 1988-1992 | 1993-1997 | 1998-2002 | 2003-2007 | 2008-2012 |
|---------------------------|-------------------------|-------------------------|-------------------------|----------------------------------|----------------------------------|
| Northern Africa | Algeria, Sétif | Algeria, Algiers | Algeria, Sétif | Algeria, Sétif | Algeria, Sétif |
| | | | Egypt, Gharbiah | Libya, Benghazi | Algeria, Batna |
| | | | Tunisia, Centre, Sousse | Egypt, Gharbiah | |
| | | | | Tunisia, North | |
| Sub-Saharan Africa | France, La Reunion | The Gambia | Zimbabwe, Harare | Malawi, Blantyre | Kenya, Nairobi |
| | Mali, Bamako | France, La Reunion | Uganda, Kyadondo County | South Africa, PROMEC | Seychelles |
| | Uganda, Kyadondo County | Mali, Bamako | | Uganda, Kyadondo County | South Africa, Eastern Cape |
| | Zimbabwe, Harare | Uganda, Kyadondo County | | Zimbabwe, Harare | Uganda, Kyadondo County |
| | | Zimbabwe, Harare | | | Zimbabwe, Harare |
| Caribbean | | Cuba, Villa Clara | France, La Martinique | Cuba, Villa Clara | France, Martinique |
| | | France, Martinique | | France, Martinique | Jamaica, Kingston and St. Andrew |
| | | USA, Puerto Rico | | Jamaica, Kingston and St. Andrew | USA, Puerto Rico |
| | | | | USA, Puerto Rico | |
| Central America | Costa Rica | Costa Rica | Costa Rica | Costa Rica | Costa Rica |
| South America | Argentina, Concordia | Argentina, Bahía Blanca | Argentina, Bahía Blanca | Argentina, Bahía Blanca | Argentina, Chaco |
| | Brazil, Belem | Argentina, Concordia | Brazil, Brasilia | Argentina, Córdoba | Argentina, Entre Rios Province |
| | Brazil, Goiânia | Brazil, Goiânia | Brazil, Cuiabá | Argentina, Mendoza | Argentina, Córdoba |
| | Brazil, Porto Alegre | Colombia, Cali | Brazil, Goiânia | Argentina, Tierra del Fuego | Argentina, Mendoza |
| | Colombia, Cali | Ecuador, Quito | Brazil, São Paulo | Brazil, Fortaleza | Argentina, Tierra del Fuego |
| | Ecuador, Quito | Uruguay, Montevideo | Chile, Valdivia | Brazil, Goiânia | Brazil, Aracaju |
| | Peru, Lima | | Colombia, Cali | Brazil, São Paulo | Brazil, Curitiba |
| | Peru, Trujillo | | Ecuador, Quito | Brazil, Cuiabá | Brazil, Florianopolis |

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|--------------------------|------------------------|-----------|----------------|---------------------------------|---|
| | Uruguay, Montevideo | | Peru, Trujillo | Brazil, Aracaju | Brazil, Goiânia |
| | | | | Brazil, Belo Horizonte | Brazil, Jau |
| | | | | Chile, Valdivia | Brazil, Pocos de Caldas |
| | | | | Chile, Bío Bío Province | Chile, Region of Antofagasta |
| | | | | Chile, Region of Antofagasta | Chile, Bío Bío Province |
| | | | | Colombia, Cali | Chile, Concepcion |
| | | | | Colombia, Bucaramanga | Chile, Valdivia |
| | | | | Colombia, Manizales | Colombia, Cali |
| | | | | Colombia, Pasto | Colombia, Bucaramanga |
| | | | | Ecuador, Quito | Colombia, Manizales |
| | | | | Brazil, Belo Horizonte | Colombia, Pasto |
| | | | | Ecuador, Cuenca | Ecuador, Cuenca |
| | | | | Uruguay | Argentina, Chaco |
| | | | | | Ecuador, Guayaquil |
| | | | | | Ecuador, Loja |
| | | | | | Ecuador, Manabi |
| | | | | | Ecuador, Quito |
| | | | | | French Guiana |
| | | | | | Peru, Lima |
| | | | | | Uruguay |
| North America | USA, SEER | USA, SEER | USA, SEER | USA, SEER | USA, SEER |
| | | | | | Canada, Alberta |
| | | | | | Canada, British Columbia |
| | | | | | Canada, Manitoba |
| | | | | | Canada, New Brunswick |
| | | | | | Canada, Newfoundland and Labrador |
| | | | | | Canada, Northwest Territories |

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|---------------------|----------------------------|----------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| | | | | | Canada, Nova Scotia |
| | | | | | Canada, Nunavut |
| | | | | | Canada, Ontario |
| | | | | | Canada, Prince Edward Island |
| | | | | | Canada, Saskatchewan |
| | | | | | Canada, Yukon |
| Eastern Asia | China, Hong Kong | China, Beijing | China, Guangzhou City | China, Beijing City | China, Anshan City |
| | China, Qidong County | China, Changle | China, Hong Kong | China, Qidong County | China, Beijing |
| | China, Shanghai | China, Cixian | China, Jiashan | China, Shanghai City | China, Benxi |
| | China, Tianjin | China, Hong Kong | China, Nangang District, Harbin City | China, Cixian County | China, Cixian County |
| | Japan, Hiroshima | China, Jiashan | China, Shanghai | China, Jiashan County | China, Guangzhou |
| | Japan, Miyagi Prefecture | China, Qidong County | China, Zhongshan | China, Wuhan City | China, Guanyun |
| | Japan, Nagasaki Prefecture | China, Shanghai | Japan, Aichi Prefecture | China, Zhongshan City | China, Haimen County |
| | Japan, Osaka Prefecture | China, Taiwan | Japan, Fukui Prefecture | China, Harbin City, Nangang District | China, Hangzhou City |
| | Japan, Saga Prefecture | China, Tianjin | Japan, Hiroshima | China, Yanting County | China, Harbin City, Nangang District |
| | Japan, Yamagata Prefecture | China, Wuhan | Japan, Miyagi Prefecture | China, Haining County | China, Hefei |
| | Korea, Kangwha County | Japan, Hiroshima | Japan, Nagasaki Prefecture | China, Jiaxing City | China, Hengdong |
| | | Japan, Miyagi Prefecture | Japan, Osaka Prefecture | China, Hong Kong | China, Hong Kong |
| | | Japan, Nagasaki Prefecture | Japan, Yamagata Prefecture | China, Yangcheng County | China, Huaiyin District, Huai'an |
| | | Japan, Osaka Prefecture | Korea | China, Macao | China, Jiangmen |
| | | Japan, Saga Prefecture | | Japan, Hiroshima | China, Jianhu County |
| | | Japan, Yamagata Prefecture | | Japan, Miyagi Prefecture | China, Jiashan County |

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| | | Japan, Nagasaki Prefecture | China, Jiaxing City |
| | Korea, Busan | | |
| | Korea, Daegu | Japan, Osaka Prefecture | China, Lianyungang |
| | Korea, Kangwha County | Japan, Saga Prefecture | China, Linzhou County |
| | Korea, Seoul | Japan, Niigata Prefecture | China, Liuzhou |
| | | Japan, Fukui Prefecture | China, Maanshan |
| | | Japan, Aichi Prefecture | China, Qidong County |
| | | Republic of Korea) | China, Shanghai City |
| | | | China, Shenyang |
| | | | China, Shexian County |
| | | | China, Sheyang |
| | | | China, Tongling City |
| | | | China, Wuhan City |
| | | | China, Wuxi |
| | | | China, Xianju |
| | | | China, Xiping |
| | | | China, Yanshi |
| | | | China, Yanting County |
| | | | China, Yueyanglou |
| | | | China, Zhongshan City |
| | | | China, Zhuhai |
| | | | Japan, Aichi Prefecture |
| | | | Japan, Fukui Prefecture |
| | | | Japan, Hiroshima Prefecture |
| | | | Japan, Miyagi Prefecture |

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| | | | | | Japan, Nagasaki Prefecture |
| | | | | | Japan, Niigata Prefecture |
| | | | | | Japan, Osaka Prefecture |
| | | | | | Japan, Tochigi Prefecture |
| | | | | | Japan, Yamagata Prefecture |
| | | | | | Republic of Korea |
| South-eastern Asia | Philippines, Manila | Philippines, Manila | Malaysia, Penang | Malaysia, Penang | Brunei Darussalam |
| | Singapore | Philippines, Rizal | Malaysia, Sarawak | Philippines, Manila | Malaysia, Penang |
| | Thailand, Chiang Mai | Singapore | Philippines, Manila | Philippines, Rizal | Philippines, Manila |
| | Thailand, Khon Kaen | Thailand, Bangkok | Singapore | Singapore | Philippines, Rizal |
| | Viet Nam, Hanoi | Thailand, Chiang Mai | Thailand, Chiang Mai | Thailand, Chiang Mai | Thailand, Bangkok |
| | | Thailand, Khon Kaen | Thailand, Lampang | Thailand, Khon Kaen | Thailand, Chiang Mai |
| | | Thailand, Lampang | Thailand, Songkhla | Thailand, Bangkok | Thailand, Chonburi |
| | | Thailand, Songkhla | | Thailand, Songkhla | Thailand, Khon Kaen |
| | | Viet Nam, Hanoi | | Thailand, Lampang | Thailand, Lampang |
| | | Viet Nam, Ho Chi Minh City | | Thailand, Chonburi | Thailand, Lopburi Province |
| | | | | | Thailand, Songkhla |
| | | | | | Viet Nam, Ho Chi Minh City |
| Southern Asia | India, Bangalore | India, Ahmedabad | India, Chennai (Madras) | India, Bangalore | India, Ahmedabad |
| | India, Barshi | India, Bangalore | India, New Delhi | India, Mumbai | India, Bangalore |
| | India, Mumbai (Bombay) | India, Chennai (Madras) | India, Karunagappally | India, Chennai | India; Barshi, Paranda, and Bhum |
| | India, Karunagappally | India, Delhi | India, Mumbai (Bombay) | India, Poona | India, Bhopal |
| | India, Chennai (Madras) | India, Karunagappally | India, Nagpur | India, Barshi, Paranda, and Bhum | India, Cachar |

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| | India, Trivandrum | India, Mumbai (Bombay) | India, Poona | India, Trivandrum | India, Chennai |
| | | India, Nagpur | India, Trivandrum | India, Karunagappally | India, Dindigul, Ambilikkai |
| | | India, Poona | | India, New Delhi | India, Kamrup Urban District |
| | | India, Trivandrum | | India, Dindigul, Ambilikkai | India, Kollam |
| | | | | India, Bhopal | India, Mizoram |
| | | | | India, Sikkim State | India, Mumbai |
| | | | | India, Mizoram | India, Poona |
| | | | | Iran (Islamic Republic of), Golestan Province | India, Sikkim State |
| | | | | | India, Tripura |
| | | | | | India, Trivandrum |
| | | | | | India, Wardha |
| | | | | | Iran (Islamic Republic of), Golestan Province |
| Western Asia | Israel | Israel | Bahrain: Bahraini | Bahrain: Bahraini | Bahrain: Bahraini |
| | Kuwait | Kuwait | Cyprus | Cyprus | Cyprus |
| | | Oman: Omani | Israel | Israel | Israel |
| | | Pakistan, South Karachi | Kuwait: Kuwaitis | Kuwait | Turkey, Antalya |
| | | | Kuwait: Non-Kuwaitis | Turkey, Izmir | Turkey, Bursa |
| | | | Oman: Omani | Turkey, Antalya | Turkey, Edirne |
| | | | Pakistan, South Karachi | Turkey, Edirne | Turkey, Erzurum |
| | | | Turkey, Antalya | Turkey, Trabzon | Turkey, Eskisehir |
| | | | Turkey, Izmir | Qatar: Qatari | Turkey, Izmir |
| | | | | Saudi Arabia, Riyadh: Saudi | Turkey, Samsun |
| | | | | | Turkey, Trabzon |
| | | | | | Kuwait |
| | | | | | Jordan: Jordanians |
| | | | | | Qatar: Qatari |

