

Table 1. Nature-of-injury codes and associated ICD 9 and 10 codes		
Nature-of-injury	ICD 9	ICD 10
Amputation of lower limbs bilateral	896.2-896.3, 897.6-897.7	T05.3, T05.5
Amputation of upper limbs, bilateral	887.6-887.7, 888.1-888.2, 888.9	S68.4, S68.7-S68.9, T05.0, T05.2, T05.6
Amputation of lower limb, unilateral	896.0-896.1, 897.0-897.5	S78.0, S78.1, S78.9, S88-S88.1, S88.9, S98.0, S98.3-S98.4, S98.9
Amputation of upper limb, unilateral	887.0-887.5	S48-S48.1, S48.9, S58-S58.1, S58.9, T05.1, T05.4, T11.6

Table 2: Global Incidence of amputation by traumatic cause of injury with 95% UI, 2015

Cause	Unilateral UL		Bilateral UL		Unilateral LL		Bilateral LL	
	Incidence	Rate per 100,000	Incidence	Rate per 100,000	Incidence	Rate per 100,000	Incidence	Rate per 100,000
Transport injuries								
Road injuries	7631(7059-8203)	0.10(0.096-0.111)	3578(3288-3868)	0.05(0.04-0.052)	85127(76664-93590)	1.15(1.04-1.27)	349(301-398)	0.0047(0.004-0.005)
Other transport	8944(7614-10273)	0.12(0.1-0.14)	2761(2277-3245)	0.037(0.03-0.04)	35202(30803-39600)	0.48(0.42-0.54)	4982(4094-5870)	0.07(0.05-0.08)
Unintentional injuries								
Falls	7980(7273-8687)	0.11(0.099-0.118)	11047(9537-12558)	0.15(0.13-0.17)	139978(122935-157021)	1.9(1.67-2.13)	148(116-180)	0.002(0.0016-0.0024)
Fire	1529(1261-1797)	0.02(0.017-0.024)	1395(962-1829)	0.019(0.013-0.025)	16362(12785-19938)	0.22(0.17-0.27)	49(0.76-97.38)	0.0007(0.00001-0.001)
Mechanical forces	20489(18237-227420)	0.28(0.25-0.31)	31205(28961-33448)	0.423(0.39-0.450)	74101(63806-84397)	1.00(0.86-0.14)	314(238-390)	0.004(0.003-0.005)
Drowning	98(30-167)	0.001(0.0004-0.002)	773(447-1099)	0.01(0.006-0.015)	13192(9166-17219)	0.179(0.12-0.23)	75(18-132)	0.001(0.0002-0.002)
Poisoning	795(406-1184)	0.01(0.005-0.016)	143(43-242)	0.002(0.0006-0.003)	11267(7985-14549)	0.15(0.11-0.2)	55(0-109)	0.0007(0-0.001)
Animal contact	7775(6191-9359)	0.11(0.08-0.13)	3617(2308-4926)	0.05(0.03-0.07)	54505(45269-63741)	0.74(0.61-0.86)	33(4-62)	0.0004(0.00005-0.0008)
Foreign body	3185(2166-4204)	0.04(0.03-0.06)	2765(1733-3796)	0.04(0.02-0.05)	54118(41595-66641)	0.73(0.56-0.90)		
Other unintentional	16500(15234-17766)	0.22(0.21-0.24)	14101(12573-15628)	0.19(0.17-0.21)	189428(168793-210062)	2.57(2.29-2.85)	54(38-710)	0.0007(0.0005-0.001)
Intentional injuries								
Self-harm	946(826-1066)	0.013(0.011-0.014)	1408(1071-1746)	0.02(0.015-0.02)	18150(14890-21409)	0.25(0.20-0.29)	54(32-75)	0.0007(0.0004-0.001)
Interpersonal violence	1387(1253-1521)	0.019(0.017-0.02)	2538(2240-2836)	0.034(0.030-0.038)	14726(11585-17866)	0.2(0.16-0.24)	5(0.1-9.9)	0.00007(0.00001-0.0001)
War	8214(3514-12915)	0.11(0.05-0.17)	13071(6206-19937)	0.18(0.08-0.27)	302619(192387-412850)	4.1(2.6-5.6)	519(40-997)	0.007(0.0005-0.014)
Disaster	340(152-527)	0.006(0.003-0.01)	236(58-414)	0.004(0.001-0.008)	4976(3076-6876)	0.09(0.06-0.13)	500(211-788)	0.009(0.004-0.01)
Total	86386(77410-95363)	1.17(1.05-1.29)	90507(81705-99309)	1.23(1.11-1.35)	1015164(872787-1157542)	13.75(11.82-15.68)	7036(5912-8160)	0.095(0.08-0.11)

