



Emerging Markets Symposium

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Young People and the Future of Emerging Markets



An Analytical Framework

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1 Introduction

The purpose of this document is to provide comprehensive information and data on a number of areas relating to young people in emerging markets together with relevant macro-economic and demographic information. The focus is on emerging markets, but the graphs also include comparative data on selected high income and low income countries. The countries included are shown in Table 1.

Table 1: Lists of Countries

<i>Emerging Market Countries</i>
Argentina, Brazil, China, Chile, Colombia, Egypt, India, Indonesia, Jordan, Malaysia, Mexico, Pakistan, Peru, Philippines, Poland, Russia, South Africa, Thailand, Tunisia, Turkey
<i>High Income Countries Aggregate</i>
Australia, Japan, Switzerland, United Kingdom, United States
<i>Low Income Countries Aggregate</i>
Bangladesh, Cambodia, Ethiopia, Haiti, Nigeria

Sources

The graphs presented here are primarily based on data from the World Bank, World Health Organisation and United Nations Population Statistics. Unless otherwise stated in the tables themselves information on sources can be found at the end of this document.

Definitions and Caveats

Age dependency ratio (young) shows the ratio of younger dependents (people younger than 15) to the working-age population (those aged 15-64). Age dependency ratio (old) shows the ratio of older dependents (people aged 65+) to the working-age population (those aged 15-64). Age dependency ratio (total) shows the ratio of both older and younger dependents (people aged under 15 and 65+) to the working-age population (those aged 15-64). The charts show the proportion of dependents per 100 working-age population.

Reference Years

The numbers displayed on the graphs are for a specific year or years. The year(s) are identified in the title line of each graph.

The most recent data point available for each country is displayed above each entry in the graphs. This number will usually reflect the last year in the specified range for each graph but, where the last year is not available, the data point will reflect the most recent data available for the relevant country.

2 Macro Indicators

This section benchmarks demographic, economic and other macro indicators for emerging markets against indicators for comparator countries for the period 1990-2014 (subject to data availability). The numbers shown on the charts in this section are for 2014 or, where the data for 2014 is not available, for the most recent available year.

2.1 Population and Migration

Figure 1: Total Population (millions), 1990-2014

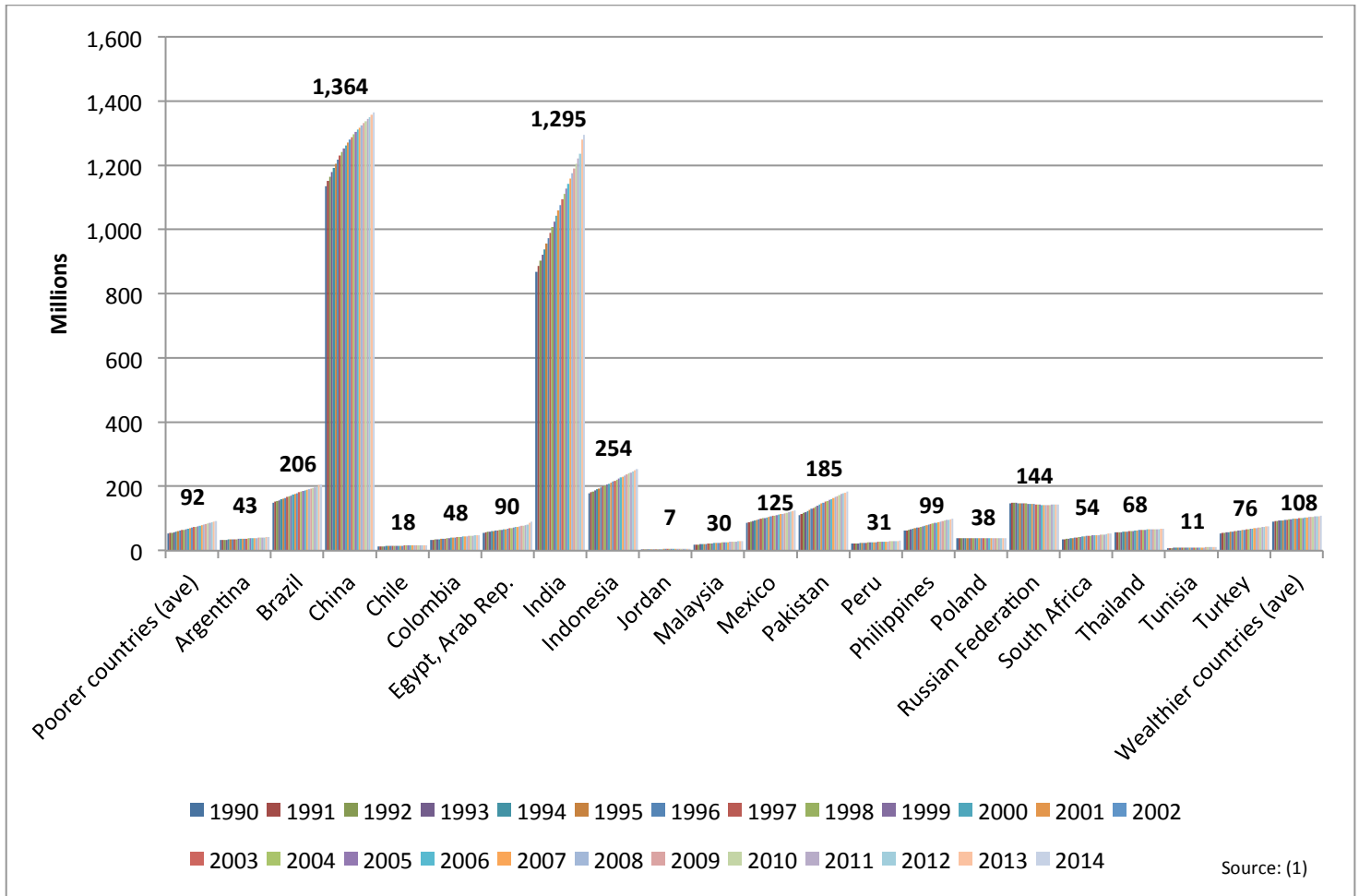
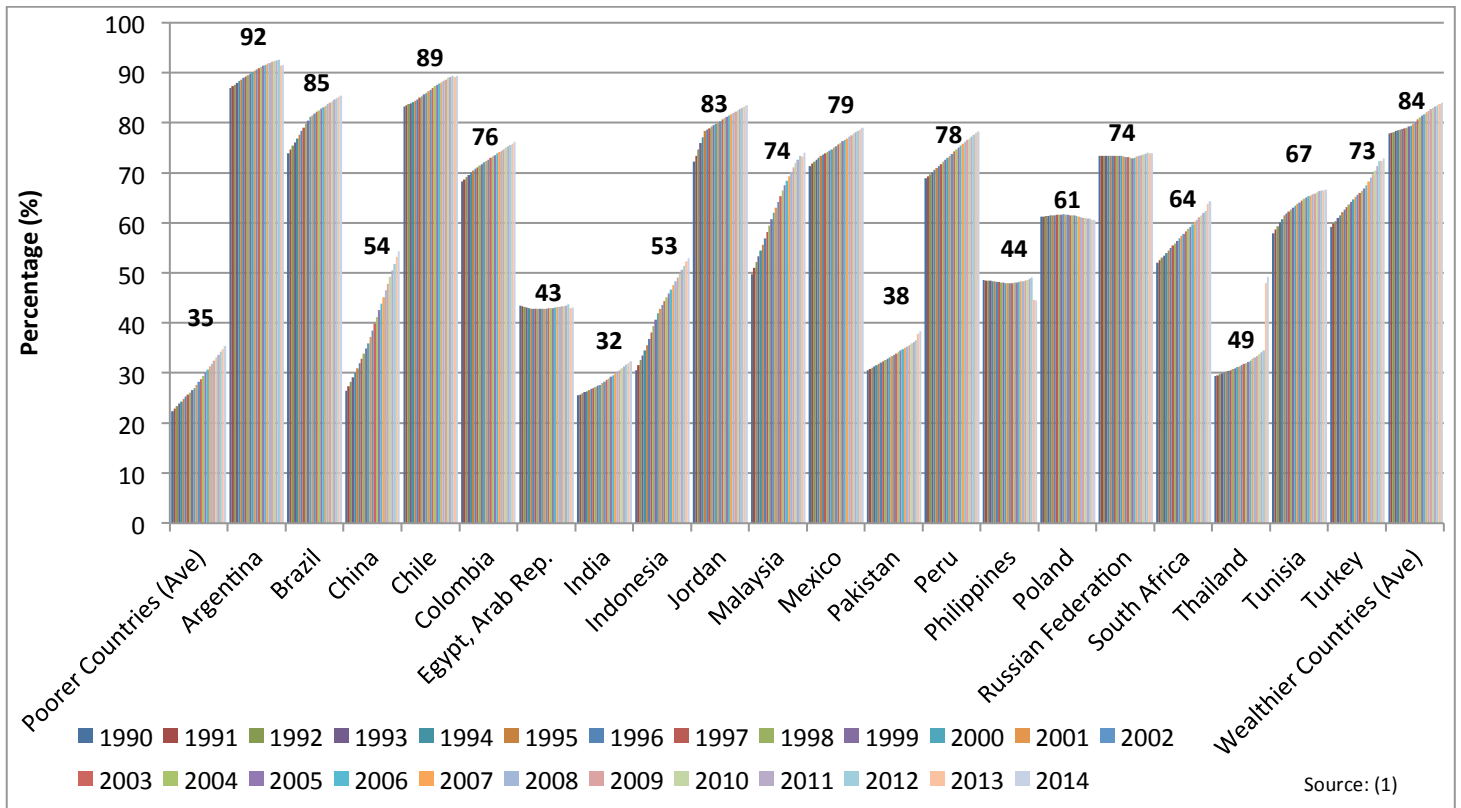
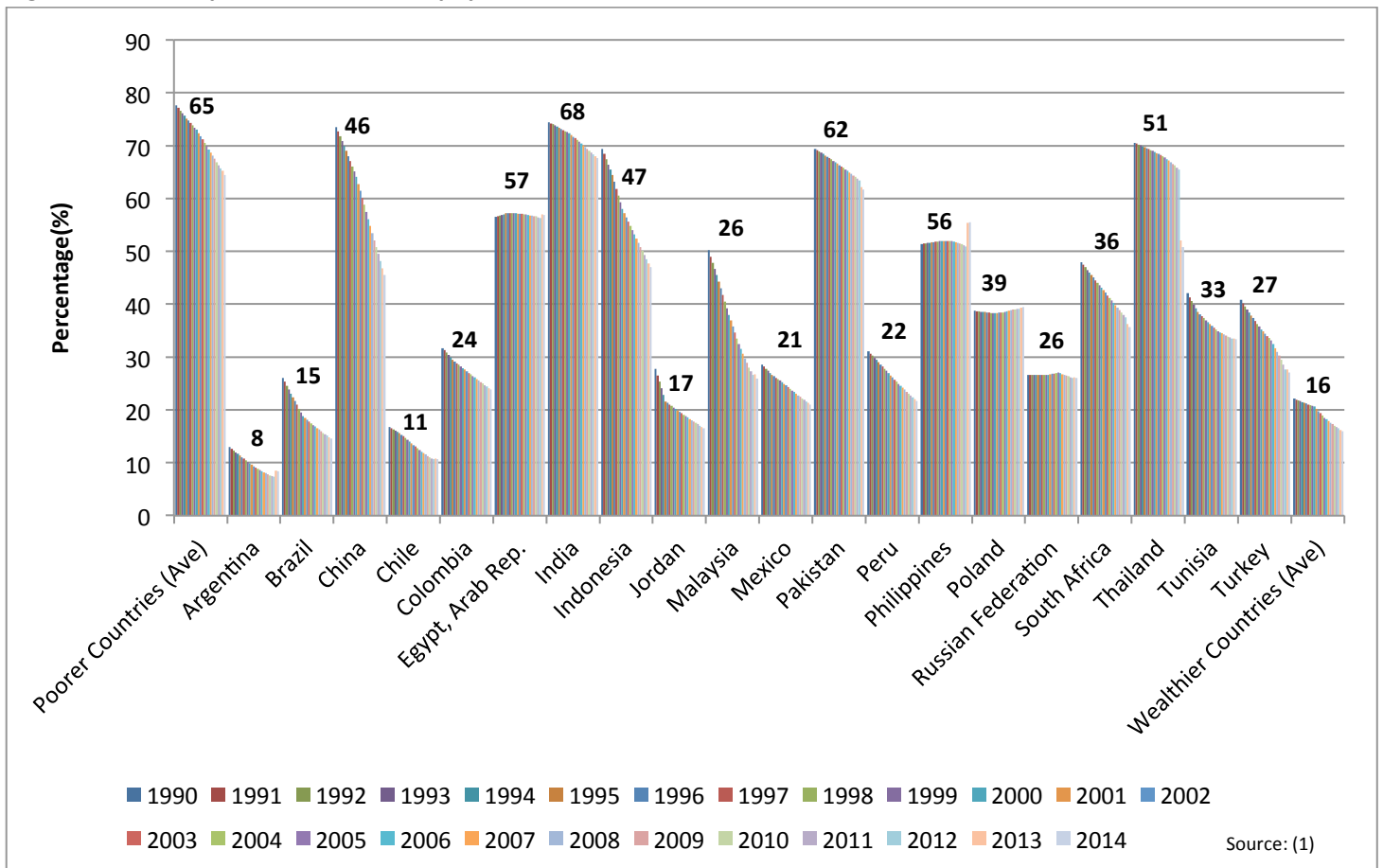


Figure 2: Urban population (% of total), 1990-2014



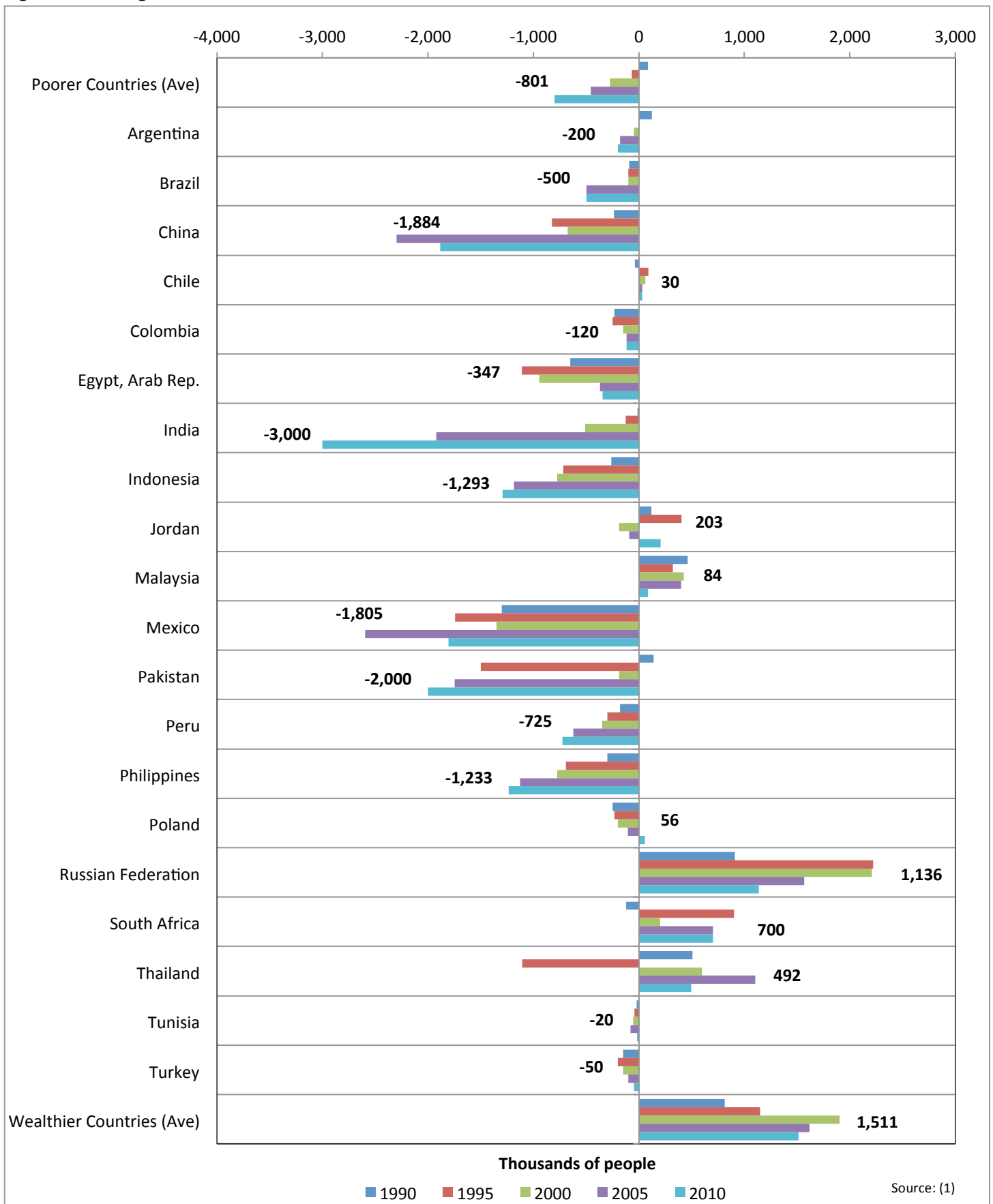
Source: (1)

Figure 3: Rural Population (% of total population), 1990-2014



Source: (1)

Figure 4: Net Migration, 1990-1995-2000-2005-2010.



2.2 Gross Domestic Product (GDP) and National Expenditure Indicators

Figure 5: GDP (constant 2005 US\$, billion), 1990-2014

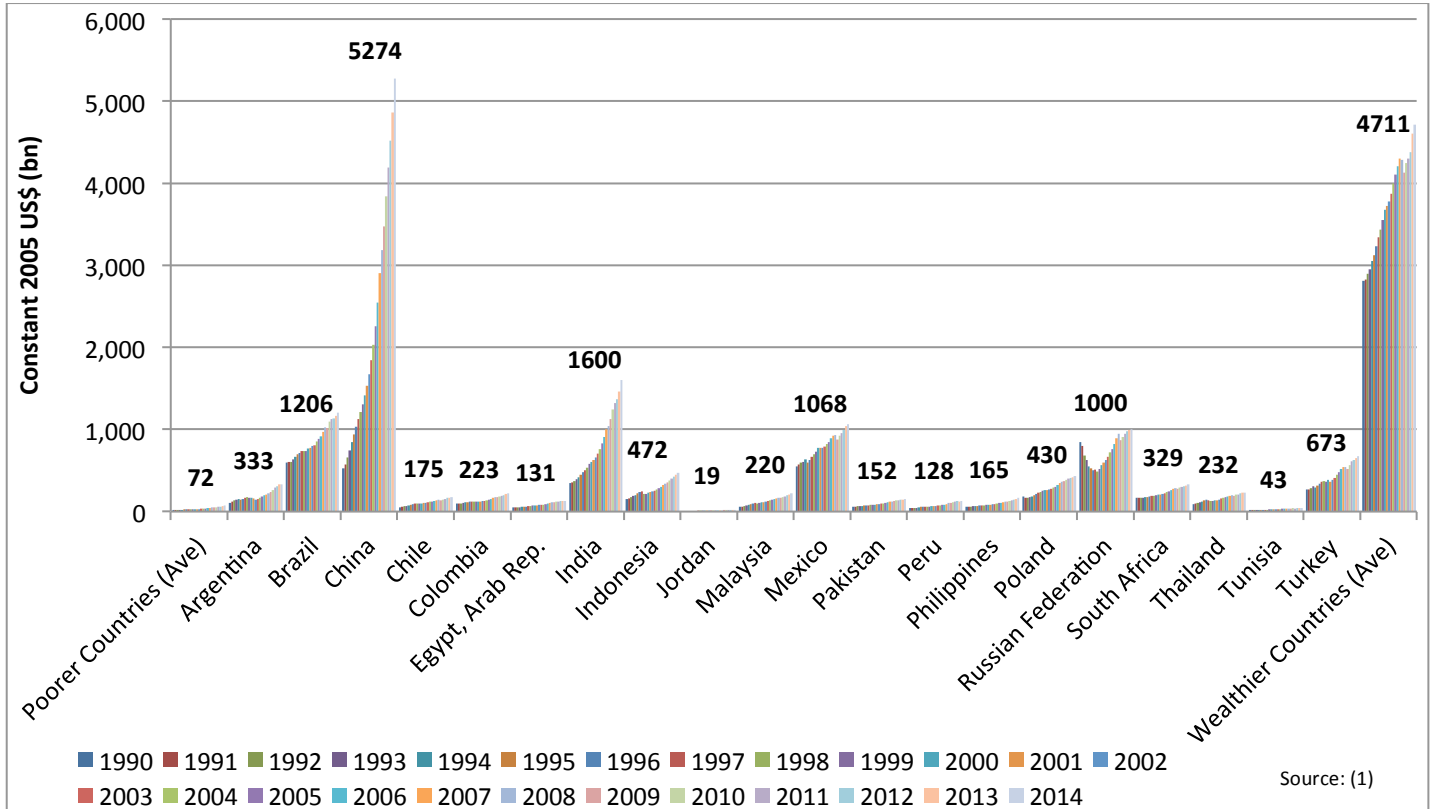


Figure 6: GDP (current US\$, billion), 1990-2014

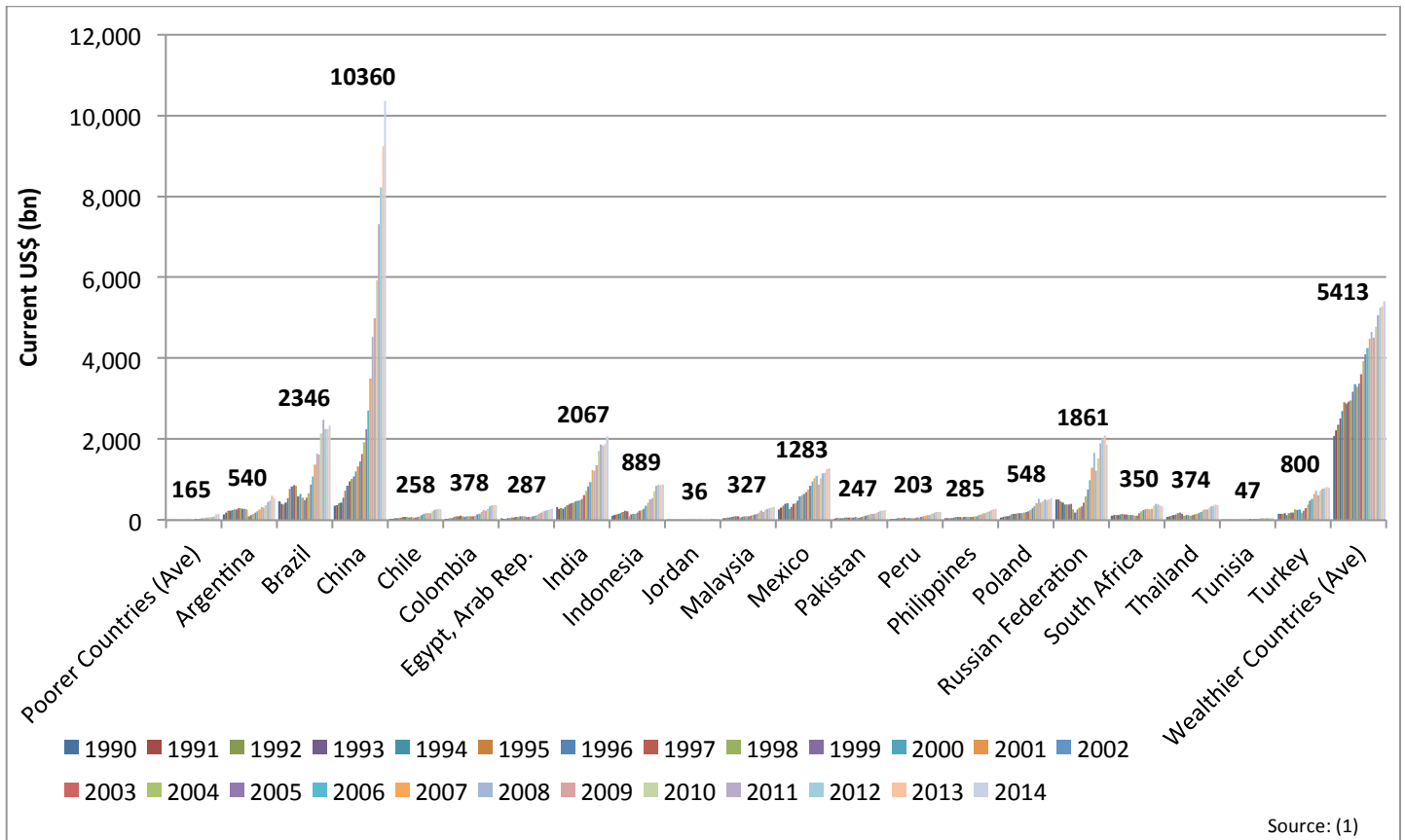
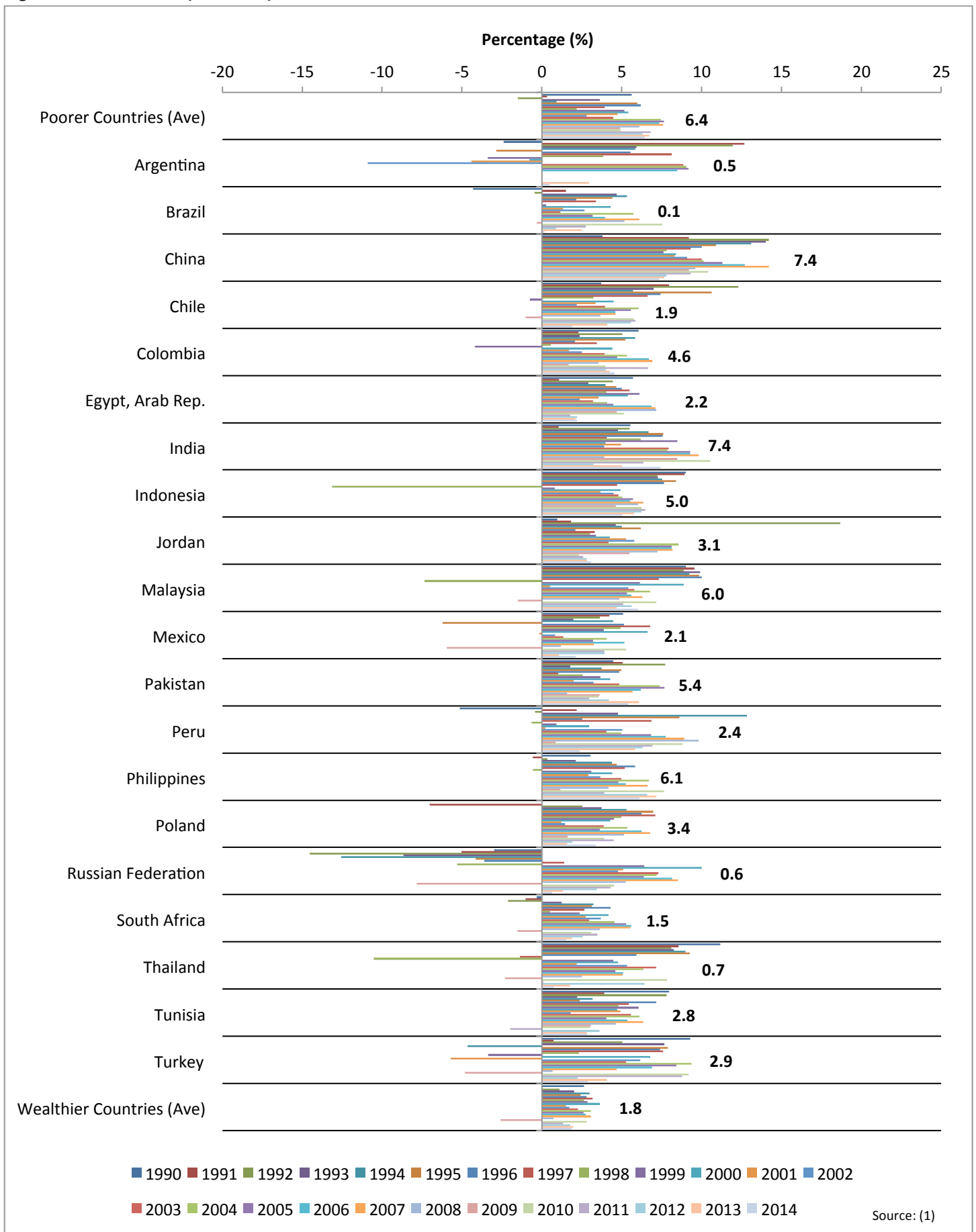


Figure 7: GDP Growth (annual %), 1990-2014



Source: (1)

Figure 8: GDP per Capita (constant 2005 US\$), 1990-2014

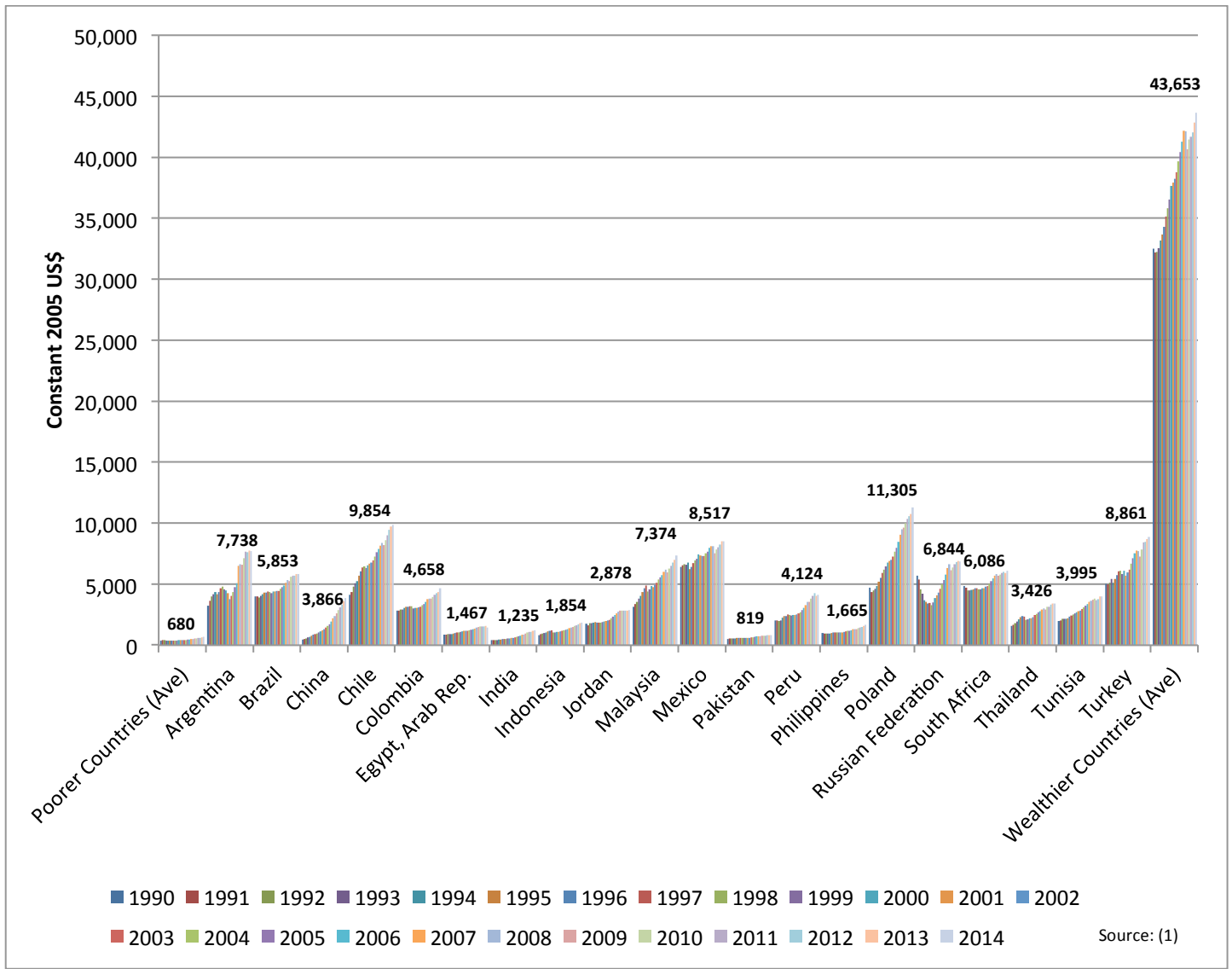


Figure 9: GDP per Capita Growth (annual %), 1990-2014

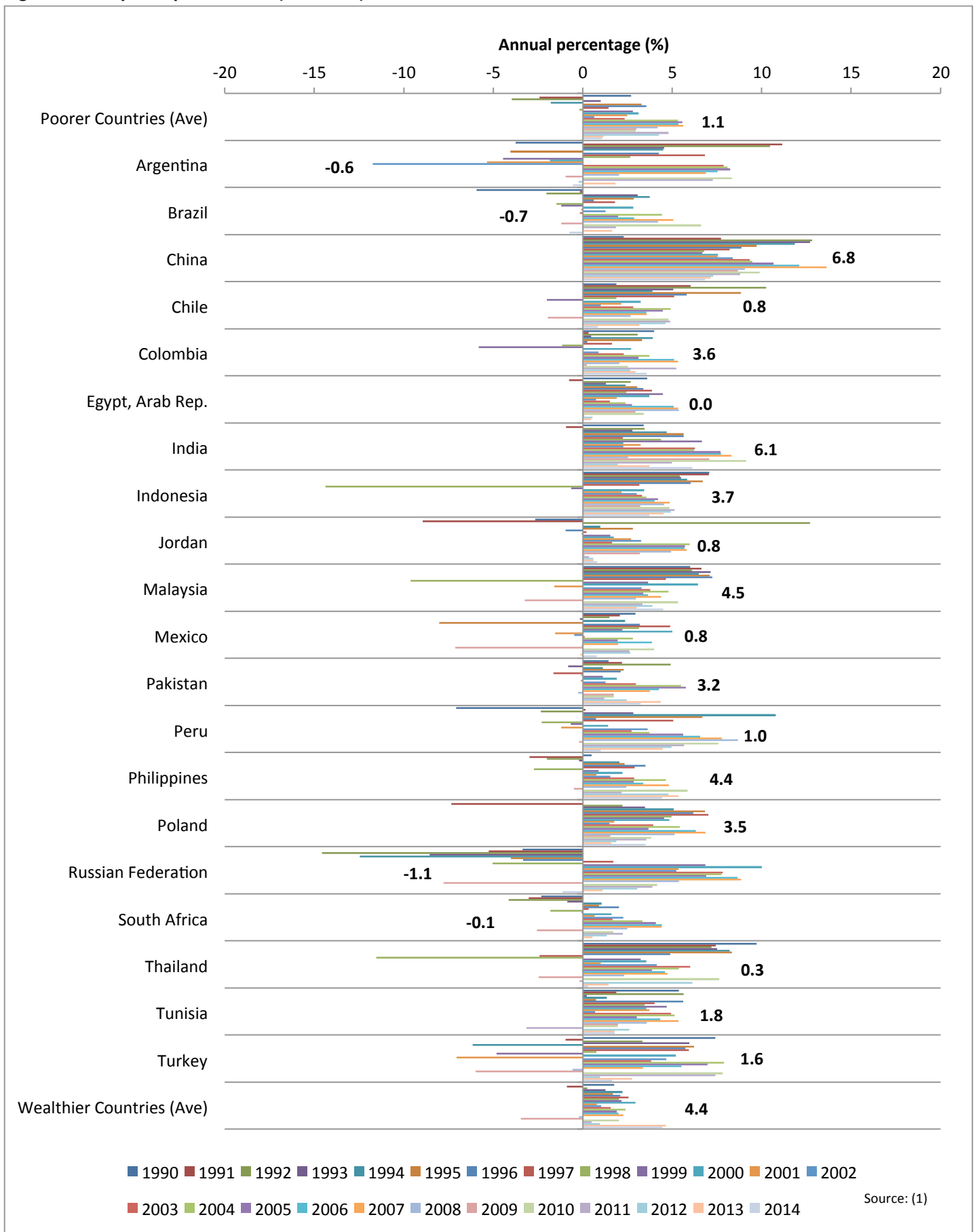


Figure 10: GDP per Capita, Purchasing Power Parity (PPP) in Constant 2011 Dollars, 1990-2014