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| | | | | | Saudi Arabia, Riyadh: Saudi |
| Eastern Europe | Belarus | Belarus | Belarus | Belarus | Belarus |
| | Czech Republic | Czech Republic | Bulgaria | Bulgaria | Bulgaria |
| | Poland, Cracow | Poland, Cracow | Czech Republic | Czech Republic | Czech Republic |
| | Poland, Kielce | Poland, Kielce | Poland, Cracow | Poland, Cracow | Poland, Kielce |
| | Poland, Lower Silesia | Poland, Lower Silesia | Poland, Kielce | Poland, Lower Silesia) | Poland, Lower Silesia |
| | Poland, Warsaw city | Poland, Warsaw city | Poland, Warsaw City | Poland, Kielce | Poland, Lublin |
| | Slovakia | Russia, St Petersburg | Russia, St Petersburg | Poland, Podkarpackie | Poland, Podkarpackie |
| | | Slovakia | Slovak Republic | Russian Federation, Saint Petersburg | Poland, Poznan |
| | | | | Slovakia | Russian Federation, Arkhangelsk |
| | | | | Ukraine | Russian Federation, Chelyabinsk |
| | | | | | Russian Federation, Karelia |
| | | | | | Russian Federation, Samara |
| | | | | | Slovakia |
| | | | | | Ukraine |
| Northern Europe | Denmark | Denmark | Denmark | Denmark | Denmark |
| | Estonia | Estonia | Estonia | Estonia | Estonia |
| | Finland | Finland | Finland | Finland | Iceland |
| | Iceland | Iceland | Iceland | Iceland | Ireland |
| | Ireland, Southern | Ireland | Ireland | Ireland | Latvia |
| | Latvia | Latvia | Latvia | Latvia | Lithuania |
| | Norway | Lithuania | Lithuania | Lithuania | Norway |
| | Sweden | Norway | Norway | Norway | United Kingdom |
| | UK, England and Wales | Sweden | Sweden | Sweden | |
| | UK, Scotland | UK, England | UK, East of England Region | UK, England | |

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| | | UK, England, Merseyside and Cheshire | UK, Scotland | |
| | UK, Northern Ireland | | | |
| | UK, Scotland | UK, England, North Western | UK, Northern Ireland | |
| | | UK, England, Northern and Yorkshire | UK, Wales | |
| | | UK, England, Oxford Region | | |
| | | UK, England, South and Western Regions | | |
| | | UK, England, Thames | | |
| | | UK, England, Trent | | |
| | | UK, England, West Midlands | | |
| | | UK, Northern Ireland | | |
| | | UK, Scotland | | |
| Southern Europe | Croatia | Croatia | Croatia | Croatia |
| | Italy, Ferrara Province | Italy, Biella Province | Italy, Biella Province | Italy, Florence and Prato |
| | Italy, Florence | Italy, Ferrara Province | Italy, Brescia Province | Italy, Latina |
| | Italy, Genoa City | Italy, Florence | Italy, Ferrara Province | Italy, Varese |
| | Italy, Latina Province | Italy, Genoa Province | Italy, Florence and Prato | Italy, Parma |
| | Italy, Macerata Province | Italy, Liguria | Italy, Genoa Province | Italy, Ragusa |
| | Italy, Modena | Italy, Macerata Province | Italy, Macerata Province | Italy, Romagna |
| | Italy, Parma Province | Italy, Modena Province | Italy, Milan | Italy, Turin |
| | Italy, Ragusa | Italy, North East | Italy, Modena Province | Italy, Modena |
| | Italy, Romagna | Italy, Parma Province | Italy, Naples | Italy, Ferrara |
| | Italy, Torino | Italy, Ragusa Province | Italy, North East Cancer Surveillance Network | Italy, Veneto |
| | Italy, Trieste | Italy, Romagna | Italy, Parma Province | Italy, Umbria |
| | | | | Italy, Friuli-Venezia Giulia |

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|------------------------|-----------------------------|-------------------------------|------------------------------|---------------------------------|
| Italy, Varese Province | Italy, Sassari | Italy, Ragusa Province | Italy, Sassari | Italy, Latina |
| Italy, Venetian Region | Italy, Torino | Italy, Reggio Emilia Province | Italy, Naples | Italy, Lecco |
| Malta | Italy, Umbria | Italy, Romagna Region | Italy, Biella | Italy, Lombardy, South, Pavia |
| Slovenia | Italy, Varese Province | Italy, Salerno Province | Italy, Friuli-Venezia Giulia | Italy, Mantua |
| Spain, Albacete | Italy, Venetian Region | Italy, Sassari Province | Italy, Trento | Italy, Milan |
| Spain, Asturias | Malta | Italy, Syracuse Province | Italy, Mantua | Italy, Modena |
| Spain, Basque Country | Portugal, Vila Nova de Gaia | Italy, Sondrio | Italy, Genoa | Italy, Monza |
| Spain, Granada | Slovenia | Italy, Torino | Italy, Reggio Emilia | Italy, Naples |
| Spain, Mallorca | Spain, Albacete | Italy, Umbria Region | Italy, Brescia | Italy, Nuoro |
| Spain, Murcia | Spain, Asturias | Italy, Varese Province | Italy, Milan | Italy, Palermo |
| Spain, Navarra | Spain, Canary Islands | Italy, Veneto Region | Italy, Salerno | Italy, Parma |
| Spain, Tarragona | Spain, Cuenca | Malta | Italy, Sondrio | Italy, Piacenza |
| Spain, Zaragoza | Spain, Girona | Portugal, Porto | Italy, Syracuse | Italy, Ragusa and Caltanissetta |
| Yugoslavia, Vojvodina | Spain, Granada | Portugal, South Regional | Italy, Trapani | Italy, Reggio Emilia |
| | Spain, Mallorca | Serbia | Italy, Nuoro | Italy, Romagna |
| | Spain, Murcia | Slovenia | Italy, Catanzaro | Italy, Sassari |
| | Spain, Navarra | Spain, Albacete | Italy, Palermo | Italy, Sondrio |
| | Spain, Tarragona | Spain, Asturias | Italy, South Tyrol | Italy, South Tyrol |
| | Spain, Zaragoza | Spain, Basque Country | Italy, Catania and Messina | Italy, Syracuse |
| | Yugoslavia, Vojvodina | Spain, Canary Islands | Italy, Como | Italy, Taranto |
| | | Spain, Cuenca | Italy, Lecco | Italy, Trento |
| | | Spain, Girona | Italy, Lombardy, South | Italy, Turin |
| | | Spain, Granada | Malta | Italy, Umbria |
| | | Spain, Murcia | Portugal, Azores | Italy, Varese |
| | | Spain, Navarra | Serbia, Central | Italy, Veneto |
| | | Spain, Tarragona | Slovenia | Malta |
| | | Spain, Zaragoza | Spain, Tarragona | Portugal, Azores |

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| | | | | Spain, Granada | Slovenia |
| | | | | Spain, Murcia | Spain, Albacete |
| | | | | Spain, Navarra | Spain, Asturias |
| | | | | | Spain, Basque Country |
| | | | | Spain, Asturias | |
| | | | | Spain, Basque Country | Spain, Canary Islands |
| | | | | Spain, Mallorca | Spain, Castellón |
| | | | | Spain, Albacete | Spain, Ciudad Real |
| | | | | Spain, Girona | Spain, Cuenca |
| | | | | Spain, Canary Islands | Spain, Girona |
| | | | | Spain, Cuenca | Spain, Granada |
| | | | | Spain, La Rioja | Spain, La Rioja |
| | | | | Spain, Ciudad Real | Spain, Mallorca |
| | | | | | Spain, Murcia |
| | | | | | Spain, Navarra |
| | | | | | Spain, Tarragona |
| Western Europe | Austria, Tyrol | Austria, Tyrol | Austria | Austria | Austria |
| | France, Bas-Rhin | Austria, Vorarlberg | Belgium, Antwerp | Belgium | Belgium |
| | | Belgium, Flanders | | | |
| | France, Calvados | (excl. Limburg) | Belgium, Flanders | France, Bas-Rhin | France, Bas-Rhin |
| | France, Doubs | Belgium, Limburg | France, Bas-Rhin | France, Calvados | France, Calvados |
| | France, Haut-Rhin | France, Bas-Rhin | France, Calvados | France, Doubs | France, Doubs |
| | France, Hérault | France, Calvados | France, Doubs | France, Haut-Rhin | France, Gironde |
| | France, Isère | France, Cote d'Or | France, Haut-Rhin | France, Isère | France, Haut-Rhin |
| | France, Somme | France, Doubs | France, Hérault | France, Somme | France, Hérault |
| | France, Tarn | France, Haut-Rhin | France, Isère | France, Tarn | France, Isère |
| | Germany, Eastern States | France, Hérault | France, Loire-Atlantique | France, Hérault | France, Lille-Métropole |
| | Germany, Saarland | France, Isère | France, Manche | France, Loire-Atlantique | France, Limousin |
| | | | | | France, Loire-Atlantique |
| | The Netherlands | France, Manche | France, Somme | France, Manche | |
| | Switzerland, Basel | France, Somme | France, Tarn | France, Vendée | France, Manche |
| | Switzerland, Geneva | France, Tarn | France, Vendée | Germany, Hamburg | France, Somme |
| | Switzerland, Graubünden | Germany, Saarland | Germany, Brandenburg | Germany, Munich | France, Tarn |

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| Switzerland, Neuchâtel | The Netherlands | Germany, Free State of Saxony | Germany, North Rhine-Westphalia | France, Territoire de Belfort |
| Switzerland, St Gall-Appenzell | Switzerland, Basel | Germany, Hamburg | Germany, Bremen | France, Vendée |
| Switzerland, Valais | Switzerland, Geneva | Germany, Mecklenburg-Western Pomerania | Germany, Schleswig-Holstein | Germany, Bavaria |
| Switzerland, Vaud | Graubünden and Glarus | Germany, Munich | Germany, Brandenburg | Germany, Bremen |
| Switzerland, Zurich | Switzerland, Neuchâtel | Germany, Northrhine-Westphalia: Munster | Germany, Mecklenburg-Western Pomerania | Germany, Hamburg |
| | Switzerland, St Gall-Appenzell | Germany, Saarland | Germany, Free State of Saxony | Germany, Lower Saxony |
| | Switzerland, Ticino | The Netherlands | Germany, Saarland | Germany, Munich |
| | Switzerland, Valais | Switzerland, Geneva | The Netherlands | Germany, North Rhine-Westphalia |
| | Switzerland, Vaud | Switzerland, Graubünden and Glarus | Switzerland, Basel | Germany, Rhineland-Palatinate |
| | Switzerland, Zurich | Switzerland, Neuchâtel | Switzerland, Geneva | Germany, Saarland |
| | | Switzerland, St Gall-Appenzell | Switzerland, Neuchâtel | Germany, Schleswig-Holstein |
| | | Switzerland, Ticino | Switzerland, St Gall-Appenzell | The Netherlands |
| | | Switzerland, Valais | Switzerland, Vaud | Switzerland, Fribourg |
| | | Switzerland, Vaud | Switzerland, Zurich | Switzerland, Geneva |
| | | | | Switzerland, Graubünden and Glarus |
| | | | Switzerland, Valais | |
| | | | Switzerland, Ticino | Switzerland, Neuchâtel |
| | | | Switzerland, Graubünden and Glarus | Switzerland, St Gall-Appenzell |
| | | | | Switzerland, Ticino |
| | | | | Switzerland, Valais |
| | | | | Switzerland, Vaud |
| | | | | Switzerland, Zurich |