UL = upper limb, LL = lower limb, UI = uncertainty level



■ Unilateral UL ■ Bilateral UL ■ Unilateral LL ■ Bilateral LL

Figure 1. Percentage of all traumatic amputations by level of amputation

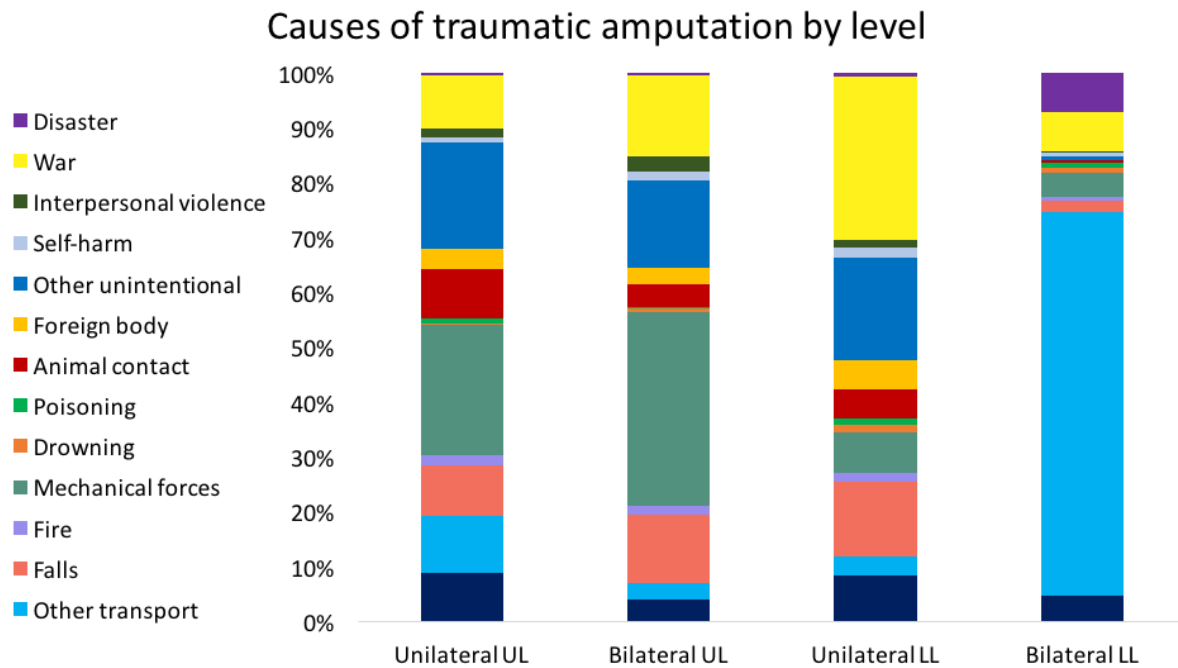
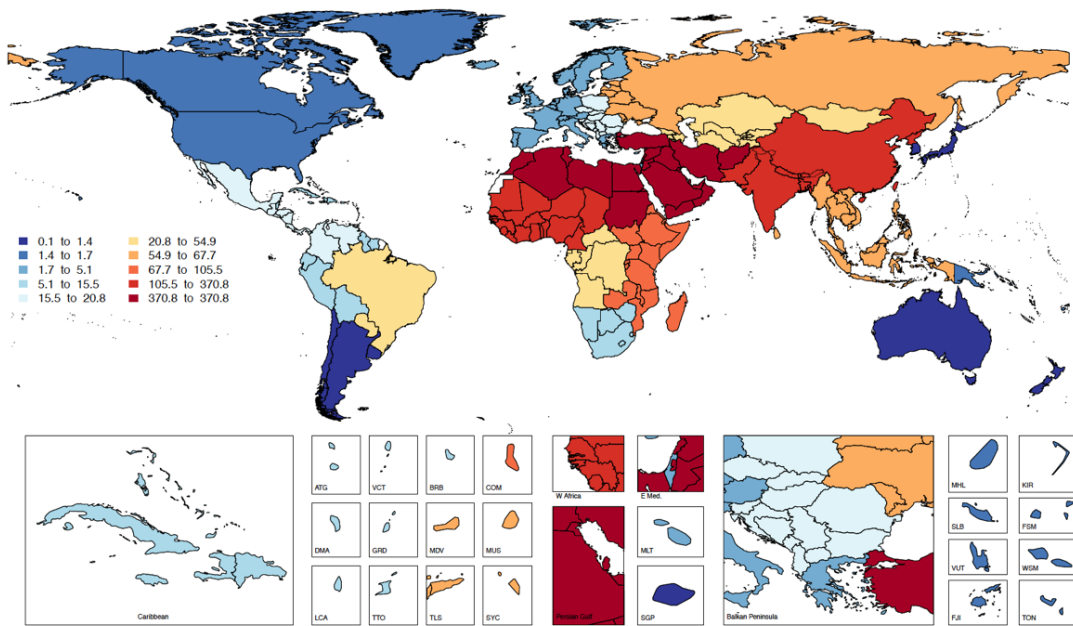