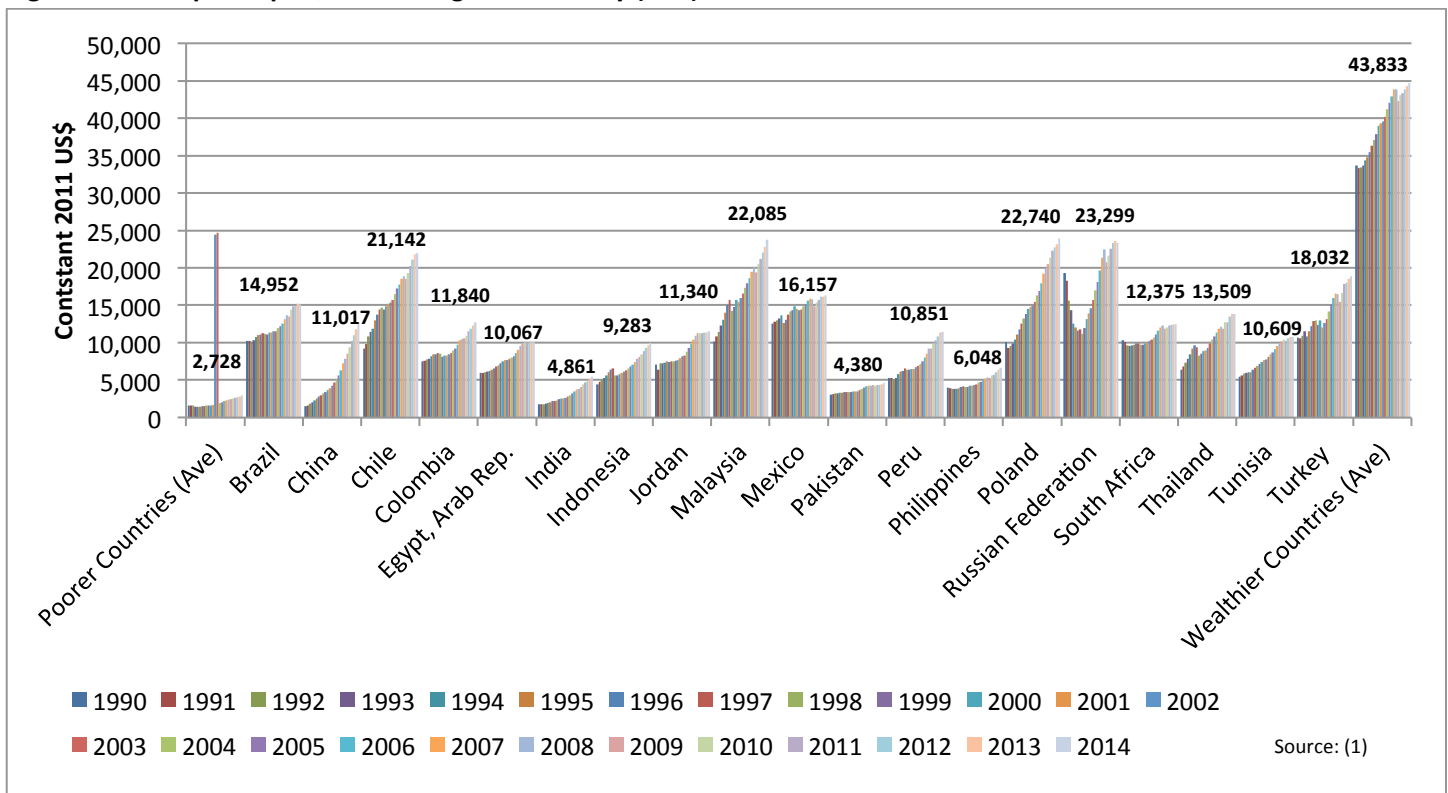


Figure 11: GDP, PPP (current international billion US\$), 1990-2014

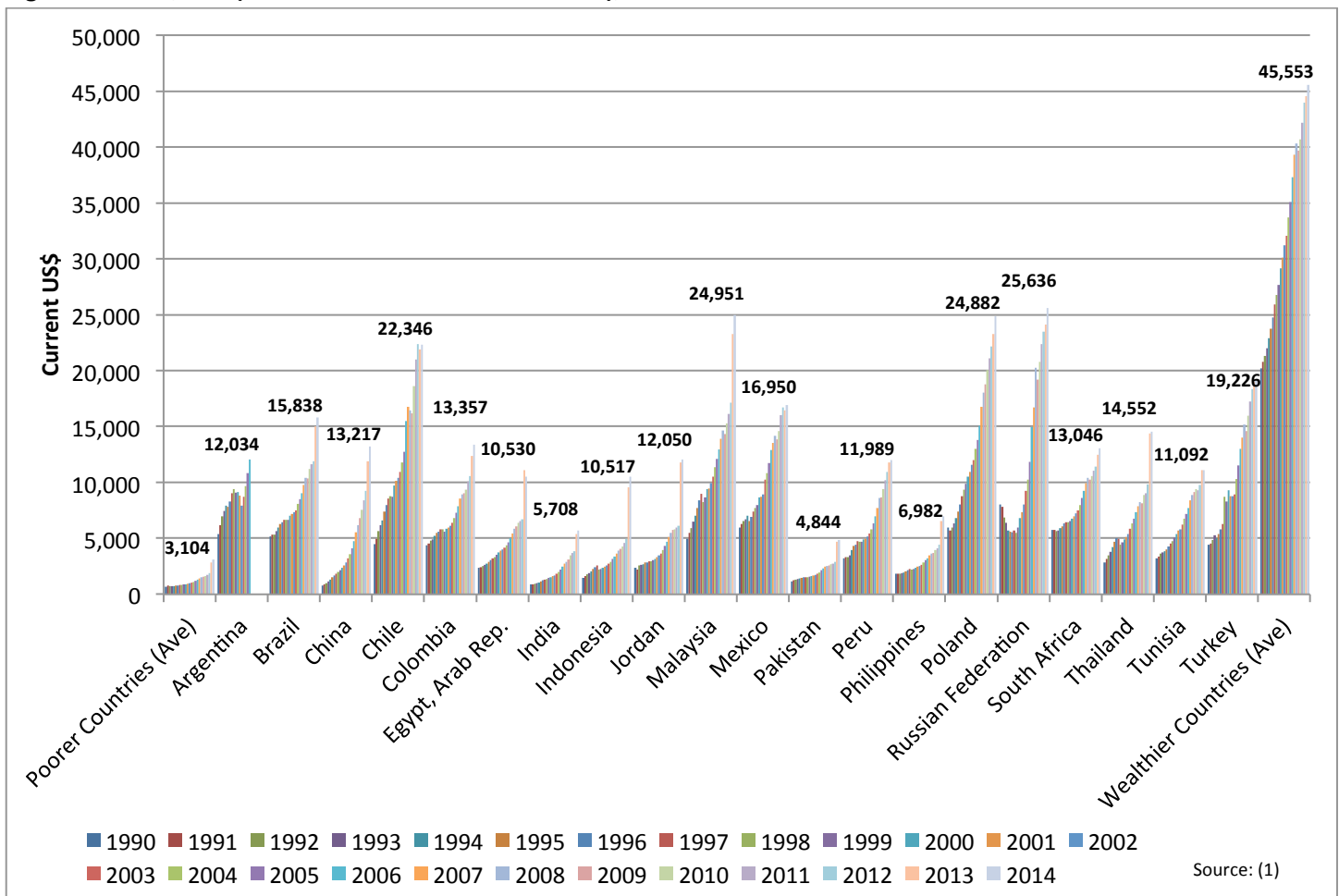


Figure 12: GDP, PPP (Constant 2011 billion US\$), 1990-2014

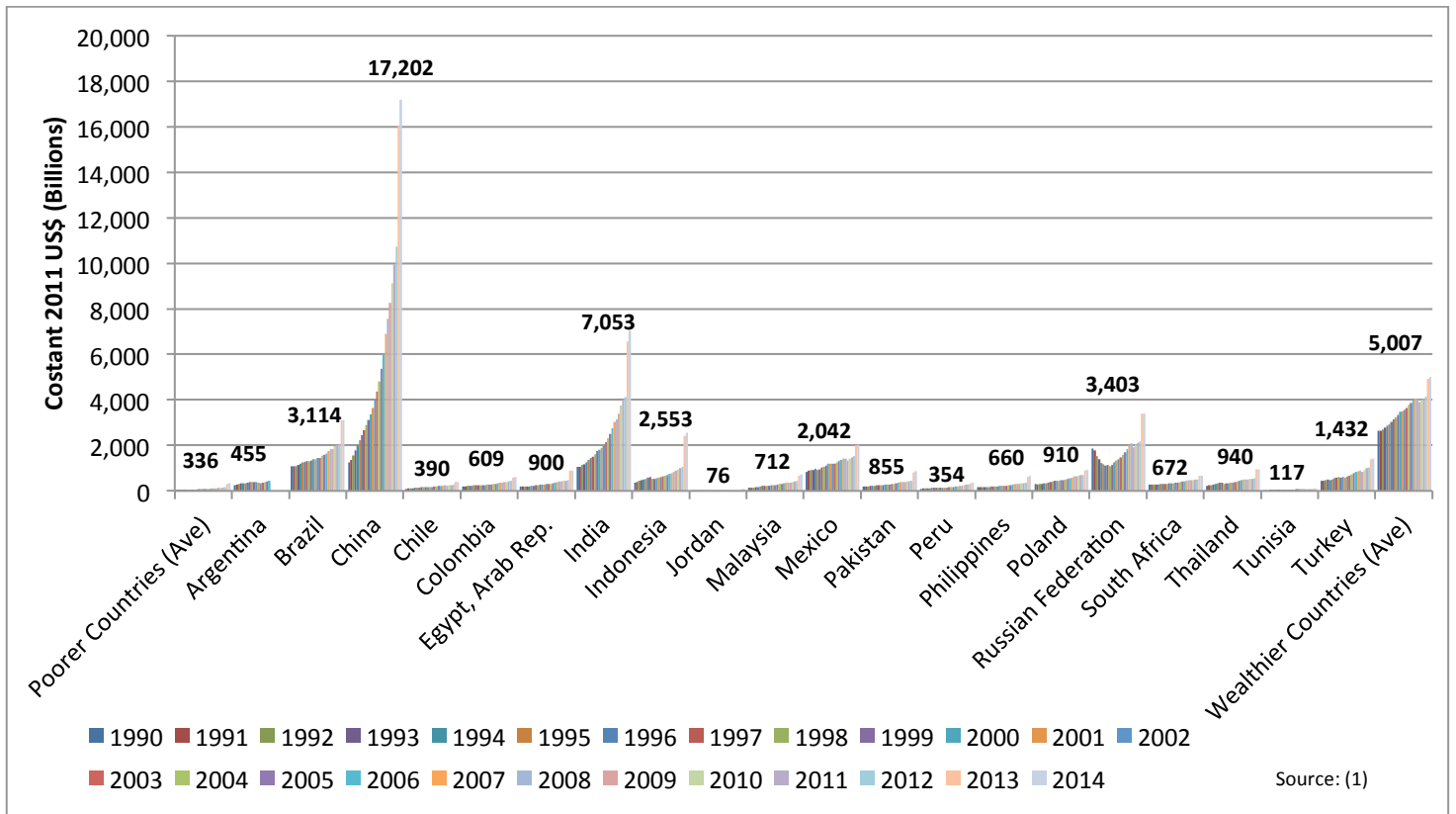


Figure 13: Gross National Expenditure (% of GDP), 1990-2014

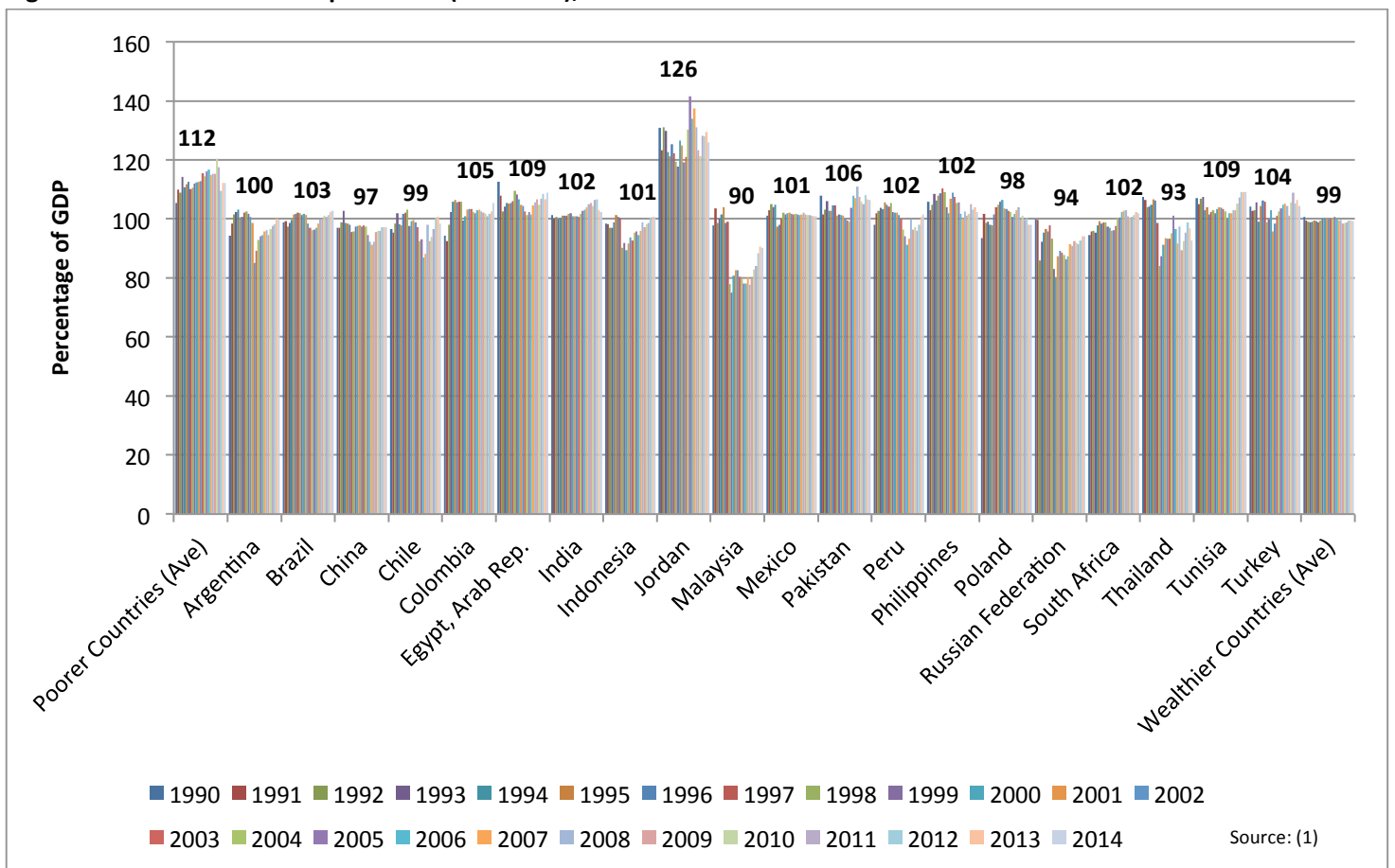


Figure 14: Inflation, GDP Deflator (annual %), 1990-2014

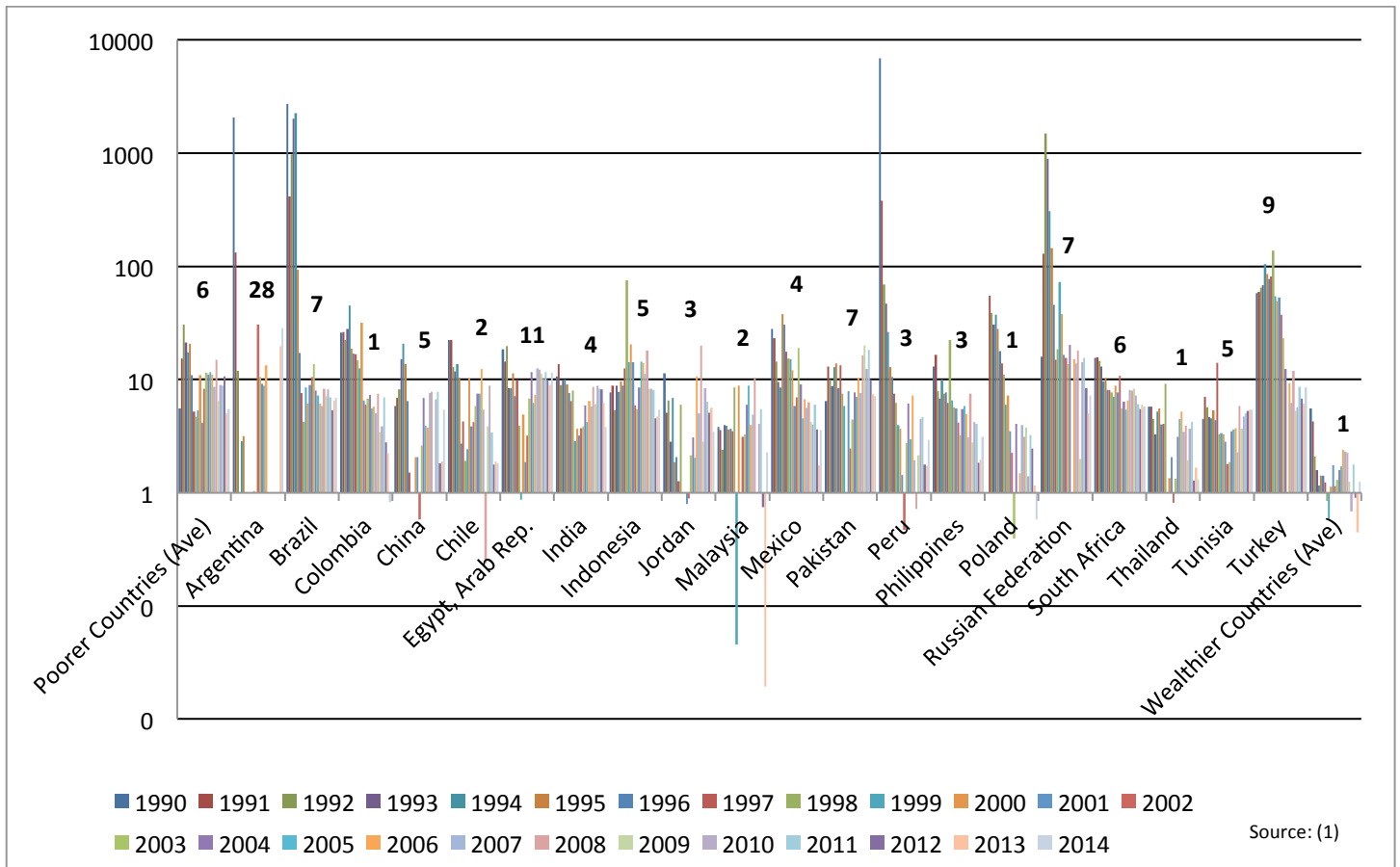


Figure 15: Tax Revenues (% of GDP) 1990-2013

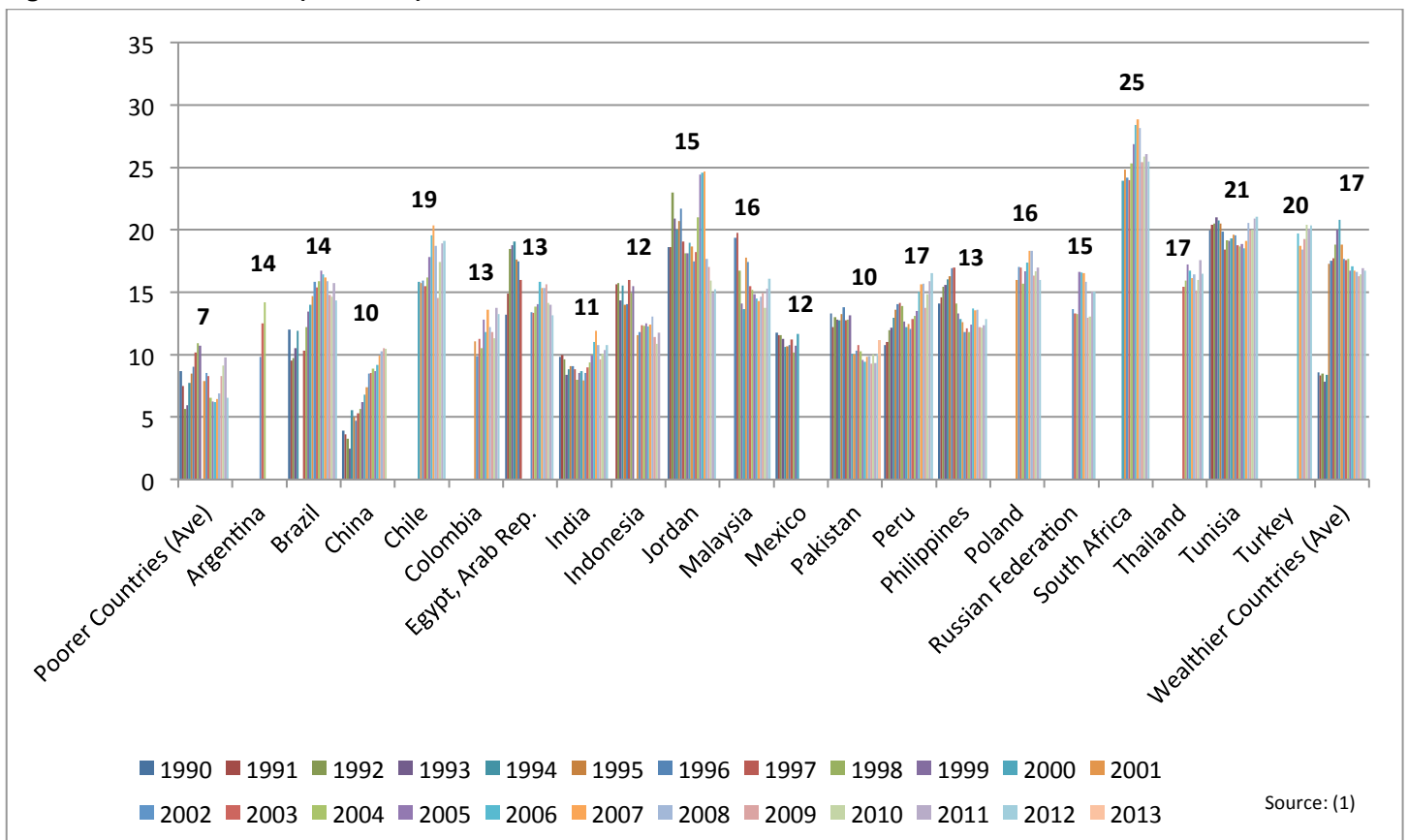
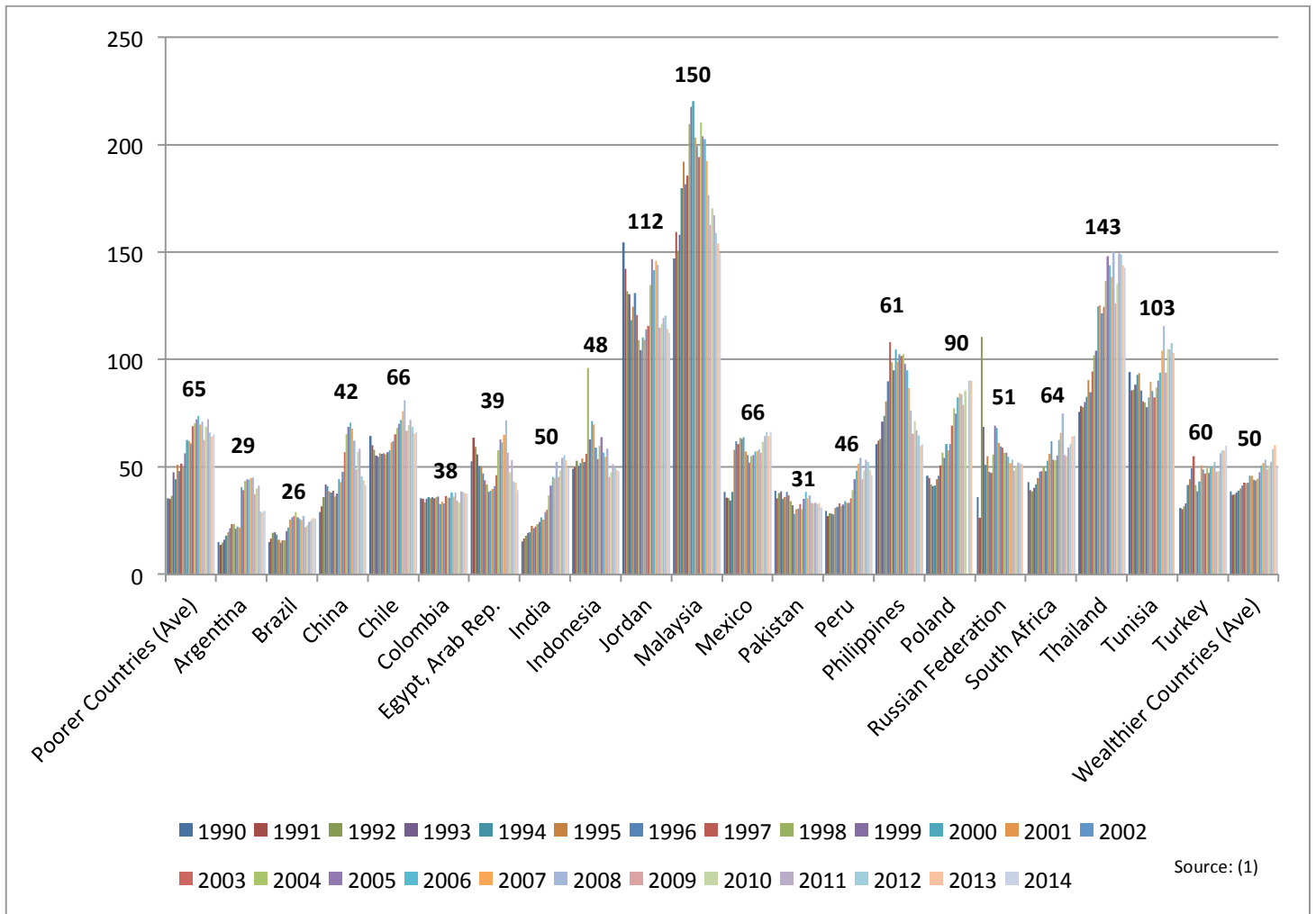


Figure 16: Trade (% of GDP), 1990-2014



2.3 Other Development Indicators

Figure 17: Self-employed, total (% of total employed), 1990-2013

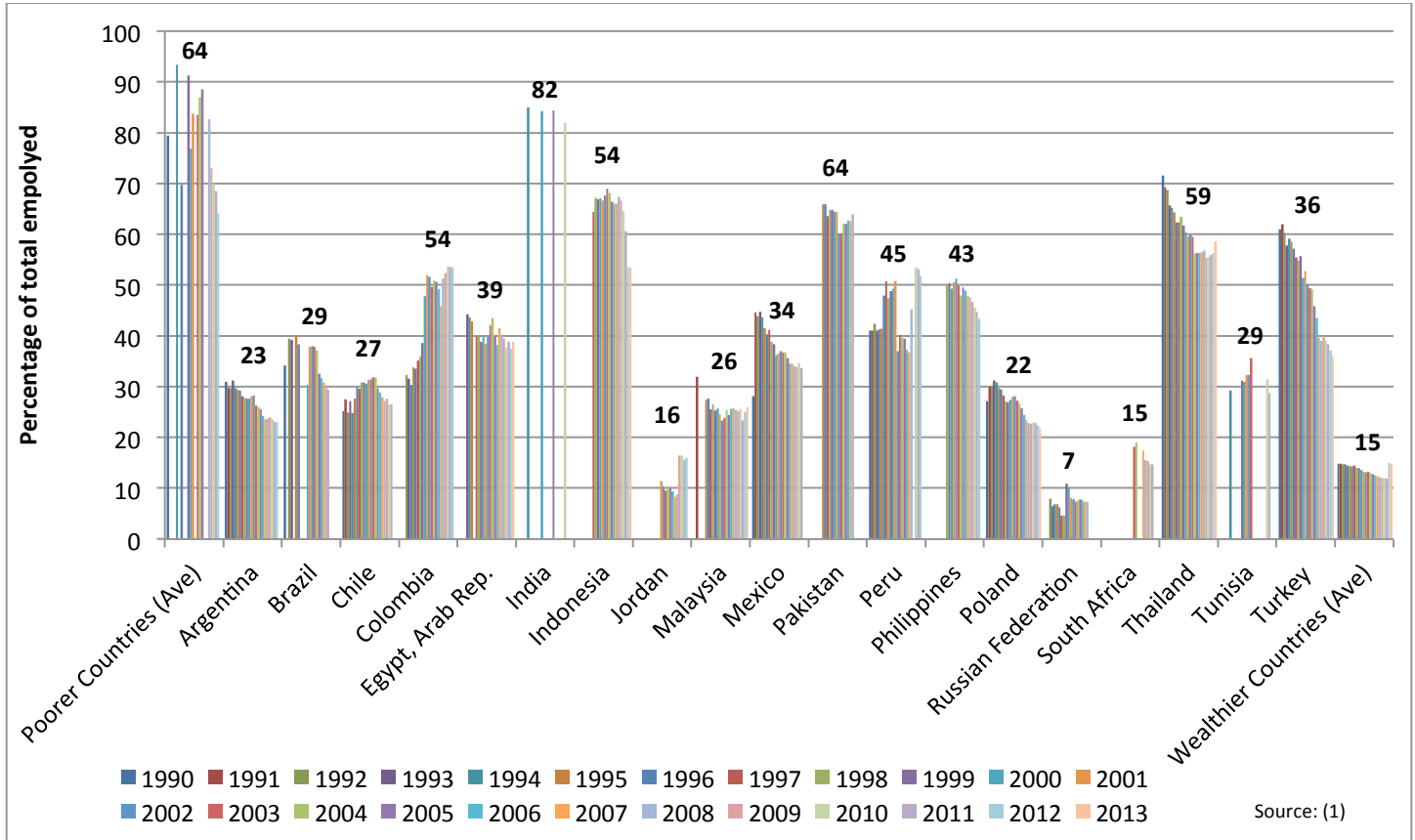


Figure 18: Internet Users (per 100 people), 1990-2014

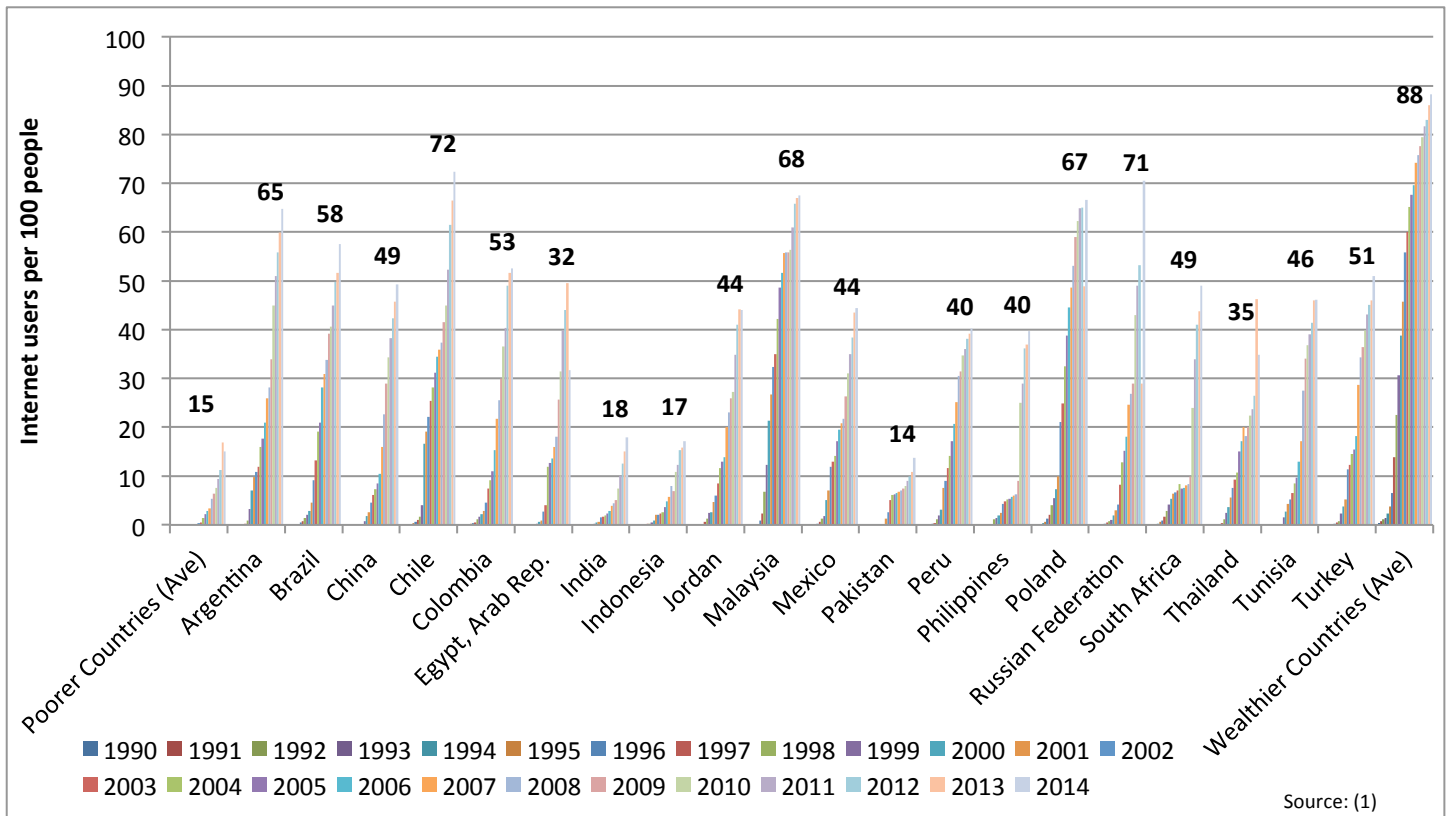


Figure 19: Mobile Phone Subscriptions (per 100 people), 1990-2014

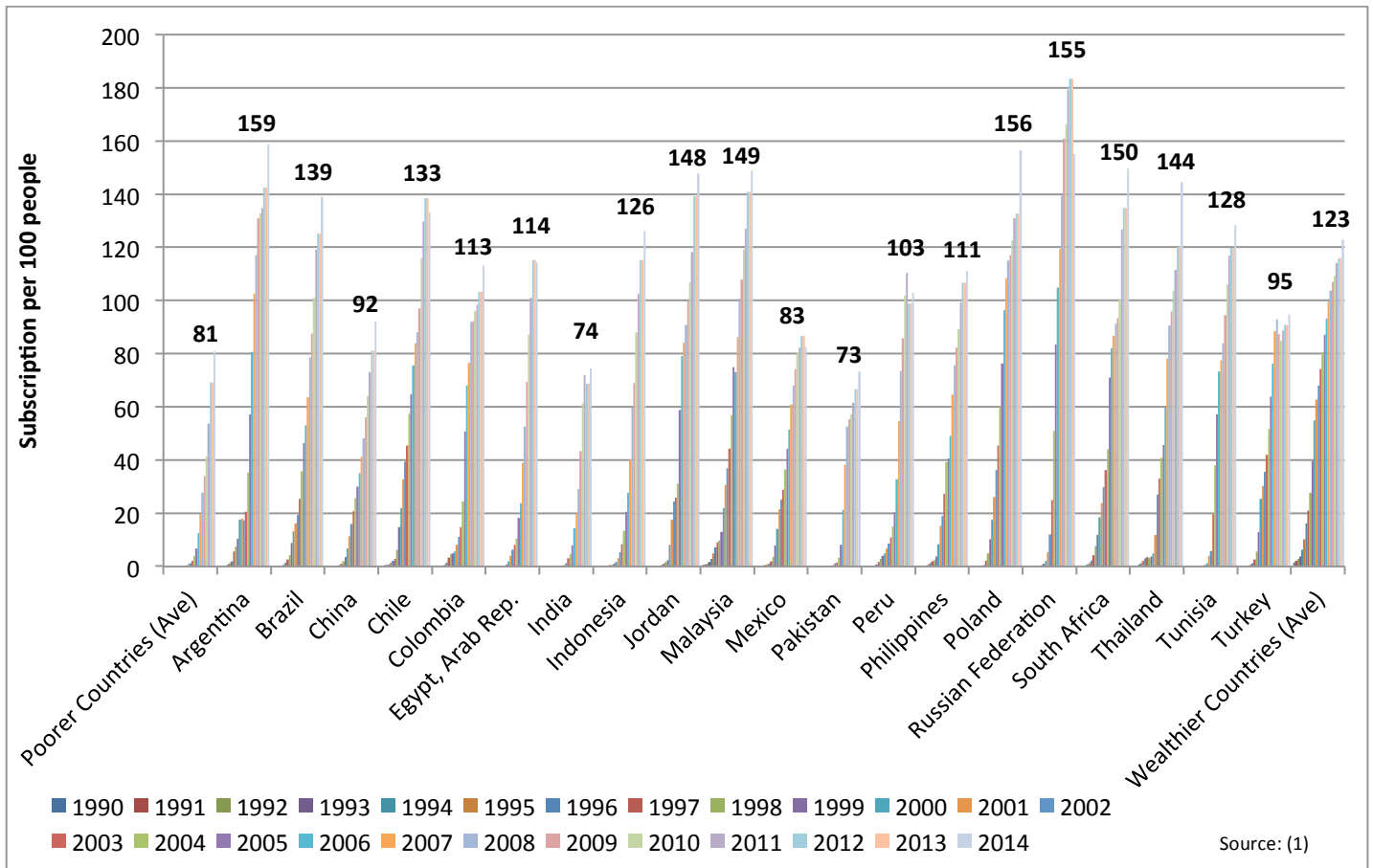


Figure 20: Pump Price for Gasoline (US\$ per litre), 2014

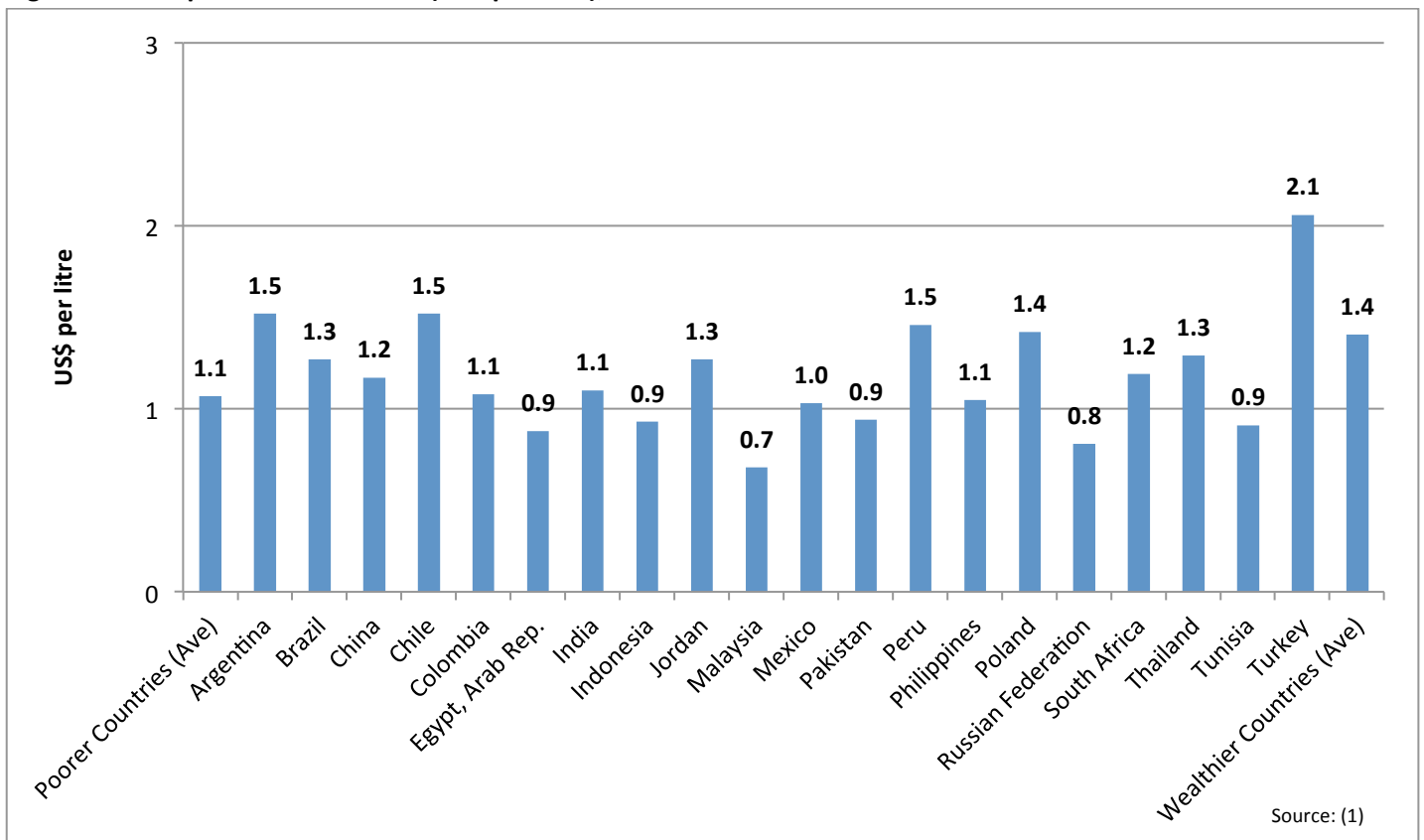


Figure 21: Quality of Port Infrastructure, (1=extremely underdeveloped to 7=well developed and efficient by international standards) 2007-2014

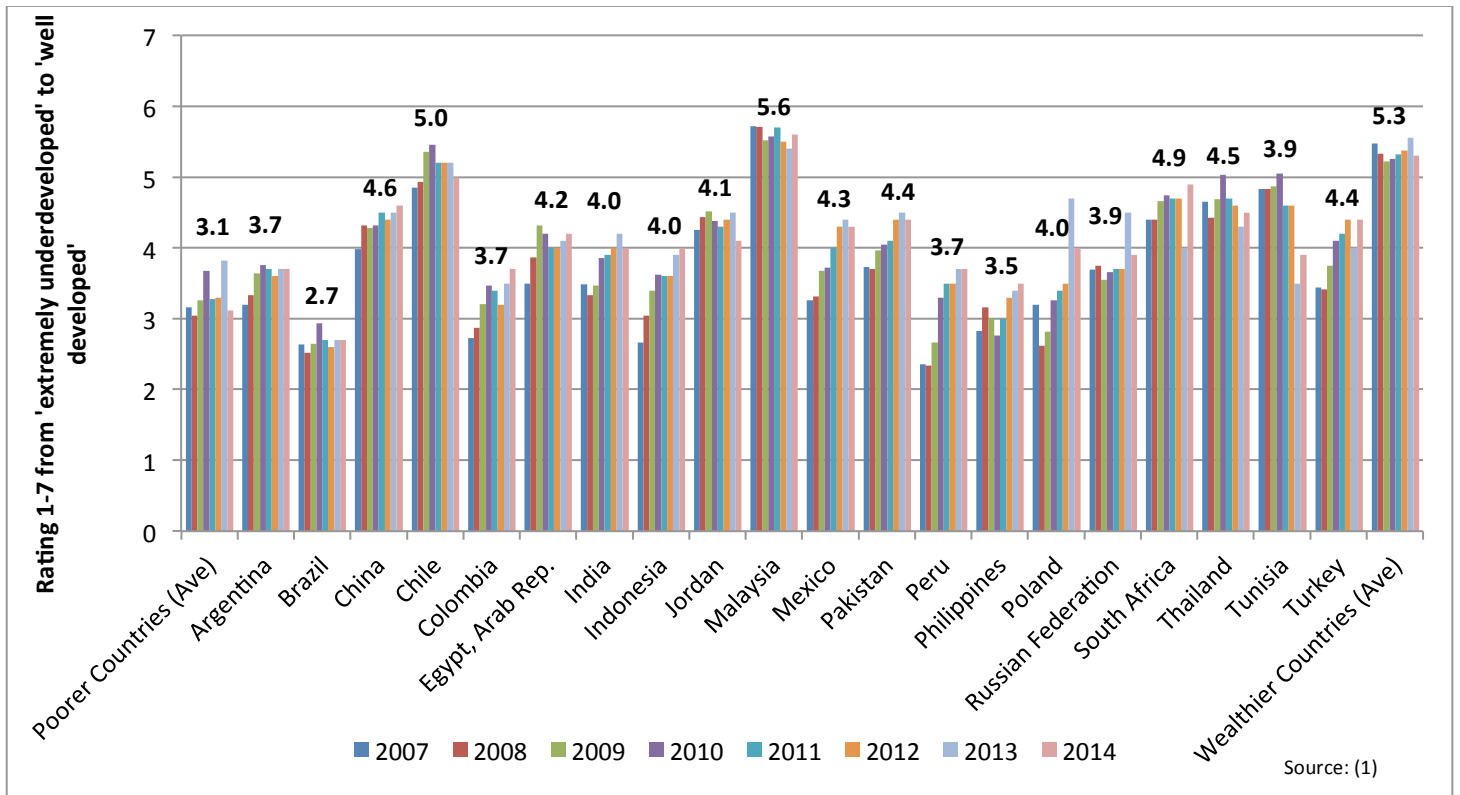
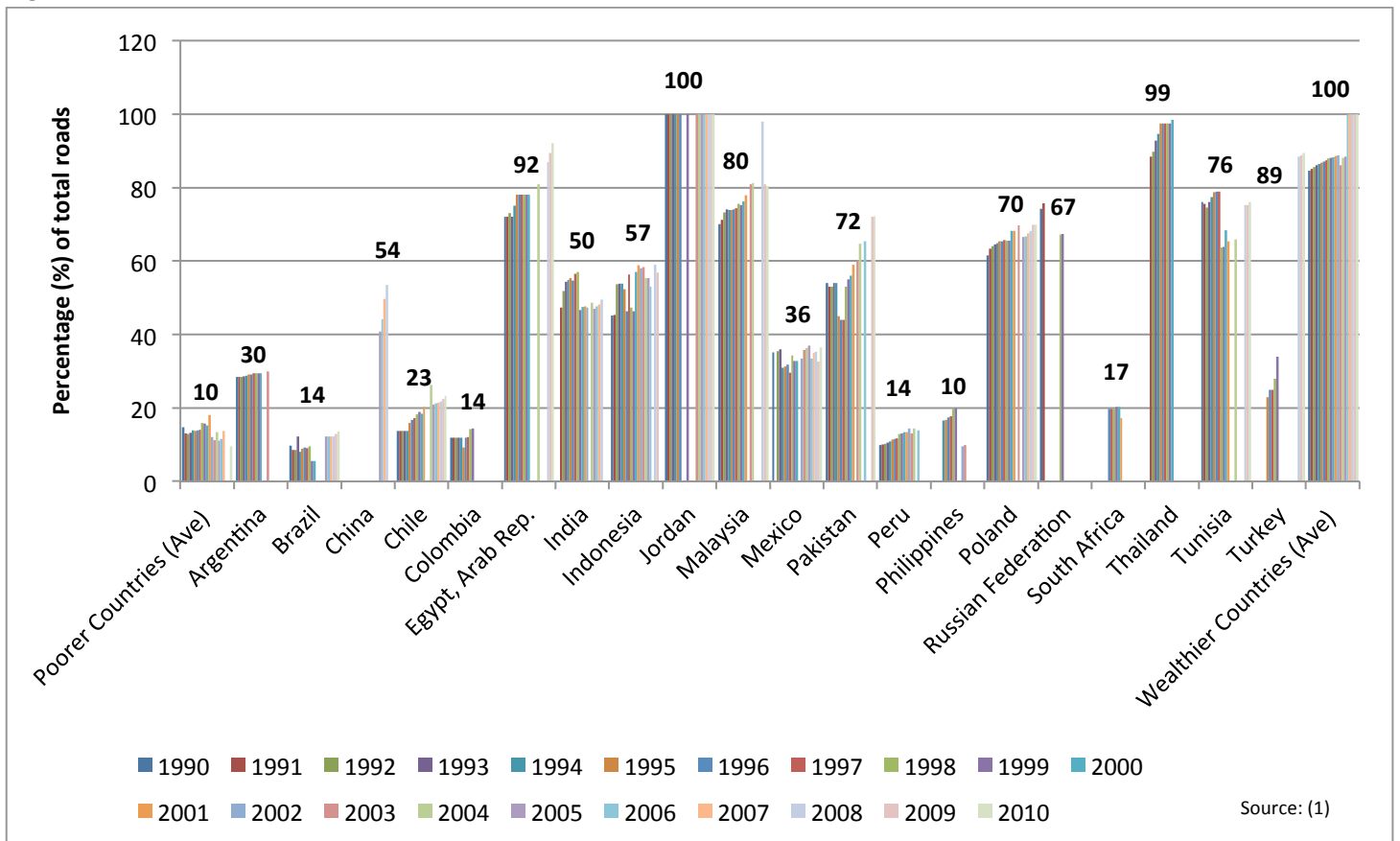


Figure 22: Paved Roads as % of total roads, 1990-2010



2.4 Research and Development Indicators

Figure 23: Patent Applications by Residents, 1990-2014

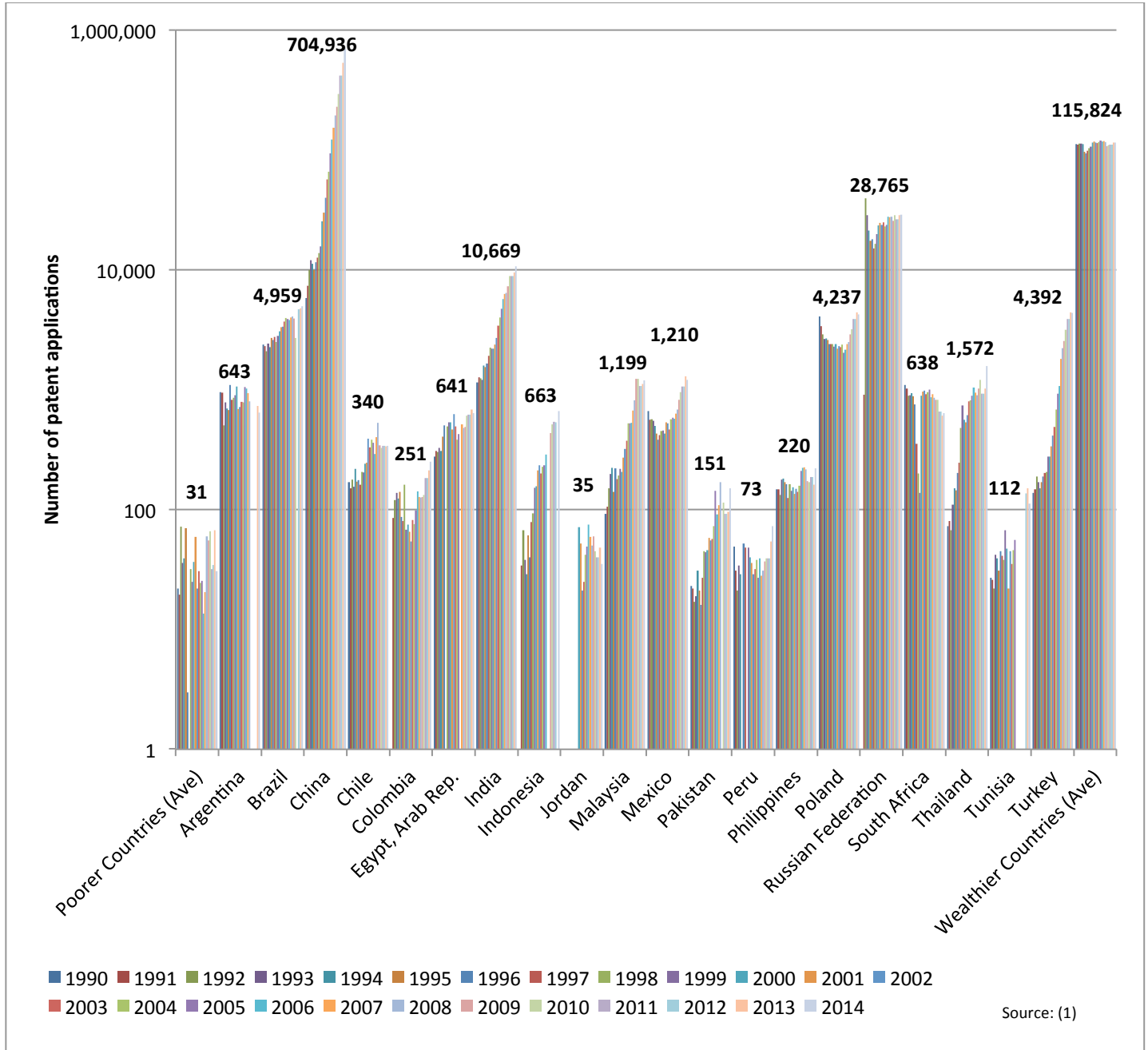


Figure 24: Research and Development (R&D) Expenditure (% of GDP), 1996-2012

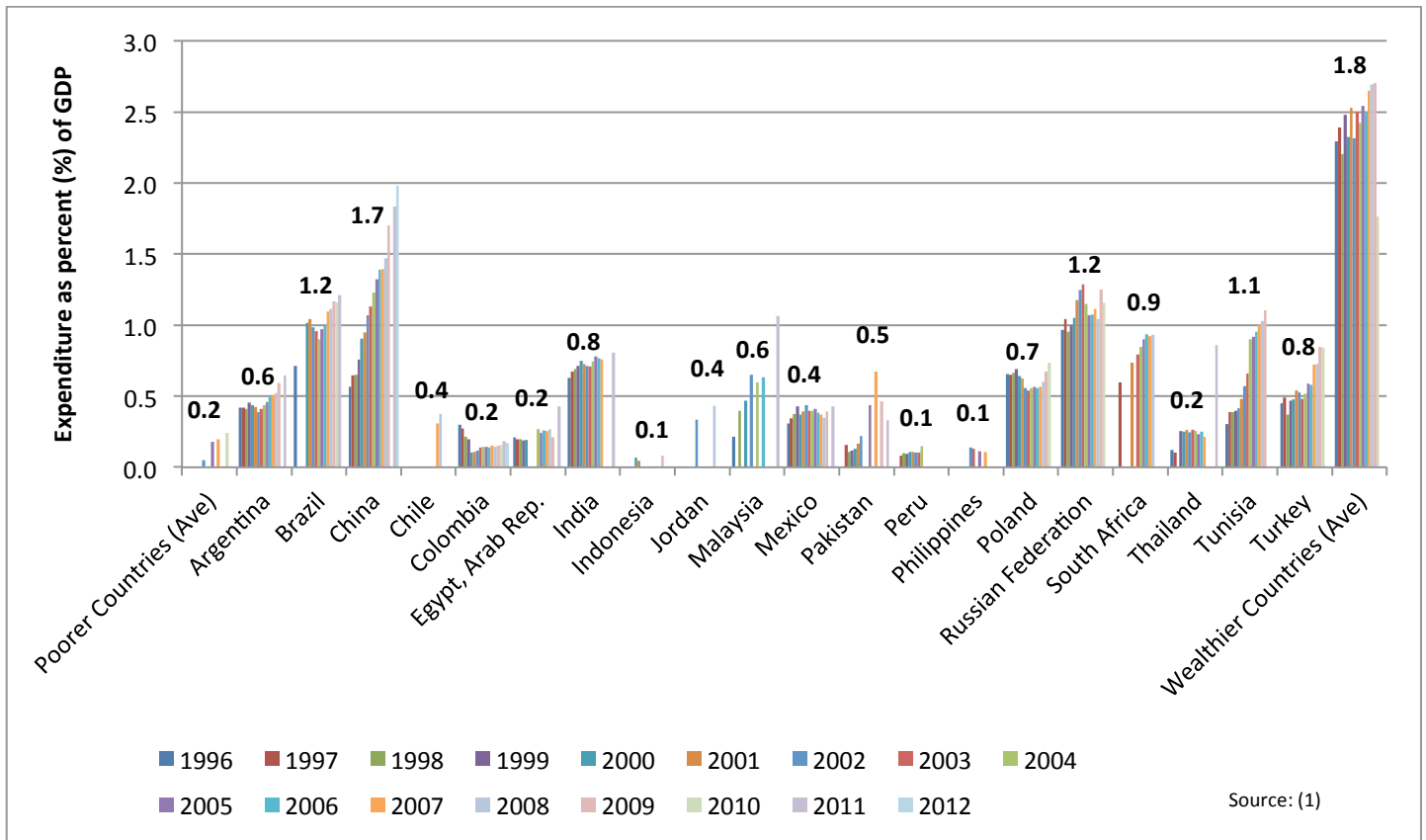


Figure 25: Researchers in R&D (per million people), 1996-2012

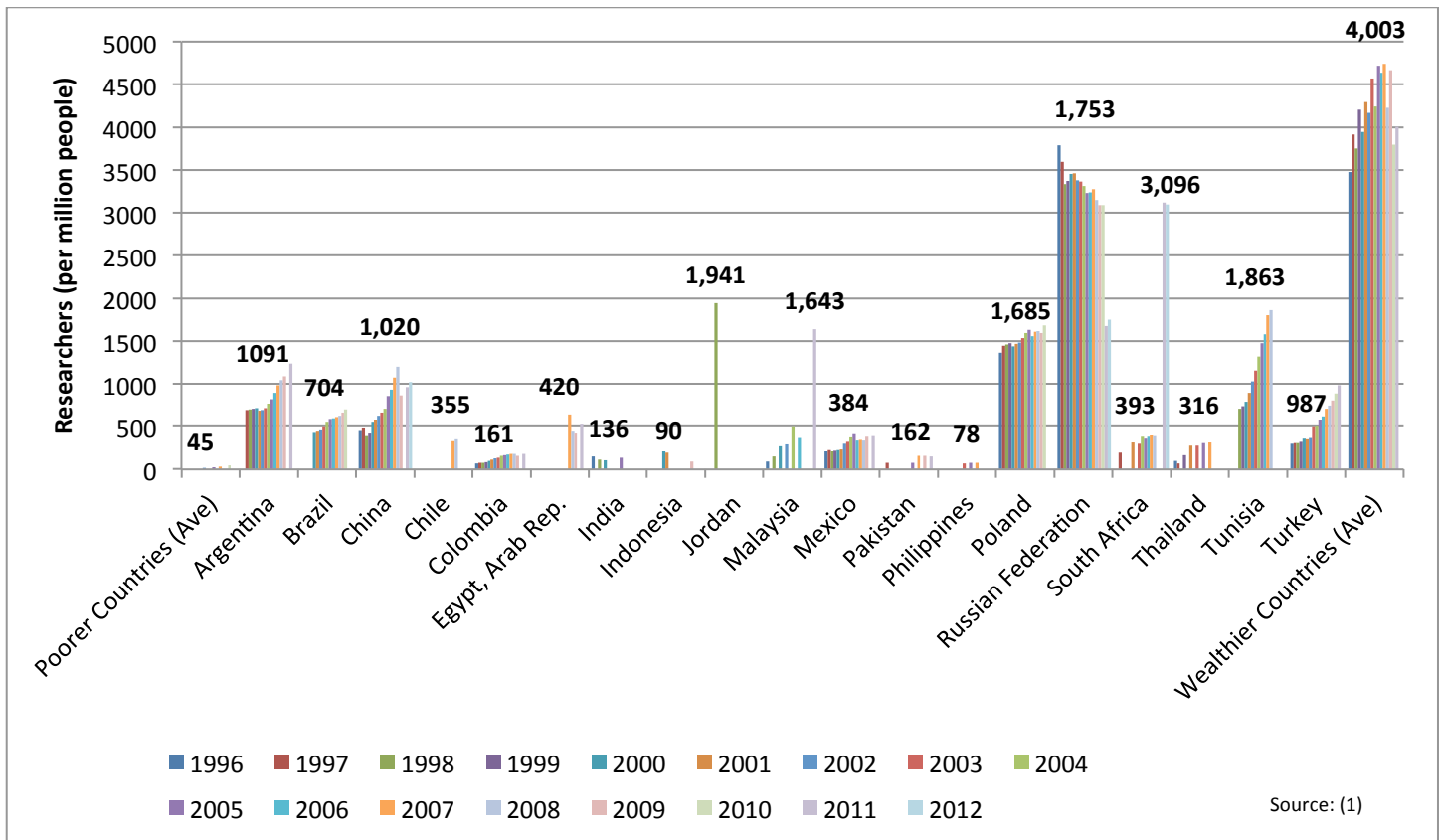
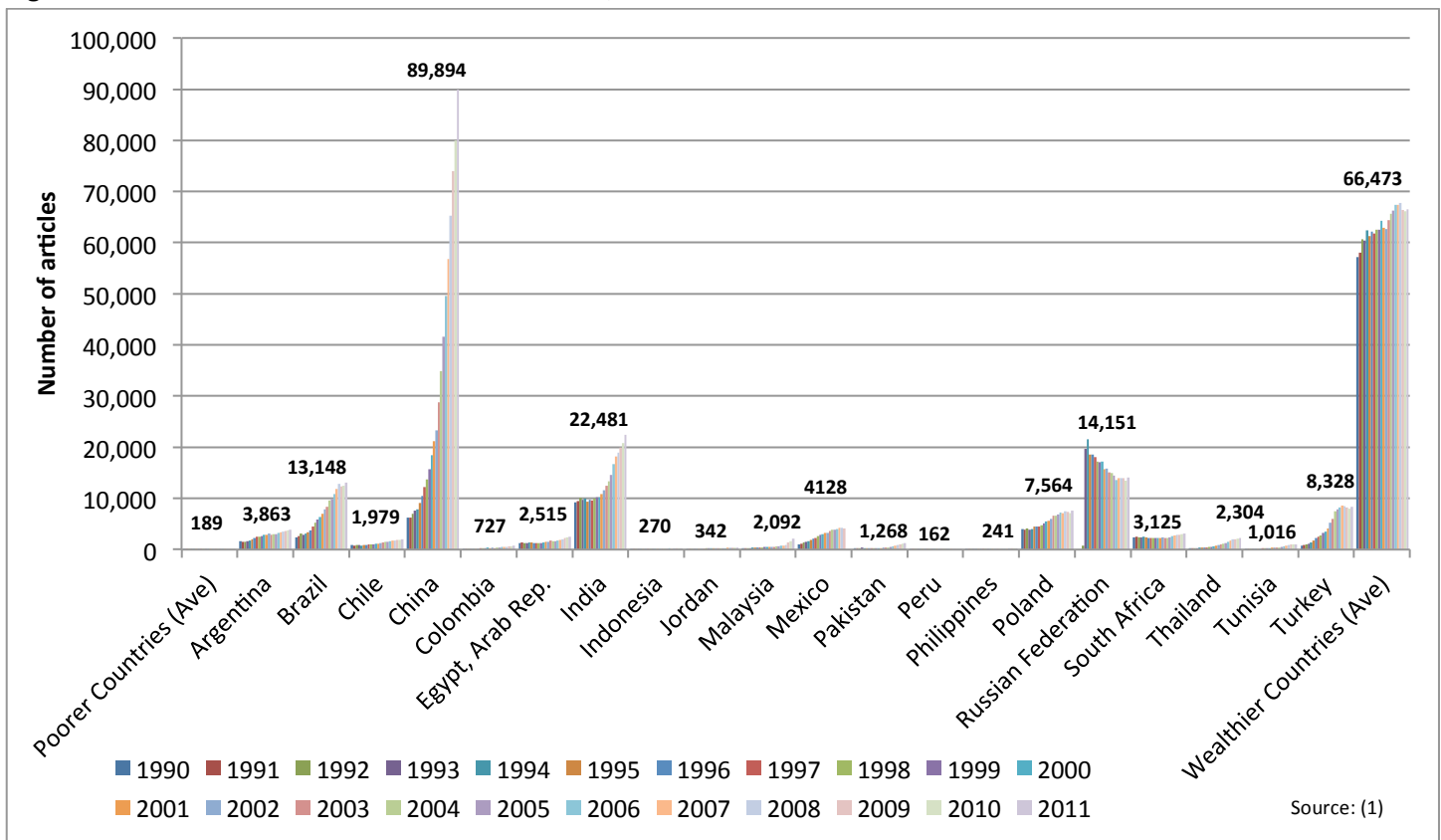
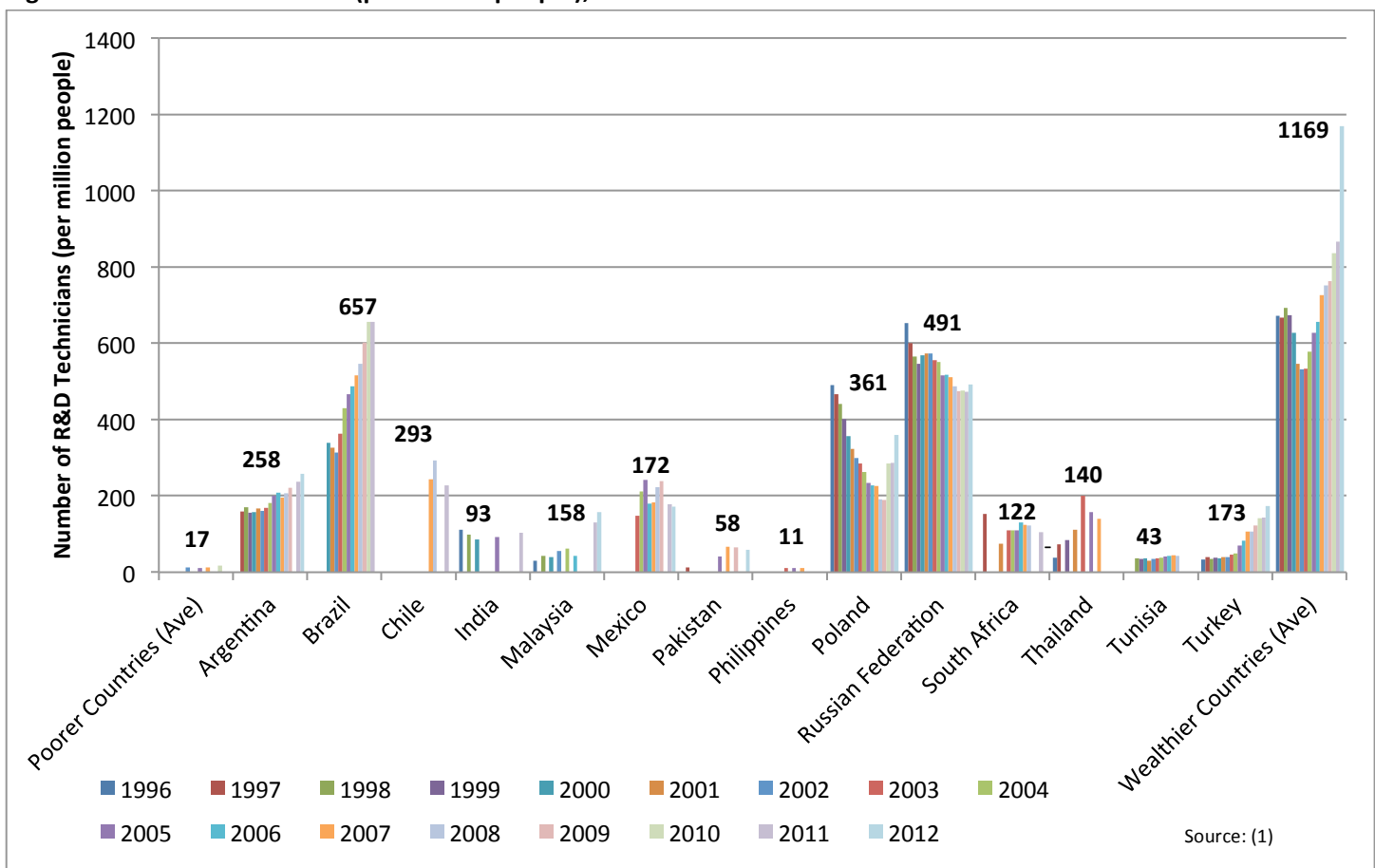