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|----------------|----------------------------|-------------------------------|-------------------------------|-------------------------------|---------------|
| Oceania | Australia, New South Wales | Australia, Capital Territory | Australia, New South Wales | Australia, New South Wales | Australia |
| | Australia, South | Australia, New South Wales | Australia, Northern Territory | Australia, Queensland | New Caledonia |
| | Australia, Tasmania | Australia, Northern Territory | Australia, Queensland | South Australia | New Zealand |
| | Australia, Victoria | Australia, Queensland | Australia, South | Australia, Tasmania | |
| | Australia, Western | Australia, South | Australia, Tasmania | Australia, Victoria | |
| | France, French Polynesia | Australia, Tasmania | Australia, Victoria | Western Australia | |
| | New Zealand | Australia, Victoria | Australia, Western | Australia, Northern Territory | |
| | | Australia, Western | Australian Capital Territory | New Zealand | |
| | | New Zealand | French Polynesia | | |
| | | | New Zealand | | |

Supplementary Table 2: Estimated average annual percent change (AAPC) and incidence (per million) of pediatric cancer by Human Development Index (HDI) level changes from 1990 to 2012

| Cancer | HDI Change** | Year of Diagnosis | | | | | AAPC |
|-------------------------------------|---------------------|-------------------|-----------|-----------|-----------|-----------|-----------------------------|
| | | 1988-1992 | 1993-1997 | 1998-2002 | 2003-2007 | 2008-2012 | (95% CI) |
| Acute Lymphoblastic Leukemia | Low to Medium | 21.2 | 22.2 | 27.5 | 15.7 | 21.4 | -0.76 (-3.66, 2.23) |
| | Low/Medium to High | 29.9 | 33.5 | 43.4 | 38.6 | 42.5 | 1.44 (0.24, 2.65) |
| | Medium to Very High | 22.8 | 38.2 | 43.9 | 51.2 | 56.3 | 3.84 (2.28, 5.41) |
| Acute Myeloid Leukemia | Low to Medium | 4.4 | 4.6 | 3.5 | 4.9 | 4.5 | 0.33 (-1.52, 2.21) |
| | Low/Medium to High | 8.1 | 6.9 | 9.5 | 8.2 | 9.5 | 1.01 (-0.39, 2.43) |
| | Medium to Very High | 3.4 | 4.7 | 5.0 | 6.9 | 8.1 | 4.29 (3.47, 5.11) |
| Non-Hodgkin Lymphoma | Low to Medium | 6.1 | 6.7 | 8.0 | 6.9 | 4.2 | -1.63 (-4.65, 1.49) |
| | Low/Medium to High | 10.6 | 10.3 | 12.3 | 10.6 | 8.6 | -1.12 (-2.74, 0.53) |
| | Medium to Very High | 9.8 | 7.7 | 9.4 | 7.2 | 8.9 | -0.49 (-2.20, 1.25) |
| Ependymal Tumors | Low to Medium | 0.6 | 0.6 | 0.8 | 1.1 | 1.1 | 3.87 (1.70, 6.09) |
| | Low/Medium to High | 0.7 | 1.0 | 3.1 | 2.0 | 2.5 | 4.13 (-1.29, 9.82) |
| | Medium to Very High | * | * | 1.9 | 3.9 | 4.3 | 13.43 (4.39, 23.26) |
| Astrocytic Tumors | Low to Medium | 2.5 | 2.9 | 2.8 | 2.1 | 1.6 | -2.74 (-4.91, -0.51) |
| | Low/Medium to High | 2.7 | 3.9 | 3.9 | 3.6 | 3.1 | -0.17 (-2.10, 1.80) |
| | Medium to Very High | 3.4 | 2.4 | 3.3 | 4.6 | 6.0 | 3.93 (1.35, 6.56) |
| Medulloblastoma | Low to Medium | 3.4 | 1.9 | 2.7 | 2.8 | 1.8 | -1.36 (-4.87, 2.29) |
| | Low/Medium to High | 1.8 | 2.8 | 2.5 | 2.7 | 3.8 | 3.12 (1.16, 5.12) |
| | Medium to Very High | 3.6 | 2.4 | 5.4 | 6.4 | 6.8 | 4.36 (1.52, 7.27) |
| Neuroblastoma | Low to Medium | 4.6 | 6.5 | 5.1 | 4.7 | 2.7 | -3.08 (-6.12, 0.05) |
| | Low/Medium to High | 1.9 | 4.7 | 11.4 | 8.1 | 7.6 | 3.14 (-2.82, 9.47) |
| | Medium to Very High | 2.2 | 2.6 | 5.7 | 7.4 | 10.5 | 8.26 (6.44, 10.11) |
| Retinoblastoma | Low to Medium | 9.1 | 10.6 | 7.6 | 8.7 | 6.6 | -1.92 (-3.68, -0.14) |
| | Low/Medium to High | 6.8 | 6.8 | 12.1 | 8.8 | 8.8 | 0.85 (-2.03, 3.82) |
| | Medium to Very High | 6.7 | 2.6 | 7.5 | 10.8 | 9.5 | 3.31 (-1.38, 8.23) |
| Kidney Tumors | Low to Medium | 8.1 | 8.6 | 10.2 | 9.5 | 9.6 | 0.70 (-0.22, 1.63) |
| | Low/Medium to High | 8.5 | 10.3 | 15.0 | 12.9 | 12.3 | 1.21 (-1.00, 3.46) |
| | Medium to Very High | 19.2 | 13.9 | 17.6 | 15.7 | 17.8 | -0.05 (-1.58, 1.50) |

| | | | | | | | |
|------------------------|---------------------|-----|-----|-----|-----|-----|-----------------------------|
| Hepatoblastoma | Low to Medium | 2.9 | 1.8 | 1.6 | 2.0 | 1.7 | -1.58 (-4.00, 0.90) |
| | Low/Medium to High | 0.8 | 1.8 | 2.2 | 2.9 | 3.9 | 6.64 (4.92, 8.38) |
| | Medium to Very High | 1.5 | * | 2.3 | 3.7 | 5.2 | 9.35 (2.93, 16.16) |
| Testicular Germ | Low to Medium | 2.2 | 2.4 | 2.1 | 1.9 | 1.3 | -2.88 (-4.69, -1.05) |
| Cell Tumors | Low/Medium to High | 3.7 | 2.9 | 2.2 | 3.8 | 4.0 | 1.42 (-1.49, 4.40) |
| | Medium to Very High | * | 1.3 | 2.9 | 3.0 | 2.8 | 5.45 (0.97, 10.12) |

* Rates were not calculated for time periods with less than five cases.

**4 countries moved from low to medium HDI, 17 countries moved from low or medium to high HDI, 5 countries moved from medium to very high HDI

AAPCs in bold are statistically significant

Supplementary Table 3: Incidence rates (per million) of acute lymphoblastic leukemia by region, sex, and year of diagnosis

| Region | Sex | Year of Diagnosis | | | | | AAPC (95% CI) |
|---------------------------|------------|-------------------|-----------|-----------|-----------|-----------|----------------------|
| | | 1988-1992 | 1993-1997 | 1998-2002 | 2003-2007 | 2008-2012 | |
| Northern Africa | Male | - | 15.5 | 31.3 | 18.1 | 17.3 | 0.53 (-6.26, 7.80) |
| | Female | - | 16.0 | 24.3 | 16.1 | 12.8 | 1.94 (-7.82, 12.74) |
| | Both sexes | - | 15.8 | 27.9 | 17.1 | 15.1 | 1.13 (-6.35, 9.21) |
| Sub-Saharan Africa | Male | 6.5 | 5.8 | - | - | 6.9 | 0.21 (-9.79, 11.31) |
| | Female | 8.6 | - | - | - | 6.5 | 0.36 (-8.36, 9.91) |
| | Both sexes | 7.6 | 3.9 | 2.2 | 1.5 | 6.7 | 0.28 (-8.21, 9.57) |
| Caribbean | Male | - | 19.5 | 53.3 | 31.1 | 48.3 | 4.83 (-1.64, 11.71) |
| | Female | - | 33.3 | - | 24.9 | 50.4 | 4.01 (-5.01, 13.90) |
| | Both sexes | - | 26.3 | 32.5 | 28.1 | 49.3 | 4.44 (-0.43, 9.55) |
| Central America | Male | 67.9 | 70.0 | 66.0 | 61.5 | 95.4 | 1.14 (-1.04, 3.38) |
| | Female | 51.1 | 55.8 | 43.5 | 69.0 | 69.7 | 1.82 (-0.45, 4.14) |
| | Both sexes | 59.6 | 63.1 | 55.0 | 65.2 | 82.9 | 1.44 (-0.20, 3.10) |
| South America | Male | 33.8 | 50.7 | 50.5 | 42.6 | 54.6 | 1.51 (-0.54, 3.60) |
| | Female | 28.9 | 41.5 | 38.7 | 38.9 | 53.1 | 2.66 (0.89, 4.47) |
| | Both sexes | 31.4 | 46.2 | 44.7 | 40.7 | 53.9 | 2.03 (0.18, 3.92) |
| North America | Male | 64.2 | 62.4 | 69.3 | 71.3 | 48.8 | -0.93 (-3.07, 1.26) |
| | Female | 59.6 | 56.7 | 56.1 | 56.6 | 46.7 | -1.01 (-1.87, -0.13) |
| | Both sexes | 62.0 | 59.6 | 62.9 | 64.1 | 47.8 | -0.96 (-2.53, 0.62) |
| Eastern Asia | Male | 33.6 | 34.5 | 38.8 | 45.8 | 42.3 | 1.37 (0.33, 2.41) |
| | Female | 29.0 | 29.3 | 32.4 | 39.0 | 33.6 | 1.01 (-0.35, 2.38) |
| | Both sexes | 31.4 | 32.0 | 35.8 | 42.6 | 38.1 | 1.21 (0.04, 2.39) |
| South-eastern Asia | Male | 35.9 | 38.3 | 48.4 | 54.4 | 47.7 | 1.67 (0.11, 3.27) |
| | Female | 27.7 | 28.2 | 40.0 | 35.1 | 33.9 | 1.09 (-0.59, 2.81) |
| | Both sexes | 32.0 | 33.4 | 44.3 | 45.1 | 41.0 | 1.44 (-0.05, 2.96) |
| Southern Asia | Male | 27.4 | 27.3 | 32.1 | 16.0 | 25.1 | -1.43 (-4.88, 2.15) |
| | Female | 16.6 | 19.6 | 22.3 | 13.3 | 17.3 | -0.85 (-3.58, 1.96) |
| | Both sexes | 22.0 | 23.6 | 27.5 | 14.7 | 21.3 | -1.18 (-4.30, 2.05) |
| Western Asia | Male | 27.3 | 22.3 | 44.2 | 55.0 | 52.6 | 3.77 (0.92, 6.69) |
| | Female | 22.6 | 21.5 | 33.4 | 40.8 | 42.5 | 3.54 (1.93, 5.18) |
| | Both sexes | 25.0 | 21.9 | 39.0 | 48.0 | 47.7 | 3.68 (1.37, 6.03) |
| Eastern Europe | Male | 39.0 | 41.3 | 51.0 | 55.4 | 55.8 | 1.88 (1.13, 2.64) |
| | Female | 29.8 | 38.2 | 42.5 | 45.3 | 45.3 | 2.02 (1.25, 2.81) |
| | Both sexes | 34.5 | 39.8 | 46.9 | 50.5 | 50.5 | 1.95 (1.29, 2.61) |

| | | | | | | | |
|------------------------|------------|------|------|------|------|------|--------------------|
| Northern Europe | Male | 55.7 | 61.3 | 59.9 | 62.5 | 62.9 | 0.48 (0.09, 0.87) |
| | Female | 53.3 | 52.4 | 54.3 | 56.1 | 53.8 | 0.19 (-0.14, 0.52) |
| | Both sexes | 54.5 | 56.9 | 57.2 | 59.4 | 58.4 | 0.35 (0.12, 0.57) |
| Southern Europe | Male | 54.9 | 58.5 | 63.5 | 60.2 | 61.0 | 0.37 (-0.23, 0.98) |
| | Female | 41.5 | 46.2 | 54.4 | 51.9 | 52.4 | 0.97 (-0.01, 1.96) |
| | Both sexes | 48.4 | 52.5 | 59.1 | 56.1 | 56.8 | 0.64 (-0.13, 1.41) |
| Western Europe | Male | 41.9 | 58.2 | 55.8 | 63.1 | 61.4 | 1.38 (0.20, 2.58) |
| | Female | 43.7 | 45.7 | 45.6 | 59.0 | 55.7 | 1.47 (0.36, 2.59) |
| | Both sexes | 42.8 | 52.1 | 50.9 | 61.1 | 58.6 | 1.42 (0.49, 2.37) |
| Oceania | Male | 66.9 | 62.1 | 71.1 | 74.2 | 74.3 | 0.80 (0.16, 1.44) |
| | Female | 54.2 | 64.0 | 56.0 | 68.2 | 62.8 | 0.65 (-0.48, 1.78) |
| | Both sexes | 60.7 | 63.0 | 63.7 | 71.3 | 68.7 | 0.73 (0.27, 1.19) |

* Rates were not calculated for time periods with less than five cases.