Figure 2: Causes of traumatic major limb amputation by level of amputation

Amputation incidence in thousands by region, Trauma



Amputation incidence rate per 100,000 by region, Trauma

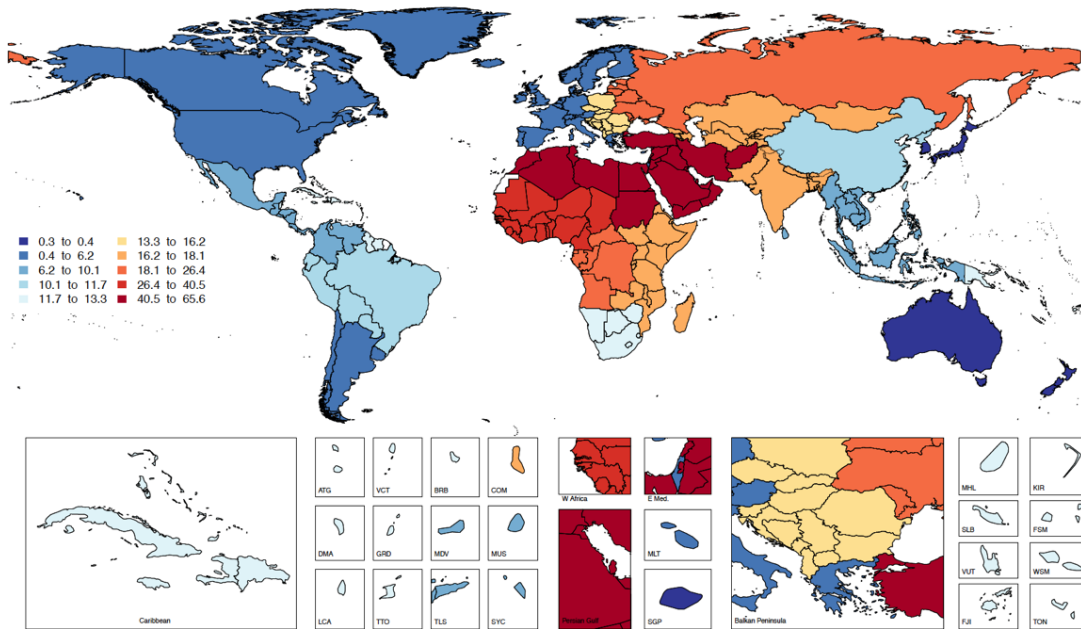


Figure 3: Traumatic amputation incidence (in thousands) and rate per 100,000 by region