Figure 26: Scientific and Technical Journal Articles, 1990-2011



Source: (1)

Figure 27: Technicians in R&D (per million people), 1995-2012



Source: (1)

3 Demographic Indicators

3.1 Population Statistics - Male

Figure 28: Male Population Aged 0-4 years (millions), 1990-2014

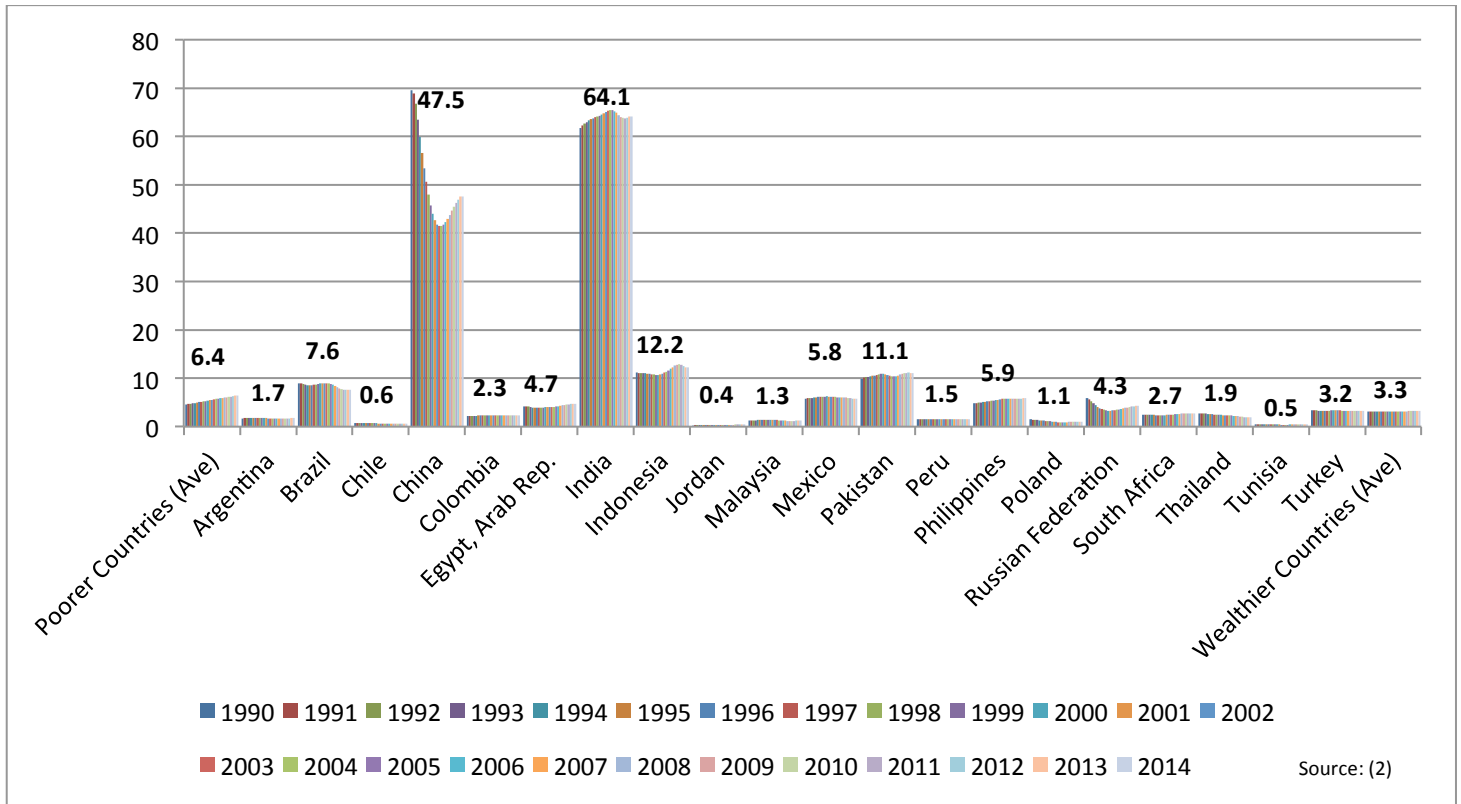


Figure 29: Male Population Aged 5-9 years (millions), 1990-2014

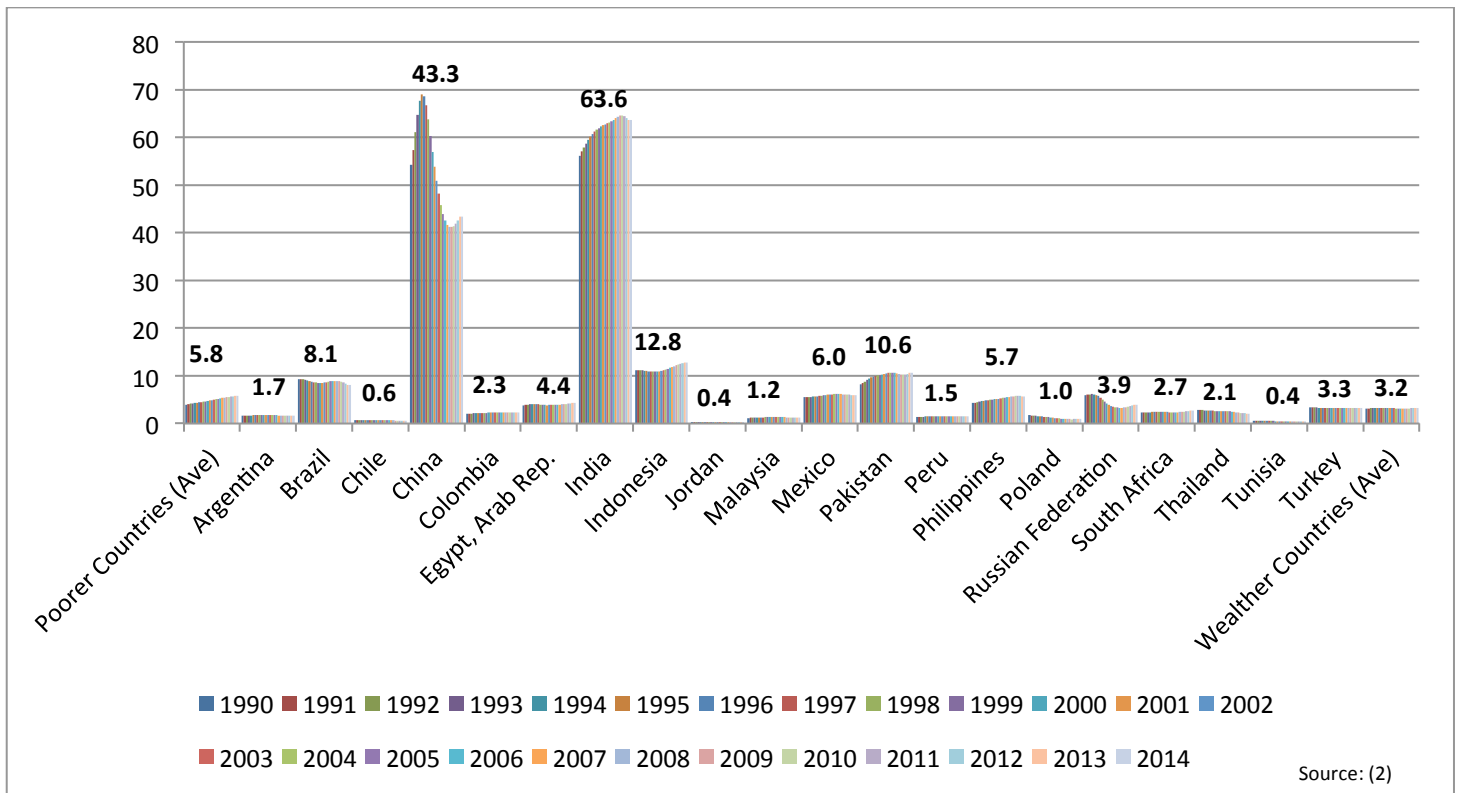


Figure 30: Male Population Aged 10-14 years (millions), 1990-2014

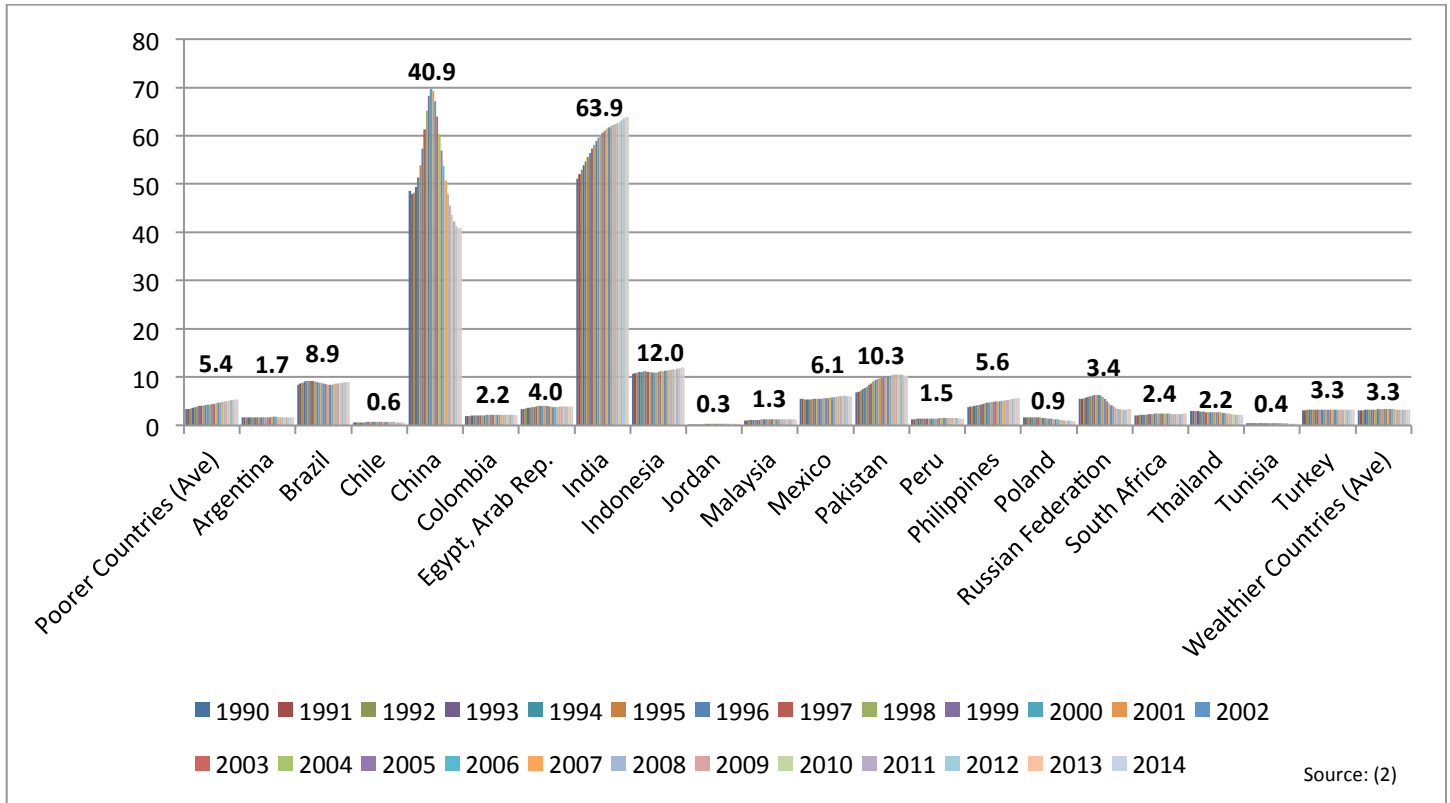


Figure 31: Male Population Aged 15-19 years (millions), 1990-2014

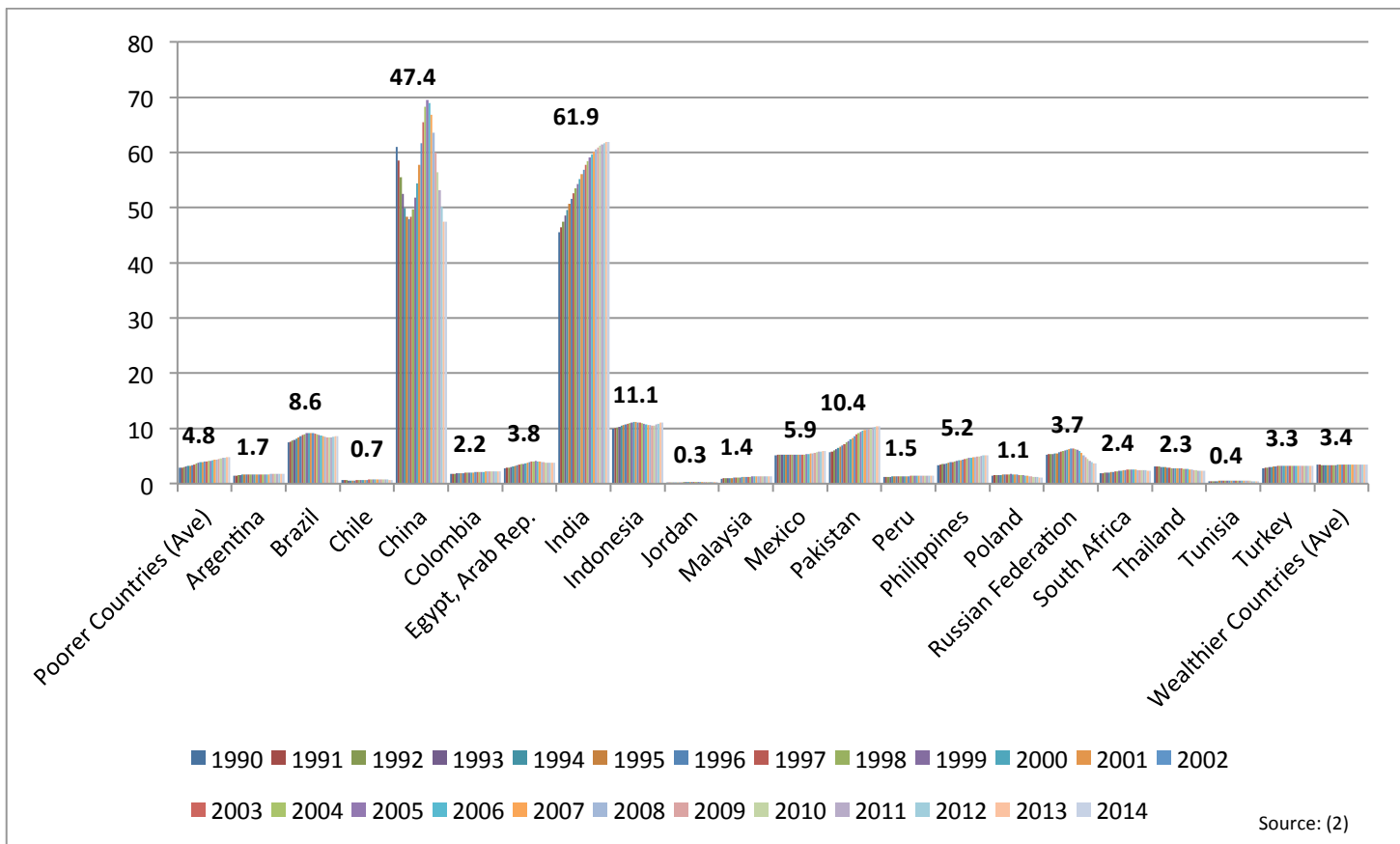


Figure 32: Male Population Aged 20-24 years (millions), 1990-2014

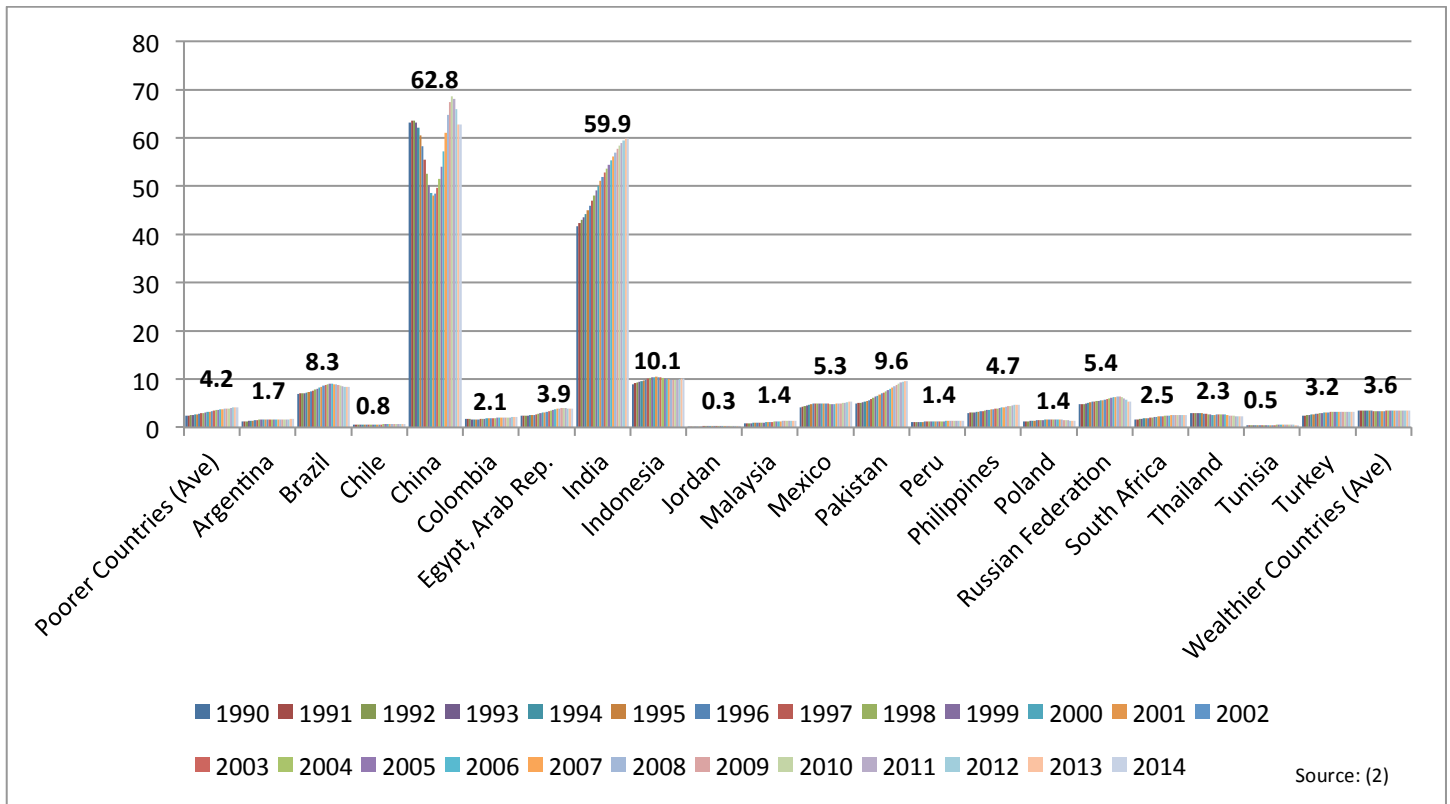


Figure 33: Male Population Aged 25-29 years (millions), 1990-2014

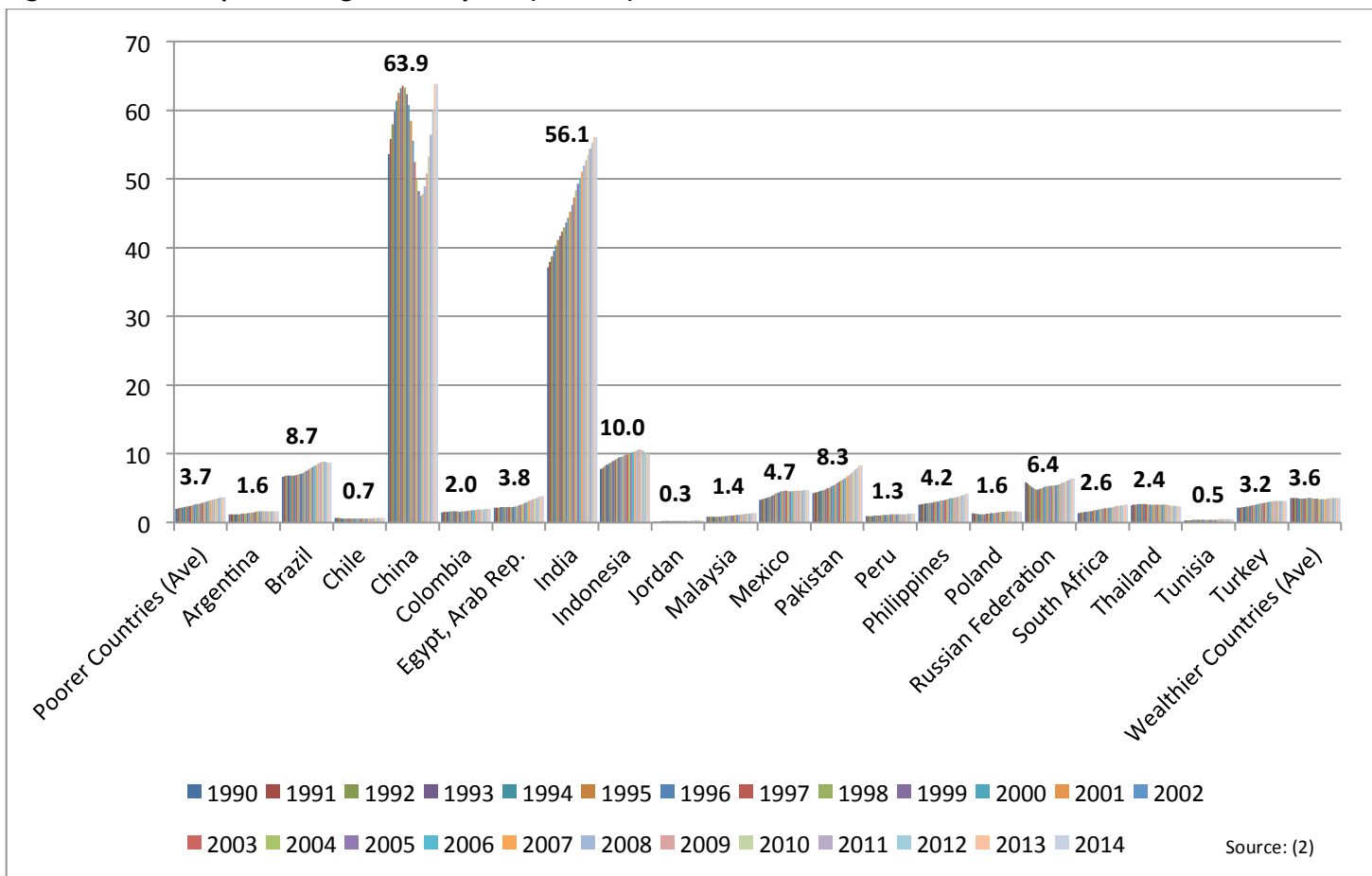


Figure 34: Male Population Aged 30-34 years (millions), 1990-2014

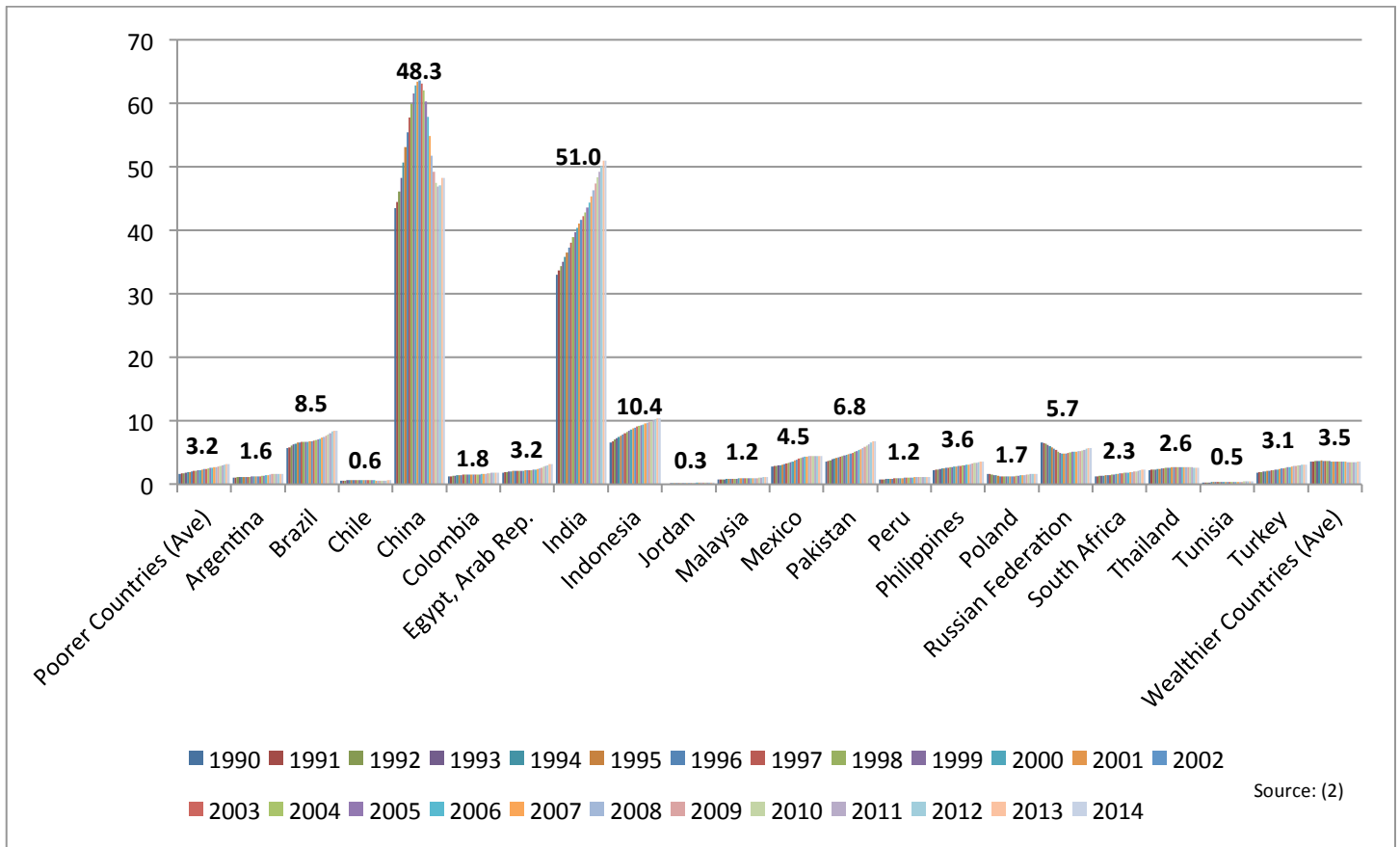


Figure 35: Male Population Aged 35-39 years (millions), 1990-2014

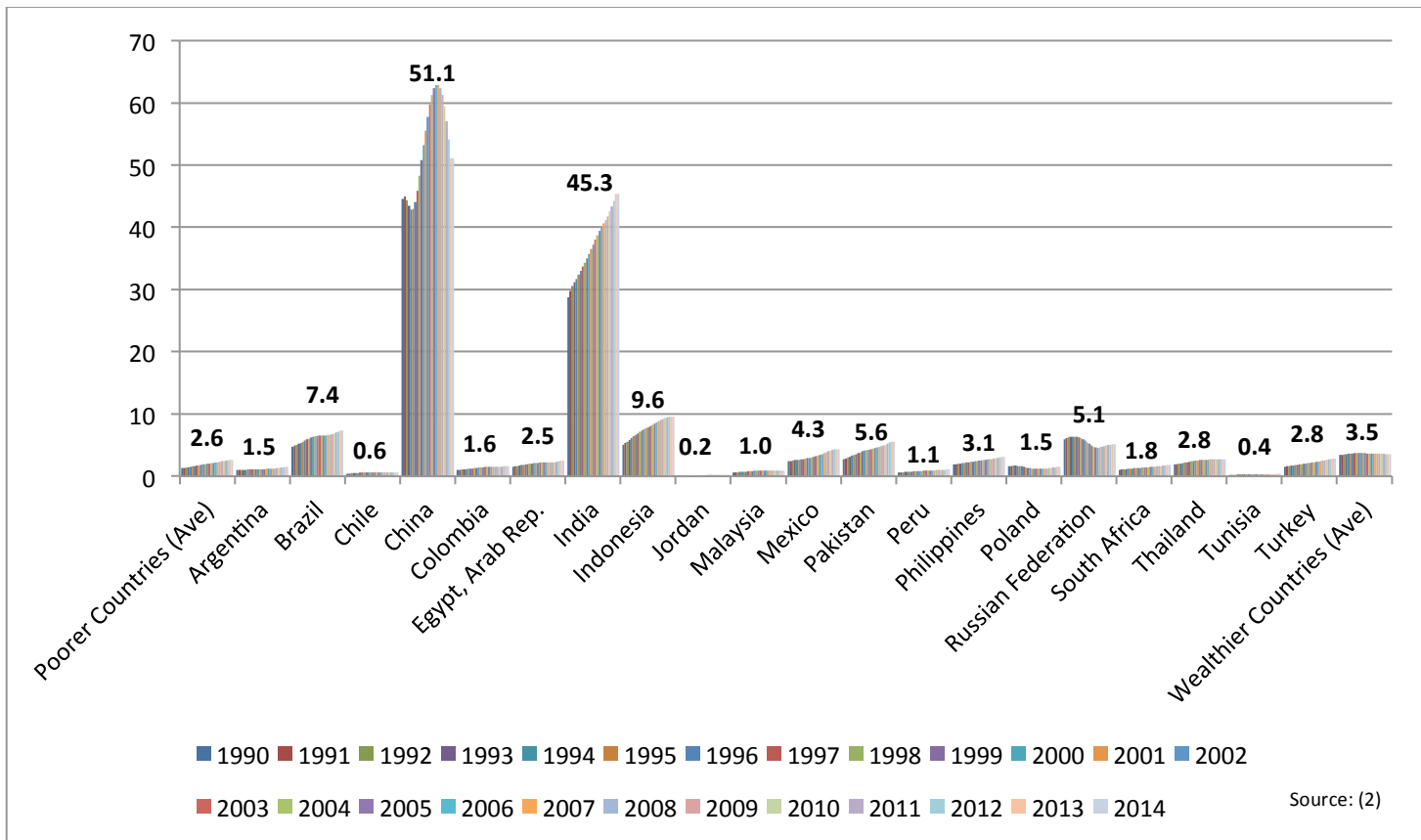


Figure 36: Male Population Aged 40-44 years (millions), 1990-2014

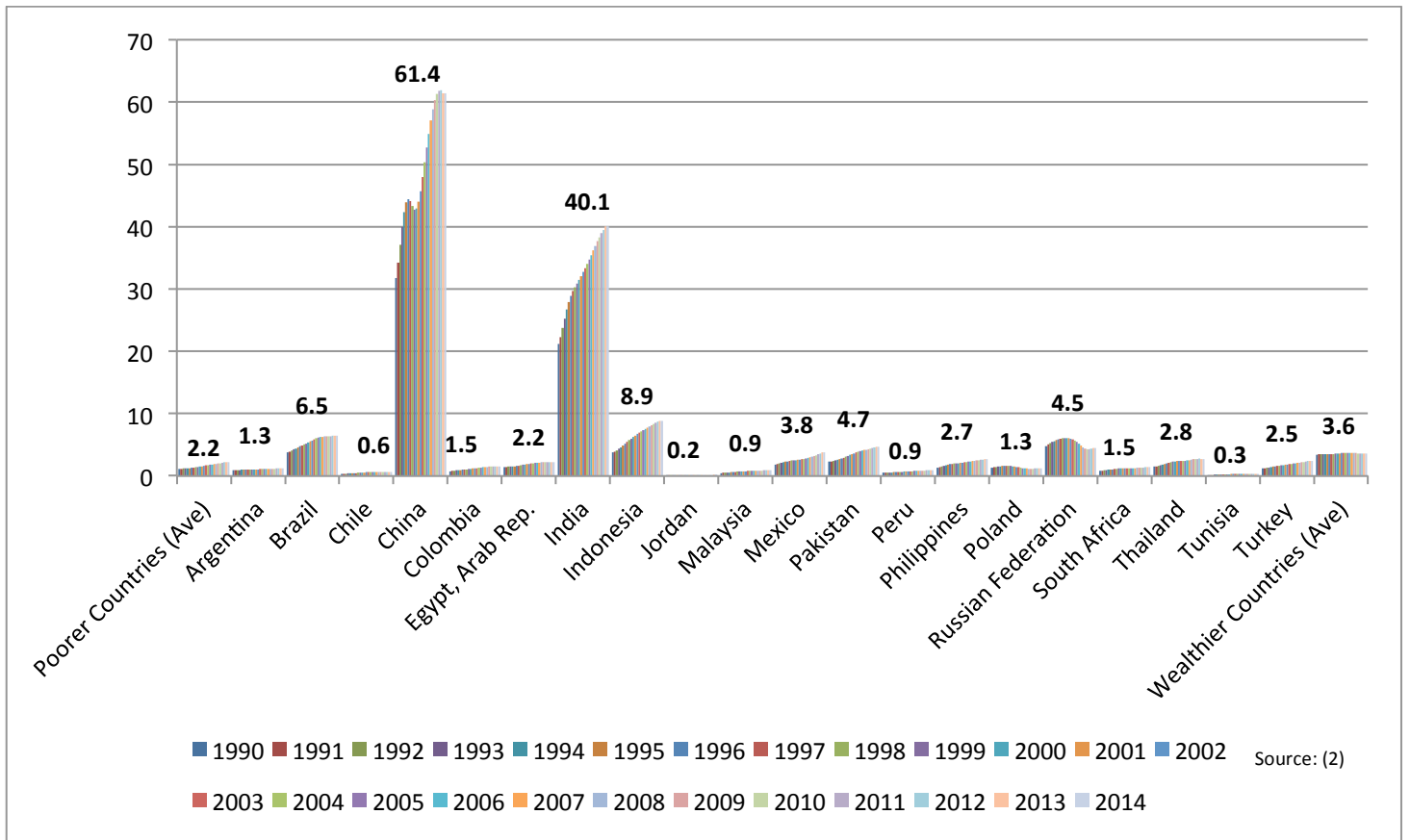


Figure 37: Male Population Aged 45-49 years (millions), 1990-2014

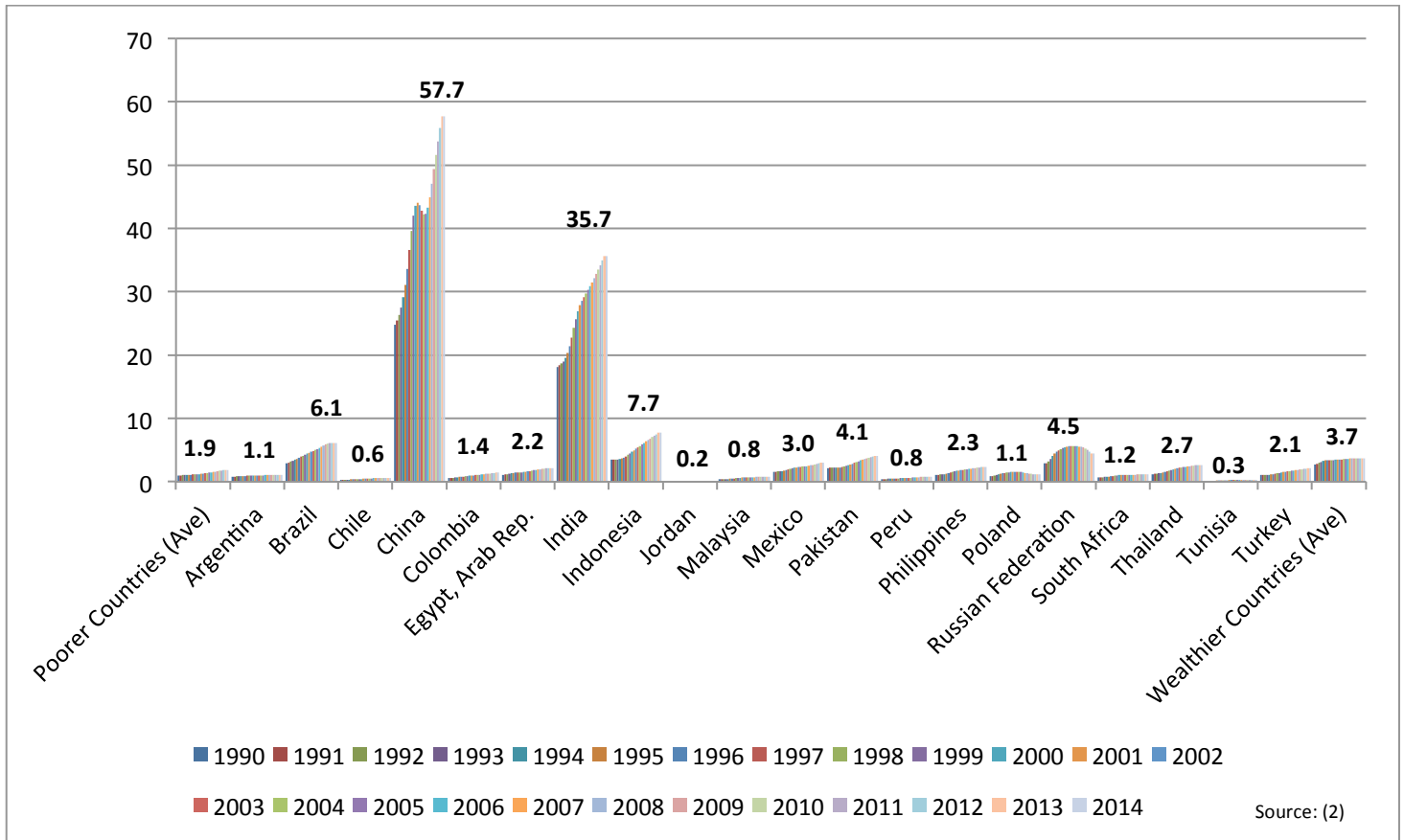
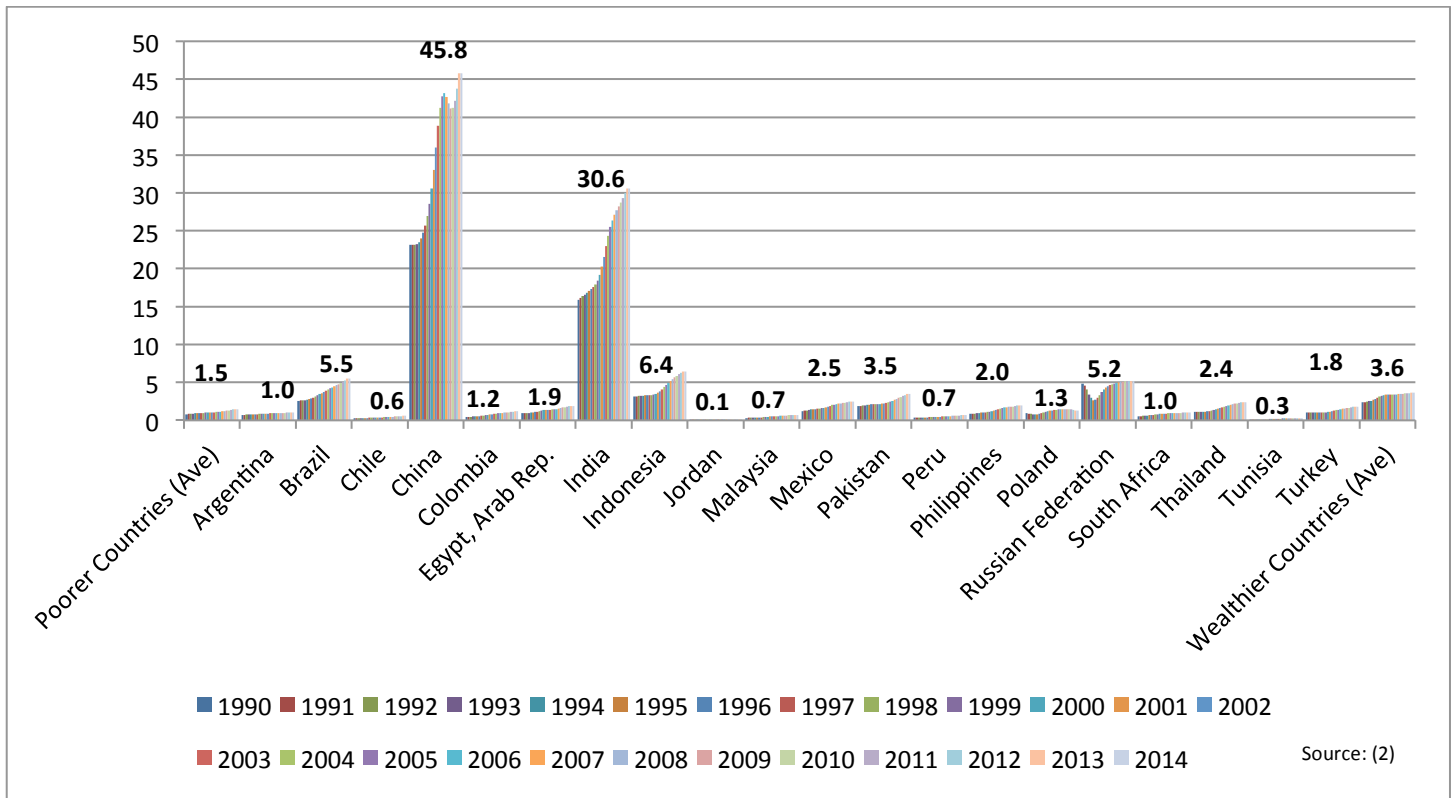
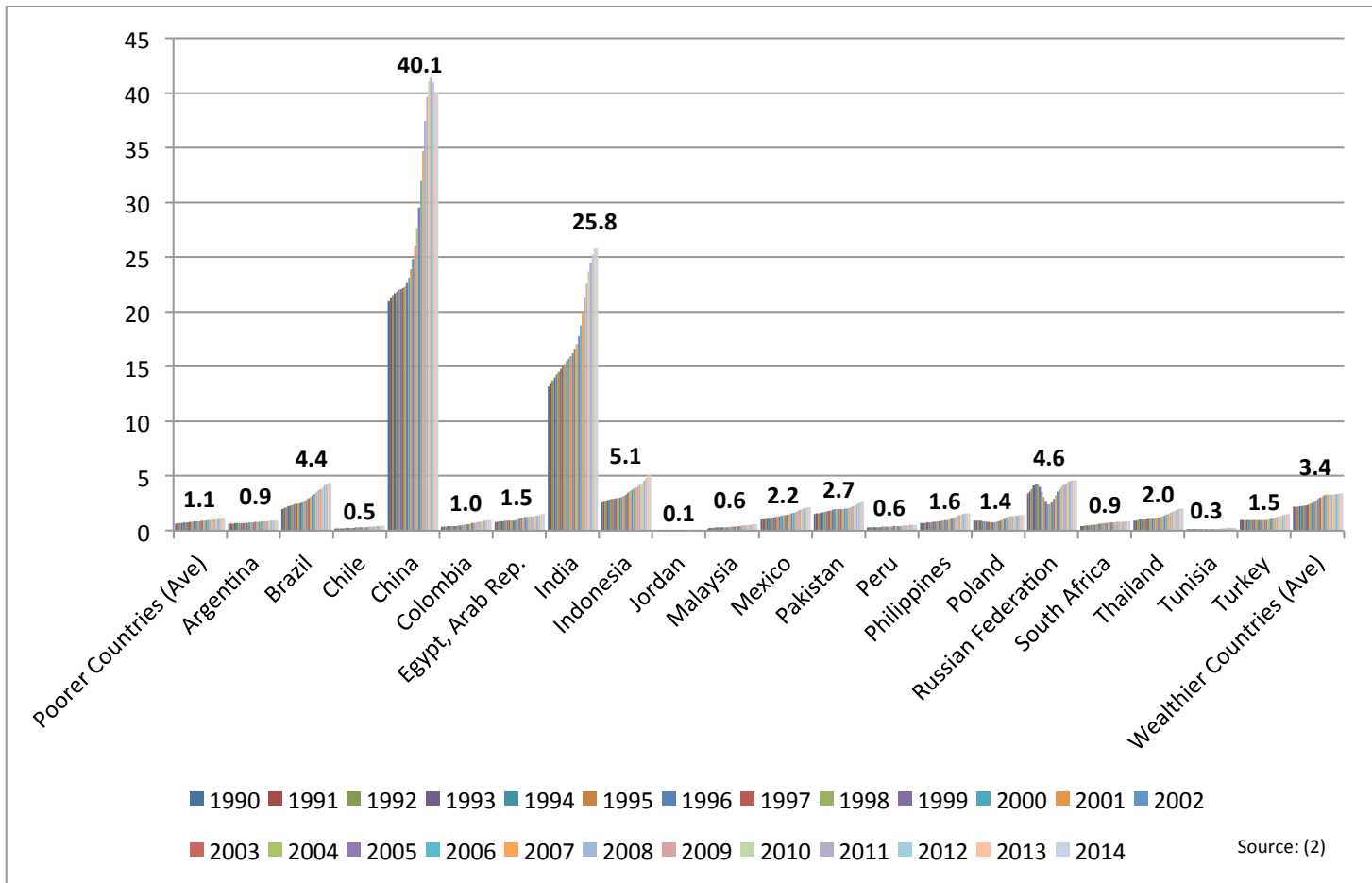