- Denotes time periods without data.

Supplementary Table 4: Incidence rates (per million) of acute myeloid leukemia by region, sex, and year of diagnosis

| Region | Sex | Year of Diagnosis | | | | | AAPC (95% CI) |
|---------------------------|------------|-------------------|-----------|-----------|-----------|-----------|-----------------------|
| | | 1988-1992 | 1993-1997 | 1998-2002 | 2003-2007 | 2008-2012 | |
| Northern Africa | Male | * | * | * | 3.2 | * | 2.54 (-5.91, 11.75) |
| | Female | * | * | * | 5.7 | * | 1.94 (-4.09, 8.36) |
| | Both sexes | * | * | 2.3 | 4.4 | 4.4 | 2.18 (-2.67, 7.27) |
| Sub-Saharan Africa | Male | * | * | 4.5 | * | * | -4.26 (-16.18, 9.36) |
| | Female | * | * | * | * | * | -2.45 (-10.16, 5.92) |
| | Both sexes | 3.8 | * | 3.1 | 1.5 | 1.2 | -3.49 (-12.01, 5.86) |
| Caribbean | Male | - | * | * | * | * | -3.23 (-15.64, 11.00) |
| | Female | - | * | * | * | 8.6 | 9.06 (3.13, 15.32) |
| | Both sexes | - | * | * | 3.7 | 6.3 | 2.28 (-7.67, 13.30) |
| Central America | Male | 9.0 | * | 12.8 | 9.5 | 11.1 | 1.03 (-1.49, 3.62) |
| | Female | 9.4 | 12.7 | 7.2 | 7.8 | * | -2.35 (-4.67, 0.04) |
| | Both sexes | 9.2 | 9.9 | 10.1 | 8.7 | 8.5 | -0.45 (-1.39, 0.49) |
| South America | Male | 5.9 | 10.4 | 13.0 | 9.7 | 11.7 | 1.70 (-1.44, 4.95) |
| | Female | 6.6 | 7.9 | 8.5 | 9.5 | 9.5 | 1.62 (0.84, 2.39) |
| | Both sexes | 6.3 | 9.2 | 10.8 | 9.6 | 10.6 | 1.66 (-0.19, 3.55) |
| North America | Male | 7.8 | 9.2 | 10.6 | 10.1 | 11.6 | 1.62 (0.72, 2.53) |
| | Female | 8.8 | 10.1 | 8.7 | 9.5 | 11.5 | 1.21 (-0.18, 2.62) |
| | Both sexes | 8.3 | 9.6 | 9.7 | 9.8 | 11.6 | 1.42 (0.68, 2.16) |
| Eastern Asia | Male | 9.3 | 8.9 | 11.2 | 11.9 | 13.6 | 2.25 (1.55, 2.96) |
| | Female | 8.7 | 9.2 | 9.4 | 11.5 | 12.5 | 2.09 (1.44, 2.74) |
| | Both sexes | 9.0 | 9.0 | 10.3 | 11.7 | 13.0 | 2.17 (1.74, 2.61) |
| South-eastern Asia | Male | 7.8 | 11.1 | 15.3 | 10.1 | 11.2 | 0.52 (-2.28, 3.40) |
| | Female | 14.2 | 8.7 | 8.8 | 10.5 | 11.0 | -0.03 (-2.58, 2.59) |
| | Both sexes | 10.9 | 9.9 | 12.1 | 10.3 | 11.1 | 0.27 (-0.80, 1.34) |
| Southern Asia | Male | 4.8 | 5.2 | 4.5 | 5.9 | 4.2 | -0.31 (-2.40, 1.83) |
| | Female | 3.9 | 3.5 | 2.6 | 3.8 | 4.2 | 0.89 (-1.58, 3.42) |
| | Both sexes | 4.4 | 4.4 | 3.6 | 4.9 | 4.2 | 0.20 (-1.53, 1.95) |
| Western Asia | Male | 3.4 | 5.9 | 6.7 | 8.5 | 9.4 | 3.91 (2.54, 5.30) |
| | Female | 4.2 | 2.9 | 6.3 | 8.8 | 8.1 | 4.30 (0.81, 7.91) |
| | Both sexes | 3.8 | 4.5 | 6.5 | 8.7 | 8.8 | 4.09 (2.33, 5.88) |
| Eastern Europe | Male | 4.6 | 6.4 | 6.2 | 8.8 | 8.1 | 2.57 (0.85, 4.32) |
| | Female | 5.8 | 4.5 | 4.6 | 6.3 | 7.5 | 2.05 (0.10, 4.04) |
| | Both sexes | 5.2 | 5.4 | 5.5 | 7.6 | 7.8 | 2.34 (1.30, 3.39) |

| | | | | | | | |
|------------------------|------------|------|------|------|------|------|---------------------|
| Northern Europe | Male | 9.5 | 8.1 | 9.3 | 9.6 | 10.3 | 0.79 (-0.19, 1.78) |
| | Female | 8.5 | 10.1 | 10.2 | 12.6 | 9.3 | 0.77 (-1.21, 2.78) |
| | Both sexes | 9.0 | 9.1 | 9.7 | 11.1 | 9.8 | 0.78 (-0.13, 1.69) |
| Southern Europe | Male | 8.0 | 6.4 | 7.8 | 8.1 | 8.8 | 0.97 (-0.23, 2.18) |
| | Female | 8.1 | 7.7 | 7.9 | 8.2 | 12.3 | 2.37 (0.13, 4.66) |
| | Both sexes | 8.0 | 7.0 | 7.9 | 8.2 | 10.5 | 1.68 (0.20, 3.19) |
| Western Europe | Male | 8.8 | 11.4 | 9.0 | 9.9 | 10.1 | 0.25 (-0.98, 1.50) |
| | Female | 7.1 | 8.7 | 9.5 | 8.8 | 10.6 | 1.60 (0.61, 2.61) |
| | Both sexes | 8.0 | 10.1 | 9.2 | 9.4 | 10.3 | 0.88 (0.00, 1.77) |
| Oceania | Male | 14.1 | 10.6 | 10.3 | 13.0 | 15.4 | 1.03 (-1.30, 3.40) |
| | Female | 11.4 | 9.1 | 10.1 | 10.3 | 10.5 | -0.02 (-1.14, 1.10) |
| | Both sexes | 12.8 | 9.8 | 10.2 | 11.7 | 13.0 | 0.57 (-0.13, 1.41) |

* Rates were not calculated for time periods with less than five cases.

- Denotes time periods without data.

Supplementary Table 5: Incidence rates (per million) of non-Hodgkin lymphoma by region, sex, and year of diagnosis

| Region | Sex | Year of Diagnosis | | | | | AAPC (95% CI) |
|---------------------------|------------|-------------------|-----------|-----------|-----------|-----------|-----------------------|
| | | 1988-1992 | 1993-1997 | 1998-2002 | 2003-2007 | 2008-2012 | |
| Northern Africa | Male | 16.3 | 9.7 | 24.6 | 20.3 | 13.8 | 0.62 (-4.51, 6.03) |
| | Female | * | * | 9.4 | 13.3 | * | 3.20 (-5.53, 12.73) |
| | Both sexes | 10.7 | 6.9 | 17.2 | 16.9 | 8.9 | 1.41 (-4.38, 7.56) |
| Sub-Saharan Africa | Male | * | * | 4.5 | * | * | -0.08 (-7.92, 8.42) |
| | Female | * | * | * | * | * | 0.70 (-7.89, 10.10) |
| | Both sexes | 3.8 | * | 3.1 | 1.5 | 1.2 | 0.26 (-7.83, 9.06) |
| Caribbean | Male | - | * | 37.3 | 7.3 | 6.9 | -2.01 (-18.35, 17.60) |
| | Female | - | * | * | * | * | 1.08 (-10.84, 14.60) |
| | Both sexes | - | * | 24.4 | 5.3 | 5.6 | -1.09 (-16.23, 16.77) |
| Central America | Male | 22.0 | 16.9 | 7.9 | 13.8 | 13.8 | -2.85 (-7.08, 1.57) |
| | Female | * | 12.7 | * | 6.7 | * | -0.40 (-8.25, 8.12) |
| | Both sexes | 12.7 | 14.8 | 6.1 | 10.3 | 8.5 | -2.24 (-6.00, 1.68) |
| South America | Male | 14.2 | 14.6 | 18.0 | 17.3 | 14.4 | -0.06 (-1.83, 1.73) |
| | Female | 8.5 | 13.6 | 13.2 | 9.0 | 7.5 | -1.89 (-5.11, 1.43) |
| | Both sexes | 11.4 | 14.1 | 15.6 | 13.2 | 11.0 | -0.76 (-2.86, 1.40) |
| North America | Male | 9.9 | 10.5 | 9.0 | 9.8 | 13.2 | 1.44 (-0.58, 3.51) |
| | Female | 6.0 | 5.0 | 5.9 | 5.7 | 8.5 | 2.13 (-0.22, 4.54) |
| | Both sexes | 8.0 | 7.8 | 7.5 | 7.8 | 10.9 | 1.69 (-0.33, 3.75) |
| Eastern Asia | Male | 14.6 | 12.0 | 12.2 | 12.1 | 14.1 | 0.29 (-1.02, 1.62) |
| | Female | 7.9 | 8.6 | 7.5 | 6.6 | 11.1 | 1.62 (-1.35, 4.68) |
| | Both sexes | 11.3 | 10.4 | 9.9 | 9.5 | 12.6 | 0.79 (-0.98, 2.59) |
| South-eastern Asia | Male | 11.3 | 11.1 | 8.9 | 7.3 | 8.6 | -1.93 (-3.42, -0.42) |
| | Female | 5.6 | 7.2 | 7.9 | 4.7 | 5.0 | -1.86 (-4.49, 0.84) |
| | Both sexes | 8.5 | 9.2 | 8.4 | 6.0 | 6.8 | -1.90 (-3.45, -0.33) |
| Southern Asia | Male | 6.5 | 7.8 | 8.4 | 6.4 | 4.8 | -1.90 (-4.29, 0.54) |
| | Female | 3.2 | 3.2 | 4.2 | 3.2 | 3.1 | -0.29 (-2.19, 1.65) |
| | Both sexes | 4.9 | 5.6 | 6.4 | 4.9 | 4.0 | -1.35 (-3.51, 0.86) |
| Western Asia | Male | 15.9 | 19.9 | 12.5 | 12.1 | 13.9 | -1.35 (-3.65, 1.00) |
| | Female | 14.3 | 16.0 | 6.3 | 7.6 | 7.6 | -3.73 (-7.39, 0.08) |
| | Both sexes | 15.1 | 18.0 | 9.5 | 9.9 | 10.8 | -2.26 (-5.06, 0.62) |
| Eastern Europe | Male | 14.1 | 11.4 | 11.7 | 9.4 | 10.9 | -1.27 (-2.60, 0.08) |
| | Female | 7.2 | 7.7 | 5.3 | 6.1 | 5.6 | -1.43 (-2.63, -0.20) |
| | Both sexes | 10.7 | 9.6 | 8.6 | 7.8 | 8.3 | -1.32 (-2.13, -0.49) |

| | | | | | | | |
|------------------------|------------|------|------|------|------|------|---------------------|
| Northern Europe | Male | 11.5 | 9.9 | 9.7 | 9.5 | 10.6 | -0.36 (-1.39, 0.69) |
| | Female | 6.4 | 5.3 | 4.9 | 4.7 | 5.6 | -0.78 (-2.30, 0.77) |
| | Both sexes | 9.0 | 7.7 | 7.4 | 7.2 | 8.2 | -0.49 (-1.69, 0.72) |
| Southern Europe | Male | 14.6 | 14.9 | 16.3 | 16.3 | 13.5 | -0.27 (-1.52, 1.00) |
| | Female | 8.5 | 10.3 | 10.8 | 8.2 | 9.1 | -0.35 (-2.13, 1.46) |
| | Both sexes | 11.6 | 12.7 | 13.6 | 12.4 | 11.4 | -0.30 (-1.37, 0.79) |
| Western Europe | Male | 15.2 | 14.8 | 11.8 | 10.3 | 13.3 | -0.85 (-2.75, 1.09) |
| | Female | 7.9 | 7.8 | 5.6 | 5.8 | 7.6 | -0.21 (-2.59, 2.23) |
| | Both sexes | 11.6 | 11.4 | 8.8 | 8.1 | 10.5 | -0.63 (-2.67, 1.45) |
| Oceania | Male | 12.9 | 12.8 | 7.6 | 9.0 | 15.0 | 0.32 (-3.57, 4.37) |
| | Female | 9.8 | 6.0 | 3.4 | 3.9 | 5.6 | -3.25 (-7.63, 1.34) |
| | Both sexes | 11.4 | 9.5 | 5.6 | 6.5 | 10.4 | -0.82 (-4.83, 3.37) |

* Rates were not calculated for time periods with less than five cases.