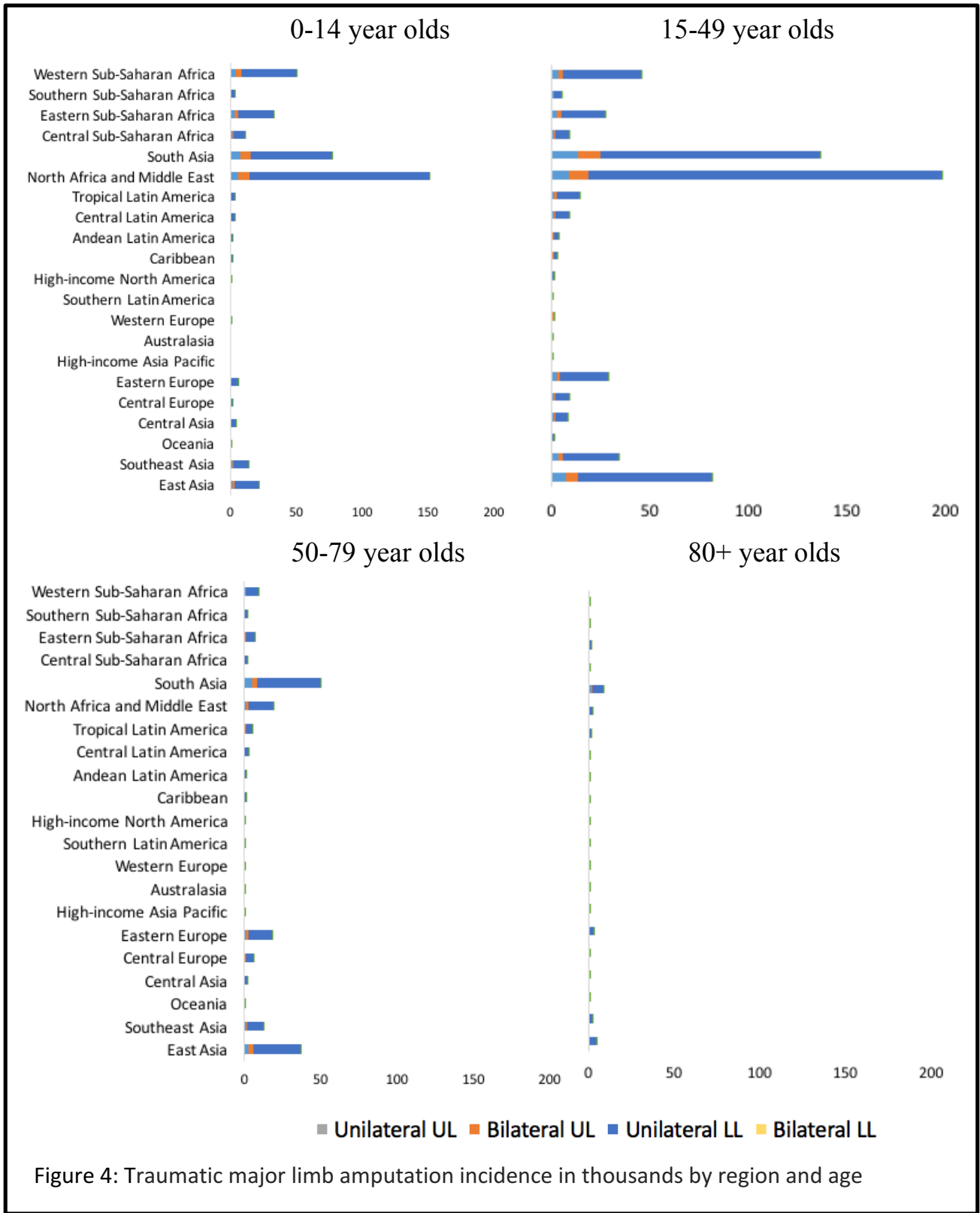


Figure 4: Traumatic major limb amputation incidence in thousands by region and age