Figure 38: Male Population Aged 50-54 years (millions), 1990-2014



Source: (2)

Figure 39: Male Population Aged 55-59 years (millions), 1990-2014



Source: (2)

Figure 40: Male Population Aged 60-64 years (millions), 1990-2014

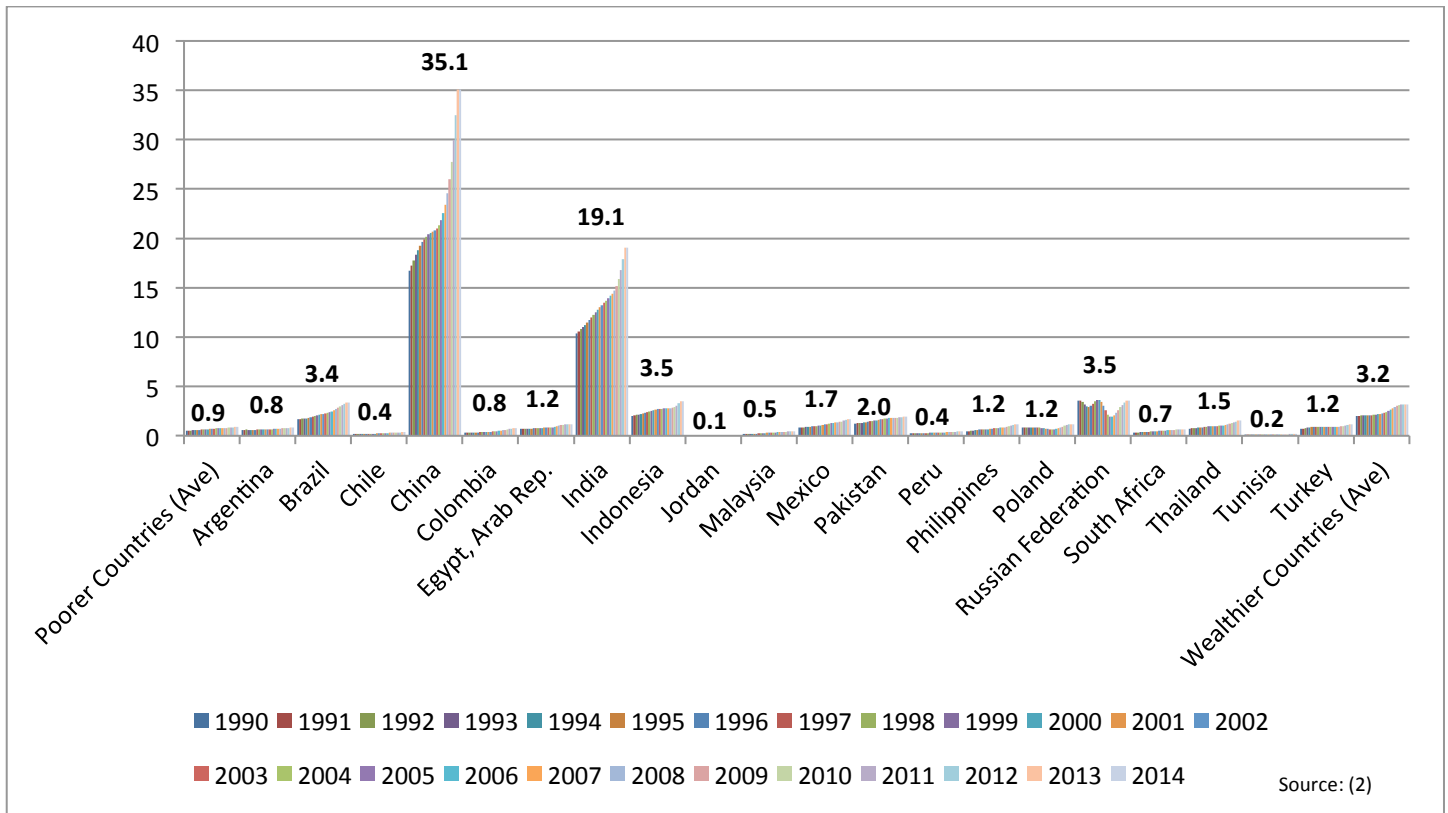


Figure 41: Male Population Aged 65-69 years (millions), 1990-2014

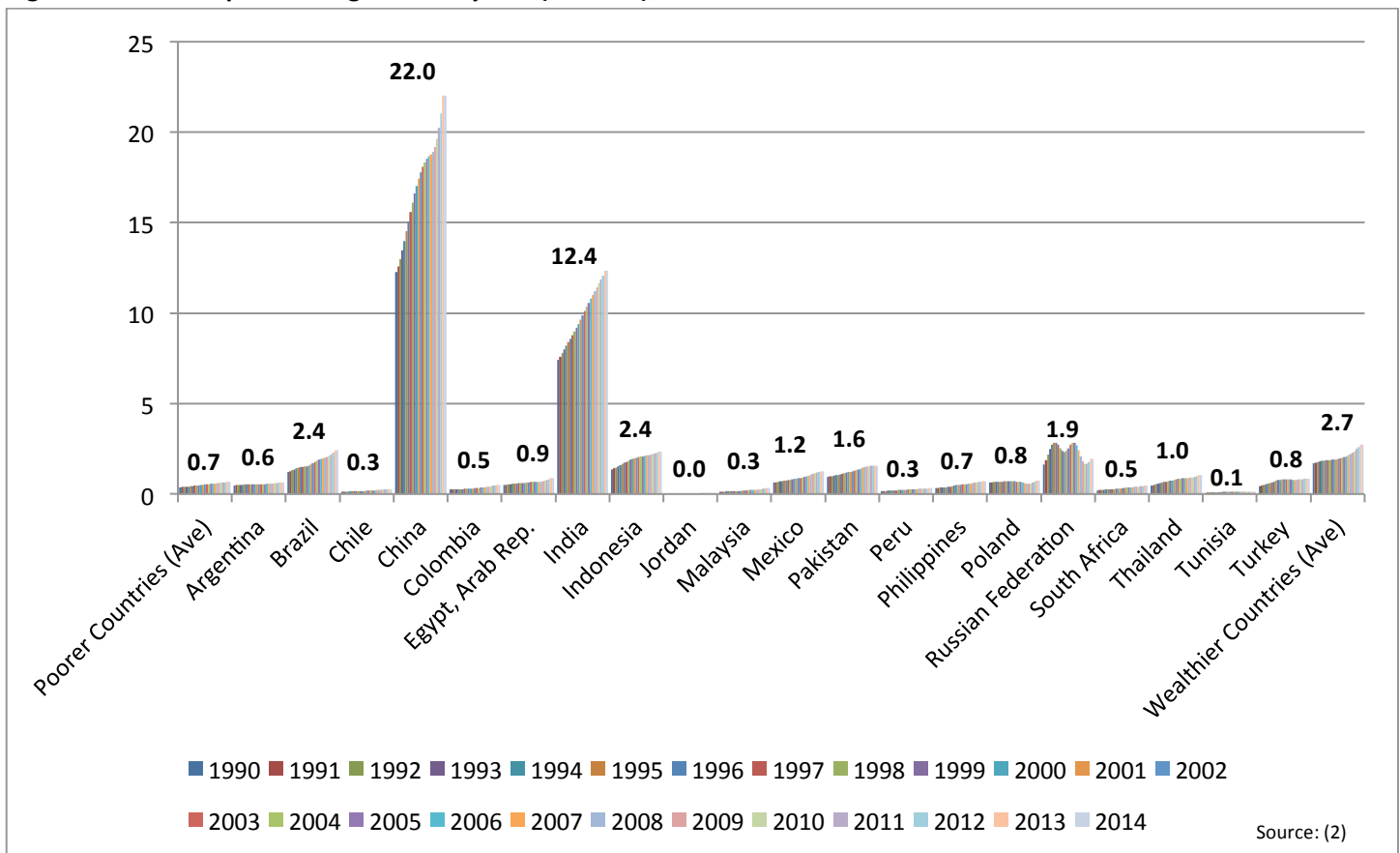


Figure 42: Male Population Aged 70-74 years (millions), 1990-2014

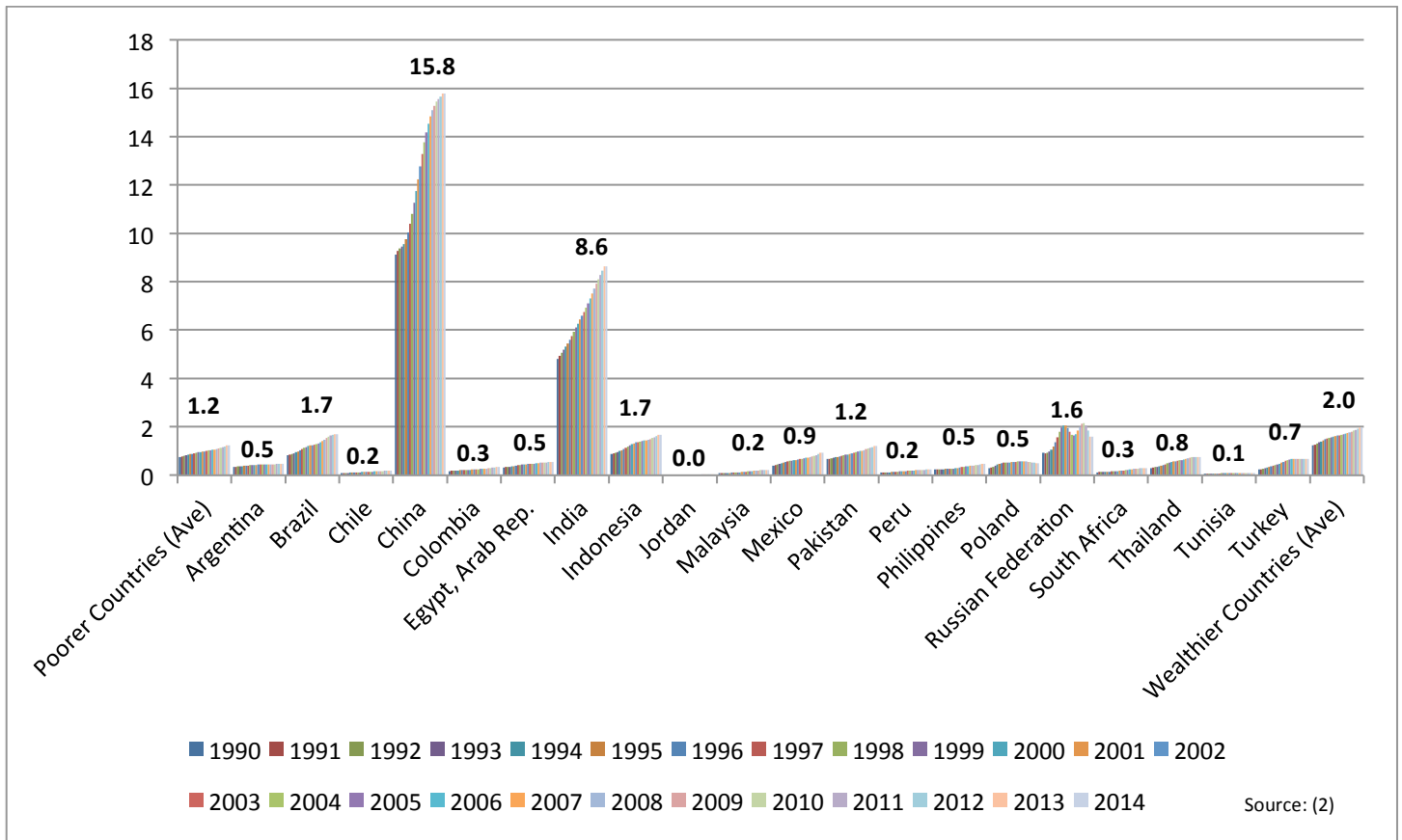


Figure 43: Male Population Aged 75-79 years (millions), 1990-2014

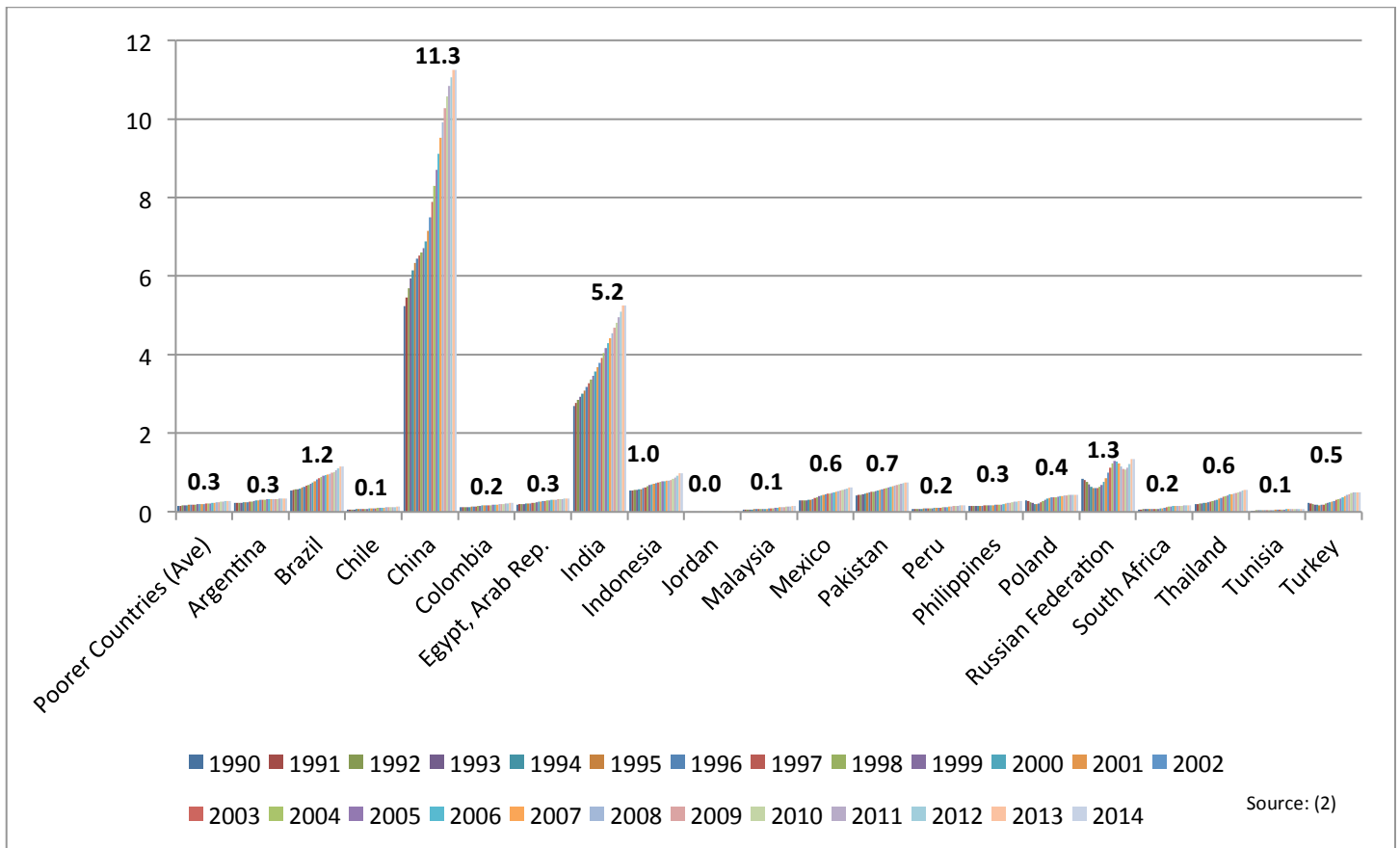
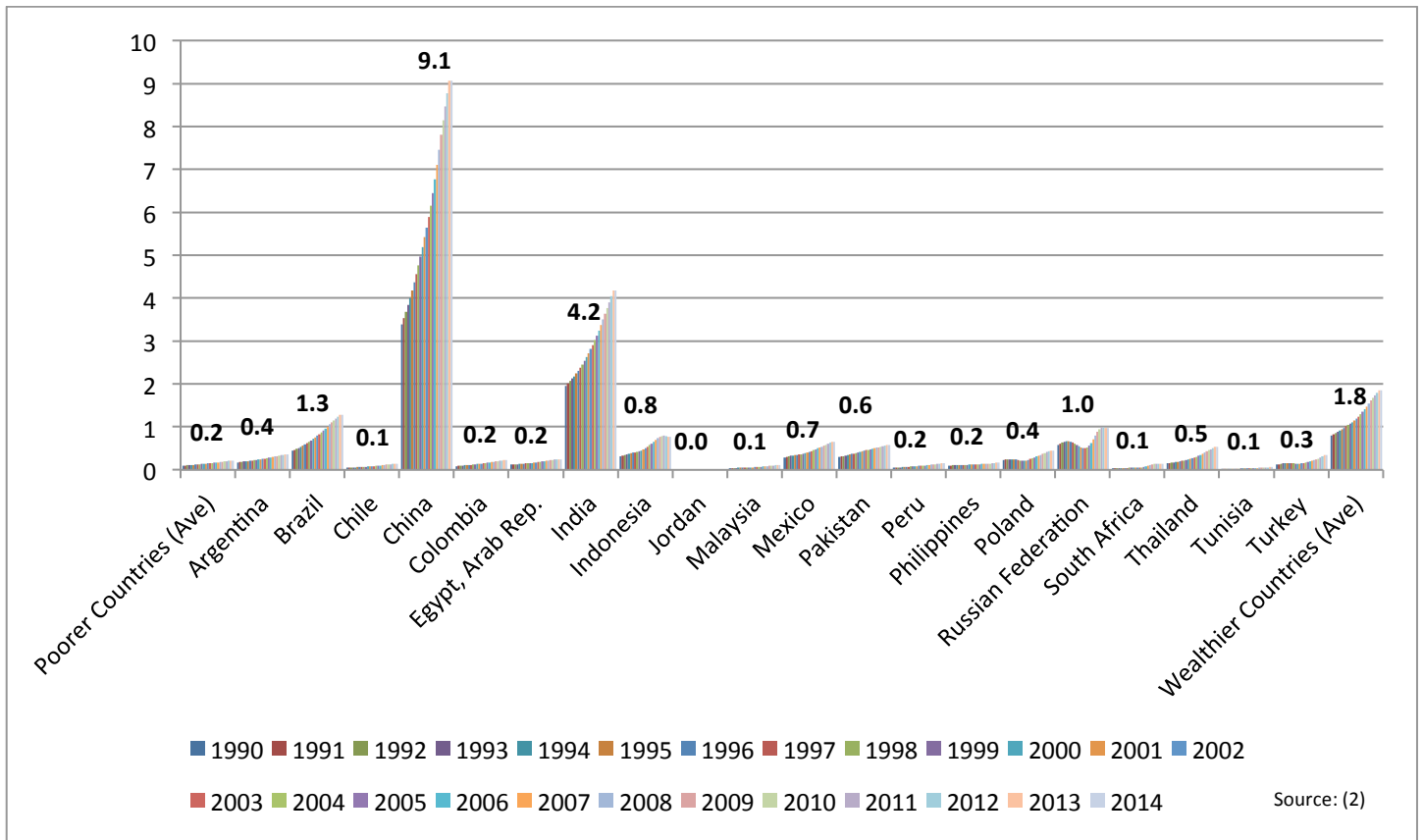