- Denotes time periods without data.

Supplementary Table 6: Incidence rates (per million) of ependymal tumors by region, sex, and year of diagnosis

| Region | Sex | Year of Diagnosis | | | | | AAPC (95% CI) |
|---------------------------|------------|-------------------|-----------|-----------|-----------|-----------|-----------------------|
| | | 1988-1992 | 1993-1997 | 1998-2002 | 2003-2007 | 2008-2012 | |
| Northern Africa | Male | * | * | * | * | * | 1.91 (-15.67, 23.15) |
| | Female | * | * | * | 2.4 | * | 1.94 (-12.01, 18.11) |
| | Both sexes | * | * | * | 1.6 | * | 1.93 (-11.88, 17.89) |
| Sub-Saharan Africa | Male | * | * | * | * | * | -4.26 (-12.65, 4.94) |
| | Female | * | * | * | * | * | 16.96 (-3.98, 42.45) |
| | Both sexes | * | * | * | * | * | 0.58 (-8.75, 10.87) |
| Caribbean | Male | - | * | * | * | * | -10.54 (-20.44, 0.59) |
| | Female | - | * | * | * | * | -2.63 (-6.04, 0.90) |
| | Both sexes | - | 6.6 | * | 3.7 | * | -6.47 (-10.15, -2.63) |
| Central America | Male | * | * | * | * | * | 2.26 (-2.60, 7.36) |
| | Female | * | * | * | * | * | 5.07 (3.65, 6.50) |
| | Both sexes | 2.5 | * | 4.0 | 3.3 | 5.7 | 3.67 (0.95, 6.47) |
| South America | Male | * | * | 3.2 | 3.3 | 4.2 | 6.19 (1.57, 11.02) |
| | Female | * | * | 3.1 | 2.0 | 2.8 | 2.19 (-2.62, 7.24) |
| | Both sexes | * | 2.5 | 3.2 | 2.7 | 3.5 | 4.35 (-0.06, 8.95) |
| North America | Male | 6.5 | 6.0 | 3.6 | 4.5 | 5.2 | -1.13 (-4.14, 1.97) |
| | Female | 4.0 | 2.9 | 4.2 | 3.9 | 4.8 | 1.40 (-0.58, 3.42) |
| | Both sexes | 5.3 | 4.5 | 3.9 | 4.2 | 5.0 | -0.04 (-1.98, 1.94) |
| Eastern Asia | Male | * | 2.5 | 3.1 | 2.9 | 2.2 | 1.78 (-4.17, 8.10) |
| | Female | 1.5 | 2.1 | 3.2 | 2.9 | 2.9 | 2.39 (-0.21, 5.05) |
| | Both sexes | 0.9 | 2.3 | 3.1 | 2.9 | 2.5 | 2.09 (-1.95, 6.29) |
| South-eastern Asia | Male | * | * | 1.6 | 0.9 | 1.0 | 4.89 (-3.07, 13.51) |
| | Female | * | * | * | 1.5 | 0.8 | 7.12 (-3.74, 19.21) |
| | Both sexes | * | 0.4 | 1.0 | 1.2 | 0.9 | 5.86 (-0.32, 12.43) |
| Southern Asia | Male | * | 0.7 | 0.9 | 1.1 | 1.6 | 4.66 (2.23, 7.14) |
| | Female | * | 0.6 | * | 1.0 | 0.9 | 3.89 (1.03, 6.83) |
| | Both sexes | 0.6 | 0.6 | 0.7 | 1.0 | 1.3 | 4.37 (3.08, 5.68) |
| Western Asia | Male | * | 2.4 | 5.3 | 4.2 | 3.4 | 2.10 (-4.38, 9.02) |
| | Female | * | 2.6 | 1.5 | 4.0 | 3.5 | 3.19 (-1.58, 8.19) |
| | Both sexes | 1.5 | 2.5 | 3.4 | 4.1 | 3.4 | 2.57 (-0.52, 5.76) |
| Eastern Europe | Male | 1.7 | 2.1 | 2.1 | 2.9 | 5.0 | 5.99 (3.49, 8.55) |
| | Female | 1.3 | 1.6 | 2.2 | 2.8 | 3.3 | 4.78 (4.12, 5.45) |
| | Both sexes | 1.5 | 1.9 | 2.1 | 2.9 | 4.1 | 5.46 (4.35, 6.59) |

| | | | | | | | |
|------------------------|------------|-----|-----|-----|-----|-----|---------------------|
| Northern Europe | Male | 4.2 | 4.1 | 5.4 | 4.4 | 3.6 | -0.35 (-2.52, 1.87) |
| | Female | 4.0 | 2.6 | 2.8 | 2.8 | 3.3 | -0.64 (-3.01, 1.78) |
| | Both sexes | 4.1 | 3.4 | 4.1 | 3.6 | 3.5 | -0.47 (-1.79, 0.87) |
| Southern Europe | Male | 2.1 | 5.5 | 3.4 | 4.8 | 4.9 | 2.24 (-1.69, 6.33) |
| | Female | 1.8 | 2.9 | 3.4 | 4.1 | 3.6 | 2.69 (0.30, 5.14) |
| | Both sexes | 2.0 | 4.2 | 3.4 | 4.5 | 4.2 | 2.43 (-0.46, 5.41) |
| Western Europe | Male | 6.3 | 3.4 | 4.6 | 4.4 | 4.9 | -0.40 (-2.92, 2.19) |
| | Female | 4.2 | 3.6 | 4.3 | 3.6 | 4.8 | 0.94 (-0.77, 2.68) |
| | Both sexes | 5.3 | 3.5 | 4.4 | 4.0 | 4.9 | 0.21 (-1.82, 2.28) |
| Oceania | Male | 2.7 | 3.7 | 3.9 | 4.2 | 7.1 | 4.55 (2.56, 6.57) |
| | Female | * | 4.1 | 4.9 | 3.7 | 3.0 | 1.31 (-4.34, 7.29) |
| | Both sexes | 2.0 | 3.9 | 4.4 | 4.0 | 5.1 | 3.13 (0.51, 5.81) |

* Rates were not calculated for time periods with less than five cases.

- Denotes time periods without data.

Supplementary Table 7: Incidence rates (per million) of astrocytic tumors by region, sex, and year of diagnosis

| Region | Sex | Year of Diagnosis | | | | | AAPC (95% CI) |
|---------------------------|------------|-------------------|-----------|-----------|-----------|-----------|-------------------------|
| | | 1988-1992 | 1993-1997 | 1998-2002 | 2003-2007 | 2008-2012 | |
| Northern Africa | Male | * | * | * | 4.1 | * | 17.29 (1.34, 35.74) |
| | Female | * | * | * | 2.8 | * | 14.39 (-16.23, 56.19) |
| | Both sexes | * | * | * | 3.5 | * | 16.30 (-3.88, 40.70) |
| Sub-Saharan Africa | Male | * | * | * | * | * | 0.51 (-20.16, 26.52) |
| | Female | * | * | * | * | * | -27.69 (-37.27, -16.64) |
| | Both sexes | * | * | * | * | * | -11.90 (-20.16, -2.79) |
| Caribbean | Male | - | 13.0 | * | 18.7 | 12.4 | 1.32 (-9.99, 14.06) |
| | Female | - | 11.1 | * | 9.7 | 7.2 | -1.52 (-11.70, 9.84) |
| | Both sexes | - | 12.1 | * | 14.3 | 9.9 | 0.26 (-10.52, 12.33) |
| Central America | Male | 8.0 | * | * | * | * | -5.78 (-7.30, -4.23) |
| | Female | 9.4 | * | * | * | * | -6.90 (-10.70, -2.94) |
| | Both sexes | 8.7 | 8.7 | 3.5 | 3.3 | * | -6.35 (-9.02, -3.60) |
| South America | Male | 2.3 | 6.3 | 3.7 | 4.7 | 5.1 | 2.37 (-1.09, 5.95) |
| | Female | 2.8 | 14.3 | 6.7 | 3.9 | 4.8 | -1.92 (-8.86, 5.56) |
| | Both sexes | 2.6 | 10.2 | 5.2 | 4.3 | 5.0 | -0.06 (-5.44, 5.62) |
| North America | Male | 14.2 | 13.0 | 12.7 | 12.4 | 12.3 | -0.64 (-0.95, -0.32) |
| | Female | 14.4 | 11.7 | 12.2 | 12.8 | 13.7 | 0.14 (-1.00, 1.29) |
| | Both sexes | 14.3 | 12.3 | 12.5 | 12.6 | 13.0 | -0.26 (-0.97, 0.46) |
| Eastern Asia | Male | 4.2 | 4.0 | 2.9 | 2.1 | 2.1 | -3.90 (-5.27, -2.51) |
| | Female | 3.7 | 3.7 | 1.7 | 2.6 | 2.2 | -2.60 (-5.80, 0.70) |
| | Both sexes | 3.9 | 3.8 | 2.3 | 2.3 | 2.2 | -3.30 (-5.05, -1.52) |
| South-eastern Asia | Male | * | 2.5 | 2.1 | 1.6 | 2.9 | 1.61 (-2.35, 5.74) |
| | Female | 4.1 | 3.3 | 1.4 | 2.7 | 1.8 | -3.57 (-6.95, -0.07) |
| | Both sexes | 2.7 | 2.9 | 1.8 | 2.1 | 2.4 | -1.13 (-3.31, 1.09) |
| Southern Asia | Male | 4.0 | 3.6 | 4.4 | 2.5 | 1.6 | -4.07 (-7.33, -0.70) |
| | Female | 1.3 | 2.6 | 1.9 | 1.4 | 1.3 | -2.14 (-5.97, 1.85) |
| | Both sexes | 2.7 | 3.1 | 3.2 | 2.0 | 1.5 | -3.36 (-6.26, -0.38) |
| Western Asia | Male | 4.6 | 4.5 | 5.6 | 4.4 | 6.2 | 1.59 (-0.37, 3.58) |
| | Female | 6.0 | 4.0 | 3.9 | 4.0 | 4.2 | -0.78 (-2.57, 1.05) |
| | Both sexes | 5.2 | 4.3 | 4.7 | 4.2 | 5.3 | 0.54 (-1.00, 2.11) |
| Eastern Europe | Male | 5.1 | 7.9 | 4.8 | 7.5 | 7.5 | 1.40 (-0.95, 3.81) |
| | Female | 4.5 | 5.5 | 4.2 | 7.1 | 6.5 | 1.98 (-0.10, 4.10) |
| | Both sexes | 4.8 | 6.7 | 4.5 | 7.3 | 7.0 | 1.66 (-0.46, 3.83) |