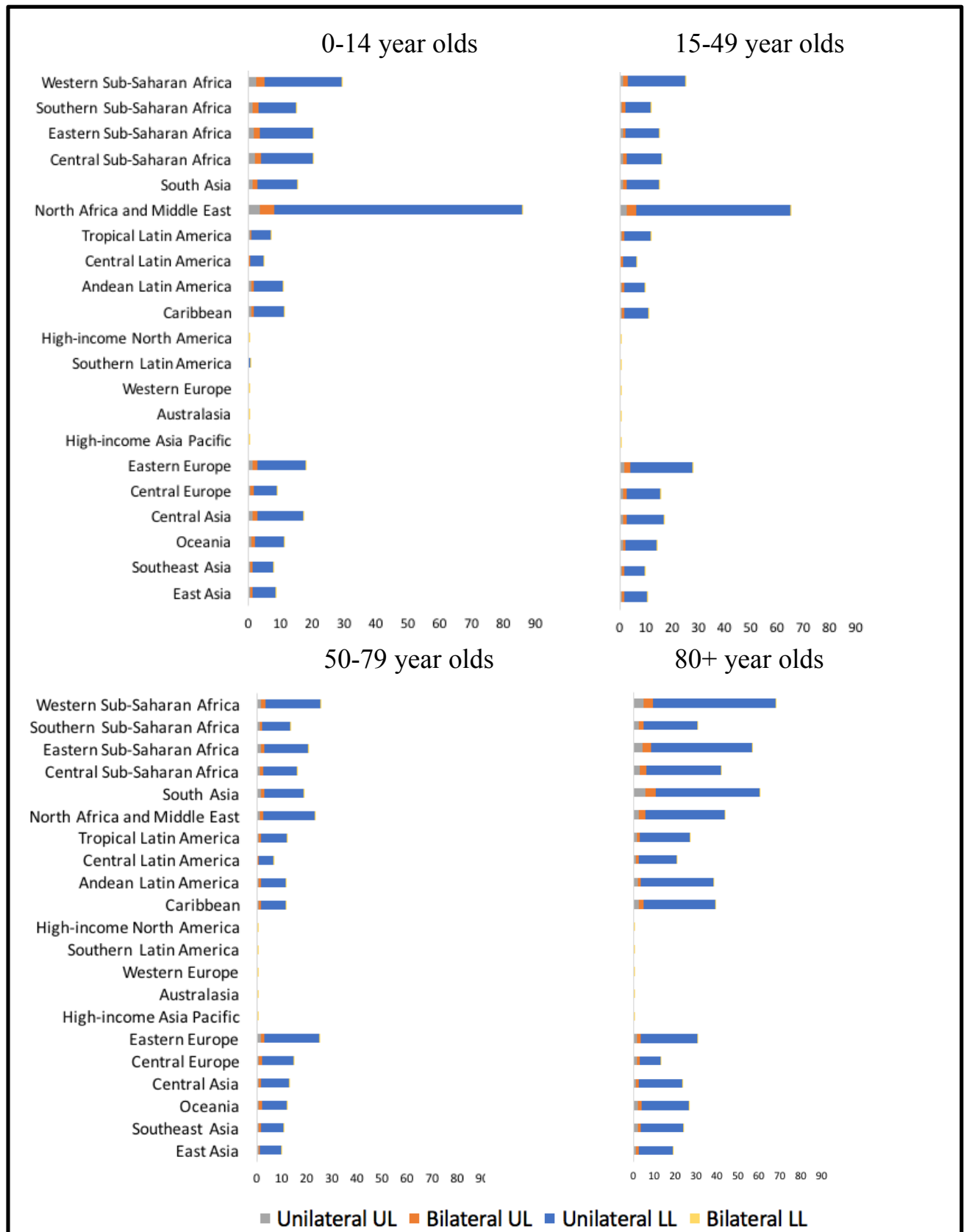


Figure 5: Traumatic major limb amputation incidence rate per 100,000 by region and age