Figure 44: Male Population Aged 80+ years (millions), 1990-2014



3.2 Population Statistics - Female

Figure 45: Female Population Aged 0-4 years (millions), 1990-2014

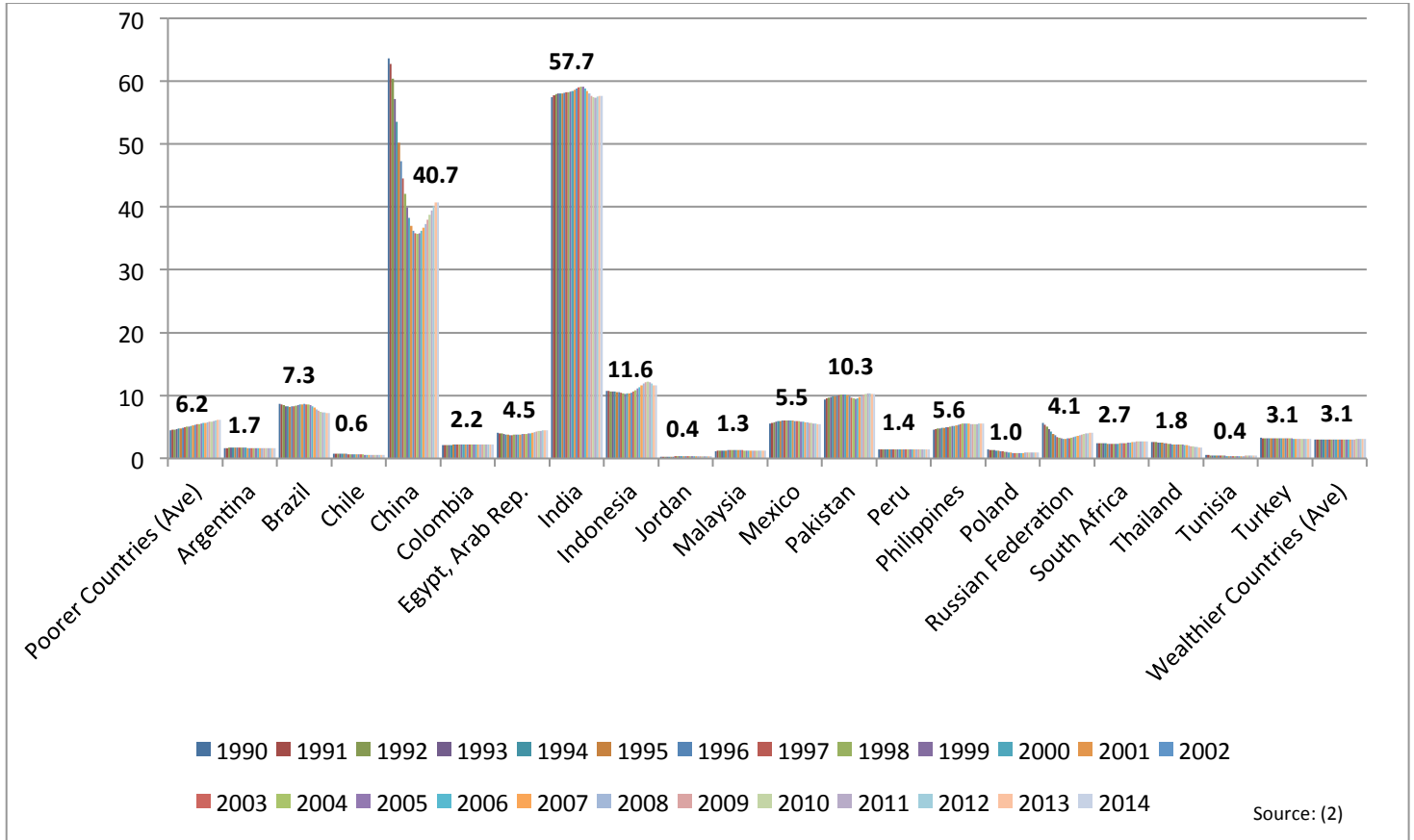


Figure 46: Female Population Aged 5-9 years (millions), 1990-2014

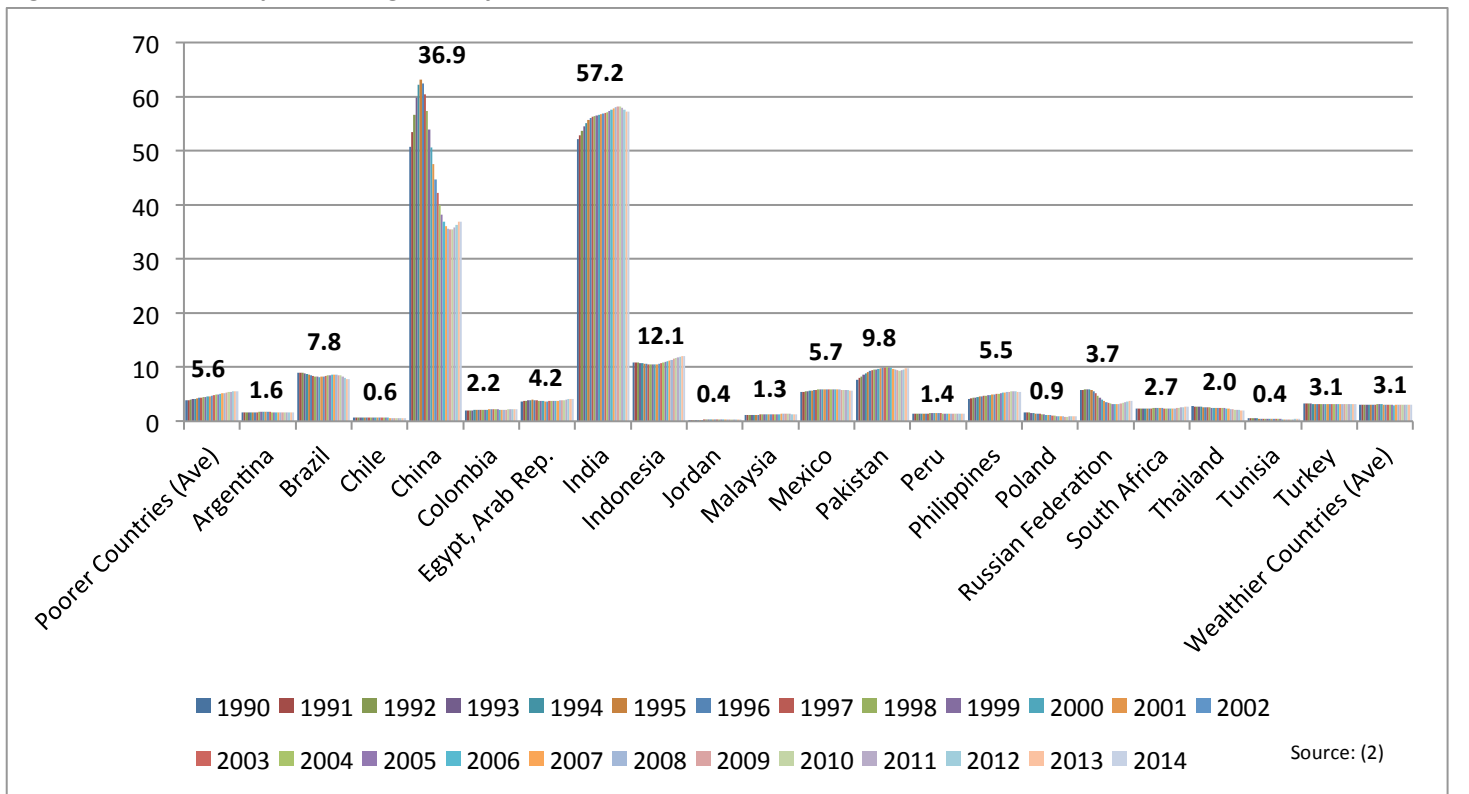


Figure 49: Female Population Aged 20-24 years (millions), 1990-2014

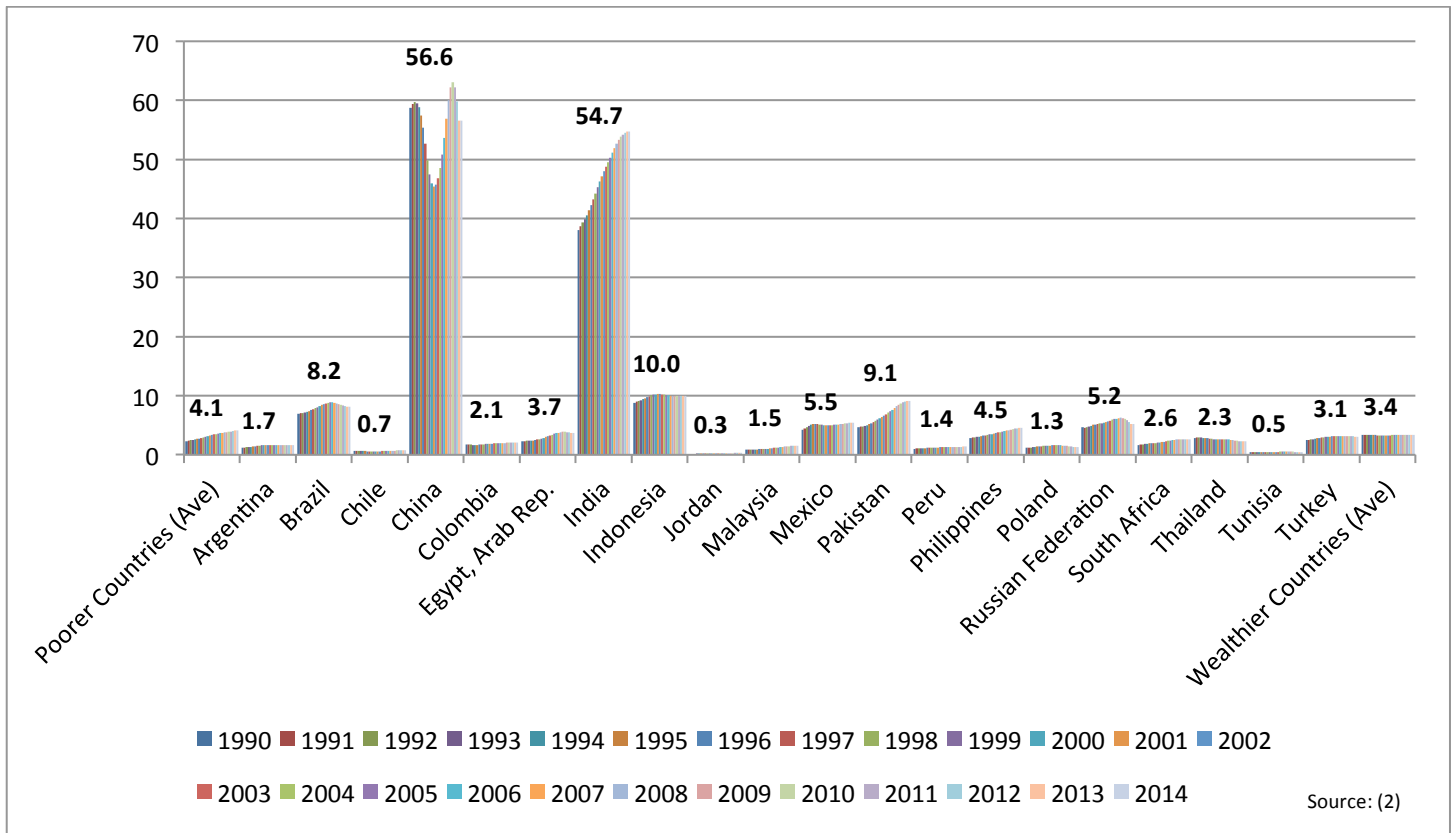


Figure 50: Female Population Aged 25-29 years (millions), 1990-2014

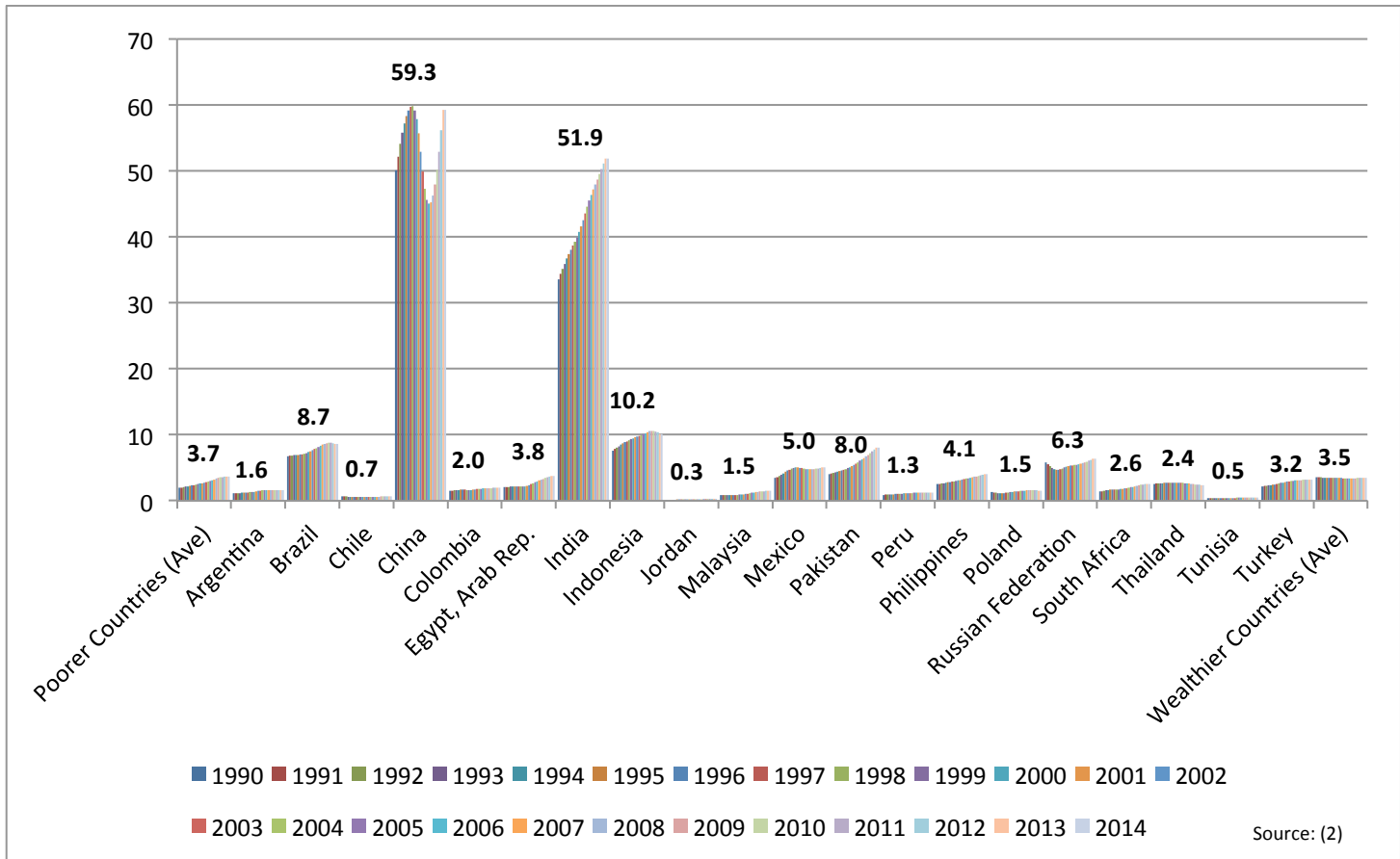


Figure 51: Female Population Aged 30-34 years (millions), 1990-2014

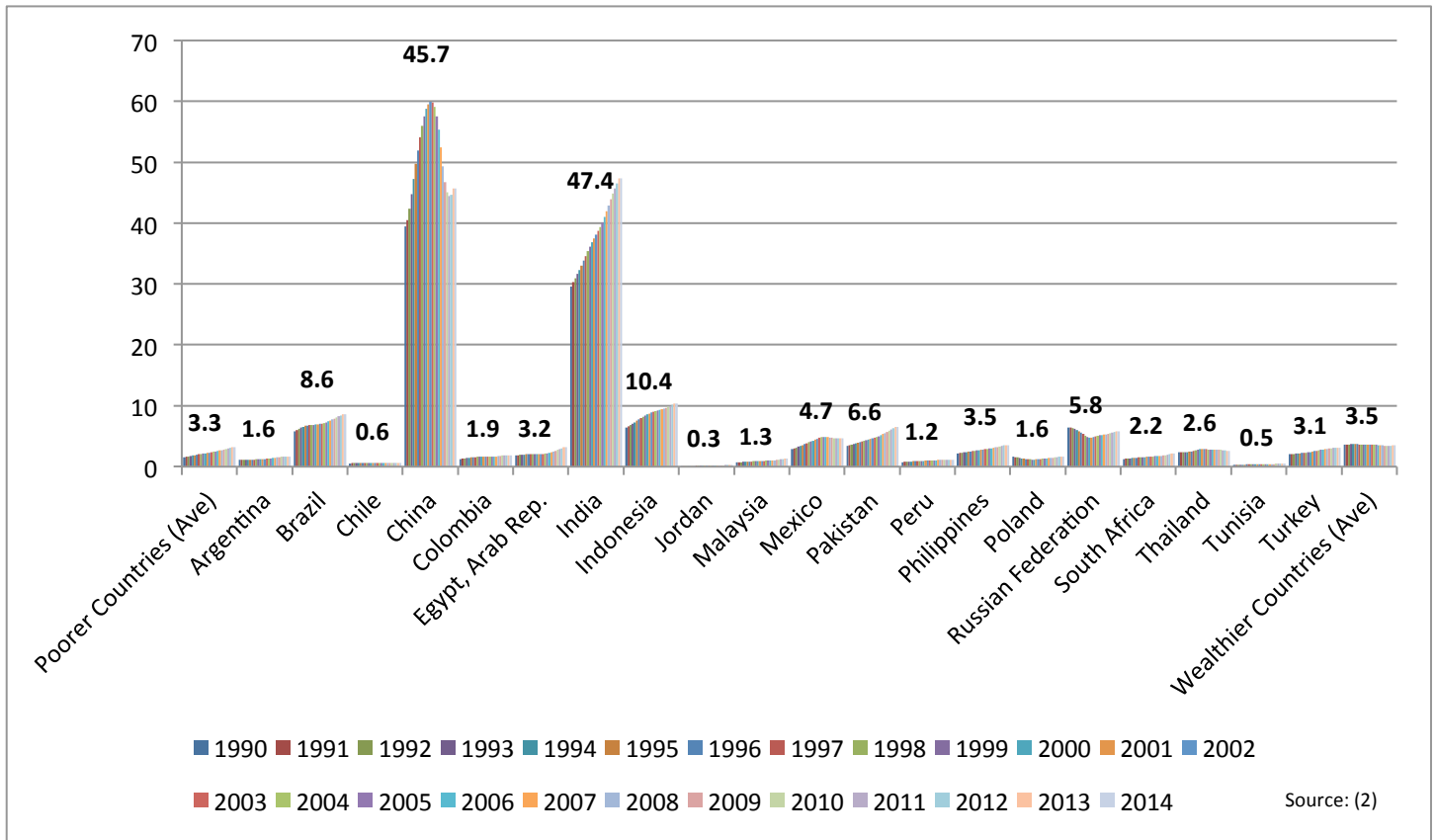


Figure 52: Female Population Aged 35-39 years (millions), 1990-2014

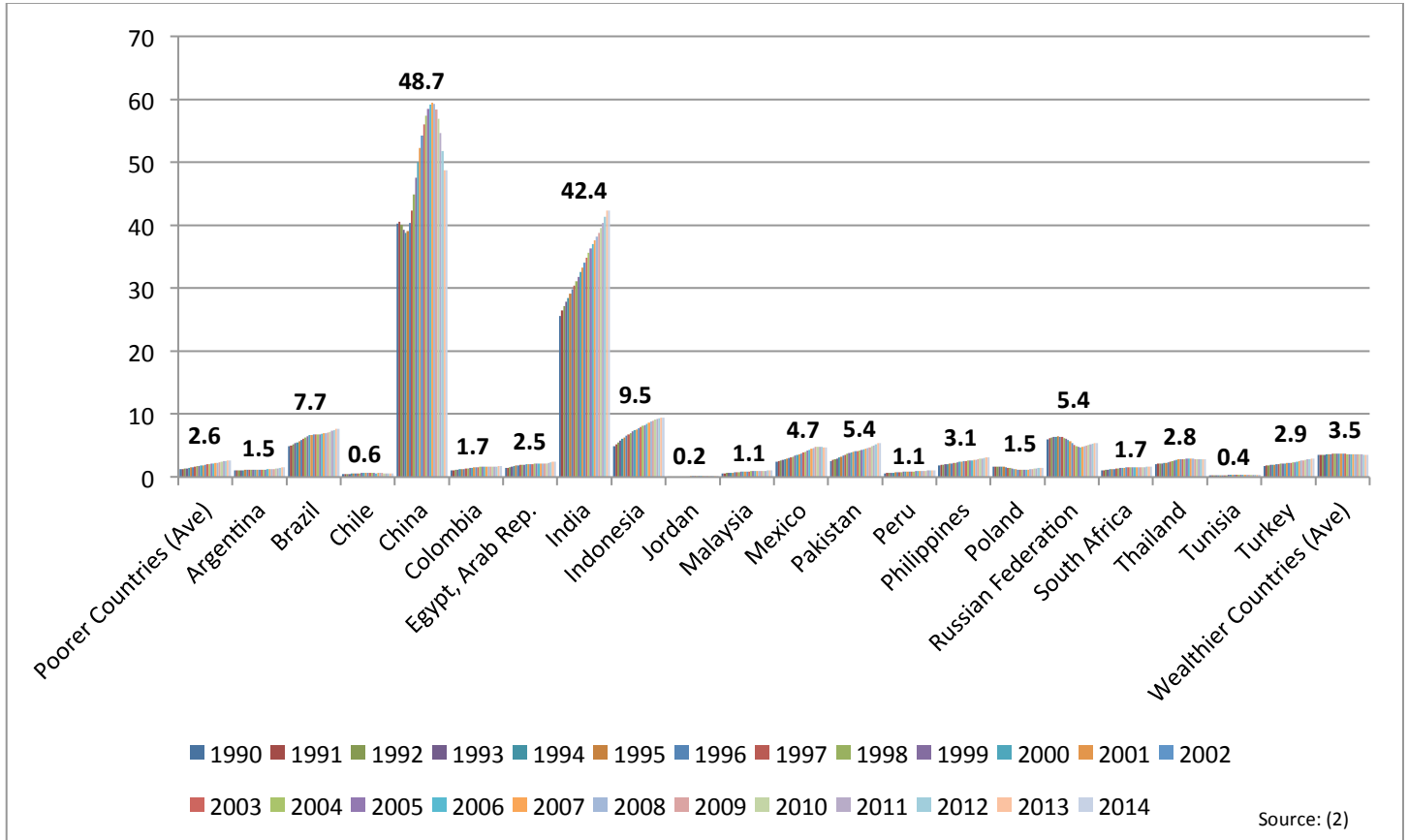


Figure 55: Female Population Aged 50-54 years (millions), 1990-2014

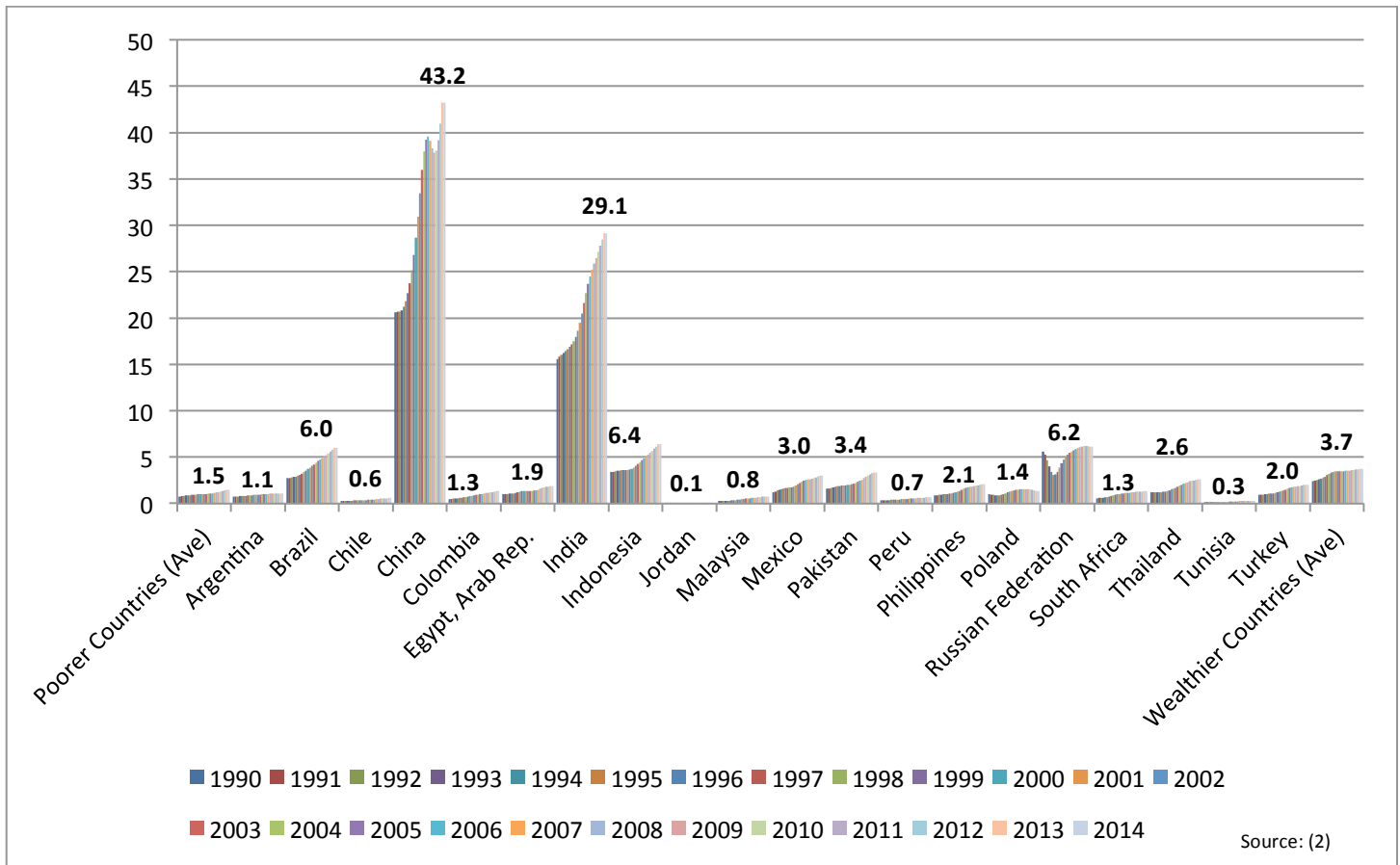


Figure 56: Female Population Aged 55-59 years (millions), 1990-2014

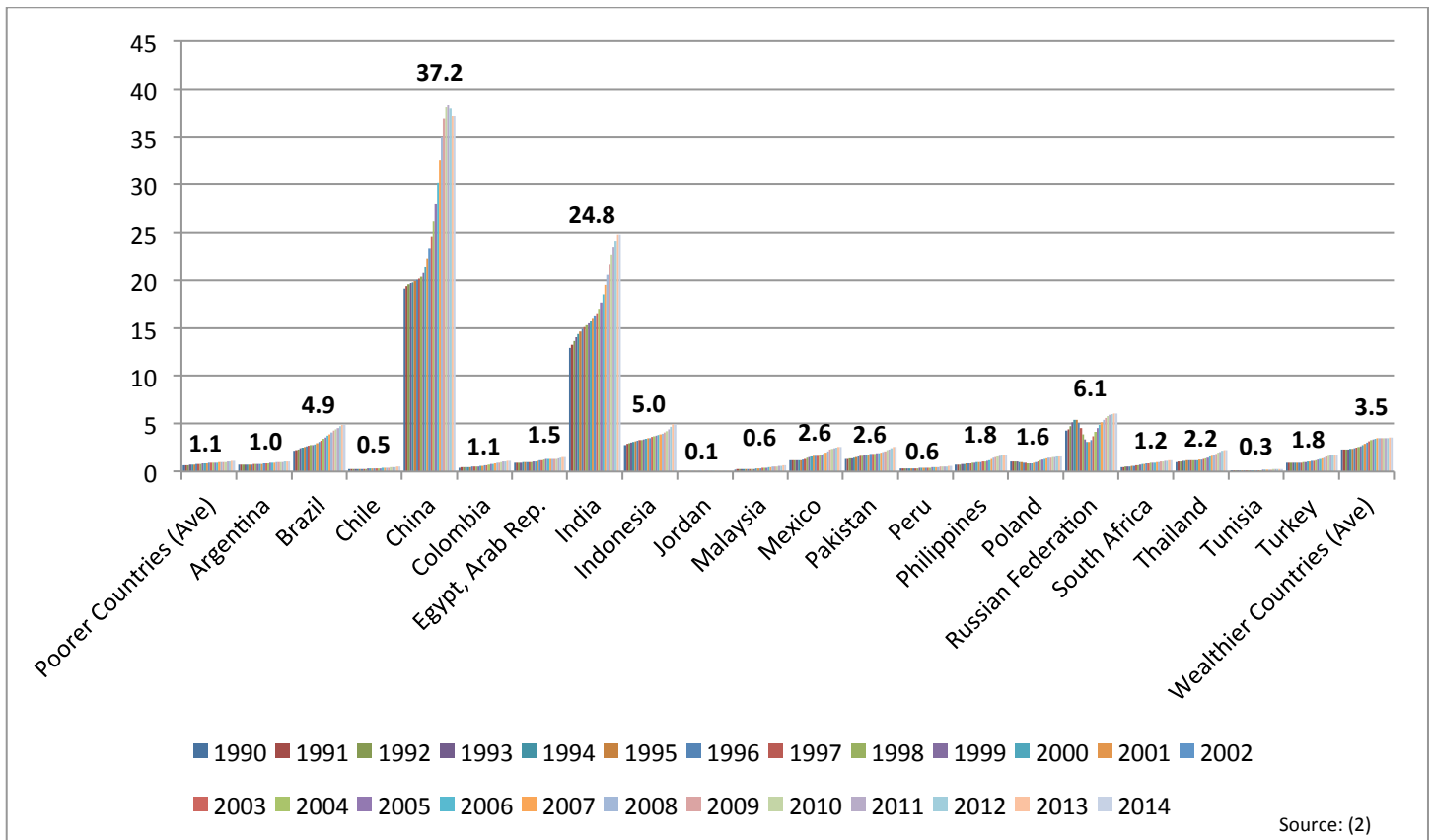


Figure 57: Female Population Aged 60-64 years (millions), 1990-2013

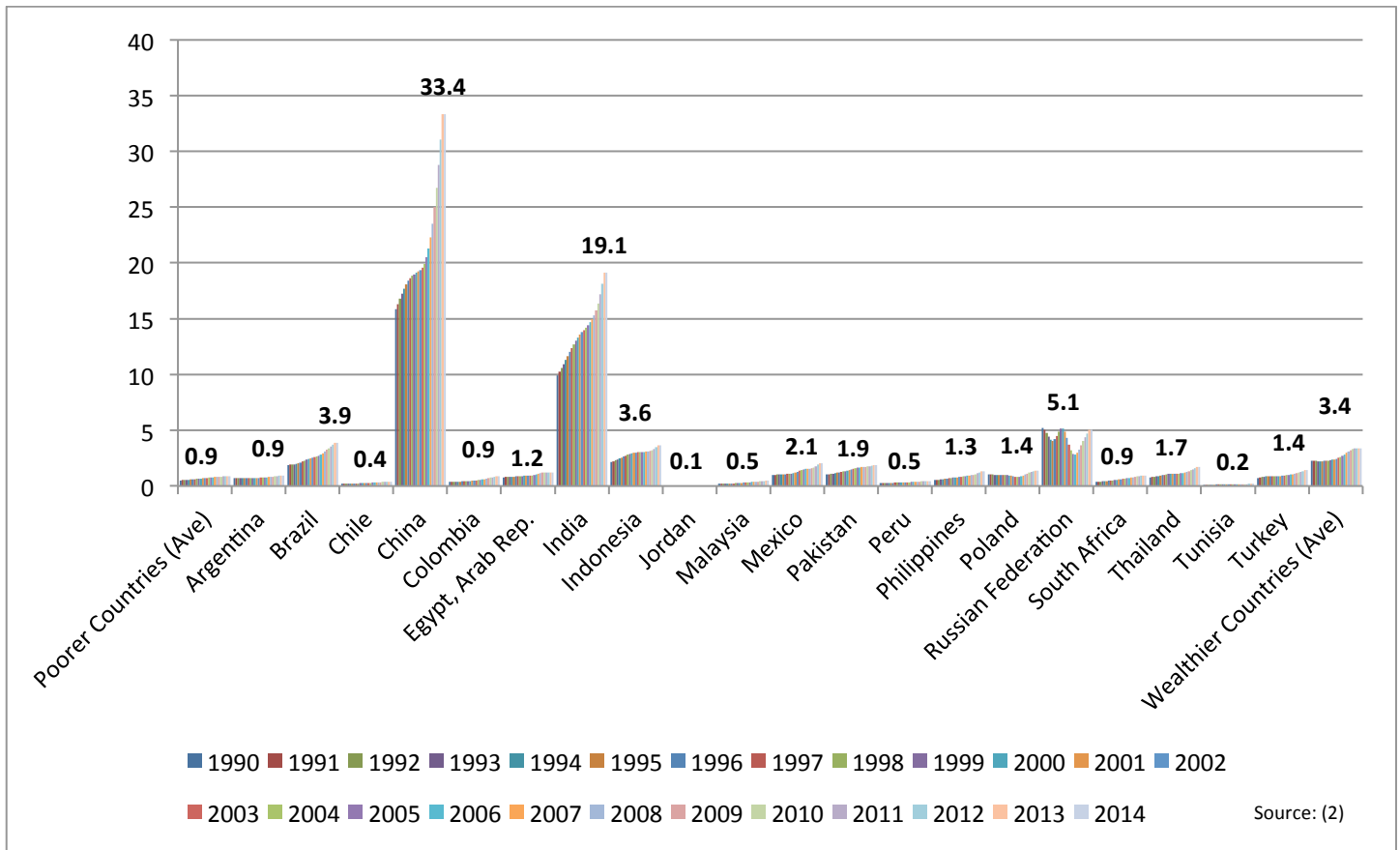


Figure 58: Female Population Aged 65-69 years (millions), 1990-2013

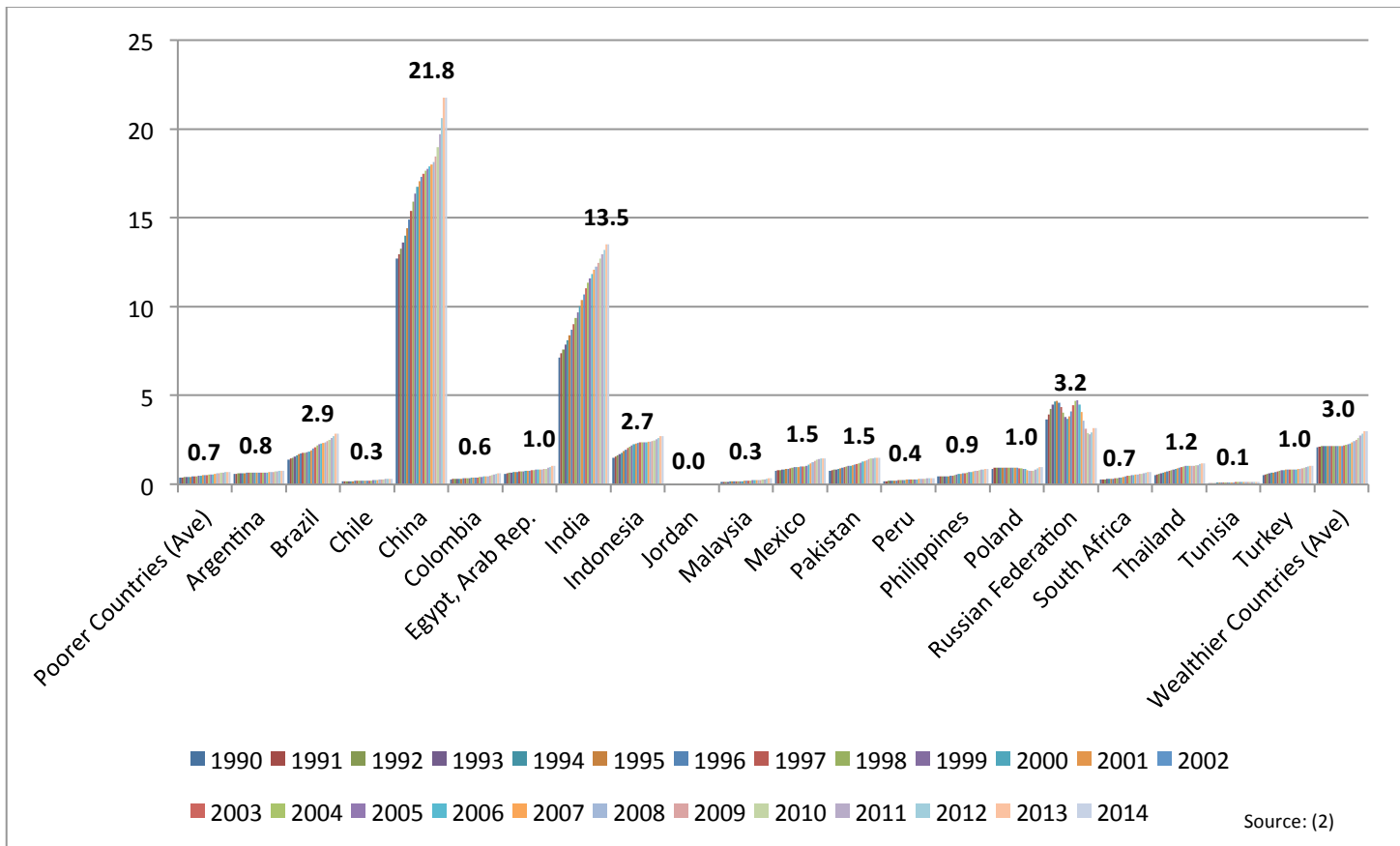


Figure 59: Female Population Aged 70-74 years (millions), 1990-2013

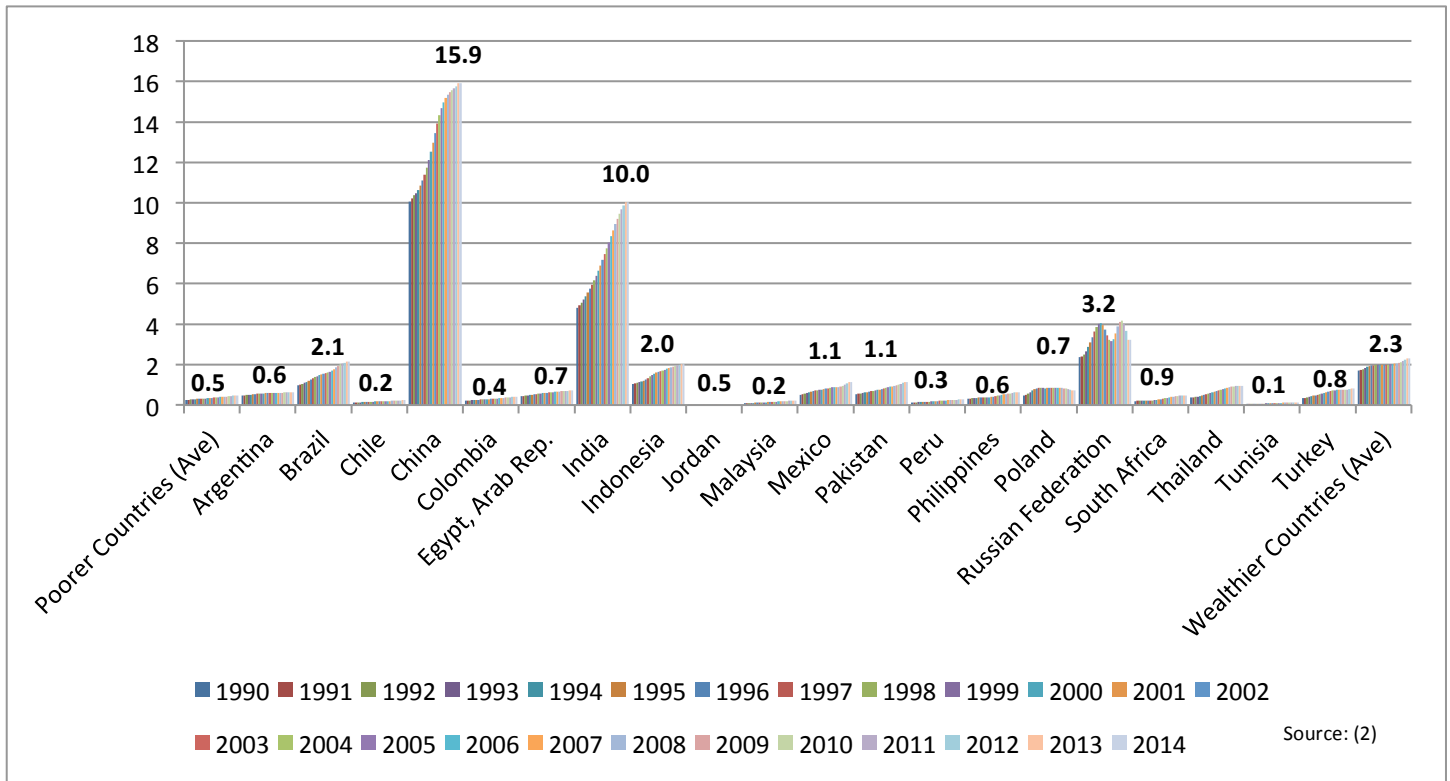


Figure 60: Female Population Aged 75-79 years (millions), 1990-2013

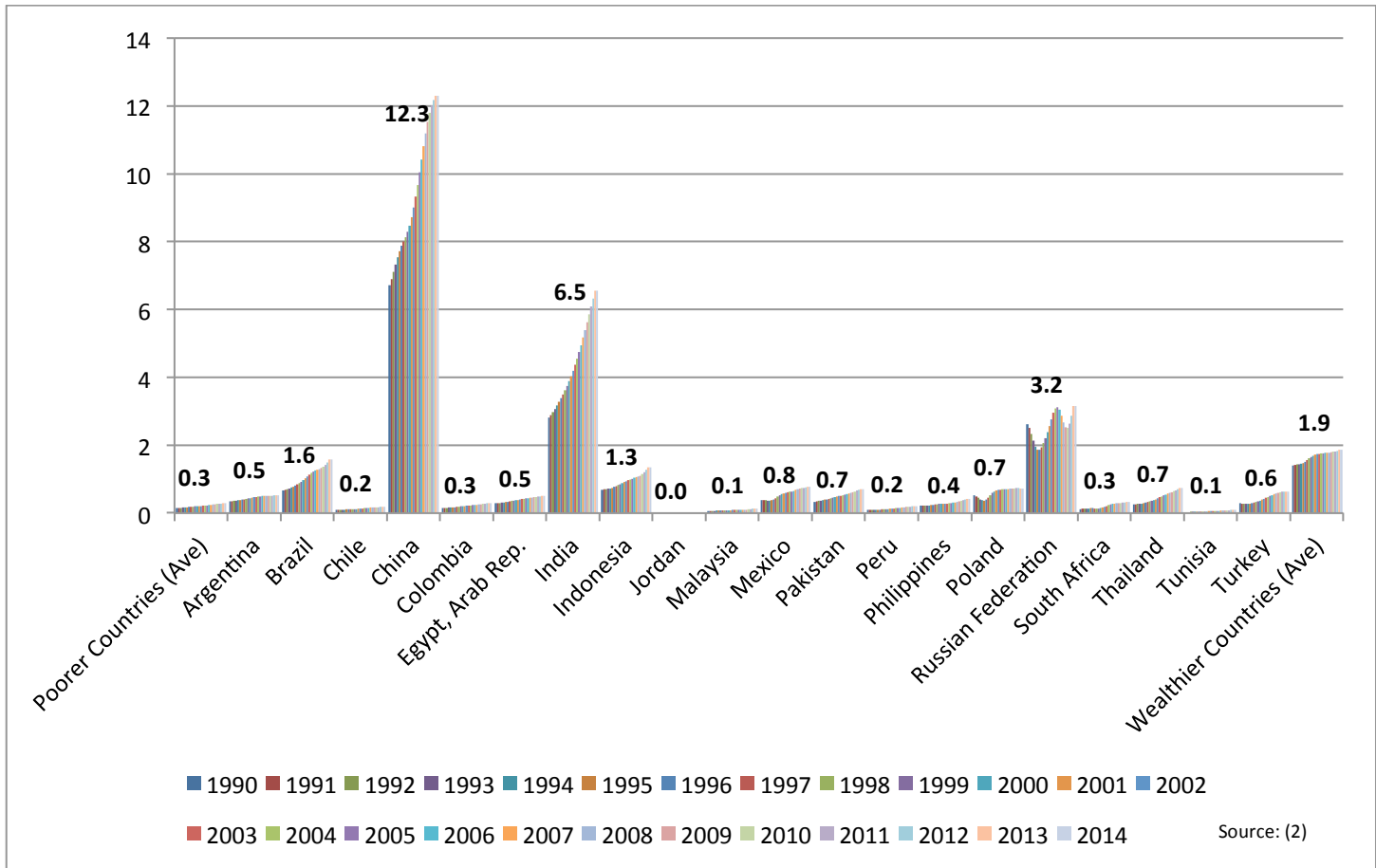
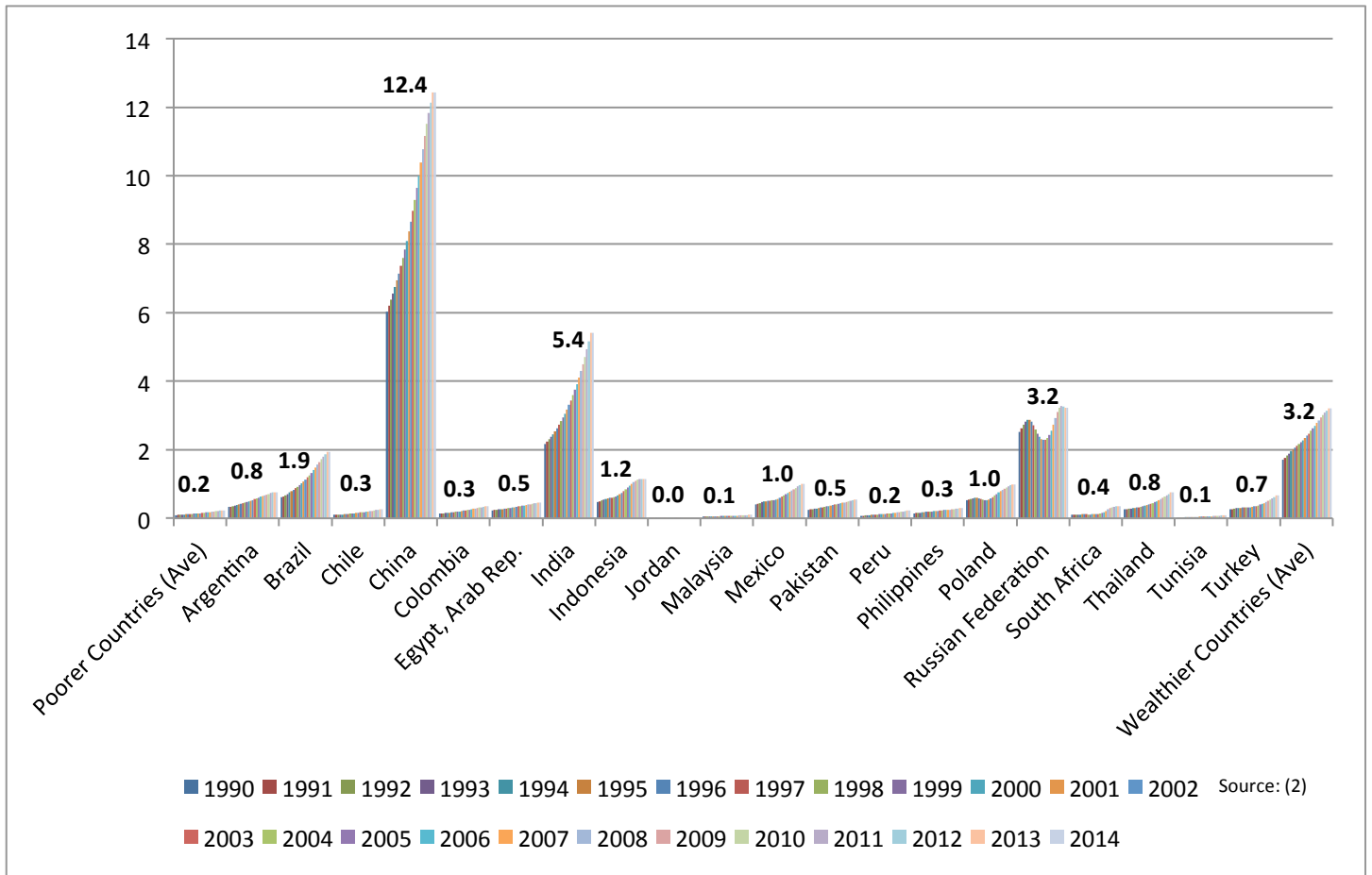


Figure 61: Female Population Aged 80+ years (millions), 1990-2013



4 Emerging Market Youth Data

4.1 Health

Figure 62: Population aged 0-14 (percentage of total population), 1990-2013

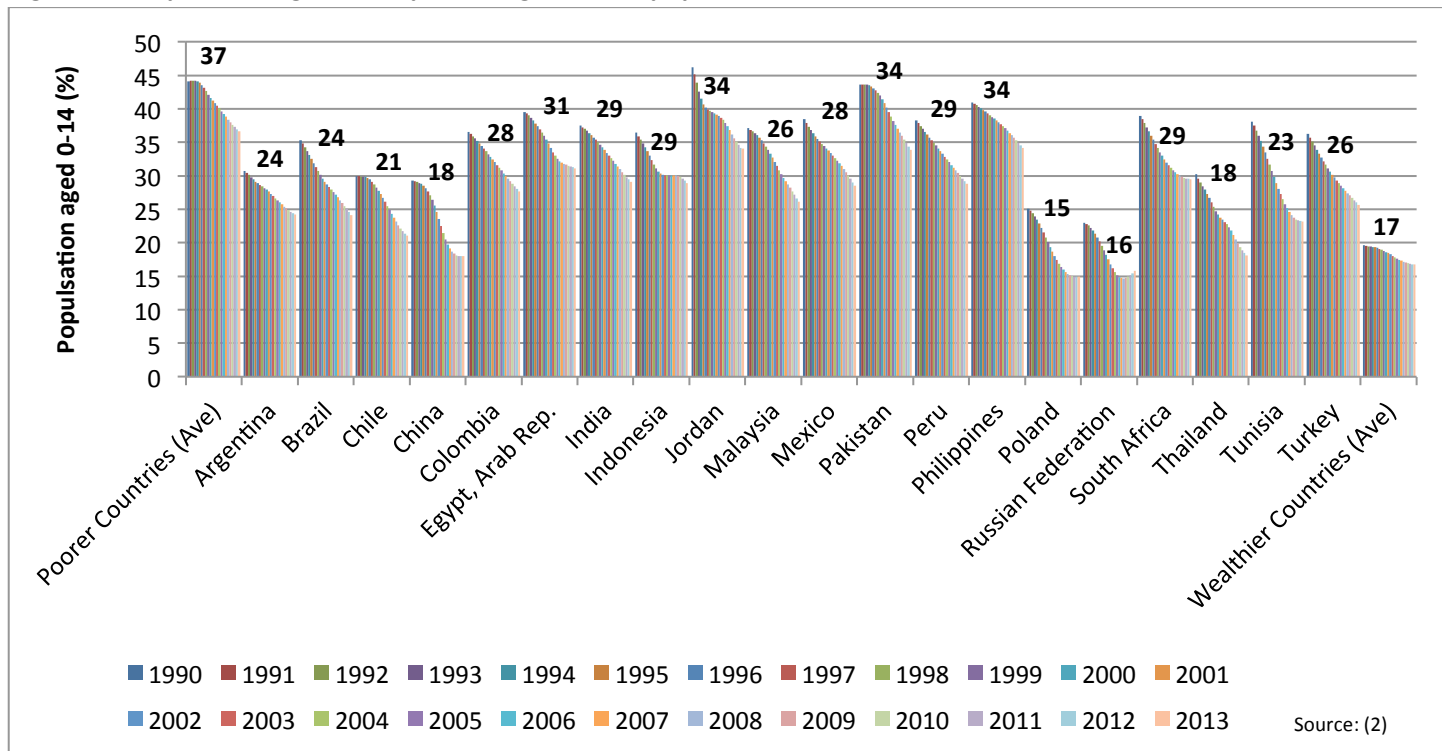


Figure 63: Population aged 15-64 (percentage of total population), 1990-2013

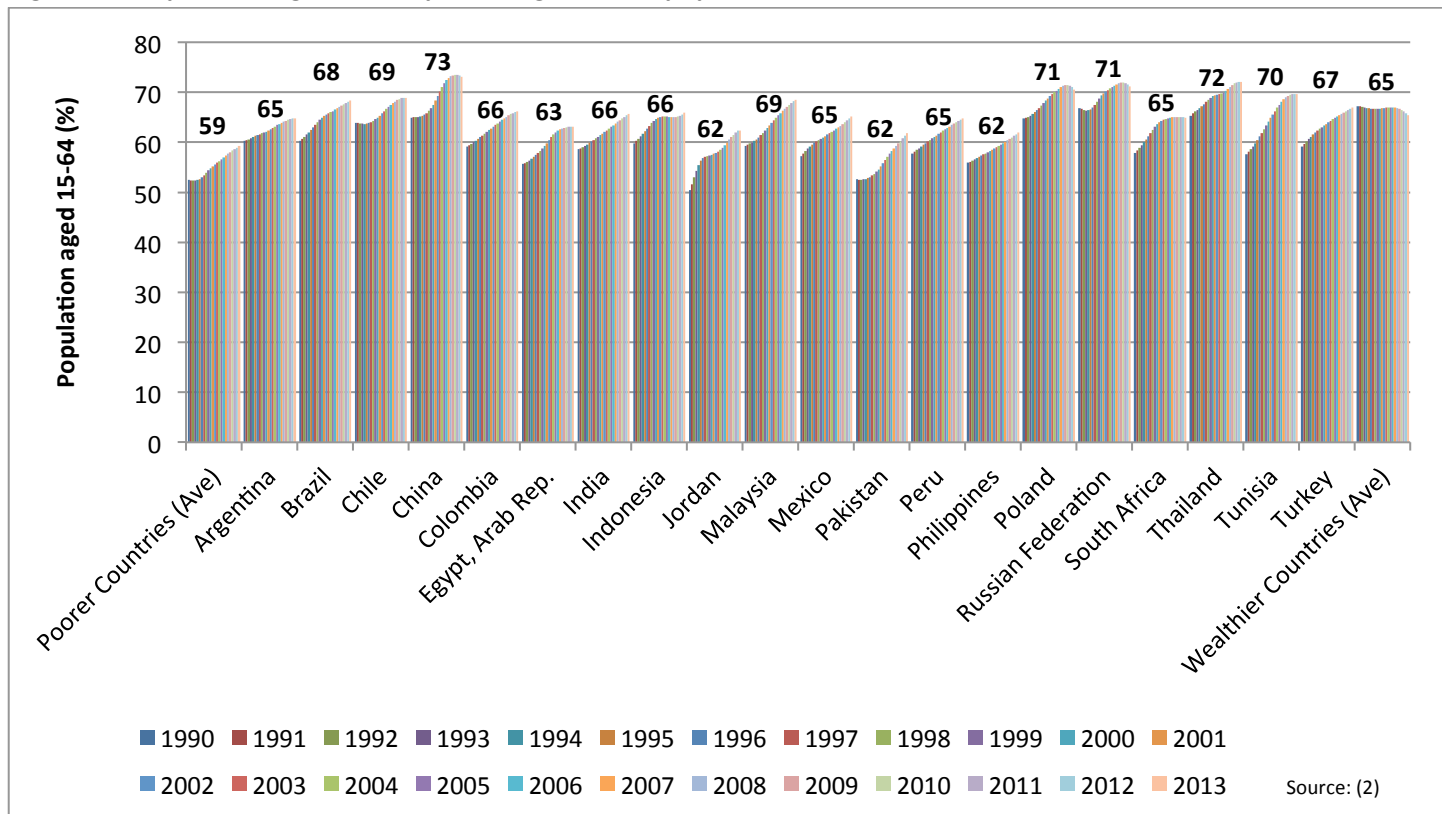


Figure 64: Age at First Marriage, Females, 2012

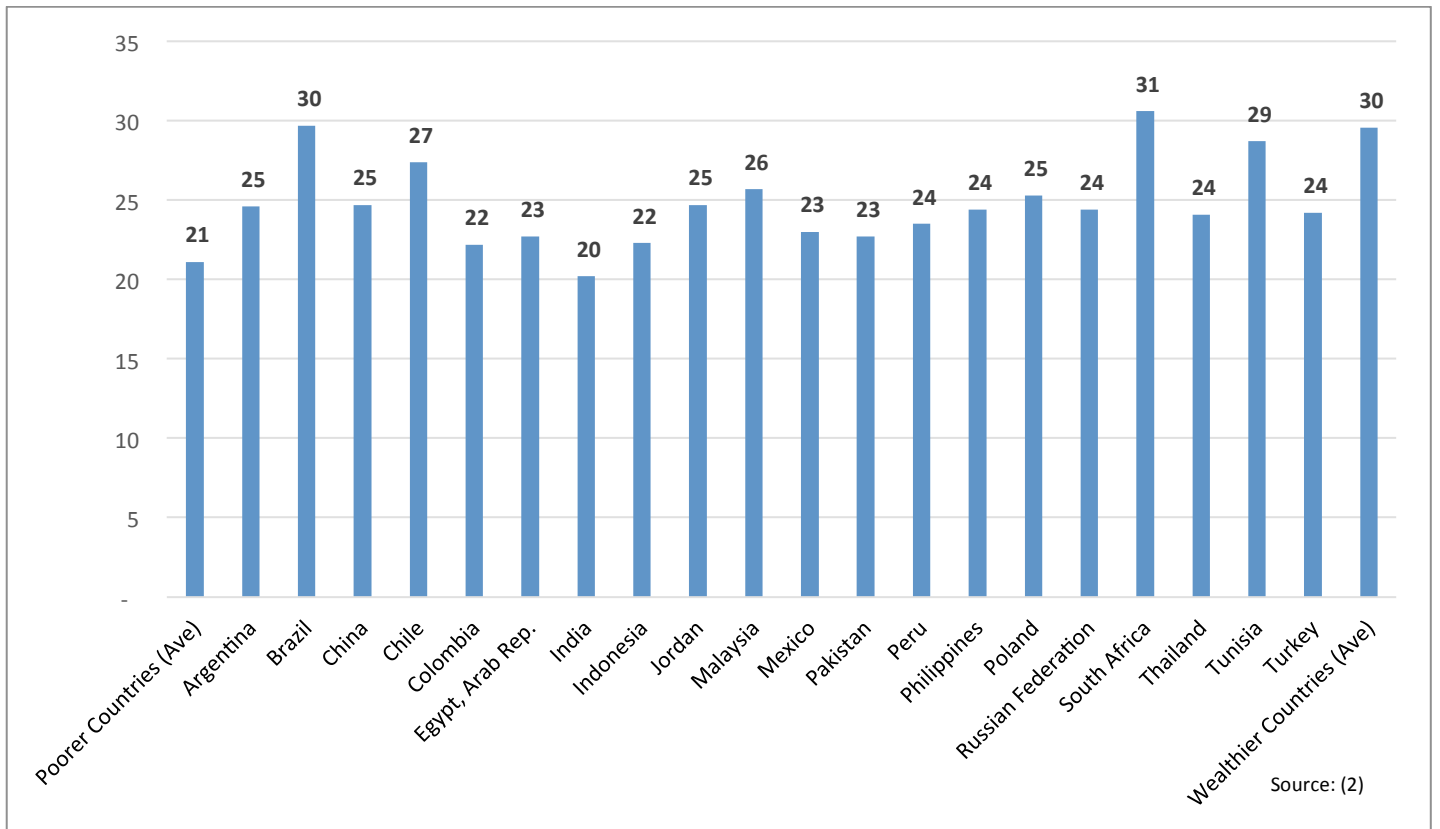


Figure 65: Age at First Marriage, Males, 2012

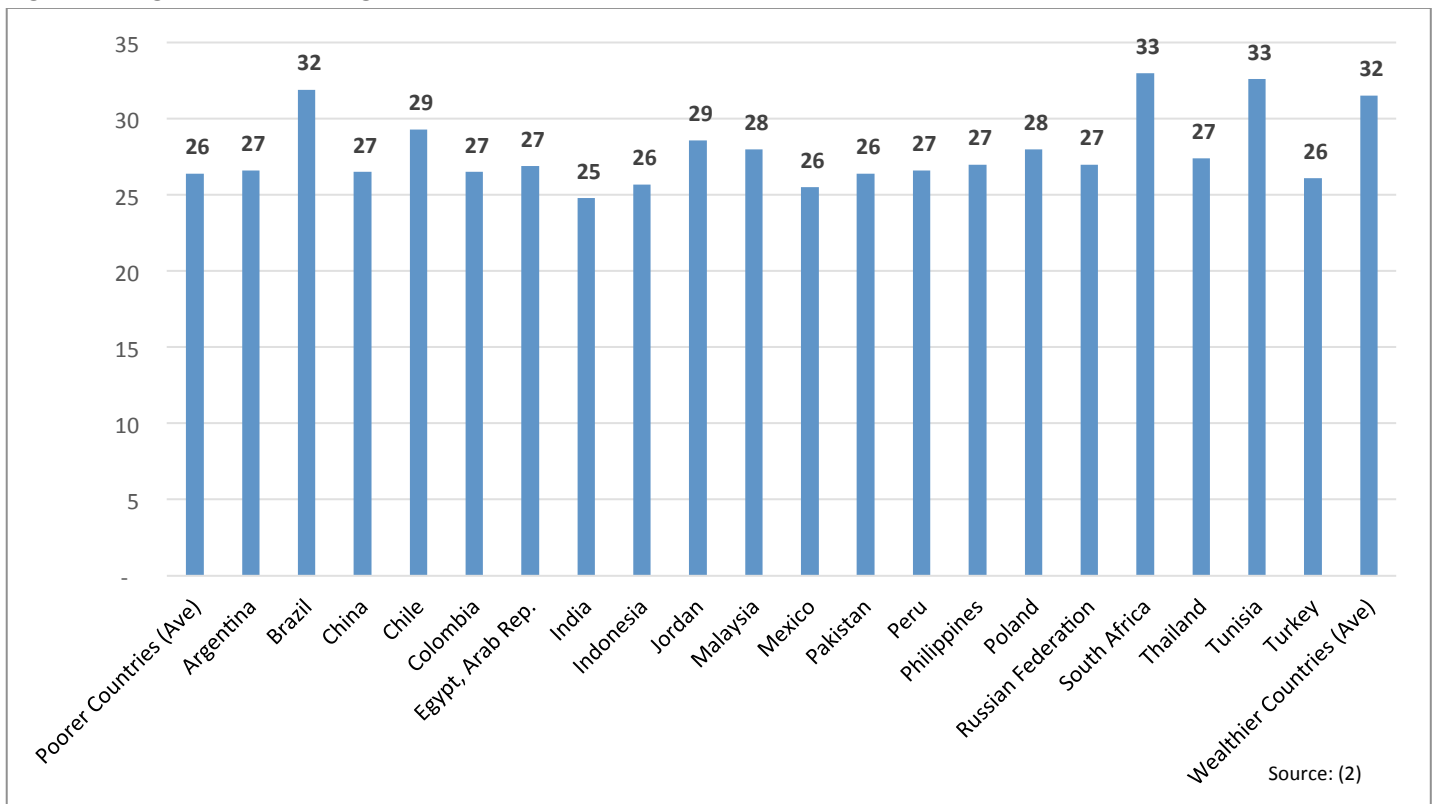


Figure 66: Birth rate, crude (per 1,000) people, 1990-2011

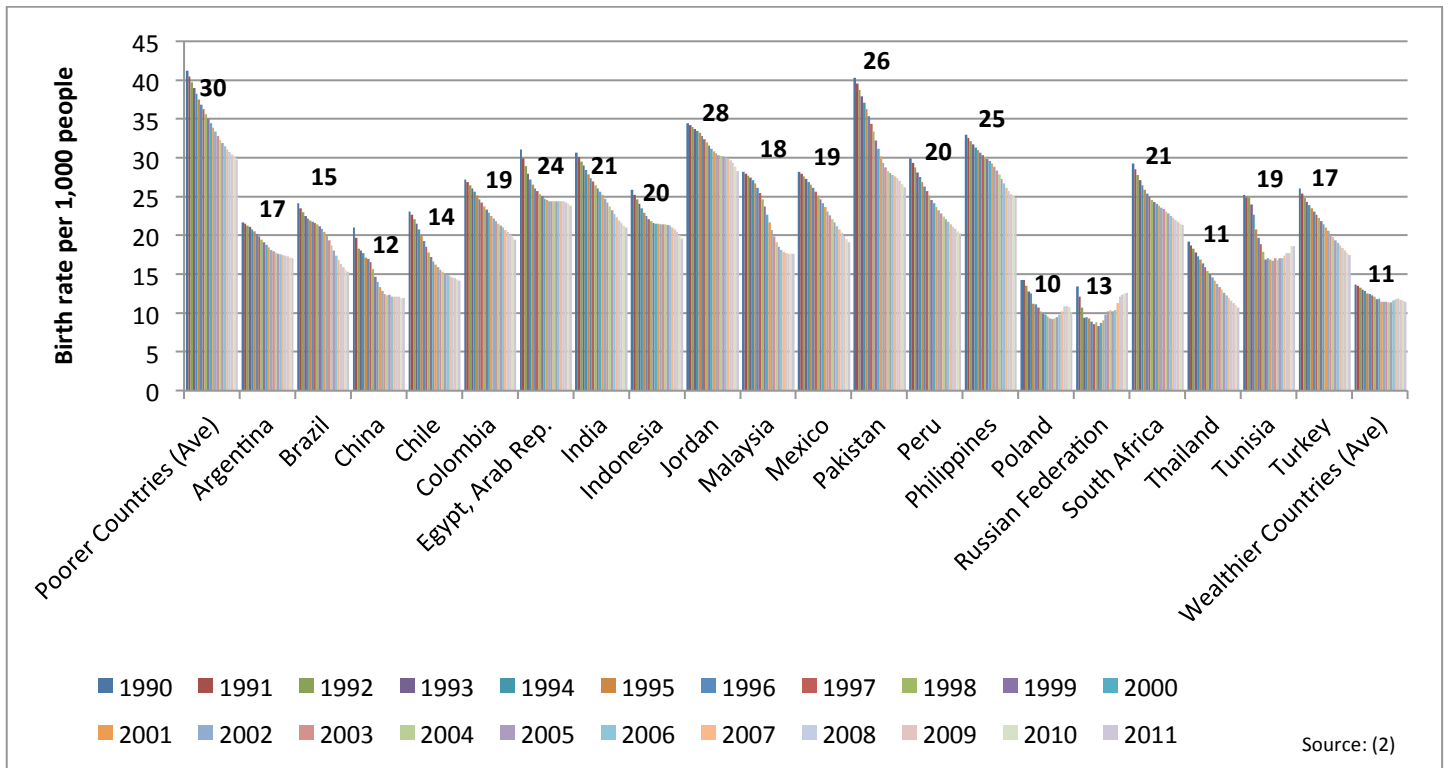


Figure 67: Life expectancy at birth, female (years), 1990-2011

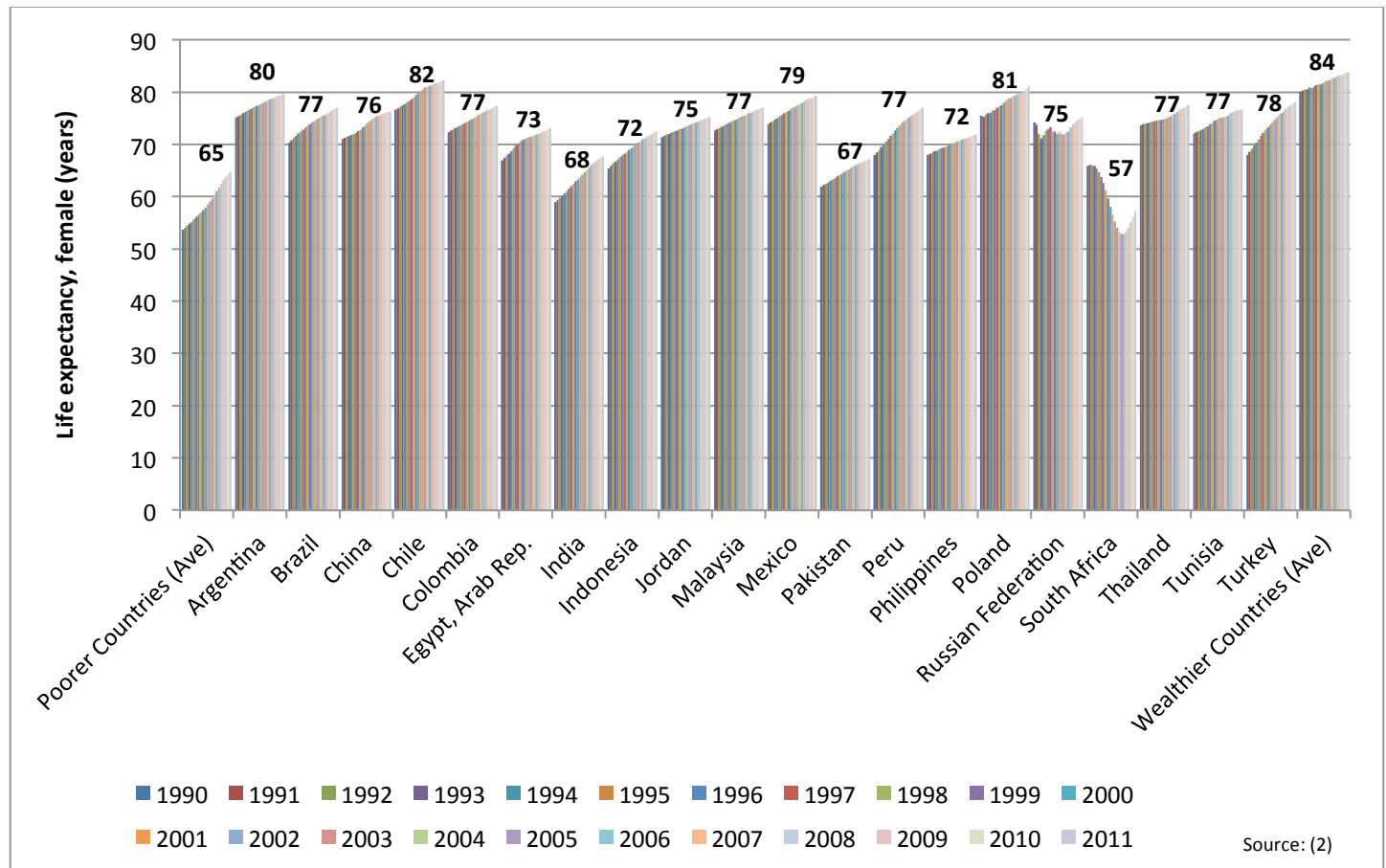
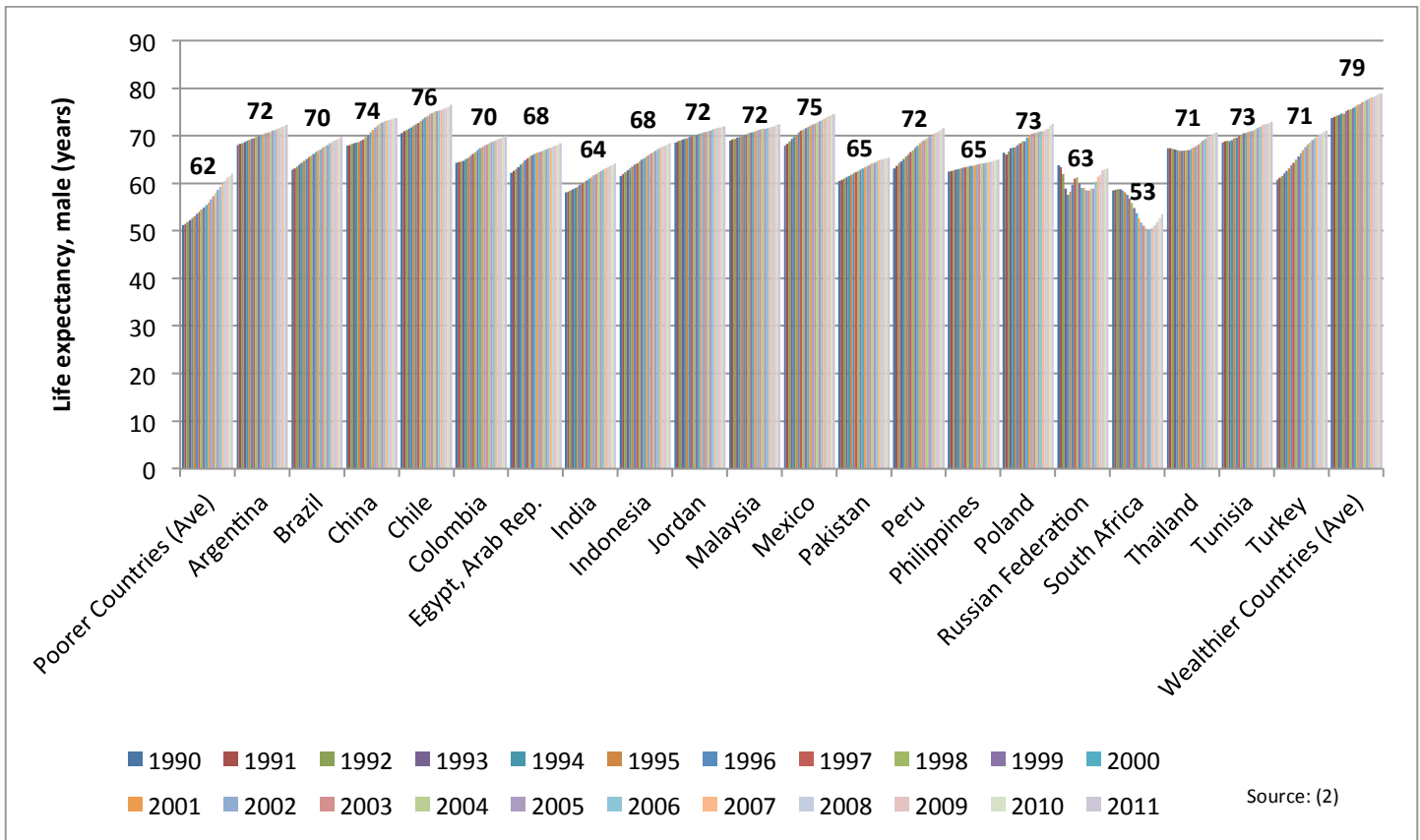
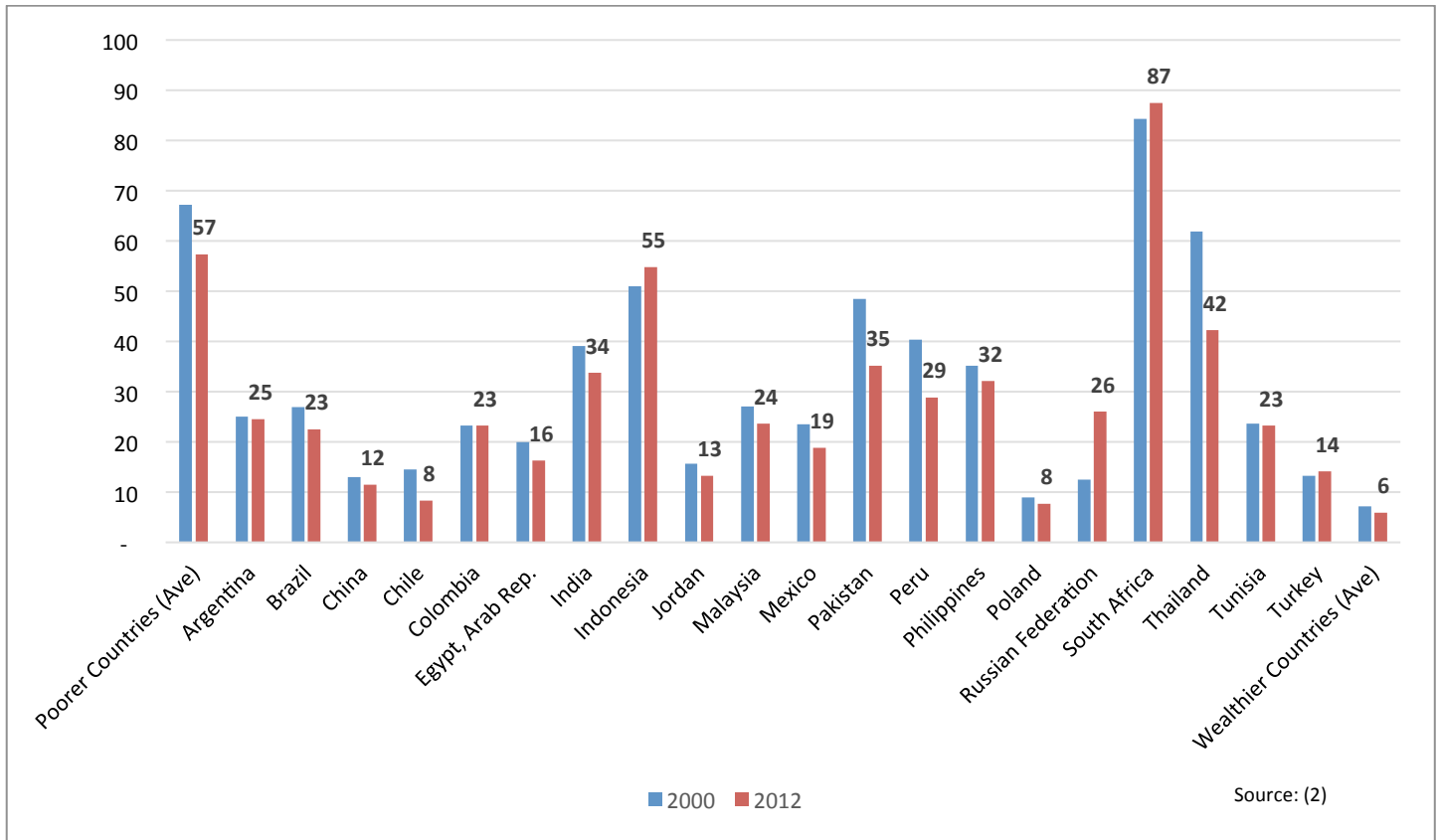