| | | | | | | | |
|------------------------|------------|------|------|-----|-----|-----|----------------------|
| Northern Europe | Male | 7.1 | 13.9 | 5.3 | 5.8 | 3.7 | -4.58 (-10.21, 1.41) |
| | Female | 7.3 | 12.2 | 5.6 | 5.8 | 4.9 | -3.44 (-7.76, 1.07) |
| | Both sexes | 7.2 | 13.1 | 5.4 | 5.8 | 4.3 | -4.02 (-9.00, 1.22) |
| Southern Europe | Male | 7.0 | 9.4 | 5.8 | 5.7 | 7.3 | -0.76 (-3.59, 2.15) |
| | Female | 8.8 | 9.6 | 7.2 | 6.7 | 4.2 | -3.56 (-5.46, -1.62) |
| | Both sexes | 7.9 | 9.5 | 6.5 | 6.2 | 5.8 | -2.15 (-3.81, -0.45) |
| Western Europe | Male | 12.0 | 9.3 | 5.2 | 4.7 | 3.6 | -6.01 (-7.39, -4.61) |
| | Female | 9.3 | 12.6 | 4.8 | 3.3 | 4.1 | -5.60 (-9.79, -1.21) |
| | Both sexes | 10.7 | 10.9 | 5.0 | 4.0 | 3.8 | -5.81 (-8.35, -3.20) |
| Oceania | Male | 7.8 | 18.7 | 5.2 | 3.5 | 3.3 | -6.80 (-14.63, 1.75) |
| | Female | 10.1 | 16.6 | 4.9 | 3.4 | 4.4 | -6.48 (-12.66, 0.14) |
| | Both sexes | 8.9 | 17.7 | 5.0 | 3.5 | 3.8 | -6.64 (-13.60, 0.87) |

* Rates were not calculated for time periods with less than five cases.

- Denotes time periods without data.

Supplementary Table 8: Incidence rates (per million) of medulloblastoma by region, sex, and year of diagnosis

| Region | Sex | Year of Diagnosis | | | | | AAPC (95% CI) |
|---------------------------|------------|-------------------|-----------|-----------|-----------|-----------|------------------------|
| | | 1988-1992 | 1993-1997 | 1998-2002 | 2003-2007 | 2008-2012 | |
| Northern Africa | Male | * | * | * | 2.3 | * | 1.91 (-10.76, 16.38) |
| | Female | * | * | * | * | * | -4.11 (-16.89, 10.62) |
| | Both sexes | * | 4.9 | 1.9 | 1.9 | * | -0.70 (-11.69, 11.66) |
| Sub-Saharan Africa | Male | * | * | * | * | * | -3.11 (-12.52, 7.31) |
| | Female | * | * | * | * | * | -2.82 (-5.98, 0.46) |
| | Both sexes | * | * | * | * | 1.0 | -2.97 (-8.24, 2.60) |
| Caribbean | Male | - | * | * | 6.2 | * | -2.01 (-12.03, 9.15) |
| | Female | - | * | * | * | * | -12.17 (-32.55, 14.37) |
| | Both sexes | - | 6.6 | * | 3.2 | 3.5 | -3.90 (-14.29, 7.75) |
| Central America | Male | 5.0 | * | * | 5.3 | * | 0.63 (-4.77, 6.33) |
| | Female | * | * | * | * | * | 4.30 (-10.13, 21.05) |
| | Both sexes | 4.1 | * | * | 4.9 | 5.0 | 1.89 (-5.75, 10.16) |
| South America | Male | 3.7 | * | 3.0 | 4.6 | 7.7 | 5.77 (1.68, 10.03) |
| | Female | * | 3.6 | 4.1 | 3.9 | 4.8 | 3.83 (0.77, 6.98) |
| | Both sexes | 2.6 | 3.2 | 3.6 | 4.2 | 6.3 | 4.90 (3.36, 6.47) |
| North America | Male | 5.4 | 7.9 | 5.0 | 6.4 | 6.9 | 0.64 (-1.91, 3.25) |
| | Female | 4.2 | 5.4 | 4.8 | 3.3 | 3.8 | -1.50 (-3.71, 0.76) |
| | Both sexes | 4.8 | 6.6 | 4.9 | 4.9 | 5.4 | -0.21 (-2.06, 1.68) |
| Eastern Asia | Male | 1.2 | 4.0 | 5.8 | 4.9 | 4.3 | 1.97 (-3.02, 7.23) |
| | Female | 2.1 | 2.6 | 2.9 | 2.7 | 2.0 | -0.66 (-2.97, 1.71) |
| | Both sexes | 1.6 | 3.3 | 4.4 | 3.9 | 3.2 | 1.04 (-2.78, 5.01) |
| South-eastern Asia | Male | 2.8 | 3.9 | 4.3 | 4.5 | 4.2 | 1.26 (-0.21, 2.76) |
| | Female | 2.6 | 2.8 | 3.4 | 2.3 | 2.0 | -1.81 (-3.96, 0.39) |
| | Both sexes | 2.7 | 3.4 | 3.9 | 3.5 | 3.1 | 0.11 (-1.40, 1.65) |
| Southern Asia | Male | 3.8 | 2.7 | 3.7 | 3.6 | 2.4 | -1.10 (-3.90, 1.80) |
| | Female | 3.4 | 0.9 | 2.1 | 1.7 | 1.5 | -2.00 (-7.77, 4.13) |
| | Both sexes | 3.6 | 1.9 | 2.9 | 2.7 | 2.0 | -1.37 (-4.85, 2.22) |
| Western Asia | Male | 5.7 | 4.9 | 6.0 | 5.5 | 5.9 | 0.43 (-0.58, 1.46) |
| | Female | 3.0 | 6.2 | 3.1 | 3.8 | 4.0 | -0.49 (-4.18, 3.34) |
| | Both sexes | 4.4 | 5.5 | 4.6 | 4.6 | 5.0 | 0.06 (-1.07, 1.21) |
| Eastern Europe | Male | 5.1 | 3.5 | 6.2 | 6.2 | 6.4 | 1.84 (-0.30, 4.02) |
| | Female | 3.2 | 1.6 | 3.7 | 4.3 | 4.3 | 2.73 (-0.50, 6.07) |
| | Both sexes | 4.2 | 2.6 | 5.0 | 5.3 | 5.4 | 2.18 (-0.33, 4.75) |

| | | | | | | | |
|------------------------|------------|-----|-----|-----|-----|-----|----------------------|
| Northern Europe | Male | 7.1 | 5.9 | 6.4 | 6.7 | 5.2 | -0.89 (-2.26, 0.50) |
| | Female | 5.1 | 4.2 | 4.0 | 3.6 | 4.1 | -1.11 (-2.35, 0.15) |
| | Both sexes | 6.1 | 5.1 | 5.3 | 5.2 | 4.7 | -0.97 (-1.75, -0.19) |
| Southern Europe | Male | 6.6 | 7.3 | 6.8 | 8.1 | 6.5 | 0.12 (-1.35, 1.61) |
| | Female | 1.8 | 3.9 | 4.9 | 4.9 | 4.2 | 2.36 (-1.29, 6.14) |
| | Both sexes | 4.3 | 5.6 | 5.9 | 6.6 | 5.4 | 0.90 (-0.95, 2.78) |
| Western Europe | Male | 5.3 | 5.0 | 6.7 | 6.4 | 6.5 | 1.07 (-0.06, 2.21) |
| | Female | 3.3 | 6.2 | 4.1 | 3.8 | 5.0 | 0.60 (-2.49, 3.79) |
| | Both sexes | 4.3 | 5.6 | 5.5 | 5.1 | 5.8 | 0.88 (-0.22, 1.99) |
| Oceania | Male | 4.8 | 7.9 | 7.1 | 6.7 | 7.1 | 0.84 (-1.34, 3.06) |
| | Female | 2.2 | 4.9 | 3.6 | 3.2 | 4.0 | 0.75 (-3.03, 4.66) |
| | Both sexes | 3.5 | 6.4 | 5.4 | 5.0 | 5.5 | 0.81 (-1.88, 3.57) |

* Rates were not calculated for time periods with less than five cases.

- Denotes time periods without data.

Supplementary Table 9: Incidence rates (per million) of neuroblastoma by region, sex, and year of diagnosis

| Region | Sex | Year of Diagnosis | | | | | AAPC (95% CI) |
|---------------------------|------------|-------------------|-----------|-----------|-----------|-----------|------------------------|
| | | 1988-1992 | 1993-1997 | 1998-2002 | 2003-2007 | 2008-2012 | |
| Northern Africa | Male | * | 9.7 | 6.0 | 10.8 | 8.6 | 5.81 (-3.45, 15.95) |
| | Female | * | * | * | 8.1 | * | 4.42 (-9.58, 20.59) |
| | Both sexes | * | 4.9 | 4.6 | 9.5 | 5.3 | 4.29 (-1.69, 10.64) |
| Sub-Saharan Africa | Male | * | * | * | * | * | -8.44 (-14.76, -1.65) |
| | Female | * | * | * | * | * | -10.45 (-28.13, 11.57) |
| | Both sexes | * | 2.1 | * | * | * | -6.48 (-19.65, 8.84) |
| Caribbean | Male | - | * | * | 8.3 | * | -0.39 (-5.00, 4.45) |
| | Female | - | * | * | * | 8.6 | 0.32 (-13.60, 16.48) |
| | Both sexes | - | 6.6 | * | 5.3 | 7.0 | -0.07 (-3.79, 3.80) |
| Central America | Male | * | * | 6.9 | * | 11.1 | 2.43 (-3.56, 8.80) |
| | Female | 5.2 | * | * | * | 11.6 | 5.78 (-5.15, 17.97) |
| | Both sexes | 4.1 | * | 4.5 | 3.8 | 11.3 | 7.33 (2.13, 12.80) |
| South America | Male | 3.2 | 3.5 | 15.5 | 9.8 | 7.7 | 1.43 (-6.14, 9.60) |
| | Female | 2.8 | 5.7 | 18.6 | 10.5 | 7.5 | 0.56 (-7.74, 9.60) |
| | Both sexes | 3.0 | 4.6 | 17.0 | 10.2 | 7.6 | 0.97 (-6.94, 9.56) |
| North America | Male | 12.7 | 16.5 | 13.7 | 15.5 | 14.5 | 0.31 (-1.01, 1.66) |
| | Female | 12.9 | 13.4 | 11.3 | 12.2 | 14.1 | 0.39 (-0.96, 1.77) |
| | Both sexes | 12.8 | 15.0 | 12.5 | 13.9 | 14.3 | 0.35 (-0.66, 1.37) |
| Eastern Asia | Male | 9.3 | 12.7 | 17.6 | 18.2 | 12.5 | 0.71 (-2.84, 4.39) |
| | Female | 8.9 | 12.0 | 13.1 | 15.4 | 12.1 | 0.99 (-1.24, 3.28) |
| | Both sexes | 9.1 | 12.4 | 15.5 | 16.9 | 12.3 | 0.84 (-2.08, 3.84) |
| South-eastern Asia | Male | 2.8 | 3.2 | 3.8 | 2.8 | 4.6 | 2.00 (-0.60, 4.66) |
| | Female | * | 2.0 | 6.2 | 2.2 | 2.6 | 0.85 (-6.74, 9.07) |
| | Both sexes | 2.2 | 2.6 | 5.0 | 2.5 | 3.6 | 1.51 (-2.71, 5.92) |
| Southern Asia | Male | 5.9 | 8.7 | 6.3 | 4.1 | 2.6 | -4.96 (-8.60, -1.17) |
| | Female | 3.9 | 6.0 | 3.9 | 2.8 | 2.7 | -3.55 (-6.79, -0.20) |
| | Both sexes | 4.9 | 7.4 | 5.1 | 3.5 | 2.6 | -4.37 (-7.75, -0.87) |
| Western Asia | Male | 10.8 | 11.2 | 10.2 | 15.2 | 15.2 | 2.30 (0.59, 4.04) |
| | Female | 13.1 | 11.3 | 7.3 | 12.2 | 12.1 | 0.65 (-2.46, 3.86) |
| | Both sexes | 11.9 | 11.2 | 8.8 | 13.7 | 13.7 | 1.56 (-0.77, 3.93) |
| Eastern Europe | Male | 1.9 | 3.7 | 4.2 | 4.8 | 6.7 | 5.39 (3.70, 7.11) |
| | Female | 3.2 | 2.4 | 4.4 | 3.3 | 6.6 | 4.42 (0.39, 8.62) |
| | Both sexes | 2.5 | 3.1 | 4.3 | 4.1 | 6.6 | 4.93 (2.85, 7.05) |