Appendix 1. Global Burden of Disease categorization of countries by region

Location	ISO Code	Region	Super region
Afghanistan		North Africa and Middle East	North Africa and Middle East
Albania		Central Europe	Central Europe, Eastern Europe, and Central Asia
Algeria		North Africa and Middle East	North Africa and Middle East
Andorra		Western Europe	High-income
Angola		Central Sub-Saharan Africa	Sub-Saharan Africa
Antigua and Barbuda		Caribbean	Latin America and Caribbean
Argentina		Southern Latin America	High-income
Armenia		Central Asia	Central Europe, Eastern Europe, and Central Asia
Australia		Australasia	High-income
Austria		Western Europe	High-income
Azerbaijan		Central Asia	Central Europe, Eastern Europe, and Central Asia
Bahrain		North Africa and Middle East	North Africa and Middle East
Bangladesh		South Asia	South Asia
Barbados		Caribbean	Latin America and Caribbean
Belarus		Eastern Europe	Central Europe, Eastern Europe, and Central Asia
Belgium		Western Europe	High-income
Belize		Caribbean	Latin America and Caribbean
Benin		Western Sub-Saharan Africa	Sub-Saharan Africa
Bermuda		Caribbean	Latin America and Caribbean
Bhutan		South Asia	South Asia
Bolivia		Andean Latin America	Latin America and Caribbean
Bosnia and Herzegovina		Central Europe	Central Europe, Eastern Europe, and Central Asia
Botswana		Southern Sub-Saharan Africa	Sub-Saharan Africa
Brazil		Tropical Latin America	Latin America and Caribbean
Brunei		High-income Asia Pacific	High-income
Bulgaria		Central Europe	Central Europe, Eastern Europe, and Central Asia
Burkina Faso		Western Sub-Saharan Africa	Sub-Saharan Africa
Burundi		Eastern Sub-Saharan Africa	Sub-Saharan Africa
Cambodia		Southeast Asia	Southeast Asia, East Asia, and Oceania
Cameroon		Western Sub-Saharan Africa	Sub-Saharan Africa
Canada		High-income North America	High-income
Cape Verde		Western Sub-Saharan Africa	Sub-Saharan Africa
Central African Republic		Central Sub-Saharan Africa	Sub-Saharan Africa
Chad		Western Sub-Saharan Africa	Sub-Saharan Africa
Chile		Southern Latin America	High-income
China		East Asia	Southeast Asia, East Asia, and Oceania

Colombia		Central Latin America	Latin America and Caribbean
Comoros		Eastern Sub-Saharan Africa	Sub-Saharan Africa
Congo		Central Sub-Saharan Africa	Sub-Saharan Africa
Costa Rica		Central Latin America	Latin America and Caribbean
Cote d'Ivoire		Western Sub-Saharan Africa	Sub-Saharan Africa
Croatia		Central Europe	Central Europe, Eastern Europe, and Central Asia
Cuba		Caribbean	Latin America and Caribbean
Cyprus		Western Europe	High-income
Czech Republic		Central Europe	Central Europe, Eastern Europe, and Central Asia
Democratic Republic of the Congo		Central Sub-Saharan Africa	Sub-Saharan Africa
Denmark		Western Europe	High-income
Djibouti		Eastern Sub-Saharan Africa	Sub-Saharan Africa
Dominica		Caribbean	Latin America and Caribbean
Dominican Republic		Caribbean	Latin America and Caribbean
East Midlands		Western Europe	High-income
East of England		Western Europe	High-income
Ecuador		Andean Latin America	Latin America and Caribbean
Egypt		North Africa and Middle East	North Africa and Middle East
El Salvador		Central Latin America	Latin America and Caribbean
England		Western Europe	High-income
Equatorial Guinea		Central Sub-Saharan Africa	Sub-Saharan Africa
Eritrea		Eastern Sub-Saharan Africa	Sub-Saharan Africa
Estonia		Eastern Europe	Central Europe, Eastern Europe, and Central Asia
Ethiopia		Eastern Sub-Saharan Africa	Sub-Saharan Africa
Federated States of Micronesia		Oceania	Southeast Asia, East Asia, and Oceania
Fiji		Oceania	Southeast Asia, East Asia, and Oceania
Finland		Western Europe	High-income
France		Western Europe	High-income
Gabon		Central Sub-Saharan Africa	Sub-Saharan Africa
Georgia		Central Asia	Central Europe, Eastern Europe, and Central Asia
Germany		Western Europe	High-income
Ghana		Western Sub-Saharan Africa	Sub-Saharan Africa
Greater London		Western Europe	High-income
Greece		Western Europe	High-income
Greenland		High-income North America	High-income
Grenada		Caribbean	Latin America and Caribbean
Guatemala		Central Latin America	Latin America and Caribbean
Guinea		Western Sub-Saharan Africa	Sub-Saharan Africa
Guinea-Bissau		Western Sub-Saharan Africa	Sub-Saharan Africa
Guyana		Caribbean	Latin America and Caribbean