Figure 68: Life expectancy at birth, male (years), 1990-2011



Source: (2)

Figure 69: Cause of death, by communicable disease, ages 15-34, female (% of relevant age group), 2000 and 2012



Source: (2)

Figure 70: Cause of death, by communicable diseases, ages 15-34, male (% of relevant age group), 2000 and 2012

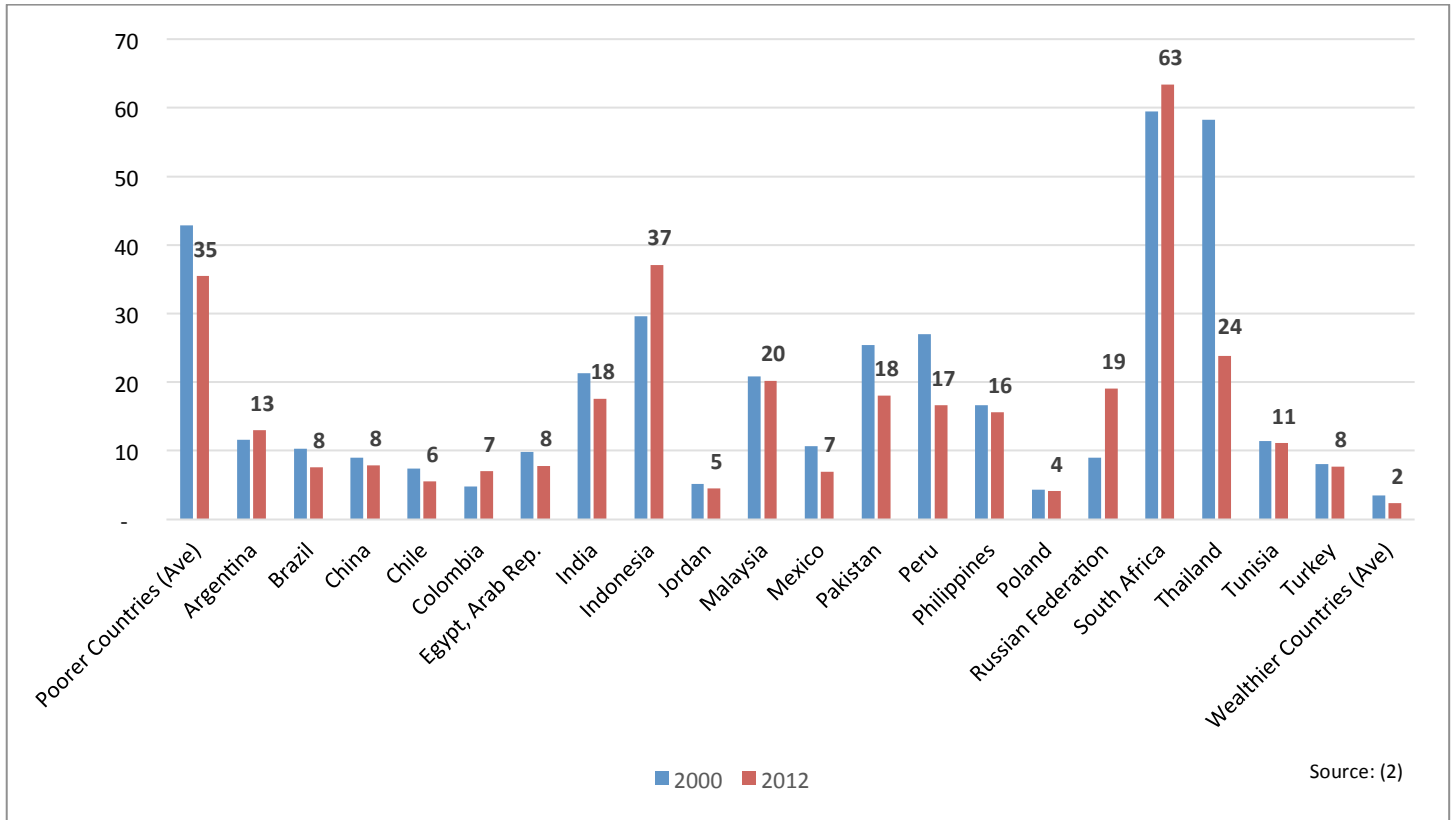


Figure 71: Cause of death, by injury, ages 15-34, female (% of relevant age group), 2000 and 2012

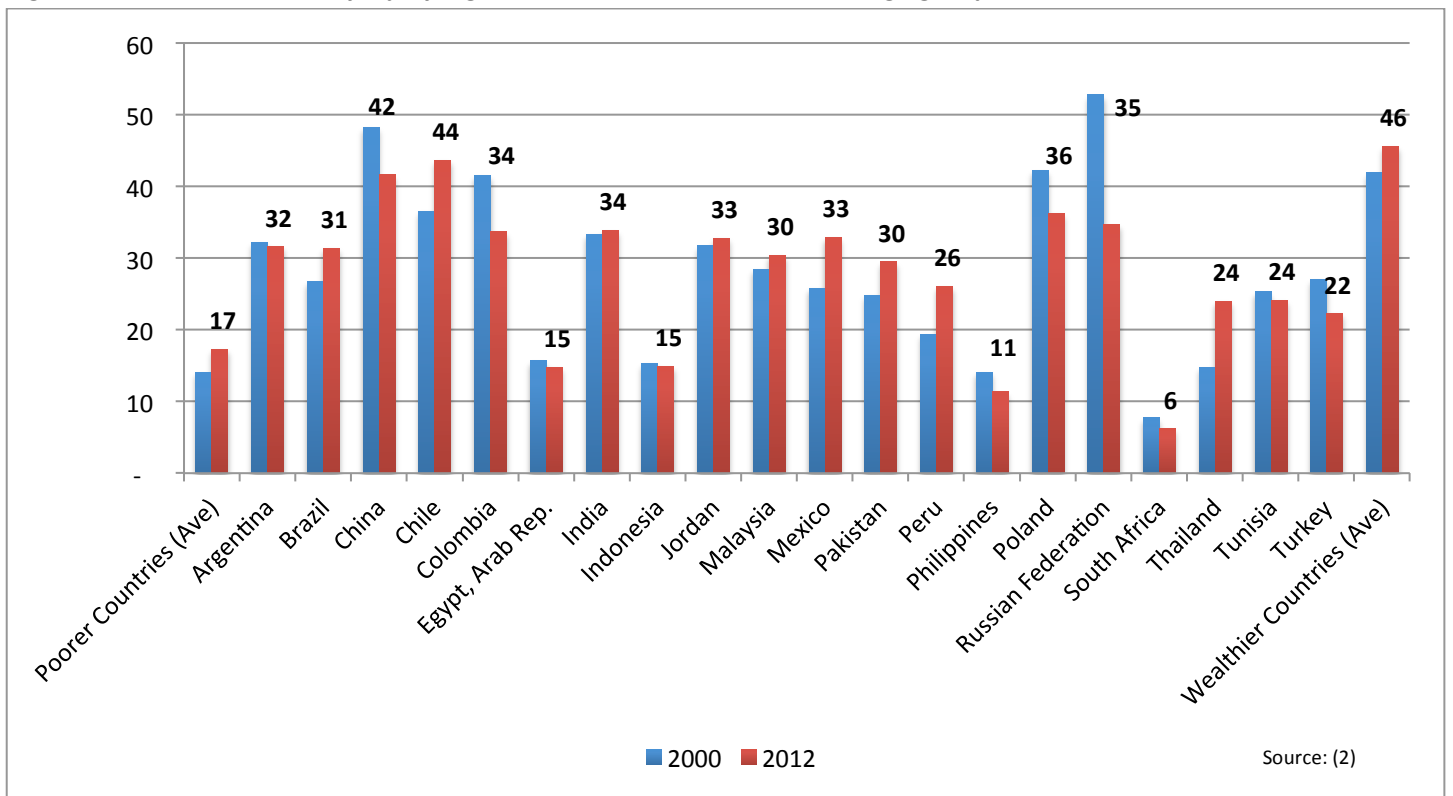


Figure 72: Cause of death, by injury, ages 15-34, male (% of relevant age group), 2000 and 2012

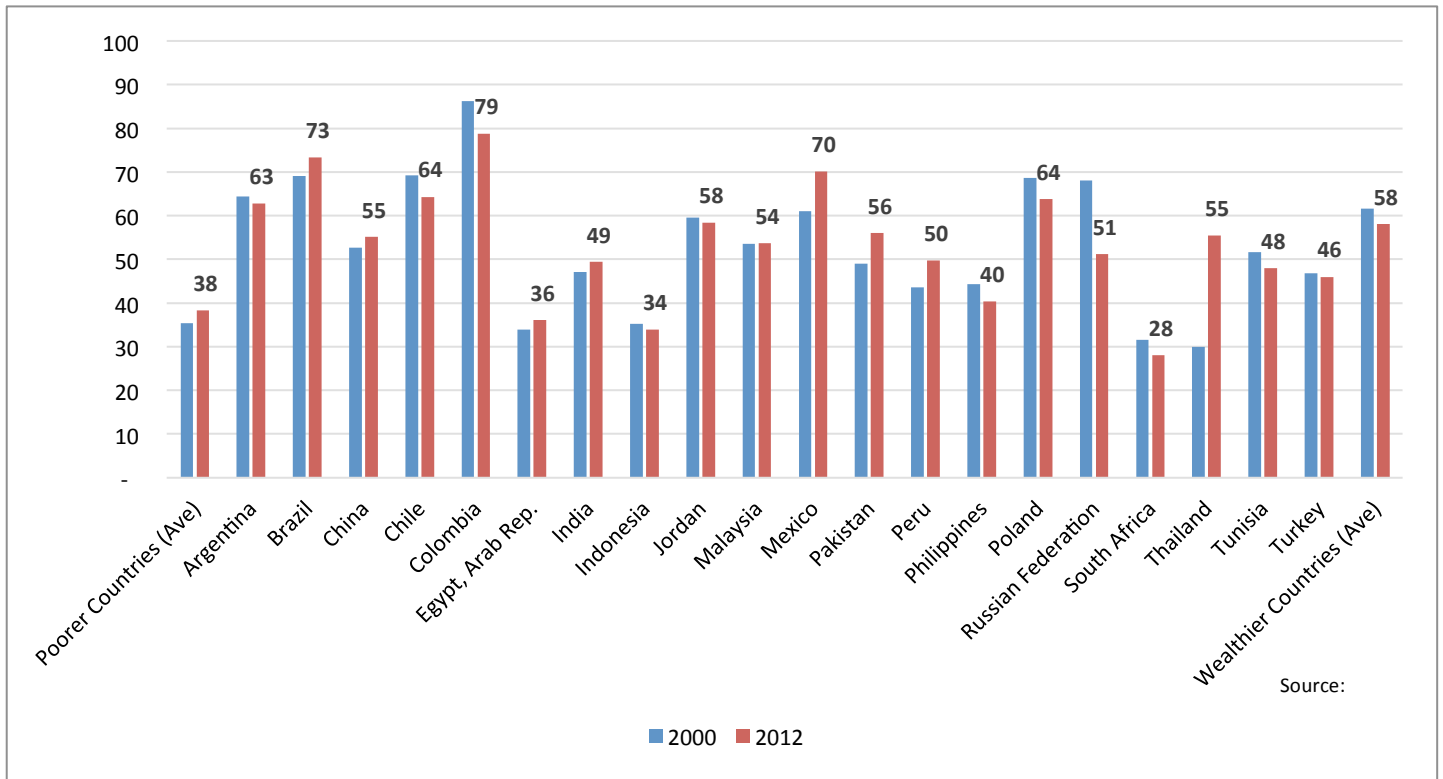


Figure 73: Cause of death, by communicable illness, ages 15-34, female (% of relevant age group), 2000 and 2012

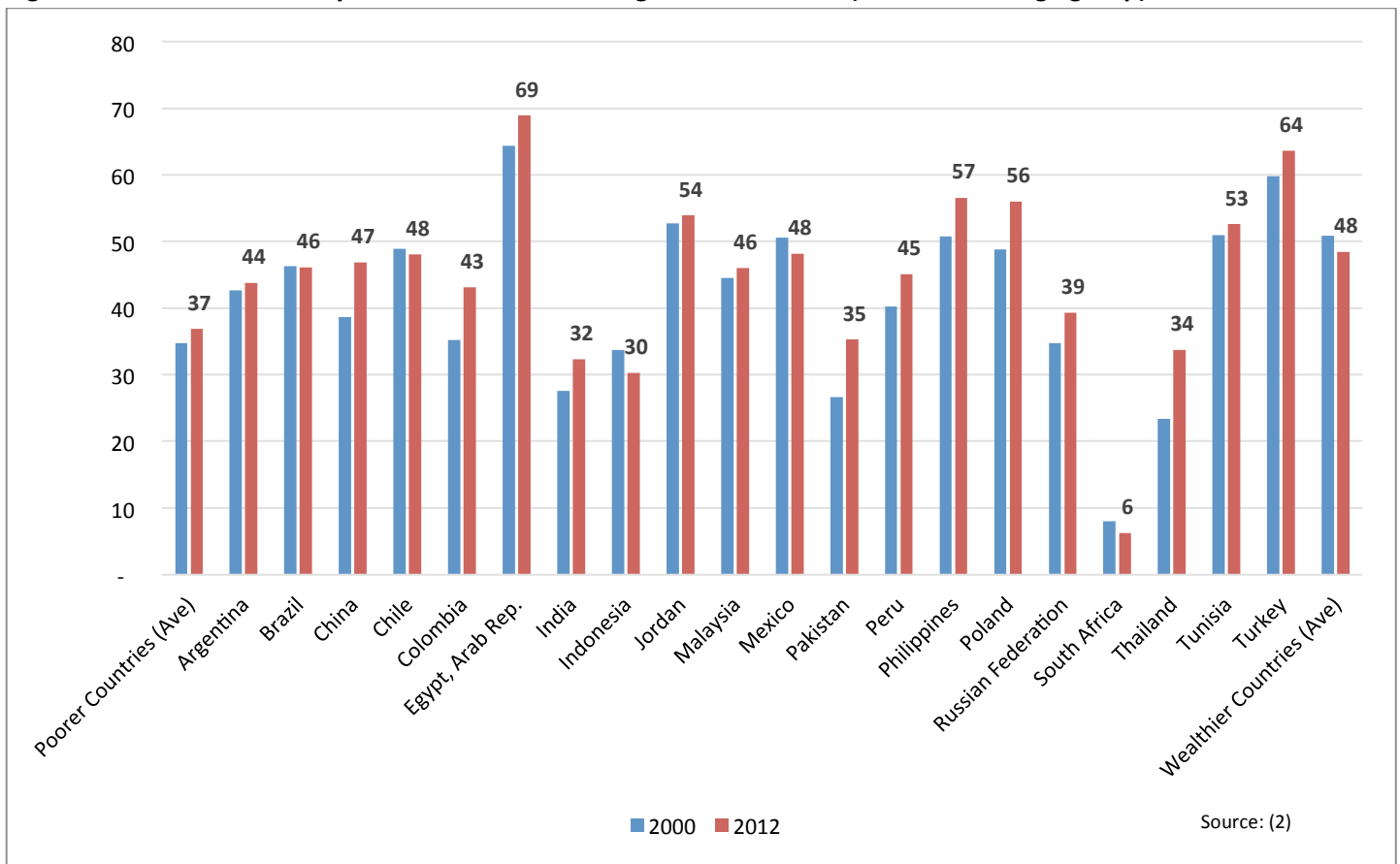


Figure 74: Cause of death, by communicable illness, ages 15-34, male (% of relevant age group), 2000 and 2012

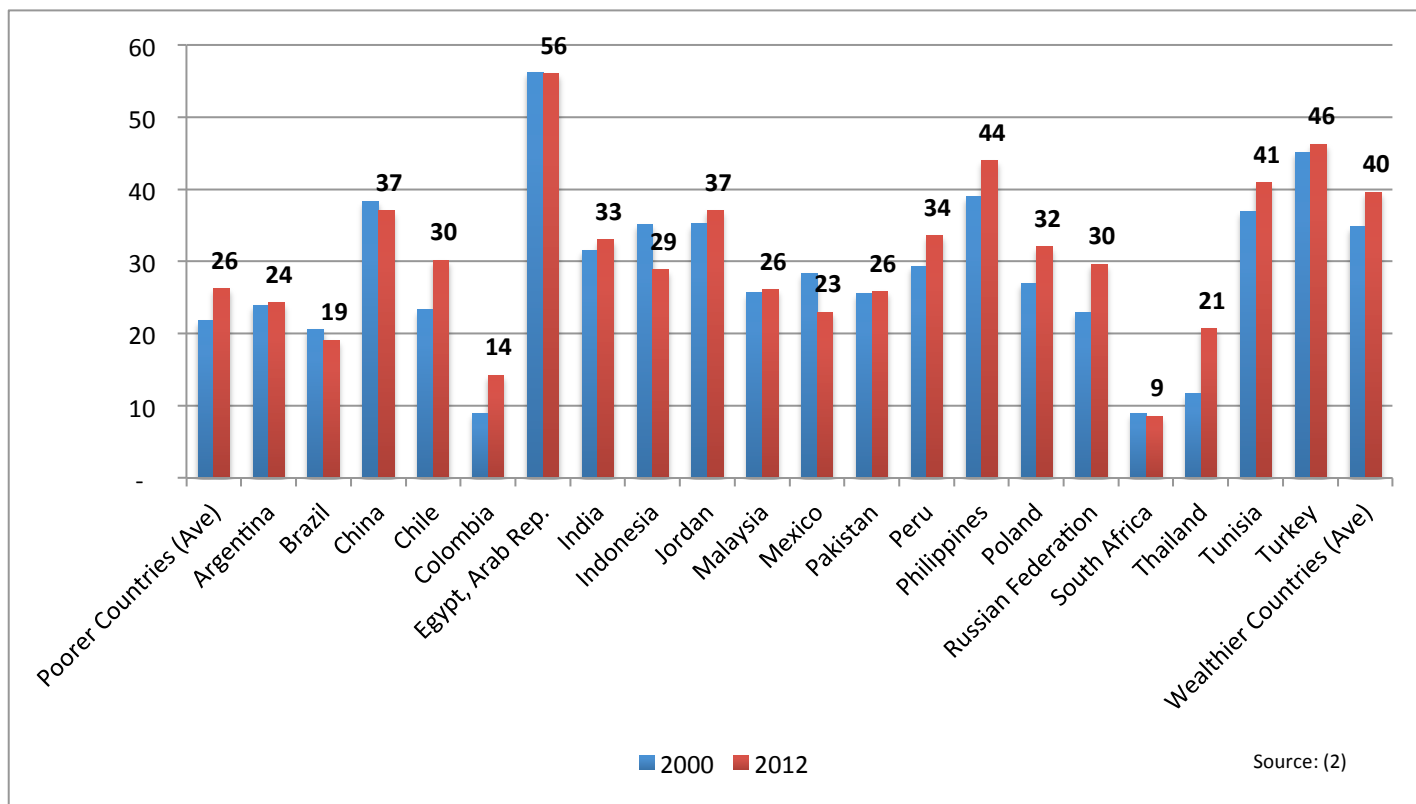


Figure 75: Prevalence of HIV, female (% ages 15-24), 1990-2014

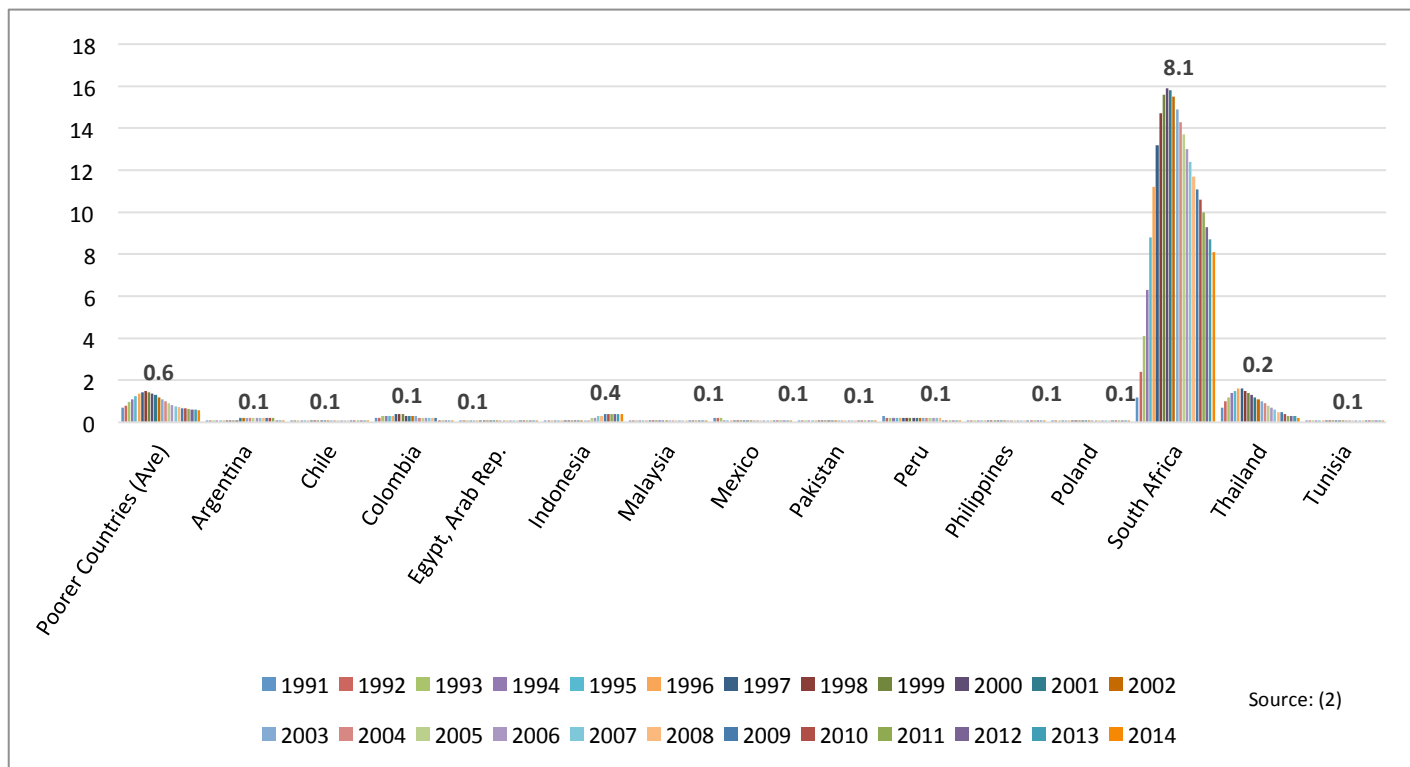
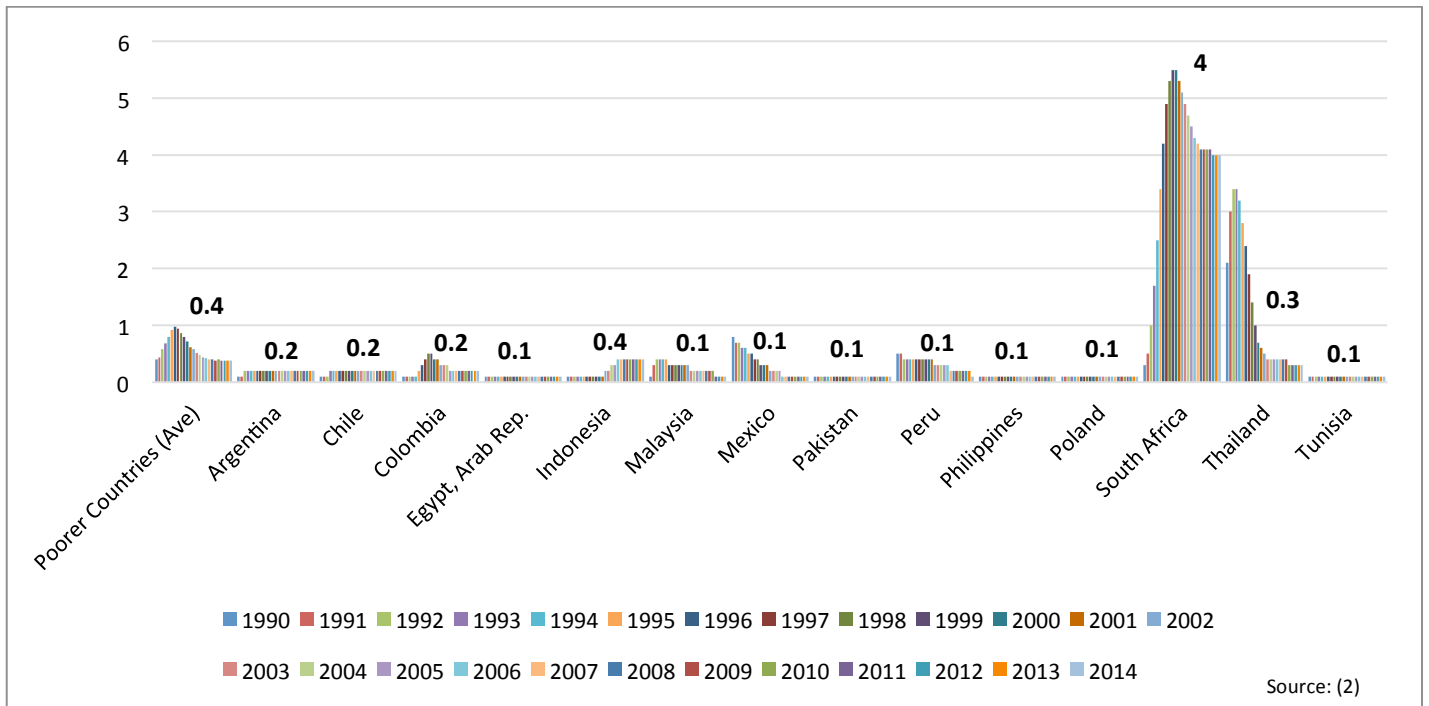


Figure 76: Prevalence of HIV, male (% ages 15-24), 1990-2014



4.2 Economic Data

Figure 77: Employment to population ratio, ages 15-24, female, 1991-2013

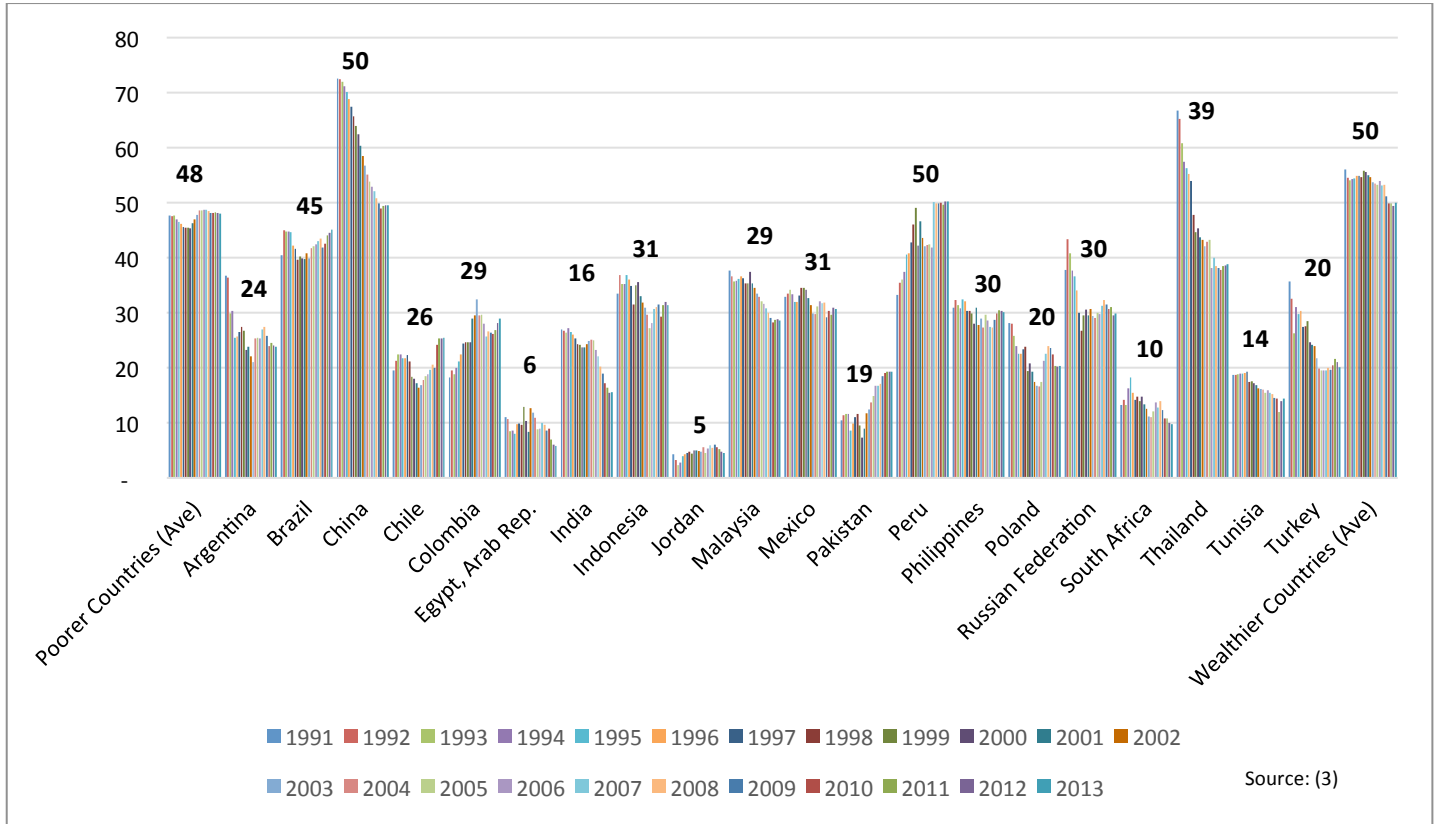


Figure 78: Employment to population ratio, ages 15-24, male, 1991-2013

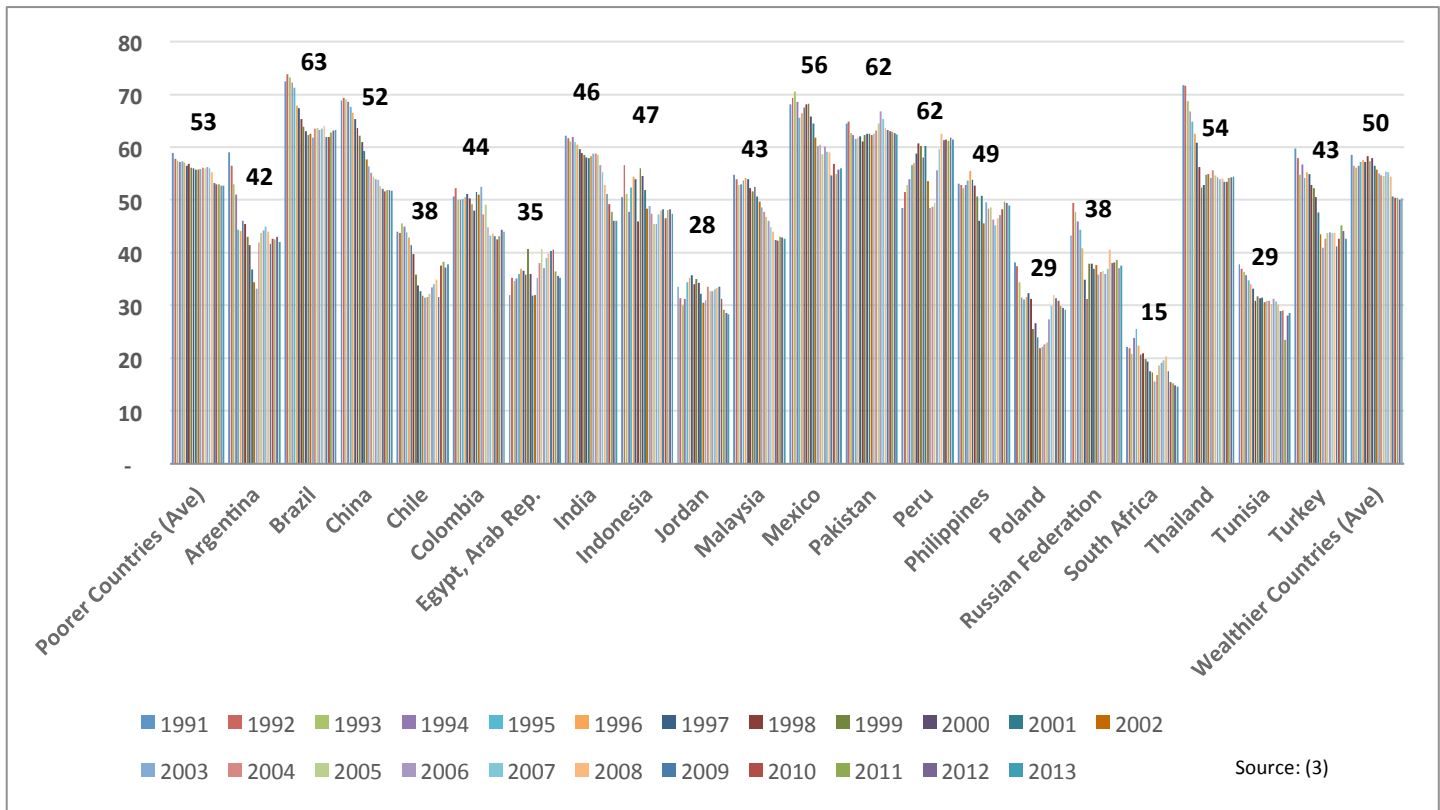


Figure 79: Unemployment, youth female (% of female labour force ages 15-24), 1991-2013

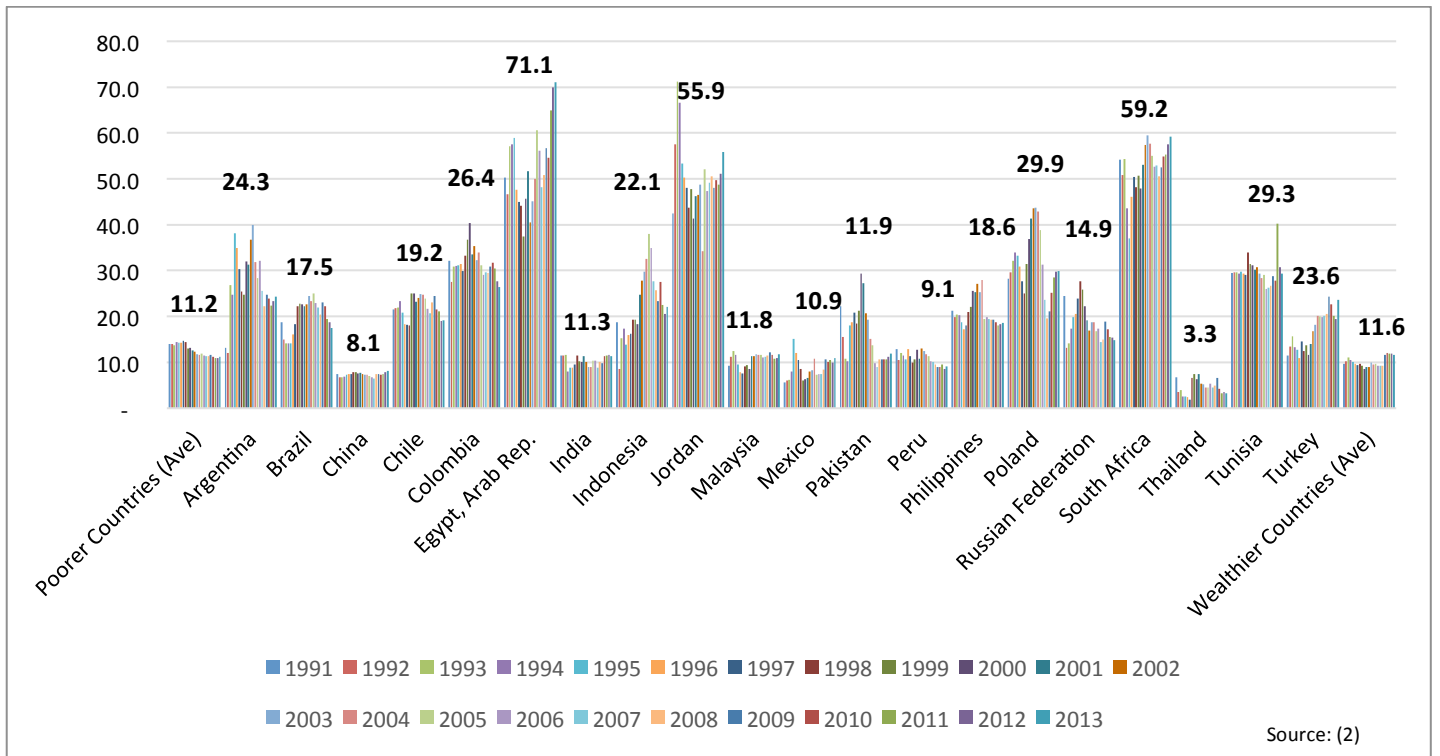


Figure 80: Unemployment, youth male (% of male labour force ages 15-24), 1991-2013

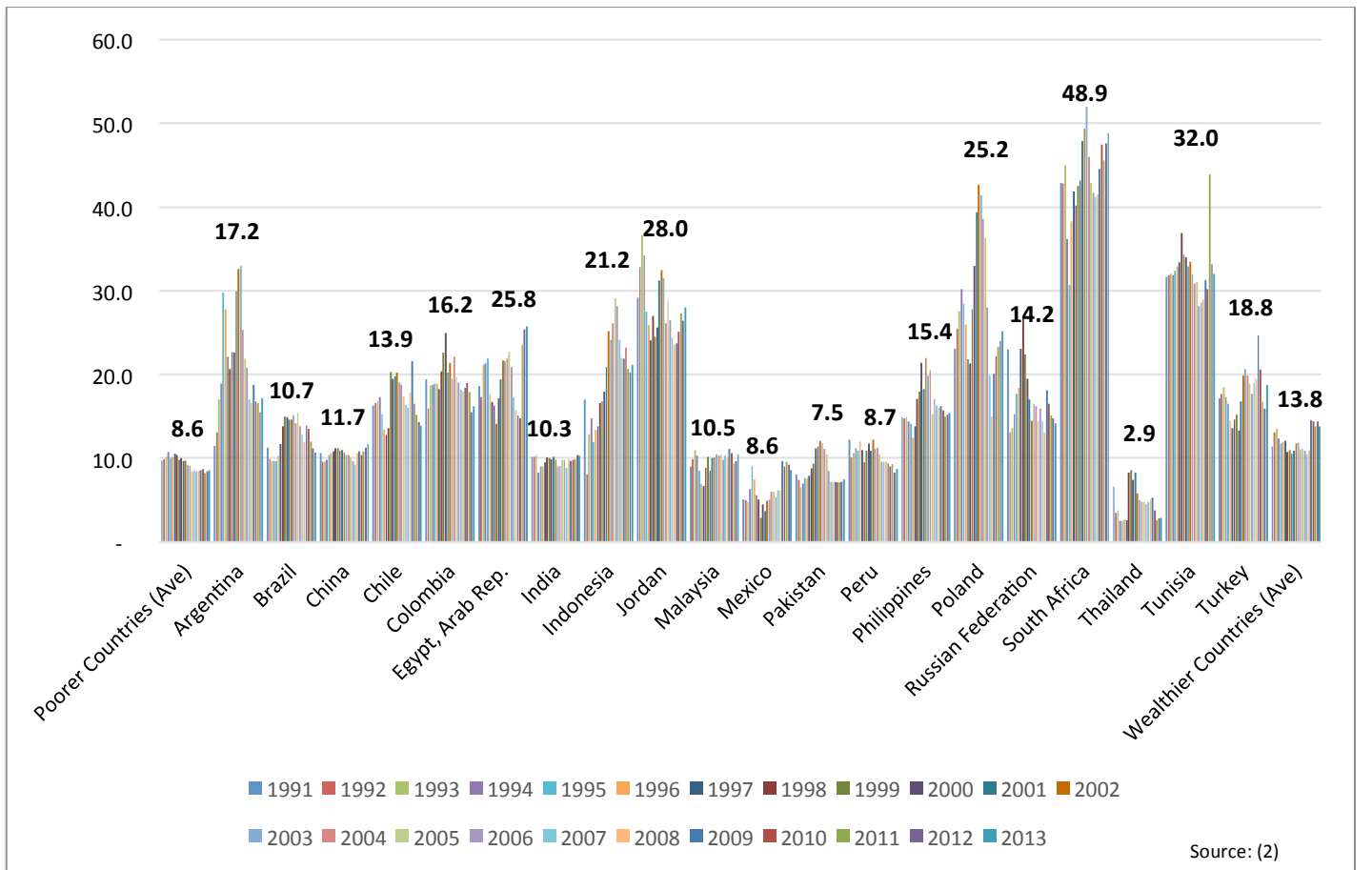


Figure 81: Ratio of female to male youth unemployment rate (% ages 15-24), 1991-2013

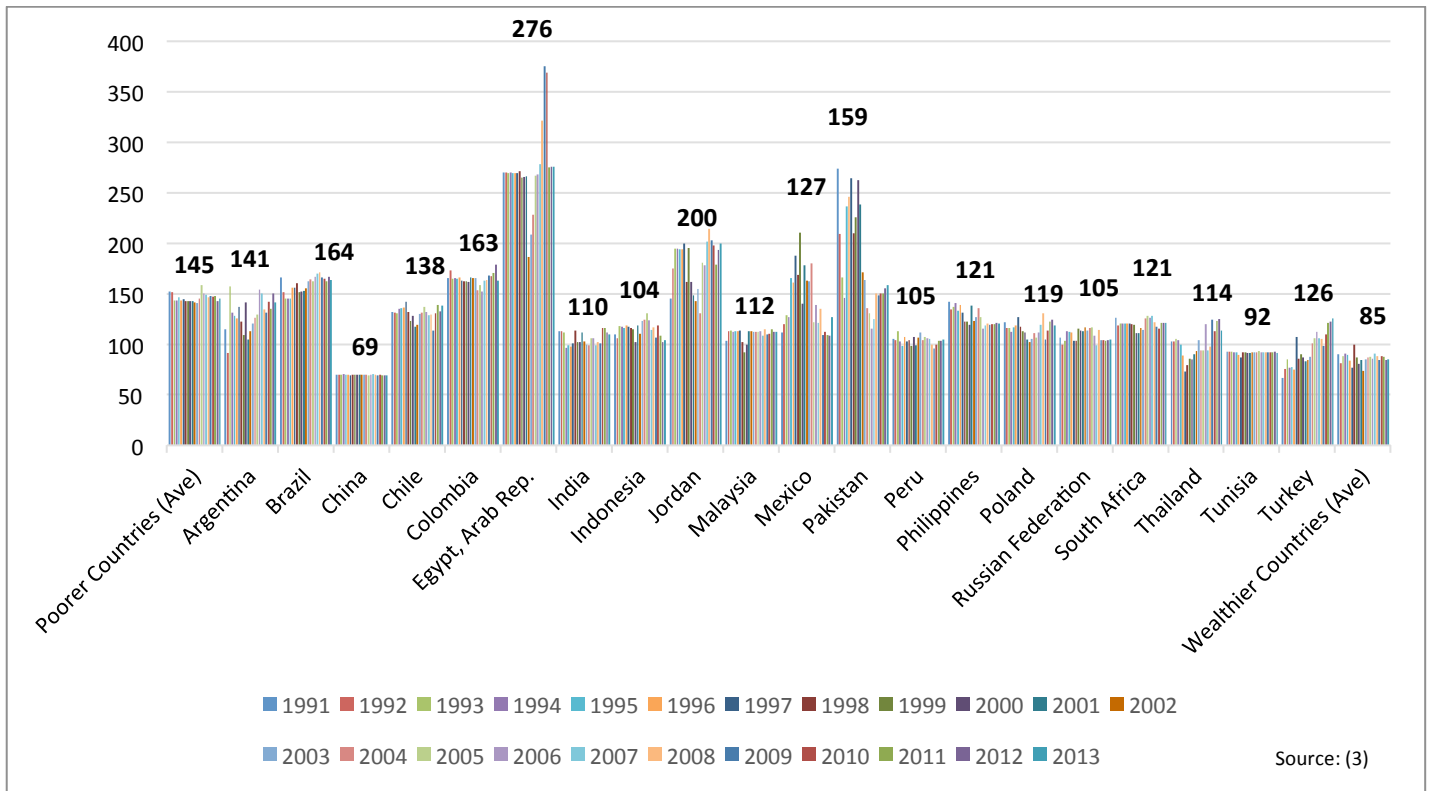


Figure 82: Labour force participation rates for 15-24, total (% of ages 15-24), 1990-2013