| | | | | | | | |
|------------------------|------------|------|------|------|------|------|---------------------|
| Northern Europe | Male | 10.0 | 10.7 | 12.6 | 13.1 | 13.2 | 1.50 (0.85, 2.15) |
| | Female | 9.3 | 8.6 | 12.1 | 11.9 | 9.6 | 0.83 (-1.34, 3.05) |
| | Both sexes | 9.7 | 9.6 | 12.4 | 12.5 | 11.5 | 1.20 (-0.14, 2.55) |
| Southern Europe | Male | 11.8 | 12.2 | 15.5 | 15.6 | 16.6 | 1.75 (0.91, 2.60) |
| | Female | 11.4 | 11.6 | 13.2 | 13.1 | 19.3 | 2.76 (0.98, 4.57) |
| | Both sexes | 11.6 | 11.9 | 14.4 | 14.4 | 17.9 | 2.23 (1.34, 3.12) |
| Western Europe | Male | 10.3 | 11.8 | 17.6 | 15.6 | 18.2 | 2.39 (0.66, 4.16) |
| | Female | 11.3 | 11.5 | 14.0 | 13.9 | 14.6 | 1.26 (0.60, 1.94) |
| | Both sexes | 10.8 | 11.7 | 15.8 | 14.7 | 16.4 | 1.88 (0.66, 3.11) |
| Oceania | Male | 12.9 | 18.9 | 13.5 | 14.2 | 18.1 | 0.70 (-1.70, 3.15) |
| | Female | 13.6 | 11.7 | 15.5 | 13.7 | 12.1 | -0.17 (-1.83, 1.52) |
| | Both sexes | 13.2 | 15.4 | 14.5 | 14.0 | 15.2 | 0.31 (-0.47, 1.10) |

* Rates were not calculated for time periods with less than five cases.

- Denotes time periods without data.

Supplementary Table 10: Incidence rates (per million) of retinoblastoma by region, sex, and year of diagnosis

| Region | Sex | Year of Diagnosis | | | | | AAPC (95% CI) |
|---------------------------|------------|-------------------|-----------|-----------|-----------|-----------|-----------------------|
| | | 1988-1992 | 1993-1997 | 1998-2002 | 2003-2007 | 2008-2012 | |
| Northern Africa | Male | * | 11.6 | * | 5.9 | * | -1.45 (-16.18, 15.88) |
| | Female | * | 16.0 | * | 5.7 | * | -2.42 (-15.94, 13.26) |
| | Both sexes | * | 13.8 | 3.1 | 5.8 | * | -1.96 (-15.69, 14.01) |
| Sub-Saharan Africa | Male | 16.3 | 17.3 | 12.5 | 21.9 | 16.5 | 0.47 (-2.16, 3.16) |
| | Female | 9.7 | 11.3 | 12.1 | 20.7 | 9.4 | 0.50 (-4.68, 5.97) |
| | Both sexes | 13.0 | 14.3 | 12.3 | 21.3 | 13.0 | 0.49 (-2.98, 4.10) |
| Caribbean | Male | - | * | * | * | 6.9 | -3.23 (-25.82, 26.23) |
| | Female | - | * | * | 6.5 | 13.0 | 0.73 (-9.42, 12.02) |
| | Both sexes | - | 7.7 | 19.0 | 3.2 | 9.9 | -0.64 (-14.32, 15.23) |
| Central America | Male | 9.0 | * | 4.9 | 12.7 | 9.7 | 1.47 (-3.37, 6.56) |
| | Female | 8.3 | * | 11.4 | 11.1 | 10.2 | 2.36 (-4.83, 10.09) |
| | Both sexes | 8.7 | * | 8.1 | 11.9 | 9.9 | 1.91 (-1.85, 5.83) |
| South America | Male | 11.4 | 12.5 | 17.5 | 13.1 | 11.1 | -0.79 (-3.60, 2.10) |
| | Female | 14.7 | 8.6 | 16.8 | 10.7 | 12.4 | -0.87 (-4.00, 2.37) |
| | Both sexes | 13.0 | 10.6 | 17.1 | 11.9 | 11.7 | -0.83 (-3.42, 1.84) |
| North America | Male | 8.7 | 9.7 | 10.9 | 9.1 | 9.3 | -0.08 (-1.38, 1.24) |
| | Female | 8.5 | 9.3 | 8.1 | 9.6 | 9.9 | 0.78 (-0.21, 1.77) |
| | Both sexes | 8.6 | 9.5 | 9.5 | 9.3 | 9.6 | 0.32 (-0.10, 0.75) |
| Eastern Asia | Male | 6.5 | 9.5 | 9.4 | 10.5 | 7.4 | -0.14 (-2.77, 2.56) |
| | Female | 6.0 | 7.9 | 9.2 | 9.7 | 7.4 | 0.47 (-1.93, 2.92) |
| | Both sexes | 6.3 | 8.7 | 9.3 | 10.1 | 7.4 | 0.14 (-2.35, 2.70) |
| South-eastern Asia | Male | 16.6 | 13.7 | 11.6 | 13.6 | 12.8 | -0.82 (-2.05, 0.42) |
| | Female | 10.5 | 11.8 | 10.5 | 12.3 | 10.2 | -0.23 (-1.47, 1.02) |
| | Both sexes | 13.6 | 12.8 | 11.0 | 13.0 | 11.6 | -0.56 (-1.49, 0.37) |
| Southern Asia | Male | 9.1 | 12.5 | 9.6 | 11.2 | 5.2 | -2.47 (-6.25, 1.47) |
| | Female | 8.4 | 8.8 | 6.8 | 6.7 | 5.0 | -2.70 (-3.96, -1.42) |
| | Both sexes | 8.7 | 10.7 | 8.2 | 9.1 | 5.1 | -2.54 (-5.28, 0.29) |
| Western Asia | Male | 4.0 | 6.3 | 5.6 | 5.7 | 9.8 | 4.19 (1.15, 7.32) |
| | Female | 6.5 | 7.3 | 5.6 | 5.7 | 9.7 | 2.49 (-1.05, 6.15) |
| | Both sexes | 5.2 | 6.8 | 5.6 | 5.7 | 9.7 | 3.31 (0.07, 6.67) |
| Eastern Europe | Male | 5.7 | 5.8 | 6.5 | 9.3 | 8.4 | 2.37 (0.59, 4.18) |
| | Female | 6.1 | 3.9 | 5.5 | 9.1 | 6.4 | 1.54 (-2.18, 5.40) |
| | Both sexes | 5.9 | 4.8 | 6.0 | 9.2 | 7.4 | 1.99 (-0.64, 4.69) |

| | | | | | | | |
|------------------------|------------|------|------|------|------|------|----------------------|
| Northern Europe | Male | 8.6 | 7.1 | 8.7 | 6.2 | 7.4 | -0.86 (-2.64, 0.95) |
| | Female | 8.9 | 9.4 | 7.8 | 7.8 | 5.8 | -2.01 (-3.25, -0.76) |
| | Both sexes | 8.8 | 8.2 | 8.3 | 7.0 | 6.6 | -1.44 (-2.01, -0.87) |
| Southern Europe | Male | 6.3 | 7.3 | 7.4 | 6.9 | 7.7 | 0.60 (-0.28, 1.48) |
| | Female | 7.7 | 5.8 | 7.9 | 7.2 | 8.9 | 1.18 (-0.64, 3.04) |
| | Both sexes | 7.0 | 6.6 | 7.6 | 7.0 | 8.3 | 0.89 (-0.08, 1.86) |
| Western Europe | Male | 10.5 | 10.4 | 6.9 | 9.6 | 9.0 | -0.47 (-2.64, 1.74) |
| | Female | 11.0 | 8.7 | 6.5 | 6.6 | 7.7 | -1.62 (-3.75, 0.56) |
| | Both sexes | 10.8 | 9.5 | 6.7 | 8.1 | 8.4 | -0.99 (-2.95, 1.01) |
| Oceania | Male | 9.0 | 14.7 | 10.8 | 11.2 | 10.1 | -0.42 (-3.01, 2.24) |
| | Female | 7.6 | 9.3 | 9.6 | 7.1 | 11.9 | 1.46 (-1.08, 4.06) |
| | Both sexes | 8.3 | 12.1 | 10.2 | 9.2 | 11.0 | 0.40 (-1.58, 2.41) |

* Rates were not calculated for time periods with less than five cases.

- Denotes time periods without data.

Supplementary Table 11: Incidence rates (per million) of kidney tumors by region, sex, and year of diagnosis

| Region | Sex | Year of Diagnosis | | | | | AAPC (95% CI) |
|---------------------------|------------|-------------------|-----------|-----------|-----------|-----------|-----------------------|
| | | 1988-1992 | 1993-1997 | 1998-2002 | 2003-2007 | 2008-2012 | |
| Northern Africa | Male | * | 15.5 | 11.9 | 14.9 | * | 1.28 (-10.63, 14.78) |
| | Female | 12.3 | 14.0 | 18.8 | 12.3 | 10.9 | -1.35 (-5.10, 2.55) |
| | Both sexes | 6.0 | 14.8 | 15.3 | 13.7 | 6.2 | -0.18 (-5.93, 5.92) |
| Sub-Saharan Africa | Male | 19.6 | 15.8 | 22.3 | 37.8 | 15.7 | 0.51 (-5.38, 6.76) |
| | Female | 23.7 | 15.6 | 15.6 | 23.1 | 23.6 | 1.29 (-1.34, 3.99) |
| | Both sexes | 21.6 | 15.7 | 18.9 | 30.5 | 19.7 | 0.88 (-2.71, 4.62) |
| Caribbean | Male | - | * | 42.6 | 12.4 | 12.4 | -0.80 (-12.77, 12.81) |
| | Female | - | 13.3 | * | 20.6 | 15.8 | 1.67 (-3.08, 6.65) |
| | Both sexes | - | 11.0 | 27.1 | 16.4 | 14.1 | 0.48 (-5.68, 7.05) |
| Central America | Male | 6.0 | 12.1 | 7.9 | 10.6 | 6.9 | 0.96 (-2.83, 4.89) |
| | Female | 10.4 | 15.2 | 7.2 | 12.2 | 16.0 | 1.66 (-2.33, 5.82) |
| | Both sexes | 8.2 | 13.6 | 7.6 | 11.4 | 11.3 | 1.36 (-1.66, 4.47) |
| South America | Male | 11.0 | 13.9 | 16.2 | 16.2 | 15.5 | 2.90 (-3.94, 10.22) |
| | Female | 10.9 | 18.6 | 21.4 | 14.9 | 18.1 | 0.90 (-2.29, 4.20) |
| | Both sexes | 10.9 | 16.2 | 18.8 | 15.6 | 16.8 | 1.06 (-1.11, 3.28) |
| North America | Male | 20.2 | 20.5 | 18.0 | 17.0 | 17.7 | -0.88 (-1.53, -0.22) |
| | Female | 20.8 | 22.3 | 19.4 | 18.2 | 20.0 | -0.51 (-1.45, 0.43) |
| | Both sexes | 20.5 | 21.4 | 18.7 | 17.6 | 18.8 | -0.69 (-1.49, 0.11) |
| Eastern Asia | Male | 9.1 | 8.7 | 10.3 | 10.0 | 11.0 | 1.10 (0.40, 1.80) |
| | Female | 8.5 | 8.6 | 10.2 | 10.9 | 9.6 | 0.71 (-0.52, 1.97) |
| | Both sexes | 8.8 | 8.7 | 10.3 | 10.4 | 10.3 | 0.91 (0.18, 1.65) |
| South-eastern Asia | Male | 8.8 | 7.7 | 8.9 | 10.8 | 10.4 | 1.60 (0.36, 2.86) |
| | Female | 9.4 | 7.8 | 9.9 | 5.7 | 11.3 | 0.93 (-3.02, 5.03) |
| | Both sexes | 9.1 | 7.7 | 9.4 | 8.3 | 10.8 | 1.29 (-0.34, 2.94) |
| Southern Asia | Male | 8.6 | 10.6 | 12.6 | 10.2 | 7.6 | -1.00 (-3.68, 1.75) |
| | Female | 7.5 | 8.5 | 8.6 | 7.7 | 8.1 | -0.11 (-0.96, 0.75) |
| | Both sexes | 8.1 | 9.6 | 10.7 | 9.0 | 7.8 | -0.60 (-2.36, 1.19) |
| Western Asia | Male | 8.5 | 10.1 | 13.7 | 15.0 | 15.3 | 2.52 (1.23, 3.83) |
| | Female | 8.3 | 12.0 | 16.2 | 15.1 | 14.9 | 1.61 (-0.54, 3.80) |
| | Both sexes | 8.4 | 11.1 | 14.9 | 15.0 | 15.1 | -1.09 (-5.85, 3.90) |
| Eastern Europe | Male | 17.7 | 15.4 | 14.6 | 18.3 | 19.0 | 0.76 (-0.41, 1.95) |
| | Female | 19.4 | 14.2 | 16.5 | 23.0 | 22.2 | 1.52 (-0.42, 3.50) |
| | Both sexes | 18.5 | 14.8 | 15.5 | 20.6 | 20.5 | 1.15 (-0.36, 2.68) |