Haiti		Caribbean	Latin America and Caribbean
Honduras		Central Latin America	Latin America and Caribbean
Hungary		Central Europe	Central Europe, Eastern Europe, and Central Asia
Iceland		Western Europe	High-income
India		South Asia	South Asia
Indonesia		Southeast Asia	Southeast Asia, East Asia, and Oceania
Iran		North Africa and Middle East	North Africa and Middle East
Iraq		North Africa and Middle East	North Africa and Middle East
Ireland		Western Europe	High-income
Israel		Western Europe	High-income
Italy		Western Europe	High-income
Jamaica		Caribbean	Latin America and Caribbean
Japan		High-income Asia Pacific	High-income
Jordan		North Africa and Middle East	North Africa and Middle East
Kazakhstan		Central Asia	Central Europe, Eastern Europe, and Central Asia
Kenya		Eastern Sub-Saharan Africa	Sub-Saharan Africa
Kiribati		Oceania	Southeast Asia, East Asia, and Oceania
Kuwait		North Africa and Middle East	North Africa and Middle East
Kyrgyzstan		Central Asia	Central Europe, Eastern Europe, and Central Asia
Laos		Southeast Asia	Southeast Asia, East Asia, and Oceania
Latvia		Eastern Europe	Central Europe, Eastern Europe, and Central Asia
Lebanon		North Africa and Middle East	North Africa and Middle East
Lesotho		Southern Sub-Saharan Africa	Sub-Saharan Africa
Liberia		Western Sub-Saharan Africa	Sub-Saharan Africa
Libya		North Africa and Middle East	North Africa and Middle East
Lithuania		Eastern Europe	Central Europe, Eastern Europe, and Central Asia
Luxembourg		Western Europe	High-income
Macedonia		Central Europe	Central Europe, Eastern Europe, and Central Asia
Madagascar		Eastern Sub-Saharan Africa	Sub-Saharan Africa
Malawi		Eastern Sub-Saharan Africa	Sub-Saharan Africa
Malaysia		Southeast Asia	Southeast Asia, East Asia, and Oceania
Maldives		Southeast Asia	Southeast Asia, East Asia, and Oceania
Mali		Western Sub-Saharan Africa	Sub-Saharan Africa
Malta		Western Europe	High-income
Marshall Islands		Oceania	Southeast Asia, East Asia, and Oceania
Mauritania		Western Sub-Saharan Africa	Sub-Saharan Africa
Mauritius		Southeast Asia	Southeast Asia, East Asia, and Oceania
Mexico		Central Latin America	Latin America and Caribbean
Moldova		Eastern Europe	Central Europe, Eastern Europe, and Central Asia

Mongolia		Central Asia	Central Europe, Eastern Europe, and Central Asia
Montenegro		Central Europe	Central Europe, Eastern Europe, and Central Asia
Morocco		North Africa and Middle East	North Africa and Middle East
Mozambique		Eastern Sub-Saharan Africa	Sub-Saharan Africa
Myanmar		Southeast Asia	Southeast Asia, East Asia, and Oceania
Namibia		Southern Sub-Saharan Africa	Sub-Saharan Africa
Nepal		South Asia	South Asia
Netherlands		Western Europe	High-income
New Zealand		Australasia	High-income
Nicaragua		Central Latin America	Latin America and Caribbean
Niger		Western Sub-Saharan Africa	Sub-Saharan Africa
Nigeria		Western Sub-Saharan Africa	Sub-Saharan Africa
North East England		Western Europe	High-income
North Korea		East Asia	Southeast Asia, East Asia, and Oceania
North West England		Western Europe	High-income
Northern Ireland		Western Europe	High-income
Norway		Western Europe	High-income
Oman		North Africa and Middle East	North Africa and Middle East
Pakistan		South Asia	South Asia
Palestine		North Africa and Middle East	North Africa and Middle East
Panama		Central Latin America	Latin America and Caribbean
Papua New Guinea		Oceania	Southeast Asia, East Asia, and Oceania
Paraguay		Tropical Latin America	Latin America and Caribbean
Peru		Andean Latin America	Latin America and Caribbean
Philippines		Southeast Asia	Southeast Asia, East Asia, and Oceania
Poland		Central Europe	Central Europe, Eastern Europe, and Central Asia
Portugal		Western Europe	High-income
Puerto Rico		Caribbean	Latin America and Caribbean
Qatar		North Africa and Middle East	North Africa and Middle East
Romania		Central Europe	Central Europe, Eastern Europe, and Central Asia
Russia		Eastern Europe	Central Europe, Eastern Europe, and Central Asia
Rwanda		Eastern Sub-Saharan Africa	Sub-Saharan Africa
Saint Lucia		Caribbean	Latin America and Caribbean
Saint Vincent and the Grenadines		Caribbean	Latin America and Caribbean
Samoa		Oceania	Southeast Asia, East Asia, and Oceania
Sao Tome and Principe		Western Sub-Saharan Africa	Sub-Saharan Africa
Saudi Arabia		North Africa and Middle East	North Africa and Middle East
Scotland		Western Europe	High-income
Senegal		Western Sub-Saharan Africa	Sub-Saharan Africa
Serbia		Central Europe	Central Europe, Eastern Europe, and Central Asia