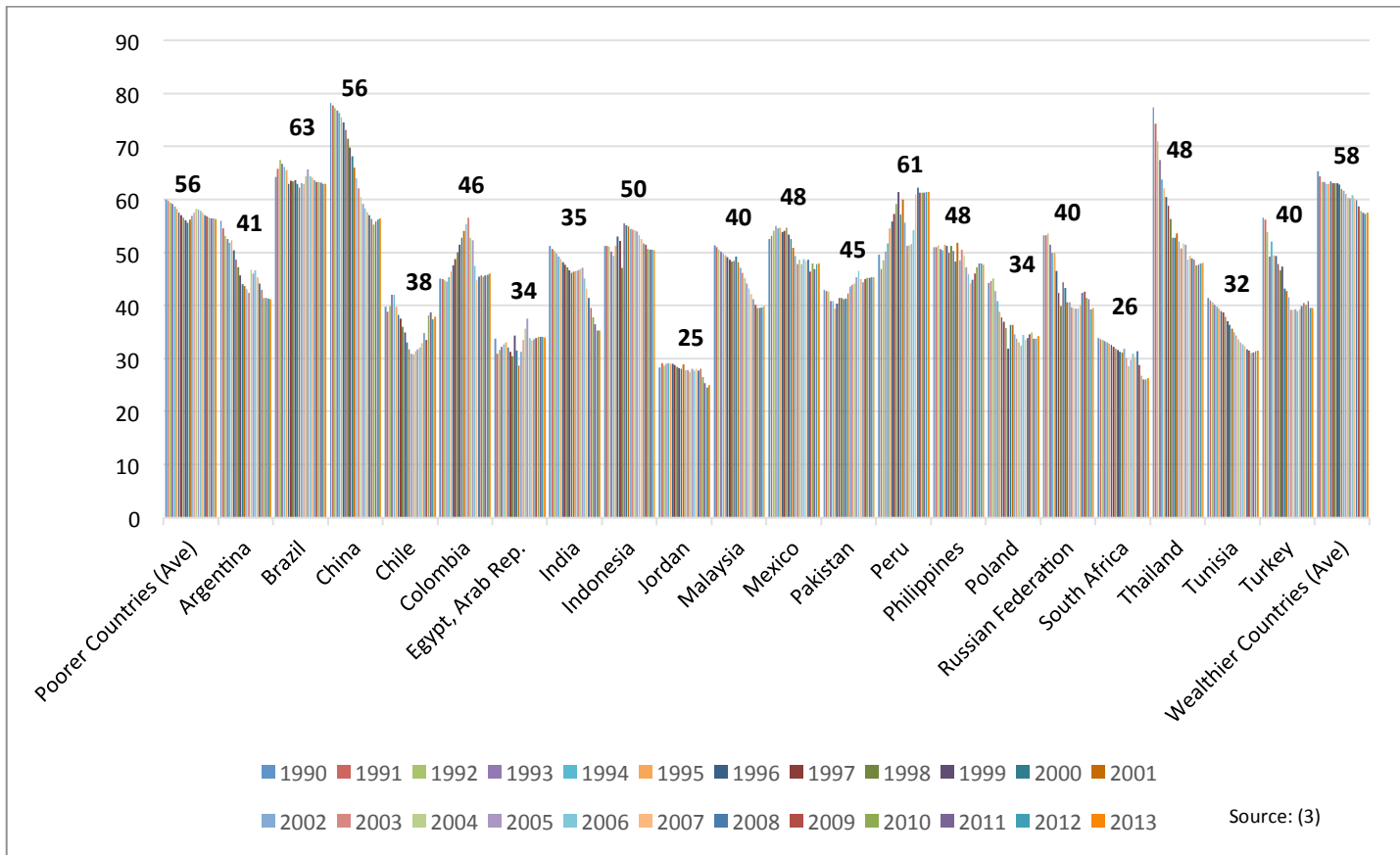


Figure 83: Age dependency ratio, young, 1990-2013

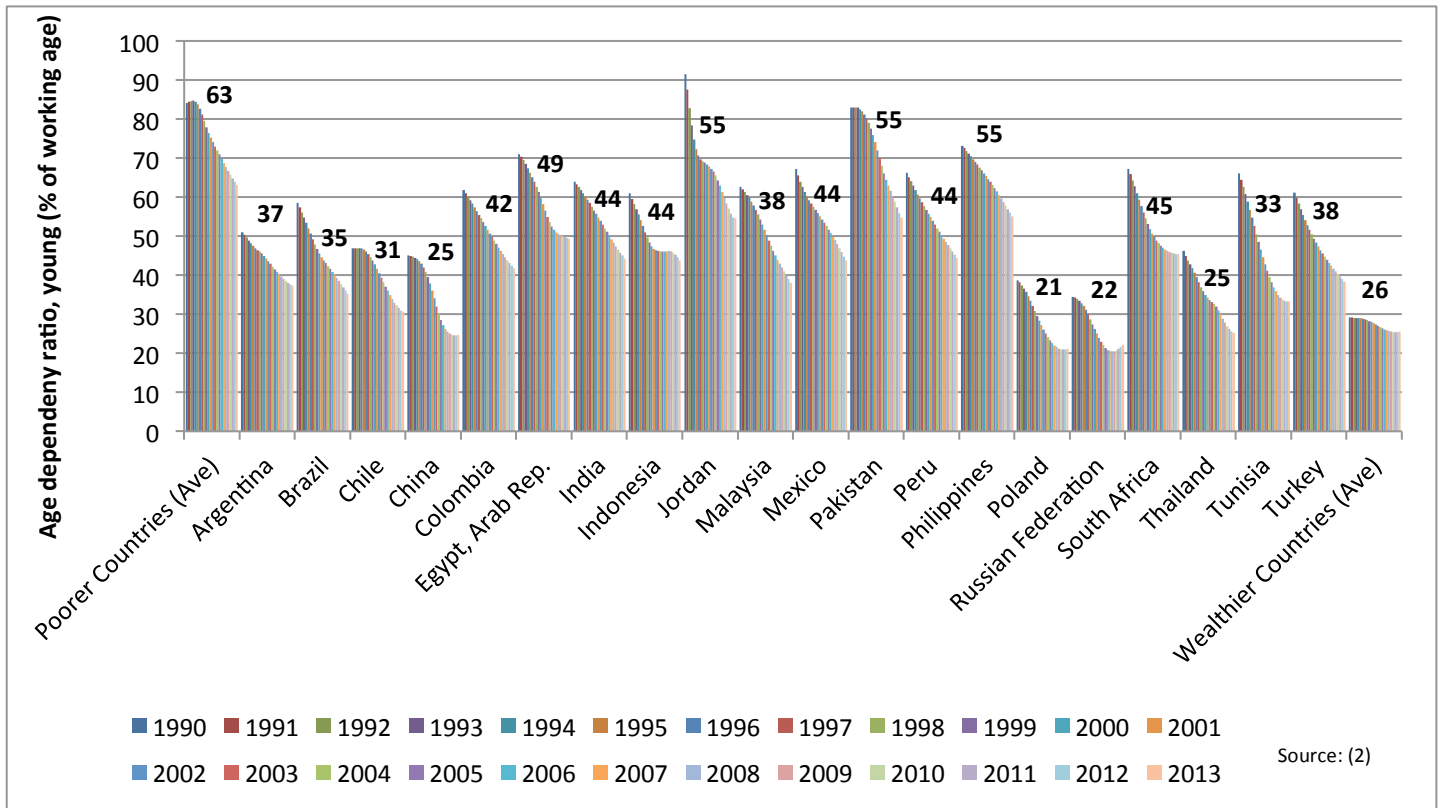


Figure 84: Age dependency ratio, old, 1990-2013

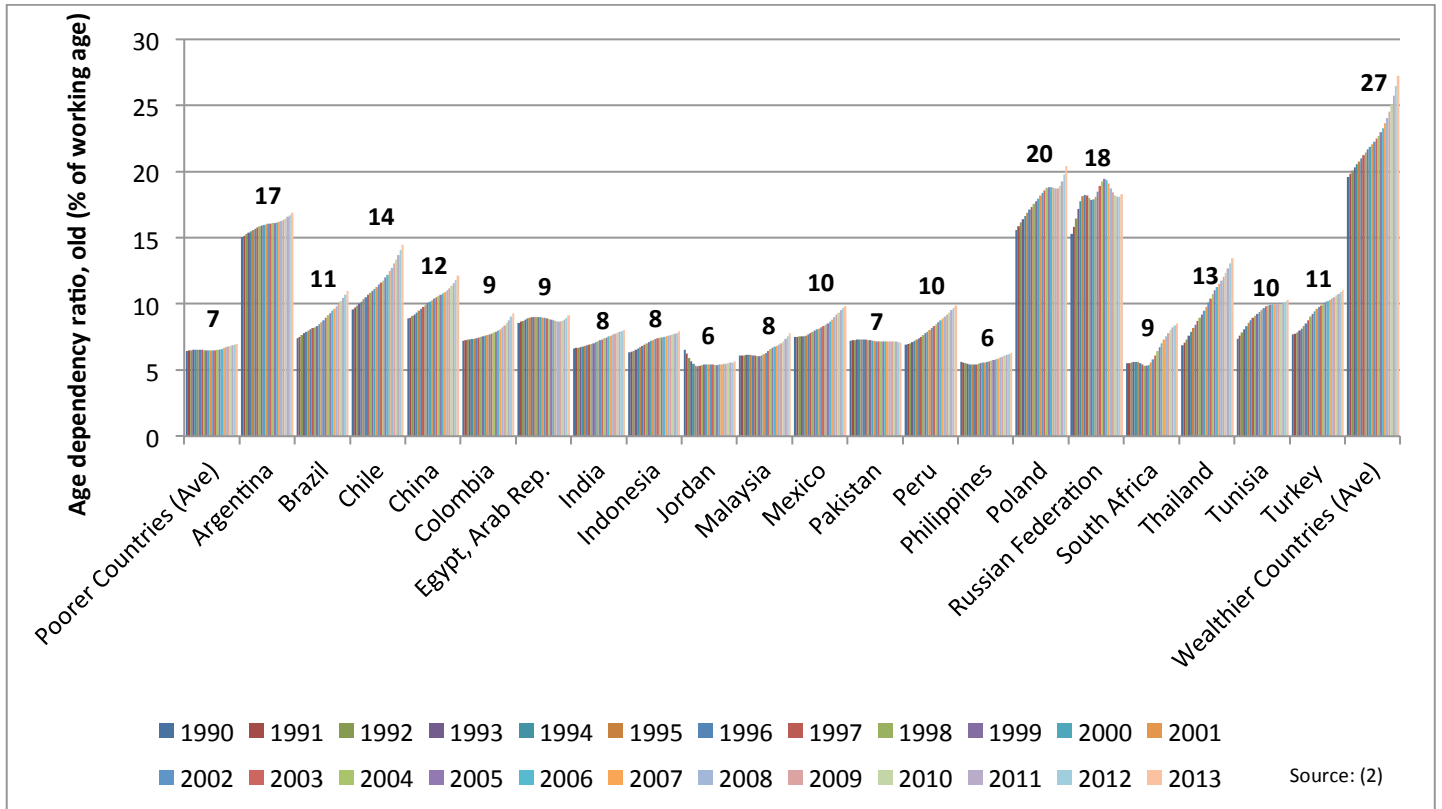
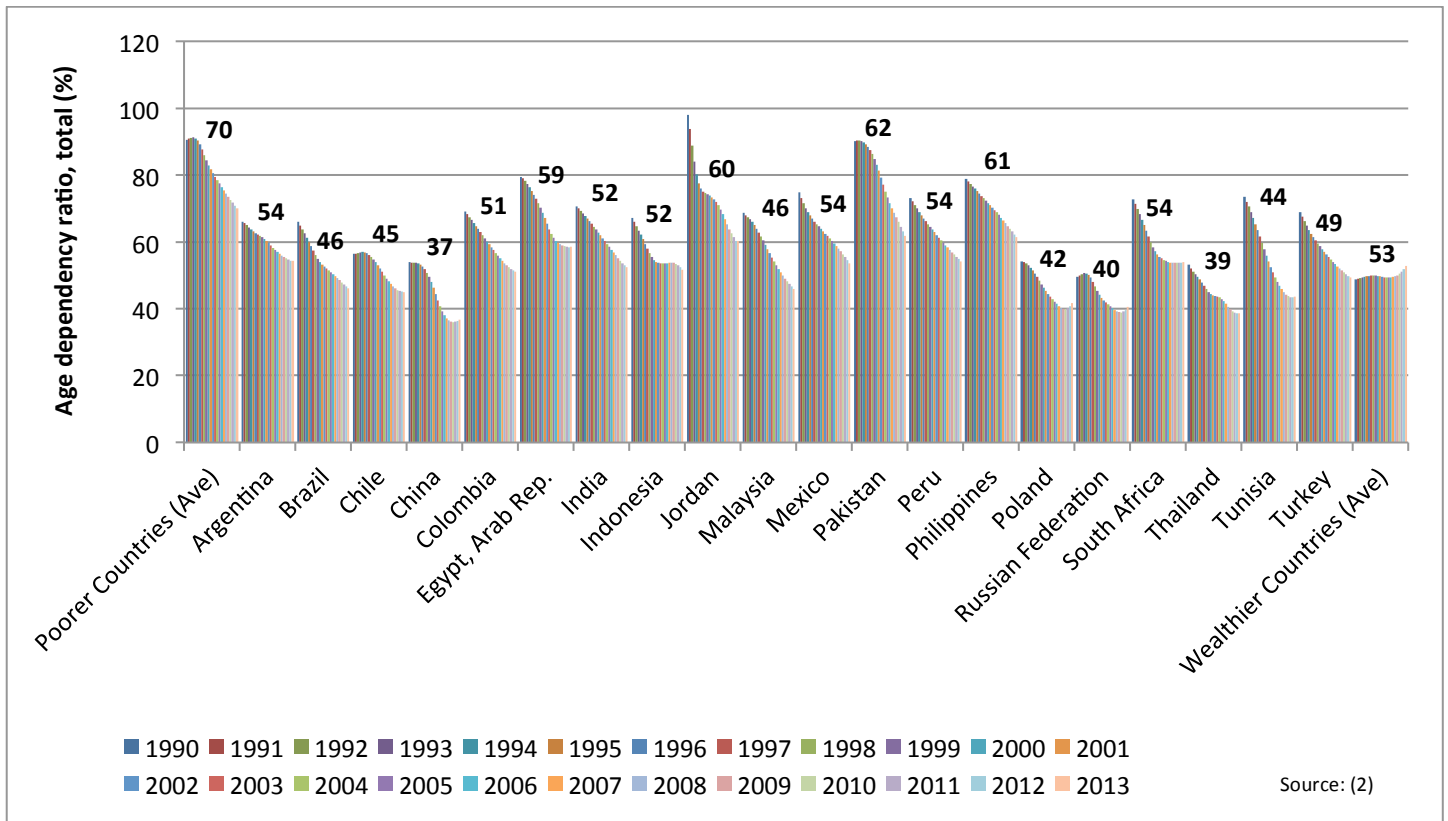


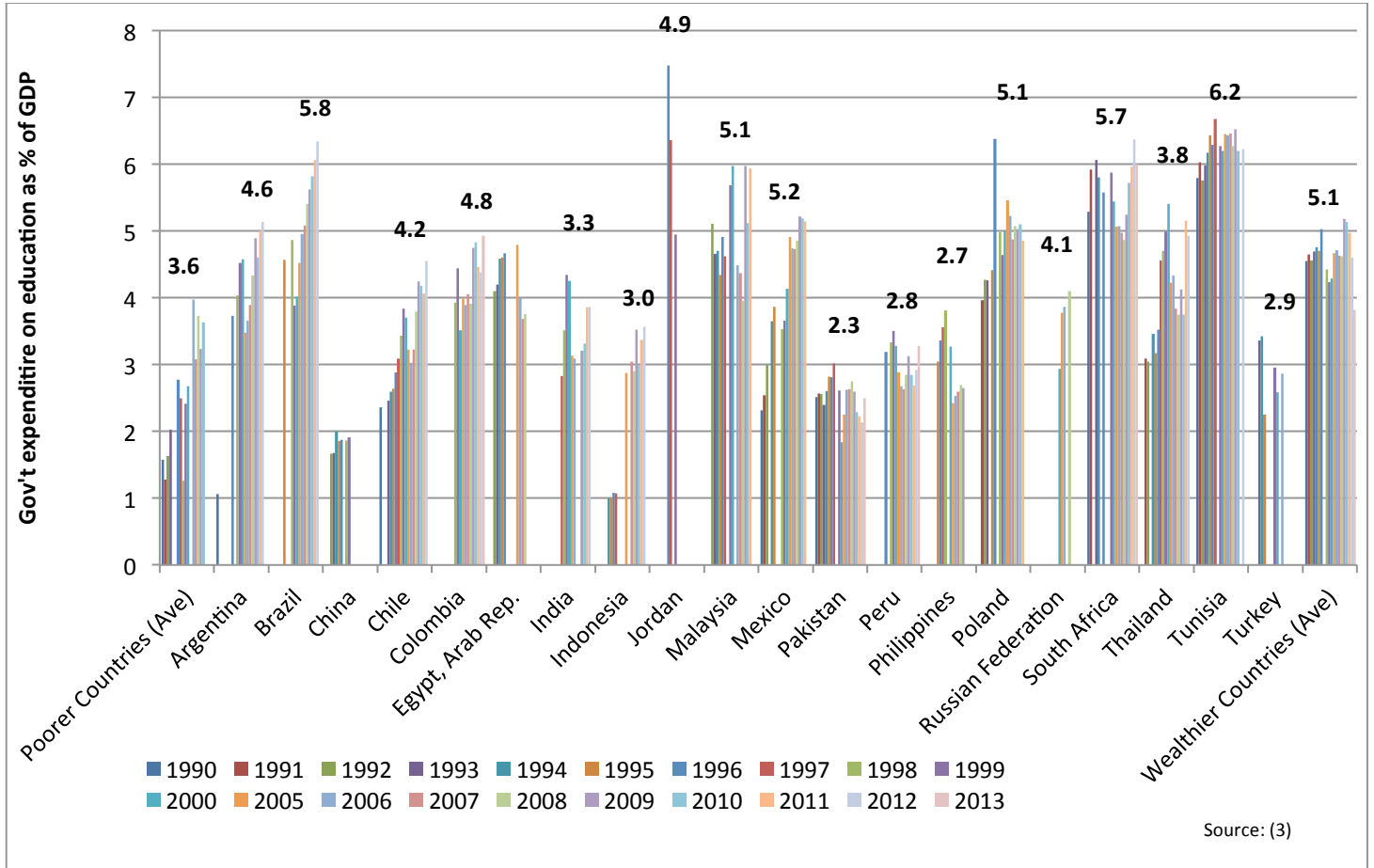
Figure 85: Age dependency ratio, total, 1990-2013



Source: (2)

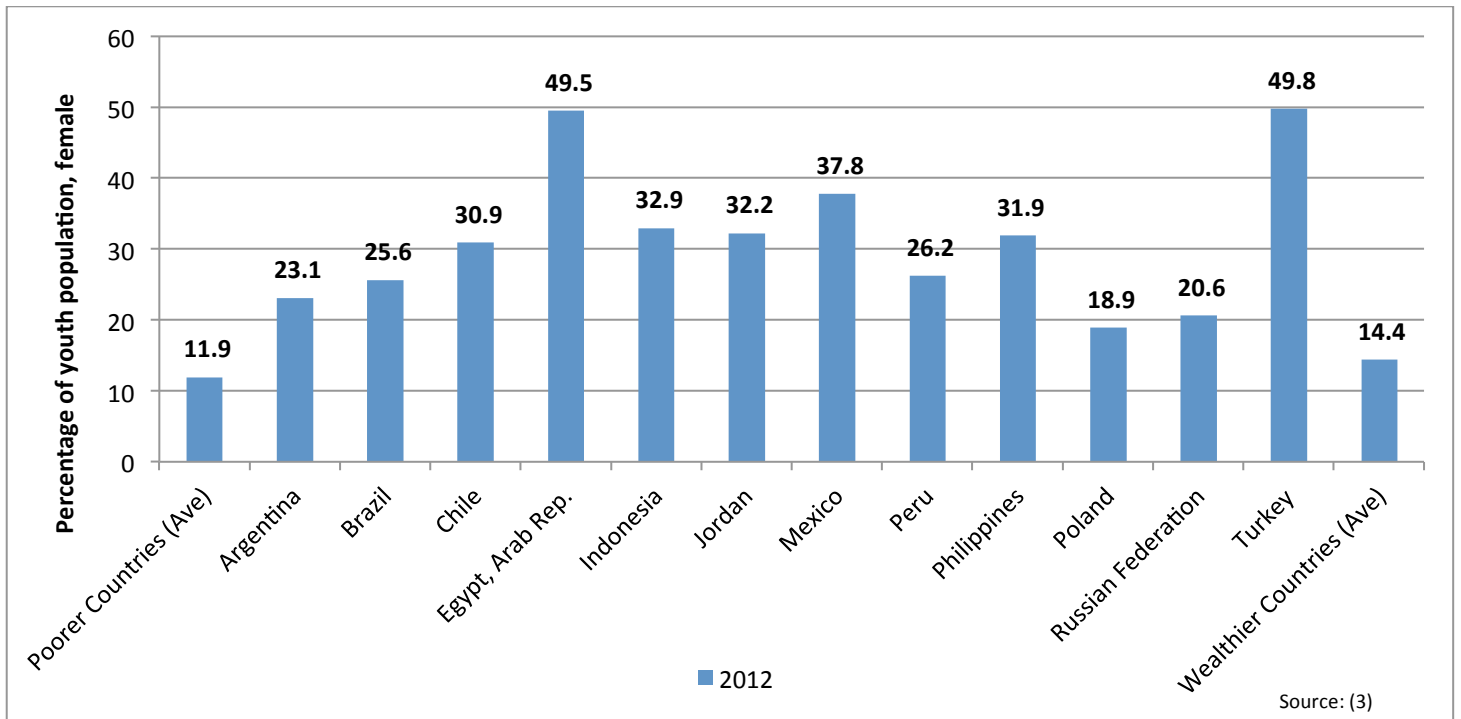
4.3 Education Data

Figure 86: Government expenditure on education as a percentage of GDP, 1990-2013



Source: (3)

Figure 87: Share of youth not in education, employment, or training, female (% of female youth population), 2012



Source: (3)

Figure 88: Share of youth not in education, employment, or training, male (% of male youth population), 2012

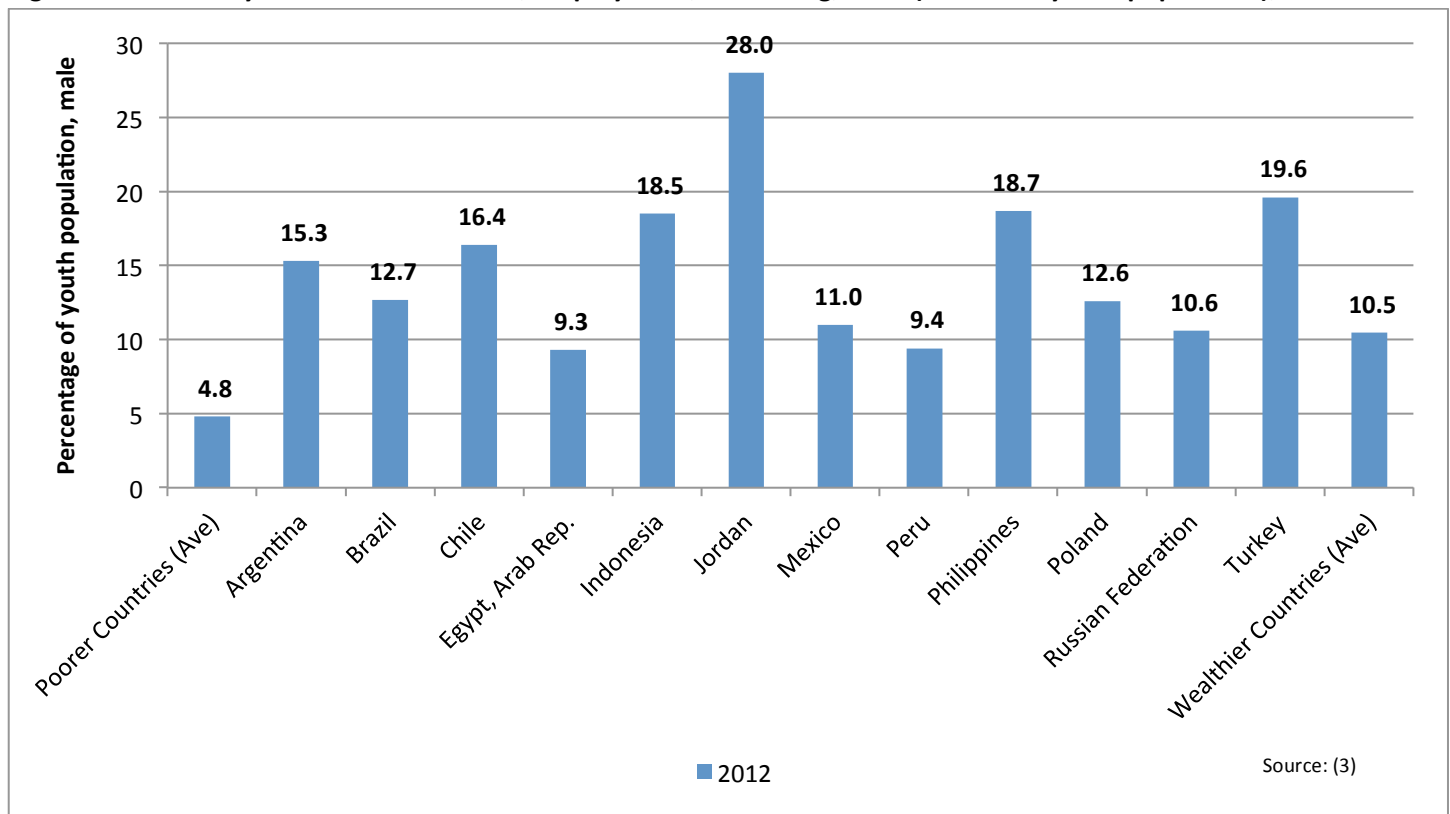


Figure 89: Share of youth not in education, employment, or training, total (% of total youth population), 2012

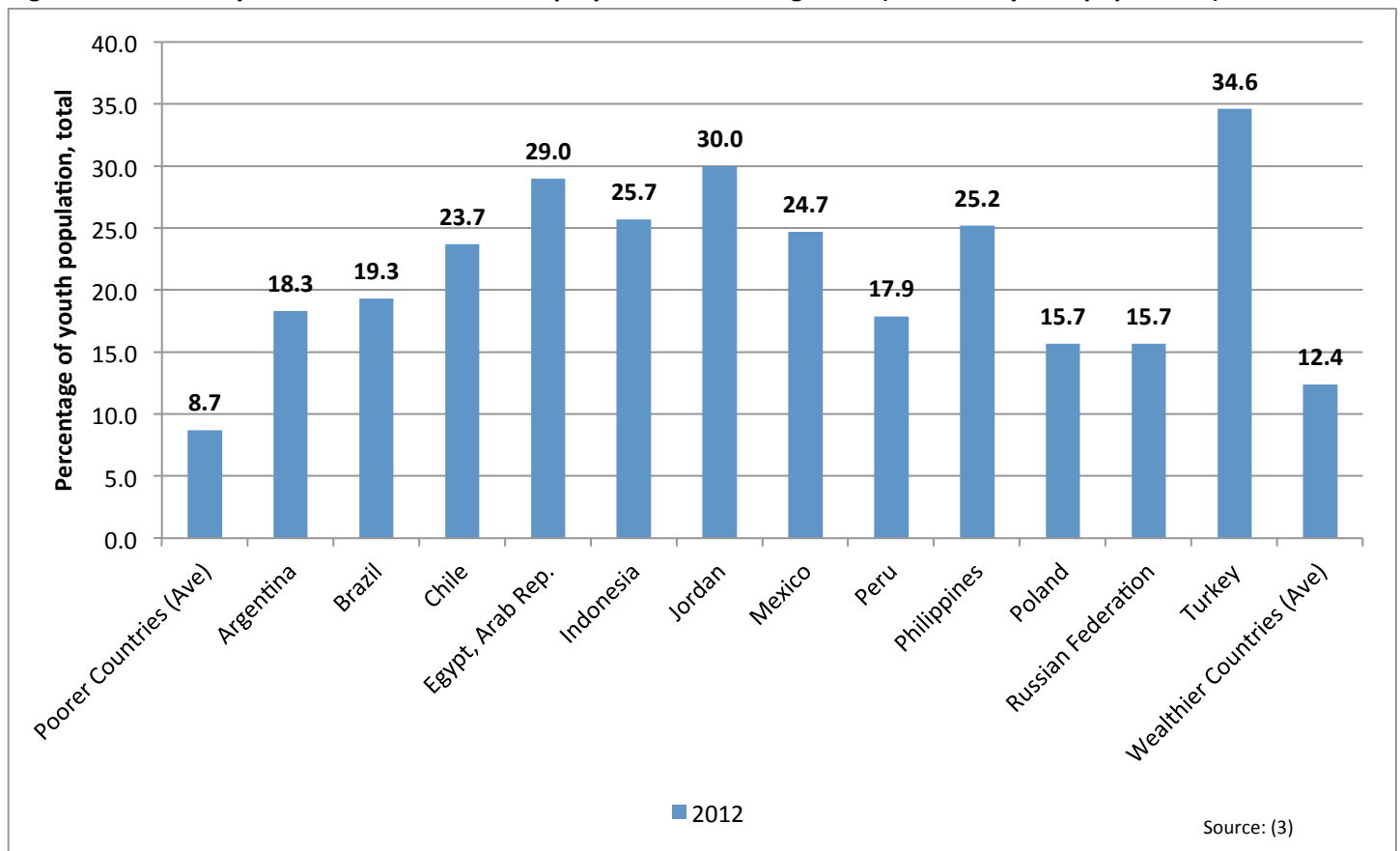


Figure 90: Youth literacy as a percentage of the total youth population, 1990-2013

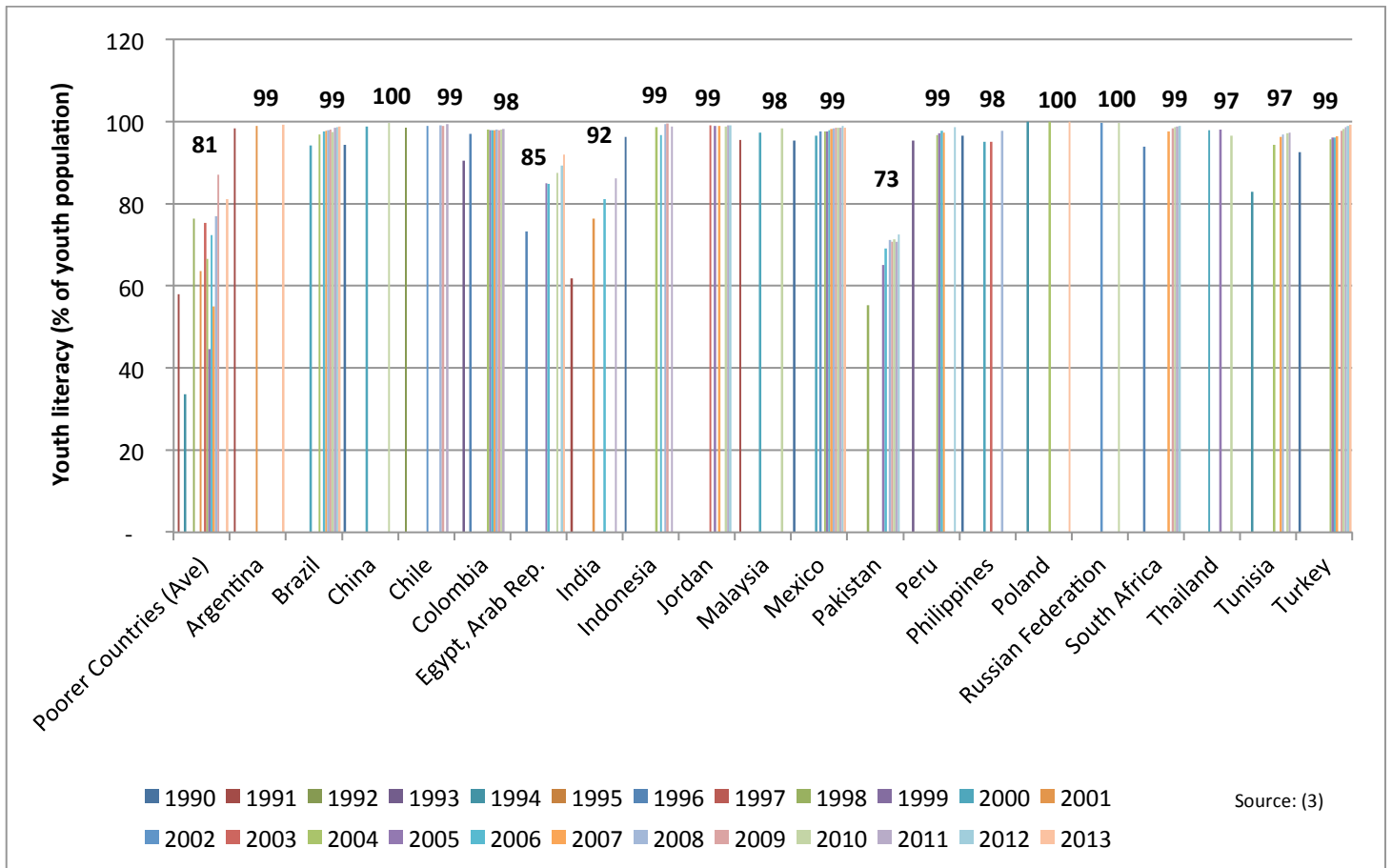


Figure 91: Duration of compulsory education (years), 1999-2014

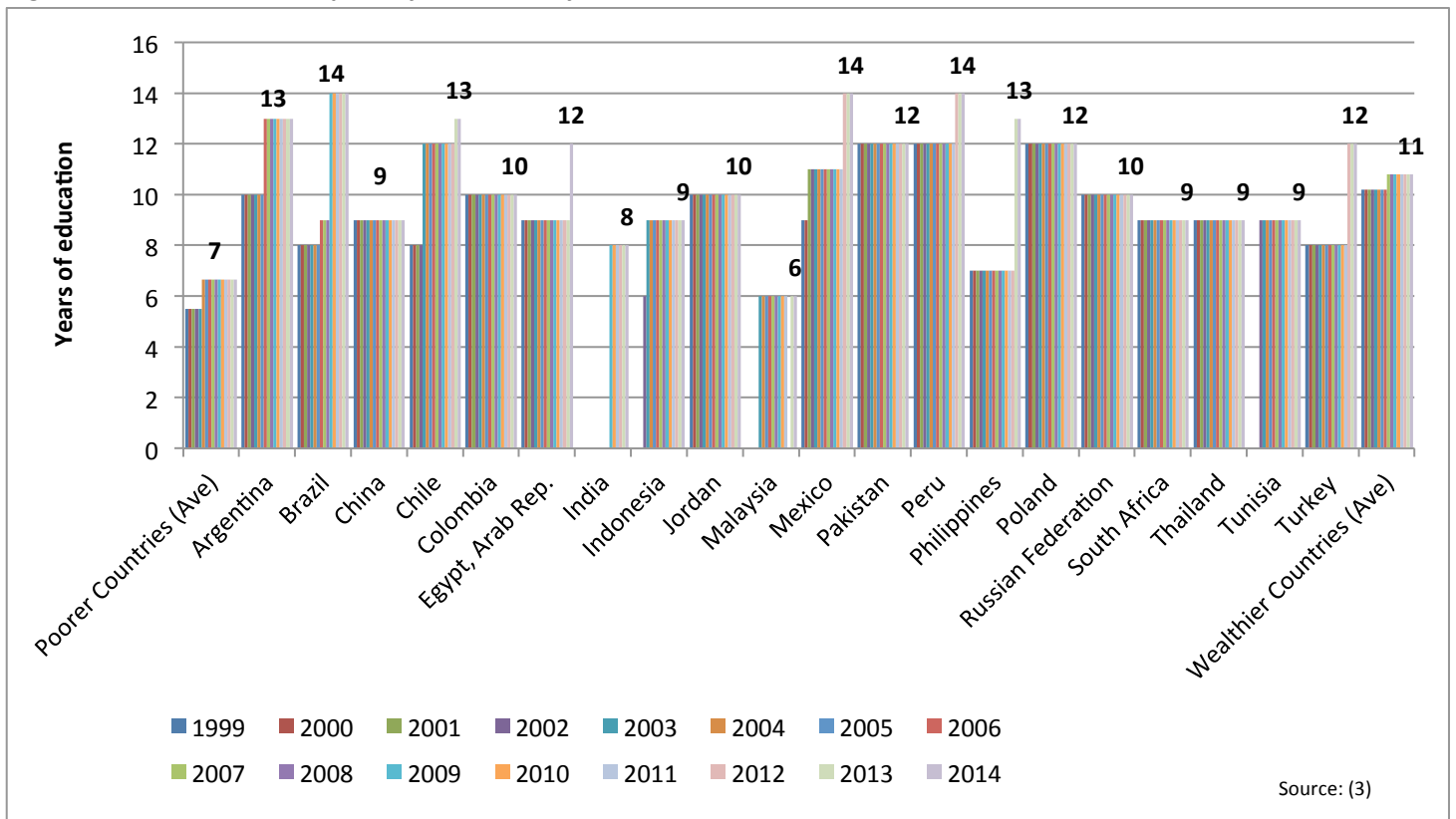


Figure 92: Percentage of graduates from tertiary education graduating from Agriculture programmes, 1999-2013

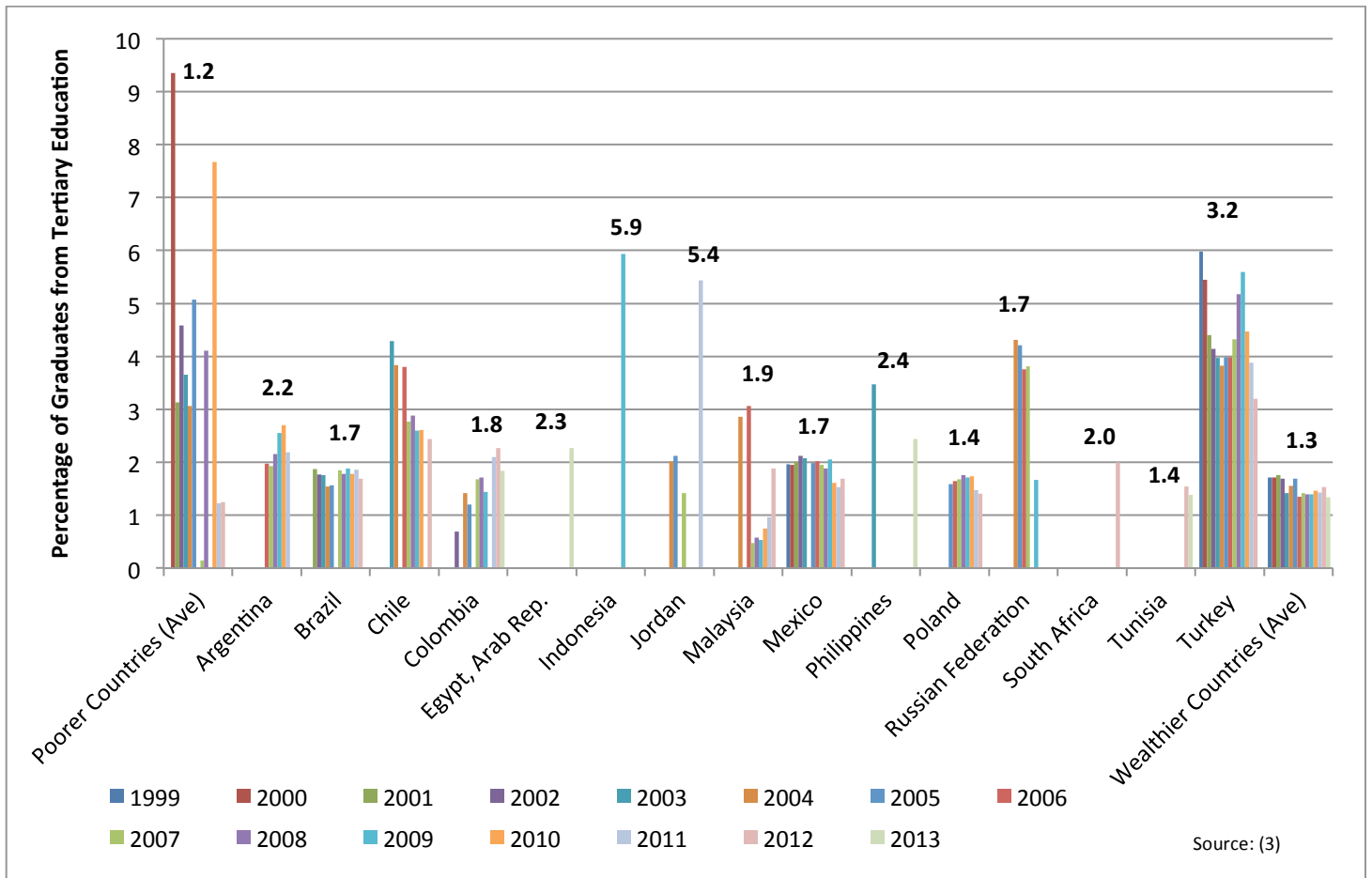


Figure 93: Percentage of graduates from tertiary education graduating from Education programmes, 1999-2013

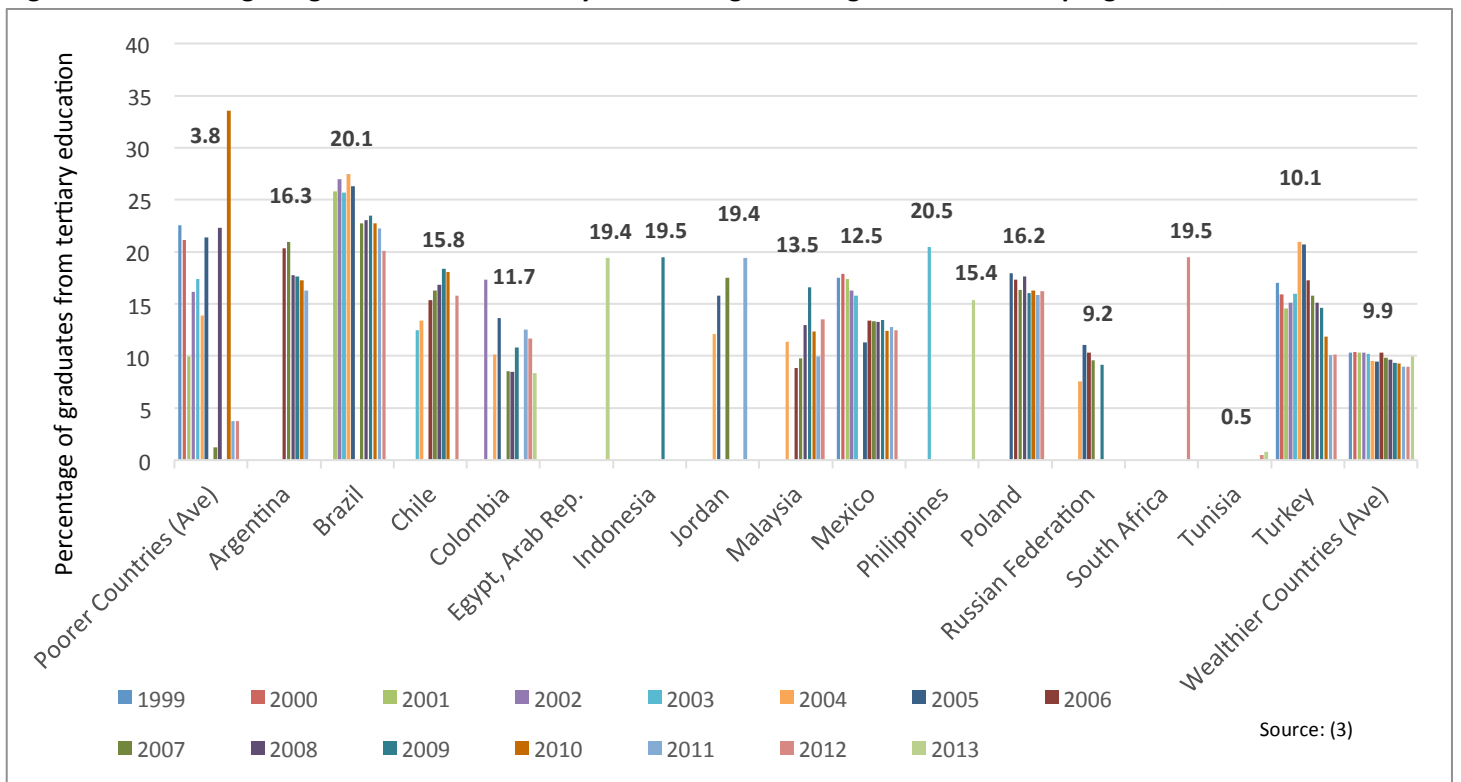


Figure 94: Percentage of graduates from tertiary education graduating from Engineering, Manufacturing and Construction programmes, 1999-2013

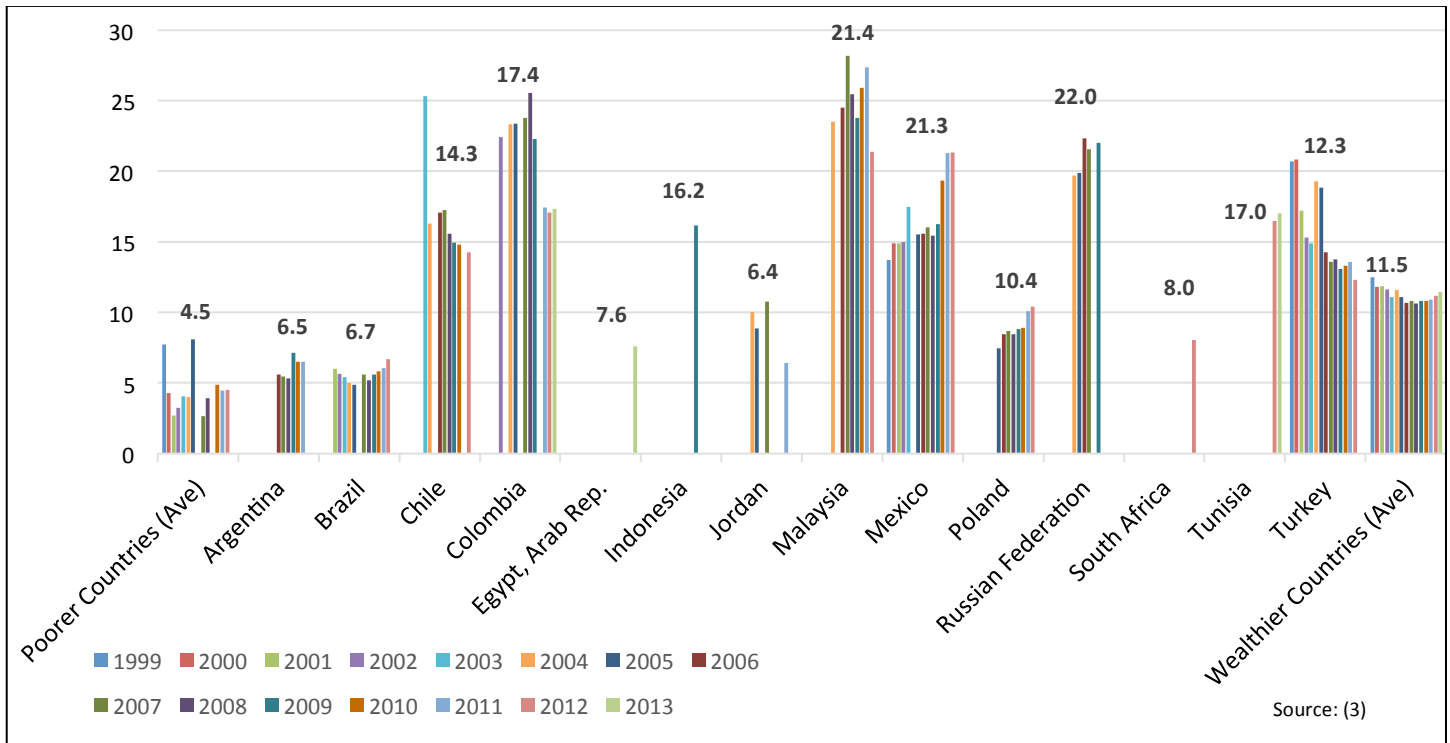


Figure 95: Percentage of graduates from tertiary education graduating from Health and Welfare programmes, 1999-2013