| | | | | | | | |
|------------------------|------------|------|------|------|------|------|---------------------|
| Northern Europe | Male | 18.1 | 17.6 | 17.9 | 18.3 | 17.4 | -0.07 (-0.35, 0.21) |
| | Female | 19.9 | 17.1 | 19.6 | 21.2 | 19.0 | 0.34 (-0.81, 1.50) |
| | Both sexes | 19.0 | 17.3 | 18.7 | 19.7 | 18.2 | 0.14 (-0.58, 0.85) |
| Southern Europe | Male | 15.6 | 15.2 | 17.3 | 18.3 | 15.3 | 0.19 (-1.09, 1.49) |
| | Female | 19.1 | 16.4 | 20.8 | 17.6 | 16.5 | -0.55 (-2.00, 0.91) |
| | Both sexes | 17.3 | 15.8 | 19.0 | 18.0 | 15.9 | -0.19 (-1.40, 1.03) |
| Western Europe | Male | 17.3 | 20.3 | 16.0 | 20.5 | 17.2 | -0.06 (-1.64, 1.54) |
| | Female | 17.2 | 23.5 | 18.9 | 20.8 | 22.1 | 0.74 (-0.58, 2.07) |
| | Both sexes | 17.2 | 21.9 | 17.5 | 20.7 | 19.6 | 0.35 (-0.92, 1.64) |
| Oceania | Male | 14.4 | 20.1 | 16.0 | 16.7 | 17.2 | 0.16 (-1.55, 1.90) |
| | Female | 23.7 | 19.4 | 22.3 | 19.5 | 19.3 | -0.79 (-1.78, 0.22) |
| | Both sexes | 18.9 | 19.8 | 19.1 | 18.1 | 18.2 | -0.35 (-0.71, 0.02) |

* Rates were not calculated for time periods with less than five cases.

- Denotes time periods without data.

Supplementary Table 12: Incidence rates (per million) of hepatoblastoma by region, sex, and year of diagnosis

| Region | Sex | Year of Diagnosis | | | | | AAPC (95% CI) |
|---------------------------|------------|-------------------|-----------|-----------|-----------|-----------|-----------------------|
| | | 1988-1992 | 1993-1997 | 1998-2002 | 2003-2007 | 2008-2012 | |
| Northern Africa | Male | * | * | * | * | * | -1.74 (-17.19, 16.60) |
| | Female | * | * | * | 2.4 | * | 6.40 (-12.16, 28.88) |
| | Both sexes | * | * | * | 2.1 | * | 1.93 (-12.49, 18.71) |
| Sub-Saharan Africa | Male | * | * | * | * | * | -1.95 (-23.44, 25.59) |
| | Female | * | * | * | * | * | 16.96 (-3.98, 42.45) |
| | Both sexes | * | * | * | * | * | 4.85 (-11.00, 23.53) |
| Caribbean | Male | - | * | * | * | * | 11.45 (-10.74, 39.16) |
| | Female | - | * | * | * | * | 3.19 (-28.15, 48.21) |
| | Both sexes | - | * | * | 4.2 | * | 7.66 (-17.37, 40.27) |
| Central America | Male | * | * | * | 6.4 | 11.1 | 24.82 (12.88, 38.01) |
| | Female | * | * | * | * | * | 4.81 (-3.02, 13.27) |
| | Both sexes | * | * | * | 4.3 | 7.8 | 14.25 (6.40, 22.68) |
| South America | Male | * | 3.5 | 2.7 | 4.6 | 3.4 | 4.34 (-2.33, 11.47) |
| | Female | * | * | 2.1 | 2.0 | 3.7 | 7.53 (3.97, 11.21) |
| | Both sexes | * | 2.1 | 2.4 | 3.3 | 3.5 | 5.55 (2.16, 9.06) |
| North America | Male | 4.7 | 5.7 | 6.1 | 7.2 | 8.8 | 3.12 (2.50, 3.74) |
| | Female | 3.3 | 3.4 | 4.8 | 4.5 | 4.8 | 1.68 (0.26, 3.12) |
| | Both sexes | 4.1 | 4.6 | 5.4 | 5.9 | 6.8 | 2.56 (2.23, 2.90) |
| Eastern Asia | Male | 4.2 | 3.4 | 5.6 | 5.6 | 7.6 | 3.88 (1.92, 5.89) |
| | Female | 3.5 | 4.2 | 5.3 | 4.0 | 6.8 | 2.87 (0.07, 5.75) |
| | Both sexes | 3.8 | 3.9 | 5.5 | 4.8 | 7.2 | 3.63 (1.48, 5.84) |
| South-eastern Asia | Male | 2.1 | 1.9 | 3.8 | 4.1 | 4.2 | 4.37 (1.68, 7.12) |
| | Female | 2.2 | 1.1 | 2.6 | 3.2 | 5.0 | 7.17 (2.81, 11.70) |
| | Both sexes | 2.2 | 1.5 | 3.2 | 3.6 | 4.6 | 4.90 (3.13, 6.71) |
| Southern Asia | Male | 3.6 | 2.3 | 1.9 | 10.2 | 2.3 | -1.67 (-4.25, 0.98) |
| | Female | 2.6 | 1.9 | 1.6 | 7.7 | 1.3 | -3.11 (-4.28, -1.94) |
| | Both sexes | 3.1 | 2.1 | 1.7 | 9.0 | 1.8 | -2.23 (-4.22, -0.20) |
| Western Asia | Male | * | 2.8 | 3.9 | 3.6 | 3.6 | 1.53 (-0.38, 3.47) |
| | Female | * | * | 2.7 | 2.1 | 4.0 | 4.86 (0.09, 9.86) |
| | Both sexes | 2.3 | 2.0 | 3.3 | 2.9 | 3.8 | 2.90 (0.76, 5.09) |
| Eastern Europe | Male | 1.9 | 1.9 | 2.5 | 3.5 | 6.0 | 6.97 (4.66, 9.33) |
| | Female | 0.9 | 1.4 | 2.4 | 2.8 | 3.3 | 5.80 (3.83, 7.81) |
| | Both sexes | 1.4 | 1.7 | 2.5 | 3.2 | 4.7 | 6.51 (5.69, 7.34) |

| | | | | | | | |
|------------------------|------------|-----|-----|-----|-----|-----|---------------------|
| Northern Europe | Male | 2.7 | 3.1 | 4.0 | 4.7 | 5.2 | 3.46 (2.71, 4.22) |
| | Female | 2.2 | 1.7 | 2.7 | 3.6 | 3.8 | 4.02 (1.53, 6.57) |
| | Both sexes | 2.5 | 2.4 | 3.4 | 3.8 | 4.5 | 3.82 (1.62, 6.07) |
| Southern Europe | Male | 3.8 | 1.8 | 4.0 | 3.9 | 5.4 | 3.10 (-0.67, 7.02) |
| | Female | 2.6 | 1.3 | 1.7 | 3.1 | 4.0 | 4.49 (-0.16, 9.36) |
| | Both sexes | 3.2 | 1.6 | 2.9 | 3.5 | 4.7 | 3.63 (-0.07, 7.47) |
| Western Europe | Male | 3.2 | 2.5 | 3.6 | 4.7 | 6.0 | 4.30 (2.59, 6.04) |
| | Female | 1.5 | 2.9 | 3.2 | 2.6 | 3.1 | 1.87 (-0.80, 4.60) |
| | Both sexes | 2.4 | 2.7 | 3.4 | 3.7 | 4.6 | 3.33 (2.57, 4.10) |
| Oceania | Male | * | 5.4 | 5.2 | 4.2 | 6.2 | 3.73 (-1.59, 9.33) |
| | Female | * | 4.7 | 3.1 | 3.7 | 4.9 | 4.19 (-2.24, 11.04) |
| | Both sexes | 0.9 | 5.0 | 4.2 | 4.0 | 5.5 | 3.92 (-1.75, 9.92) |

* Rates were not calculated for time periods with less than five cases.

- Denotes time periods without data.

Supplementary Table 13: Incidence rates (per million) of testicular germ cell tumors by region, sex, and year of diagnosis

| Region | Year of Diagnosis | | | | | AAPC (95% CI) |
|---------------------------|-------------------|-----------|-----------|-----------|-----------|-----------------------|
| | 1988-1992 | 1993-1997 | 1998-2002 | 2003-2007 | 2008-2012 | |
| Northern Africa | * | * | 4.5 | * | * | 0.41 (-17.91, 22.83) |
| Sub-Saharan Africa | * | * | * | * | * | -0.74 (-10.66, 10.27) |
| Caribbean | - | * | * | * | * | -7.05 (-18.11, 5.49) |
| Central America | 9.0 | * | 4.9 | 5.3 | 8.3 | -1.02 (-5.08, 3.21) |
| South America | 8.7 | 5.6 | 4.0 | 10.3 | 10.9 | 3.19 (-2.11, 8.77) |
| North America | 4.5 | 5.3 | 4.7 | 4.0 | 5.7 | 0.54 (-1.67, 2.81) |
| Eastern Asia | 11.7 | 10.4 | 10.6 | 8.7 | 9.3 | -1.18 (-2.06, -0.30) |
| South-eastern Asia | 8.5 | 5.2 | 7.8 | 7.8 | 6.7 | 0.32 (-2.35, 3.06) |
| Southern Asia | 4.0 | 4.6 | 3.9 | 4.0 | 1.8 | -3.11 (-6.46, 0.35) |
| Western Asia | * | 3.5 | 3.9 | 4.2 | 5.3 | 3.84 (2.03, 5.69) |
| Eastern Europe | 3.4 | 2.5 | 4.8 | 3.0 | 5.7 | 3.02 (-0.98, 7.19) |
| Northern Europe | 7.3 | 5.3 | 4.7 | 3.9 | 3.6 | -3.44 (-4.40, -2.46) |
| Southern Europe | 4.2 | 3.7 | 4.8 | 3.0 | 3.9 | -0.70 (-3.38, 2.05) |
| Western Europe | 7.0 | 5.5 | 5.0 | 3.8 | 3.4 | -3.47 (-4.01, -2.93) |
| Oceania | 6.6 | 9.1 | 7.4 | 6.2 | 4.4 | -2.38 (-4.98, 0.30) |

* Rates were not calculated for time periods with less than five cases.

- Denotes time periods without data.