Seychelles		Southeast Asia	Southeast Asia, East Asia, and Oceania
Sierra Leone		Western Sub-Saharan Africa	Sub-Saharan Africa
Singapore		High-income Asia Pacific	High-income
Slovakia		Central Europe	Central Europe, Eastern Europe, and Central Asia
Slovenia		Central Europe	Central Europe, Eastern Europe, and Central Asia
Solomon Islands		Oceania	Southeast Asia, East Asia, and Oceania
Somalia		Eastern Sub-Saharan Africa	Sub-Saharan Africa
South Africa		Southern Sub-Saharan Africa	Sub-Saharan Africa
South East England		Western Europe	High-income
South Korea		High-income Asia Pacific	High-income
South Sudan		Eastern Sub-Saharan Africa	Sub-Saharan Africa
South West England		Western Europe	High-income
Spain		Western Europe	High-income
Sri Lanka		Southeast Asia	Southeast Asia, East Asia, and Oceania
Sudan		North Africa and Middle East	North Africa and Middle East
Suriname		Caribbean	Latin America and Caribbean
Swaziland		Southern Sub-Saharan Africa	Sub-Saharan Africa
Sweden		Western Europe	High-income
Switzerland		Western Europe	High-income
Syria		North Africa and Middle East	North Africa and Middle East
Taiwan		East Asia	Southeast Asia, East Asia, and Oceania
Tajikistan		Central Asia	Central Europe, Eastern Europe, and Central Asia
Tanzania		Eastern Sub-Saharan Africa	Sub-Saharan Africa
Thailand		Southeast Asia	Southeast Asia, East Asia, and Oceania
The Bahamas		Caribbean	Latin America and Caribbean
The Gambia		Western Sub-Saharan Africa	Sub-Saharan Africa
Timor-Leste		Southeast Asia	Southeast Asia, East Asia, and Oceania
Togo		Western Sub-Saharan Africa	Sub-Saharan Africa
Tonga		Oceania	Southeast Asia, East Asia, and Oceania
Trinidad and Tobago		Caribbean	Latin America and Caribbean
Tunisia		North Africa and Middle East	North Africa and Middle East
Turkey		North Africa and Middle East	North Africa and Middle East
Turkmenistan		Central Asia	Central Europe, Eastern Europe, and Central Asia
Uganda		Eastern Sub-Saharan Africa	Sub-Saharan Africa
Ukraine		Eastern Europe	Central Europe, Eastern Europe, and Central Asia
United Arab Emirates		North Africa and Middle East	North Africa and Middle East
United States		High-income North America	High-income
Uruguay		Southern Latin America	High-income
Uzbekistan		Central Asia	Central Europe, Eastern Europe, and Central Asia
Vanuatu		Oceania	Southeast Asia, East Asia, and Oceania

Venezuela		Central Latin America	Latin America and Caribbean
Vietnam		Southeast Asia	Southeast Asia, East Asia, and Oceania
Wales		Western Europe	High-income
West Midlands		Western Europe	High-income
Yemen		North Africa and Middle East	North Africa and Middle East
Yorkshire and the Humber		Western Europe	High-income
Zambia		Eastern Sub-Saharan Africa	Sub-Saharan Africa
Zimbabwe		Southern Sub-Saharan Africa	Sub-Saharan Africa