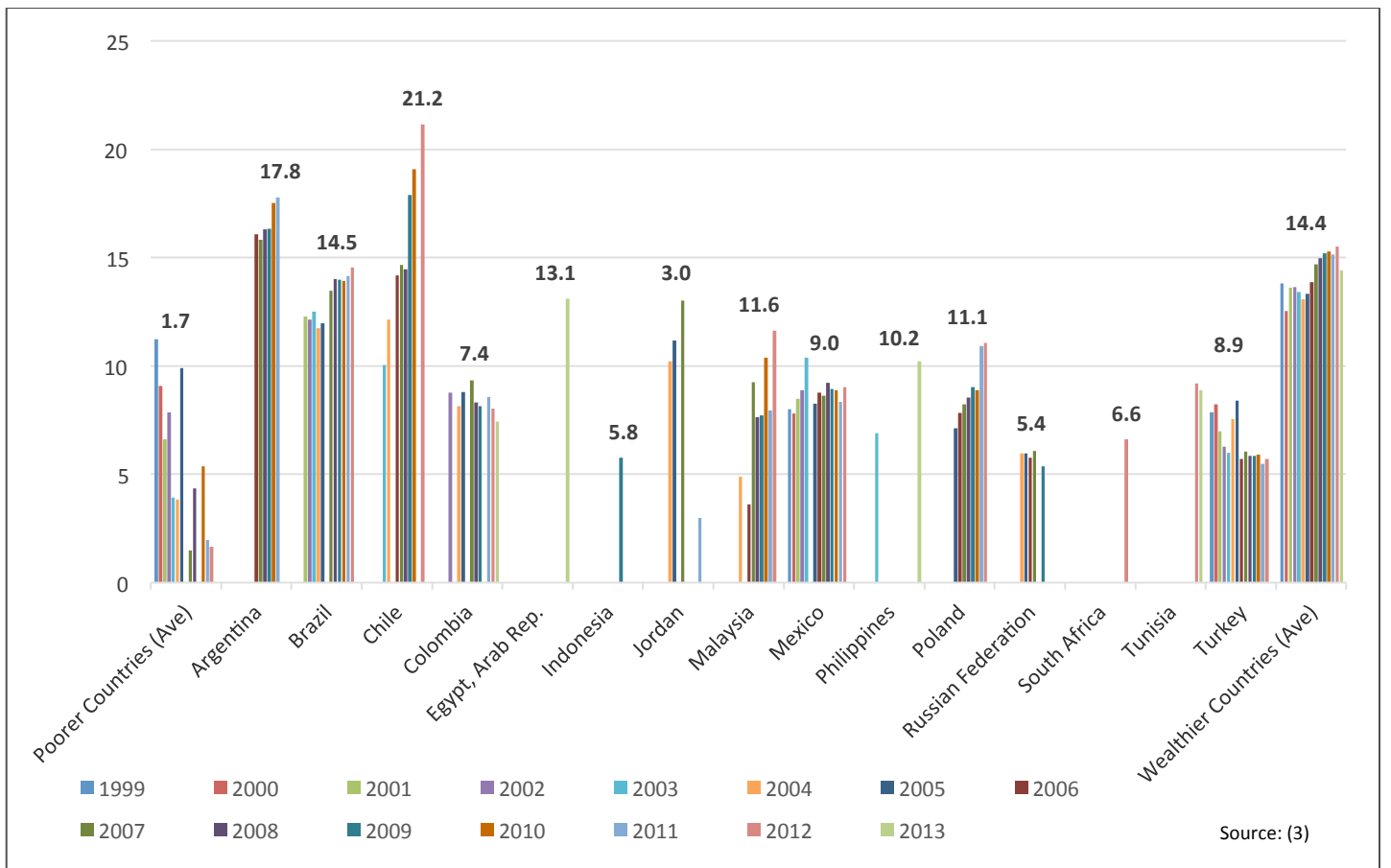


Figure 96: Percentage of graduates from tertiary education graduating from Humanities and Arts programmes, 1999-2013

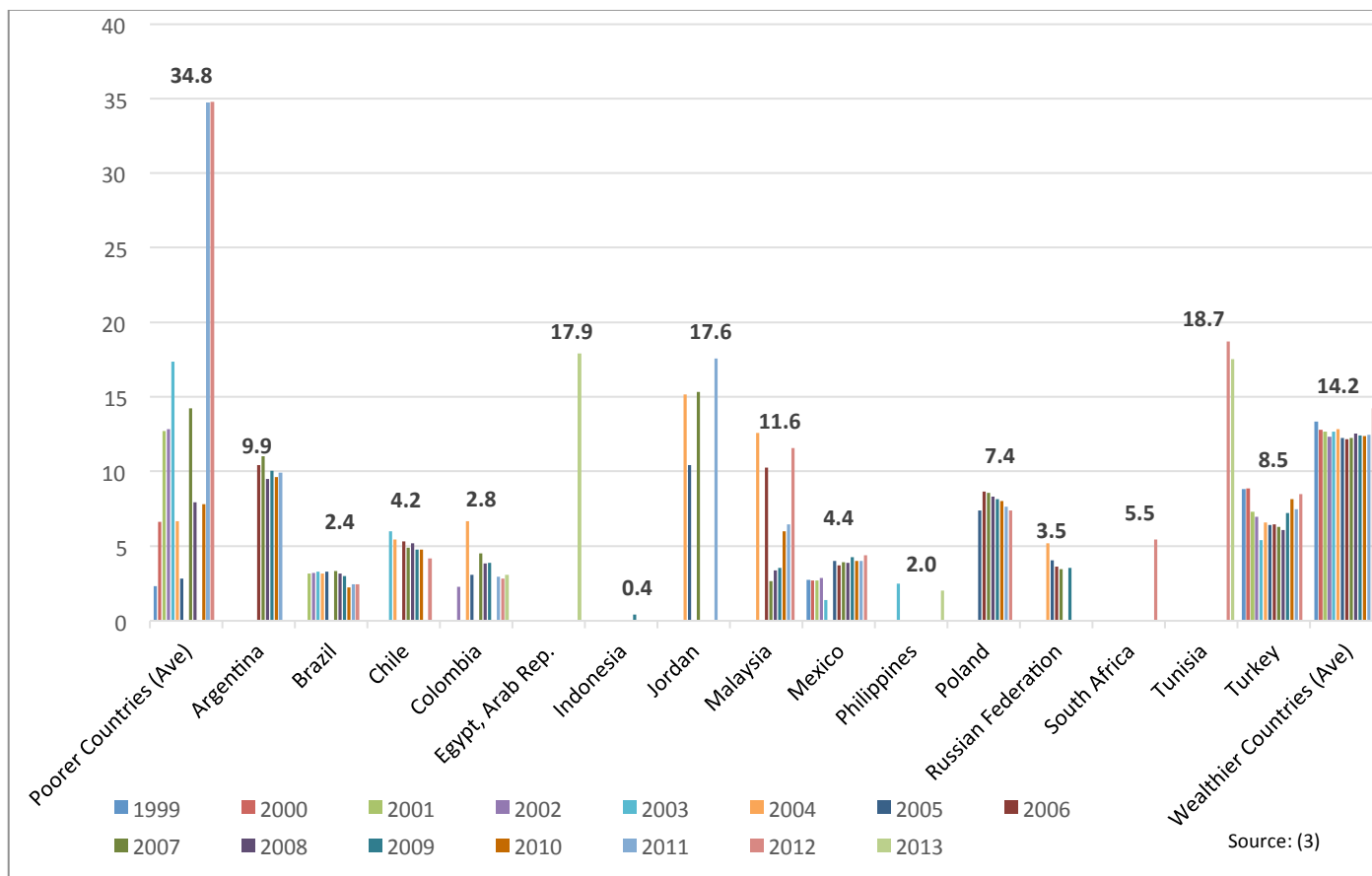


Figure 97: Percentage of graduates from tertiary education graduating from Science programmes, 1999-2013

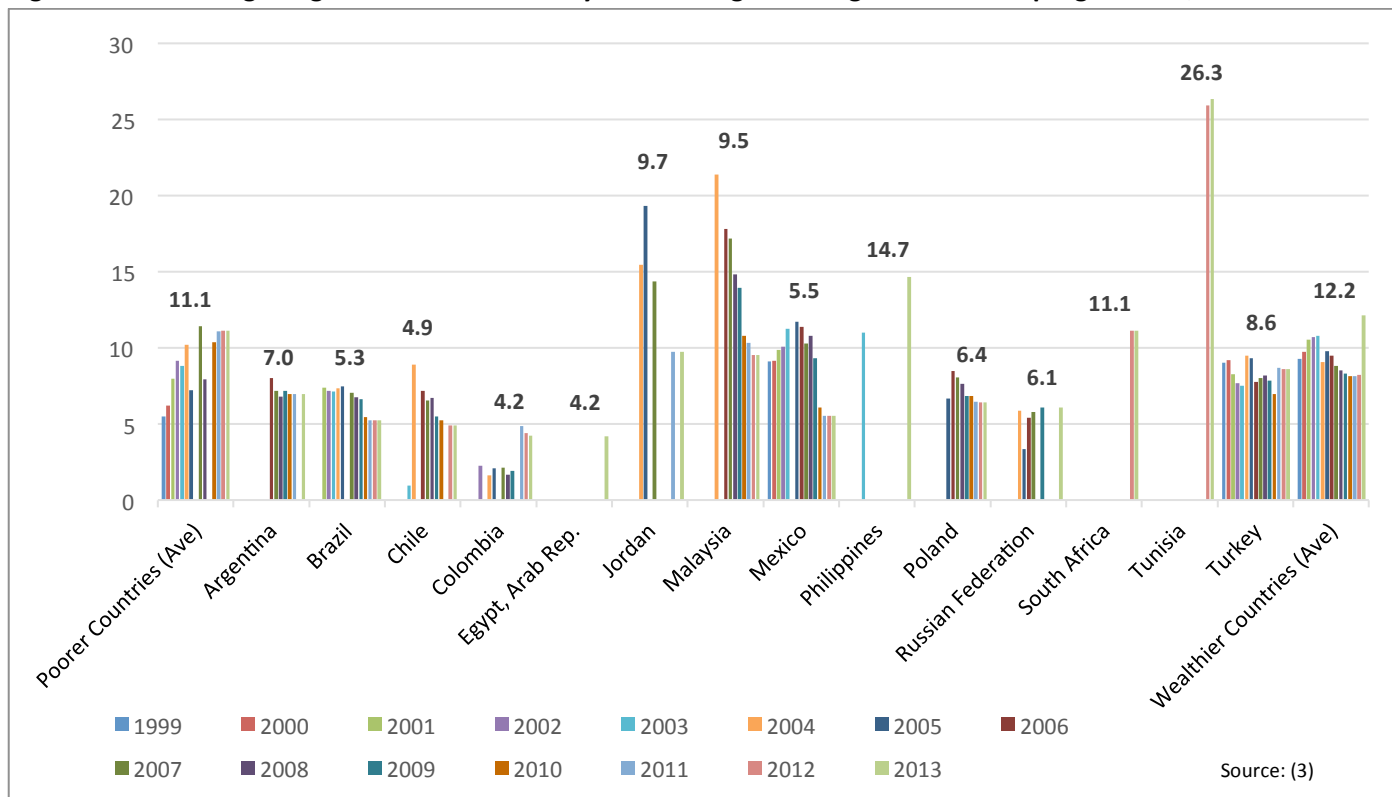


Figure 98: Percentage of graduates from tertiary education graduating from Services programmes, 1999-2013

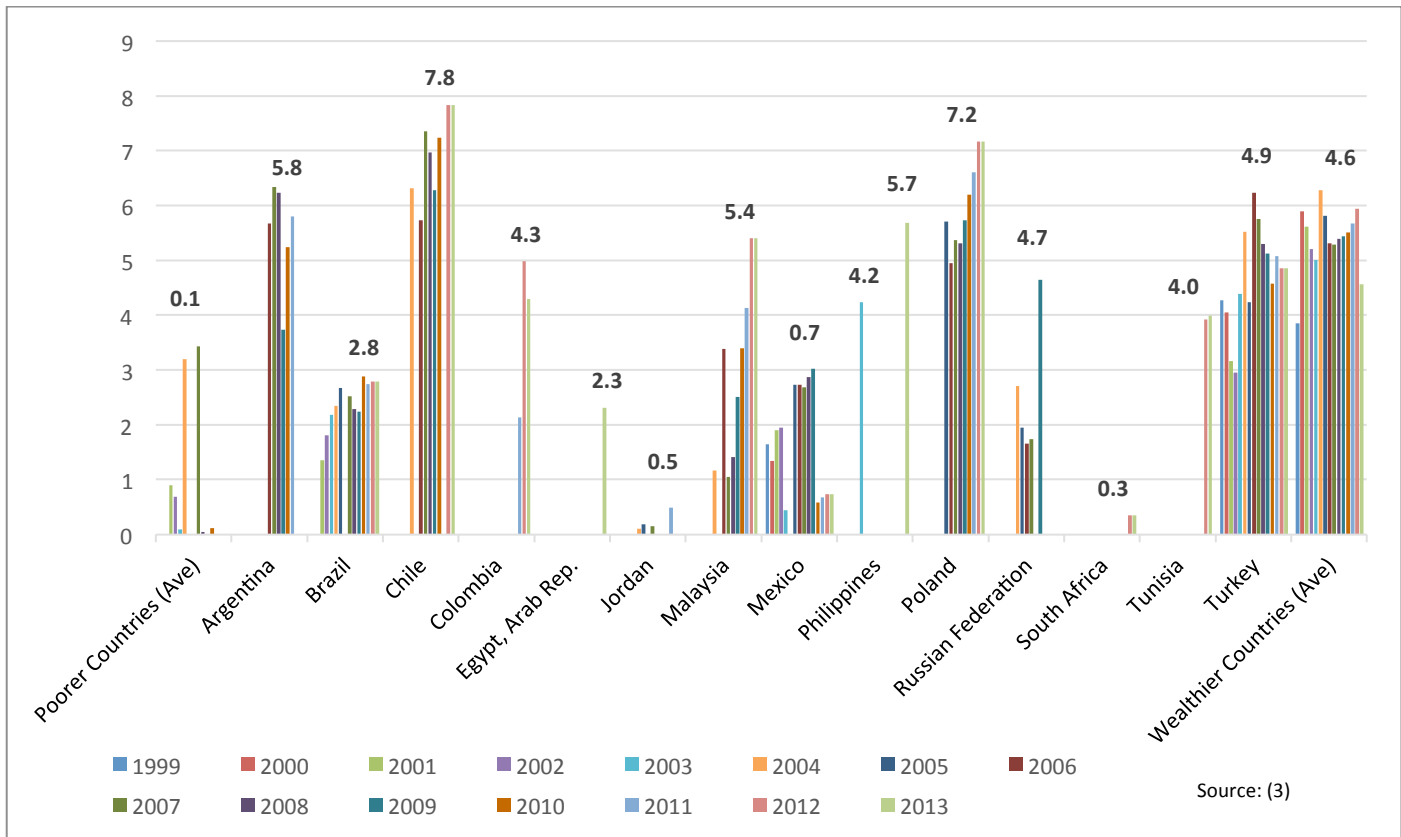


Figure 99: Percentage of graduates from tertiary education graduating from Social Science, Business and Law programmes, 1999-2013

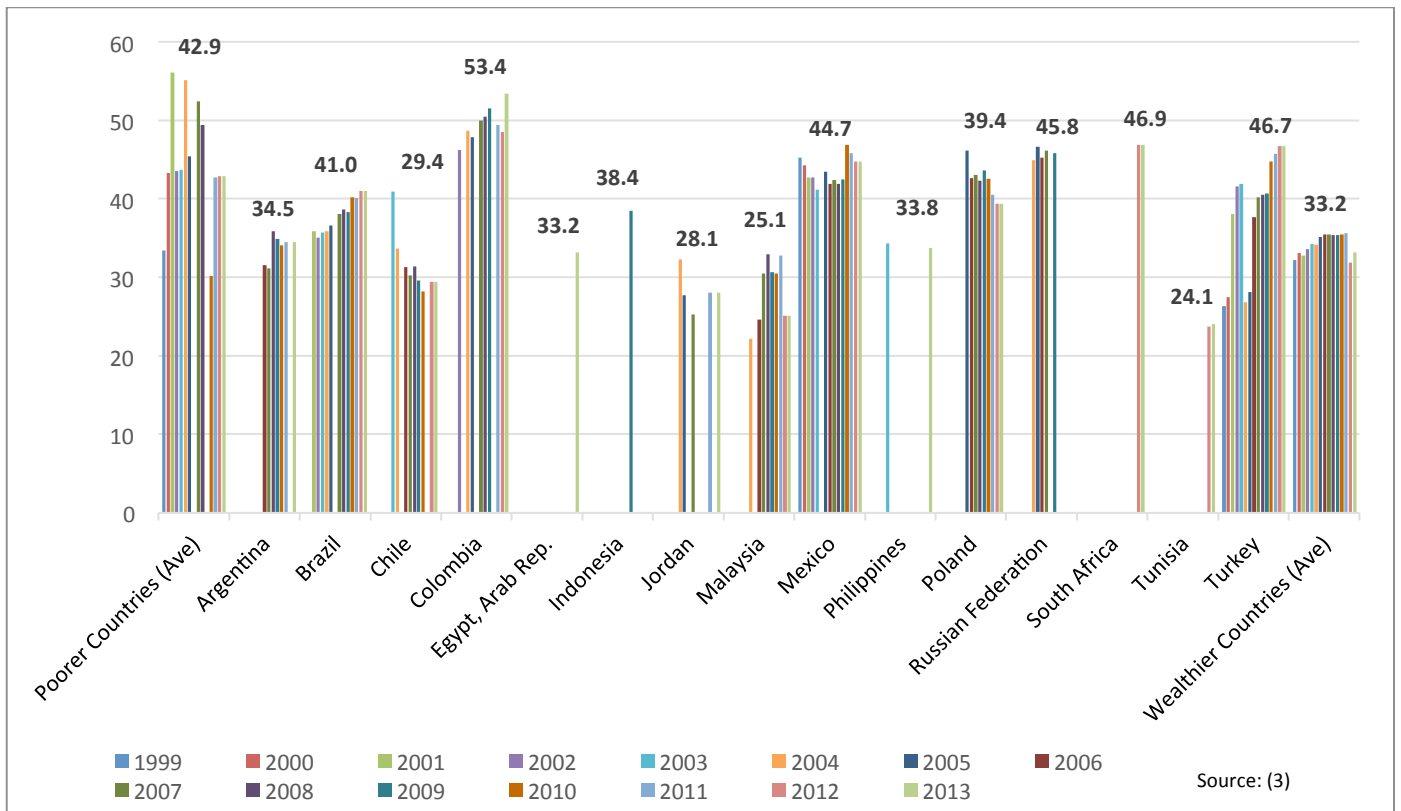


Figure 100: Percentage of graduates from tertiary education who are female, 1990-2013

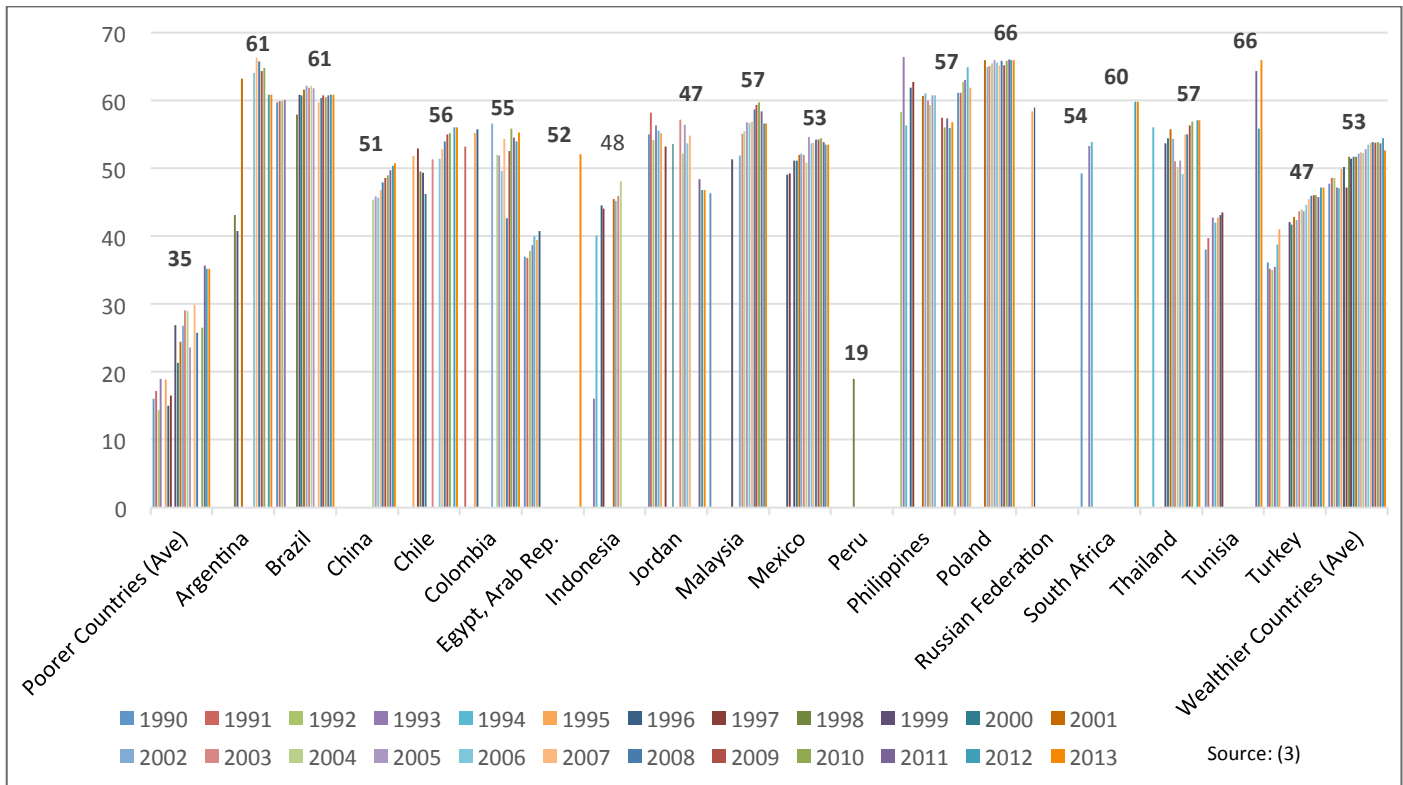


Figure 101: Percentage of graduates from tertiary education who are male, 1990-2013

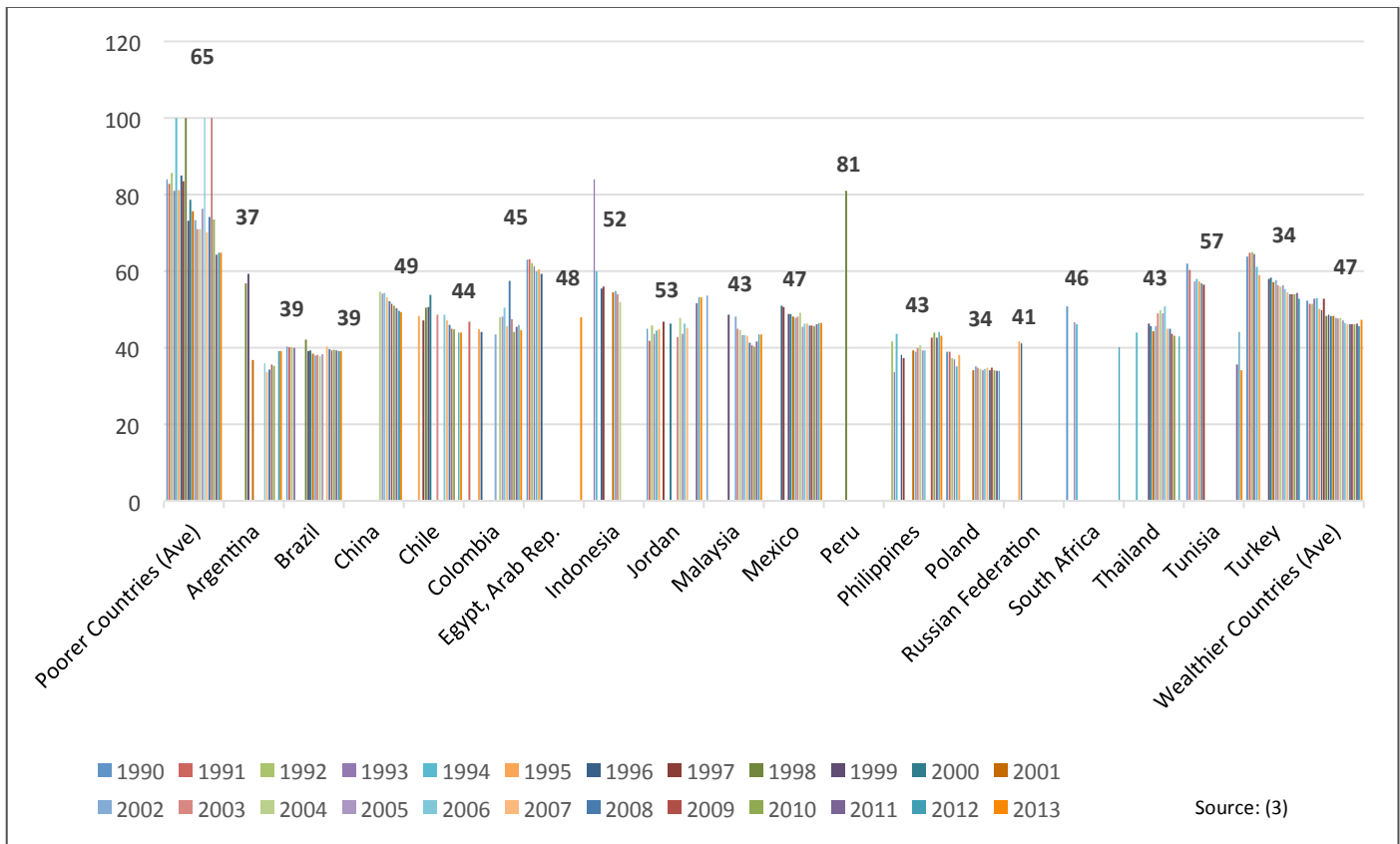


Figure 102: Adjusted net enrolment rate, primary, both sexes (%), 1990-2013

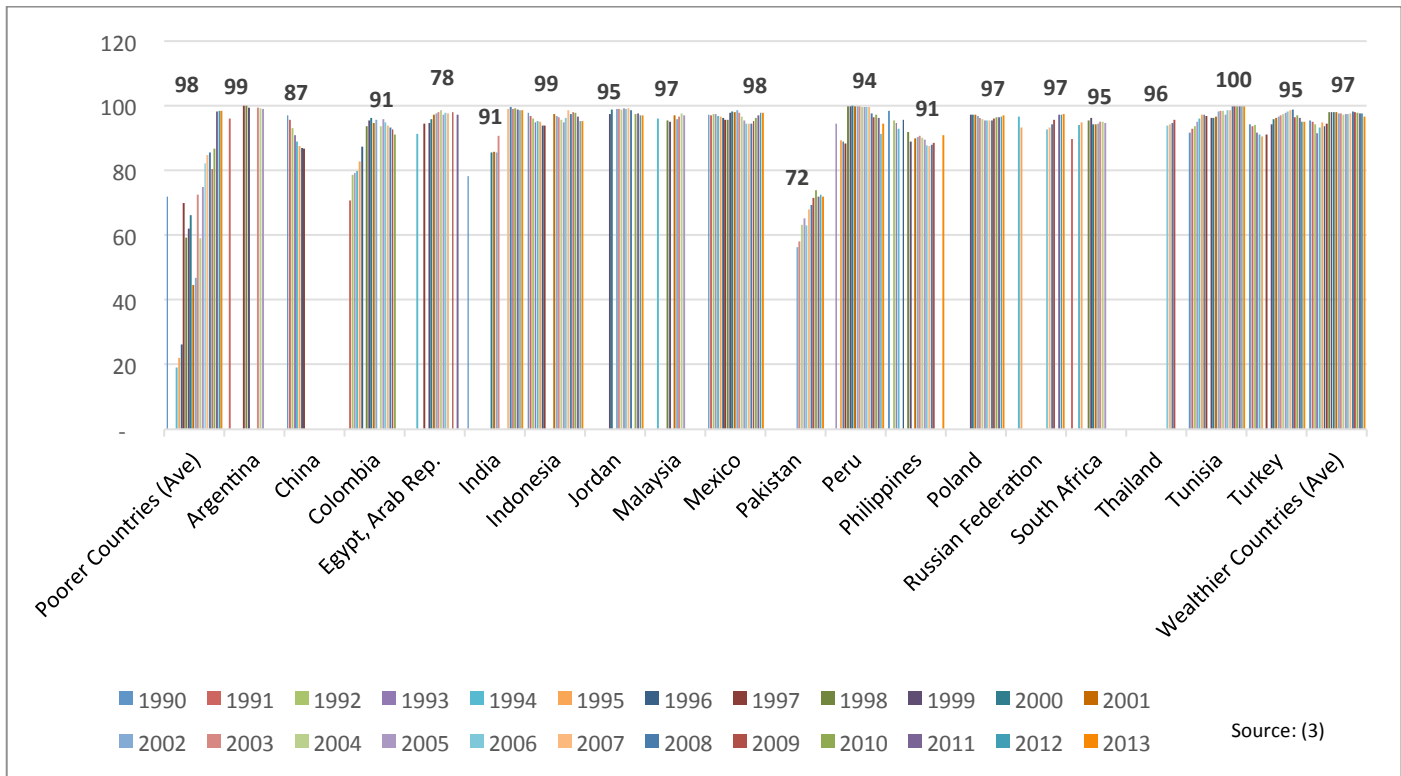


Figure 103: Adjusted net enrolment rate, lower secondary, both sexes (%), 1990-2013

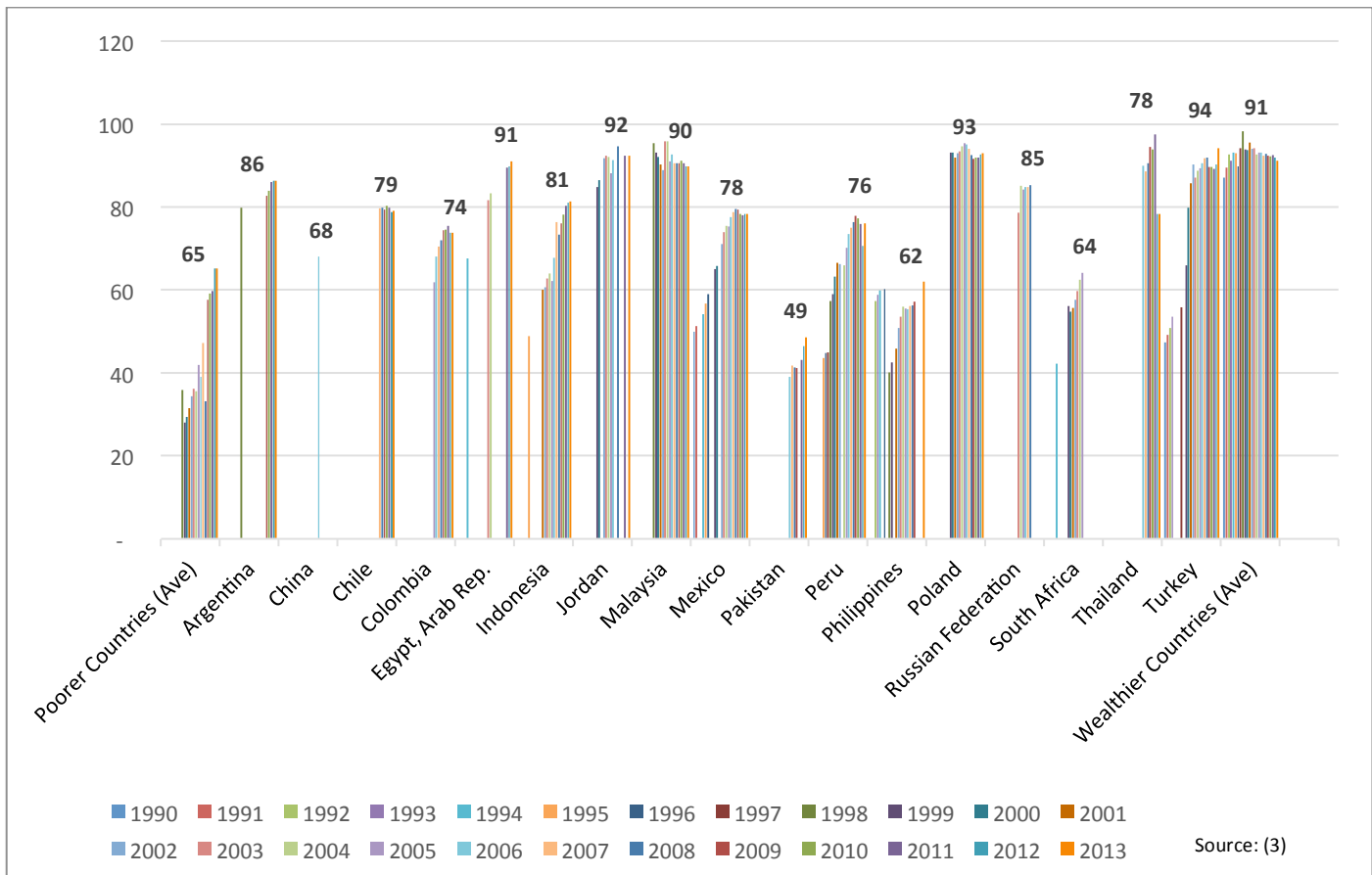


Figure 104: Adjusted net enrolment rate, upper secondary, both sexes (%), 1990-2013

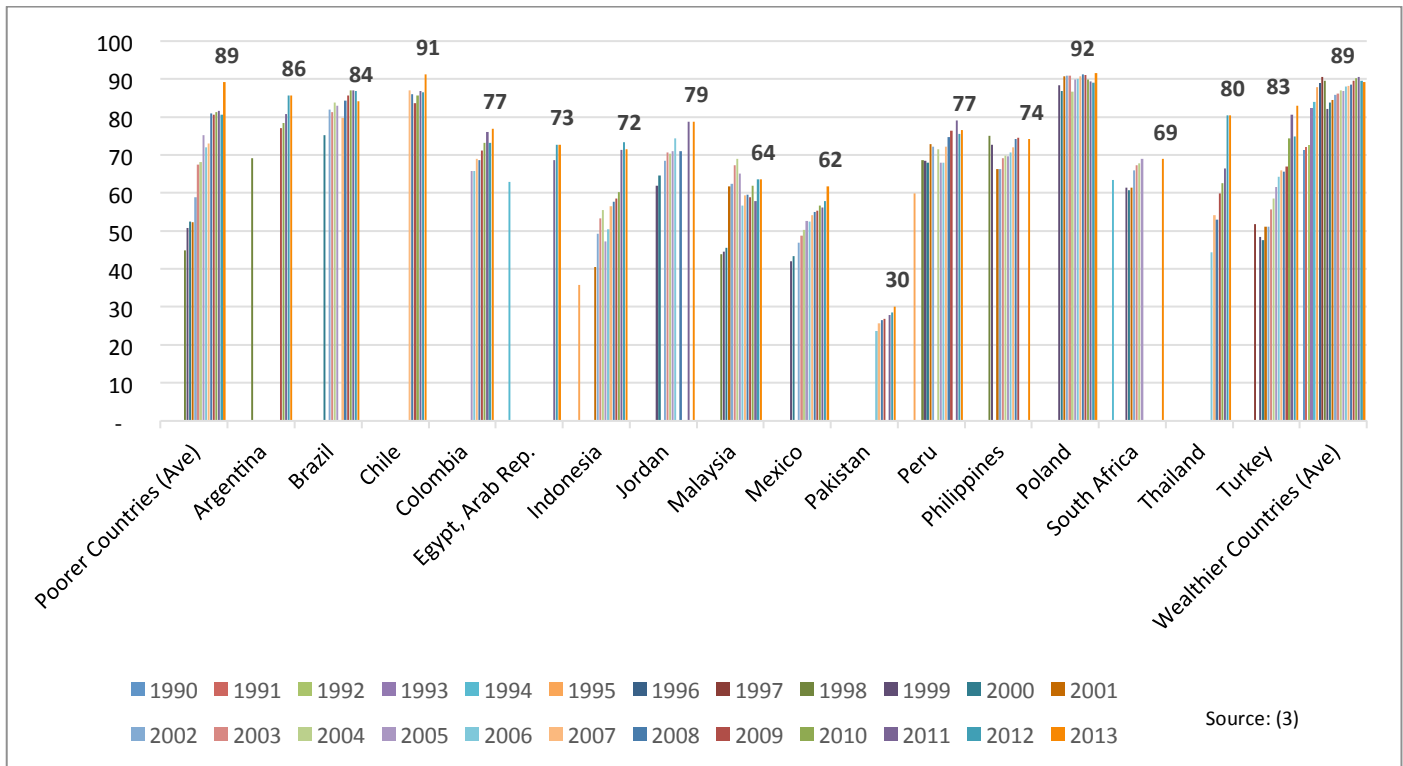


Figure 105: Adjusted net enrolment rate, tertiary, both sexes (%), 1990-2013

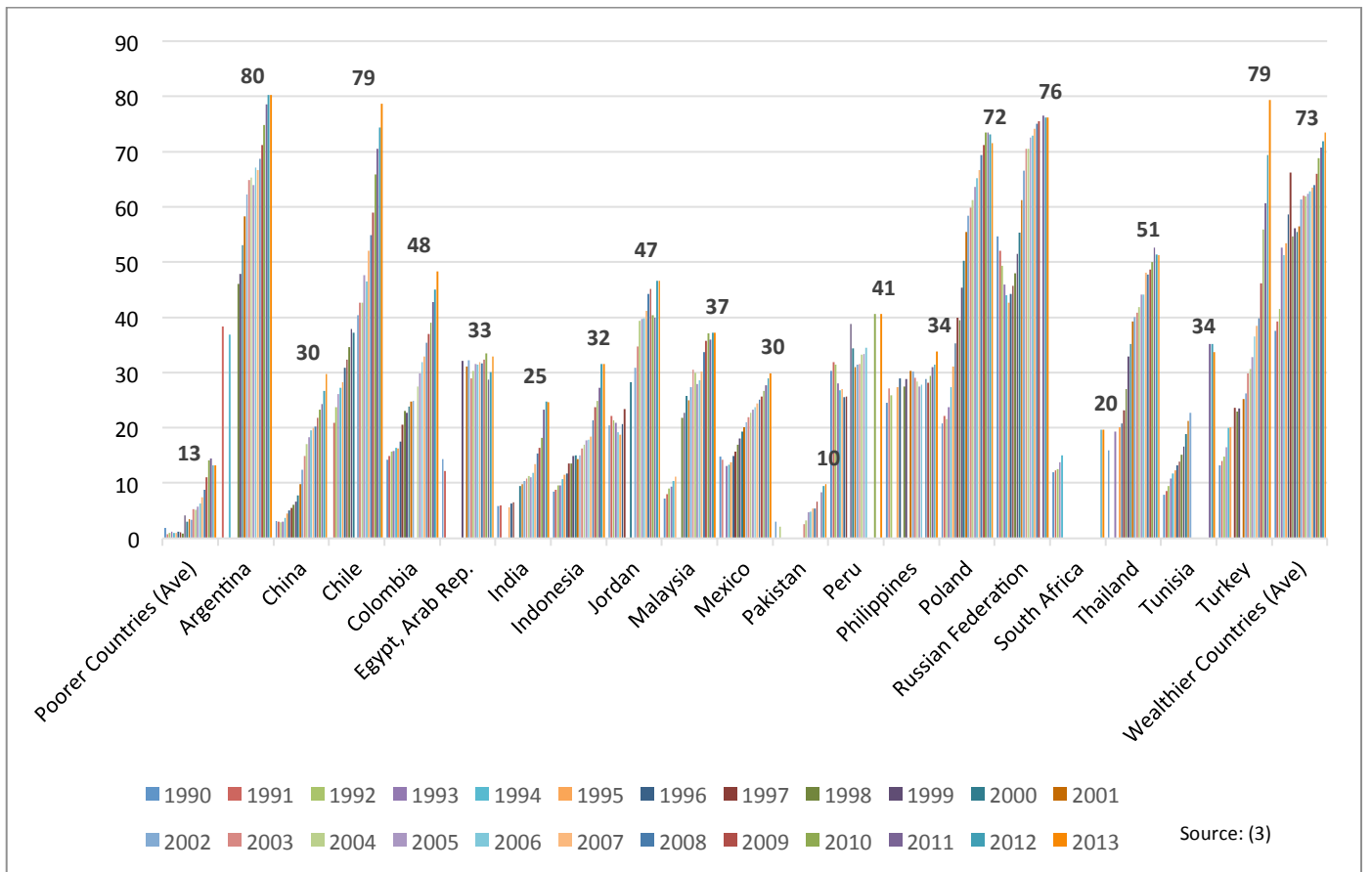
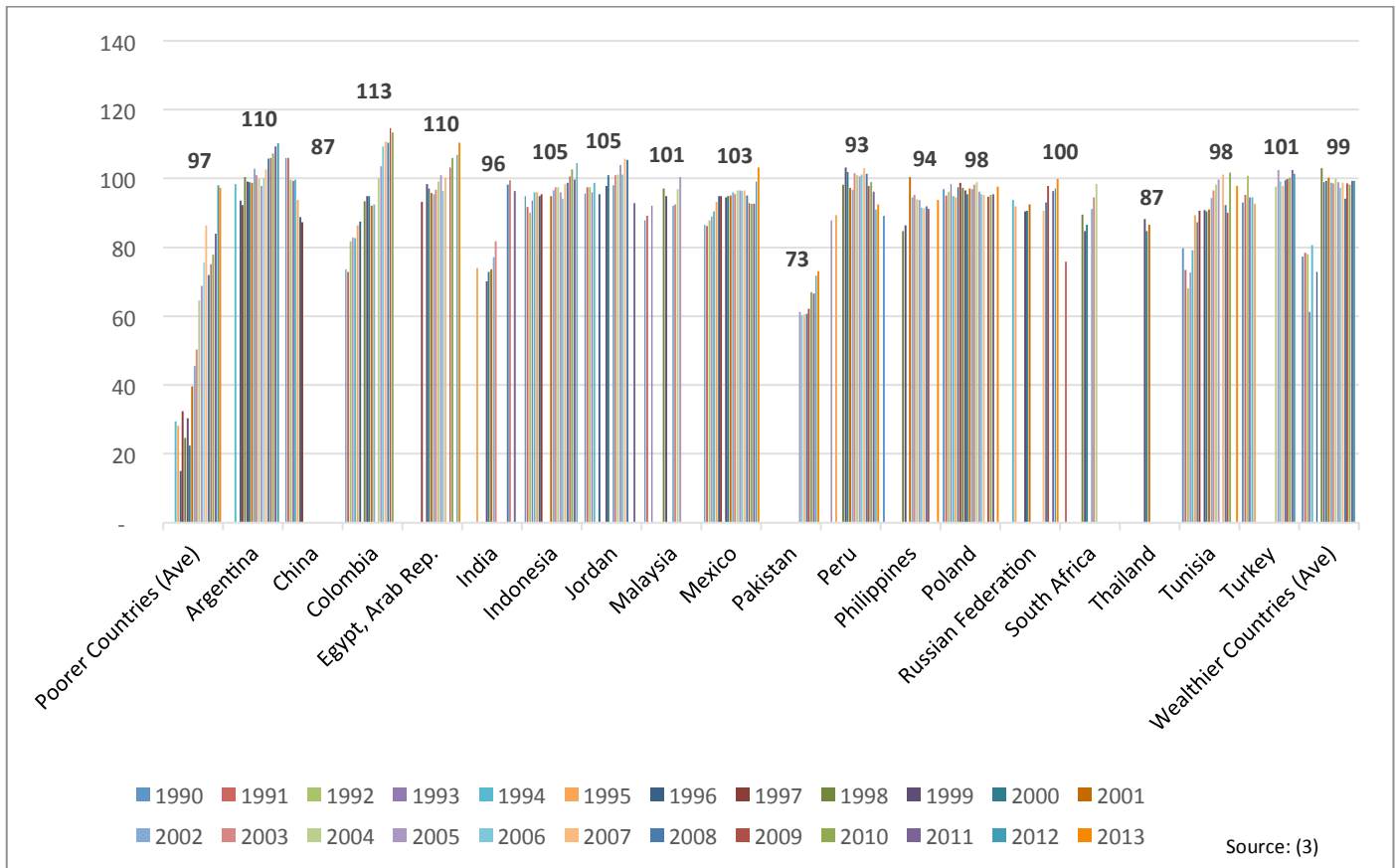
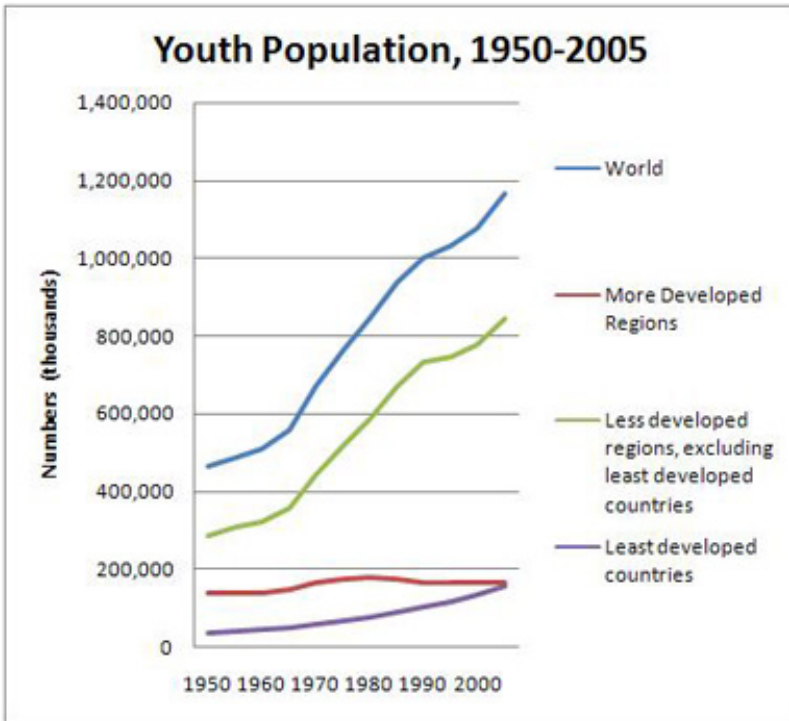


Figure 106: Primary completion rate, both sexes (%), 1990-2013



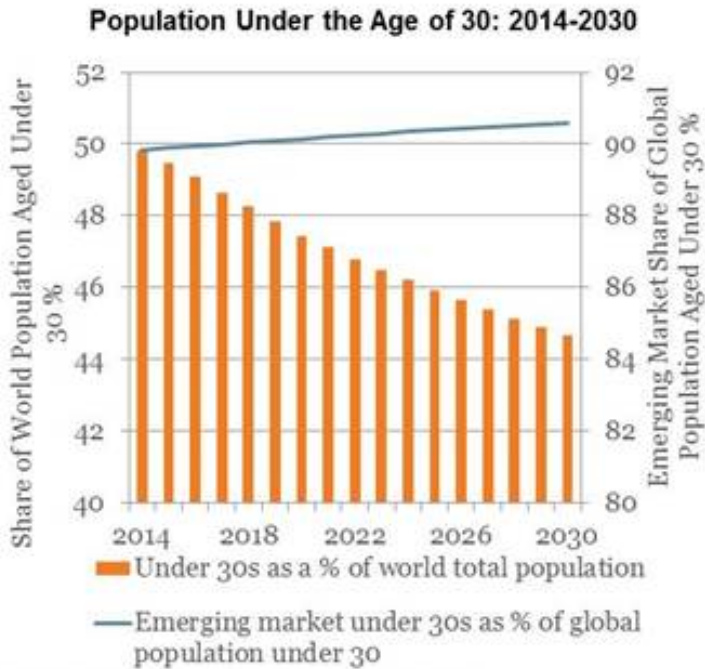
4.4 Other Indicators

Figure 107: Youth population, 1950-2005



Source: United Nations

Figure 108: Population Under the Age of 30: 2014-2030



Source: Euromonitor International from national statistics/UN
 Note: Data are forecasts

Source: Euromonitor International

Figure 109: Share of Population Aged Under 30 by Region in 2030

Share of Population Aged Under 30 by Region: 2030

Region	2030
Middle East & Africa	61.7%
World	44.7%
Latin America	43.7%
Asia Pacific	40.7%
Australasia	37.6%
North America	36.5%
Western Europe	32.6%
Eastern Europe	32.0%

Source: Euromonitor International

Figure 110: Public debt (GDP weighted) for developed and emerging markets, 1995-2020

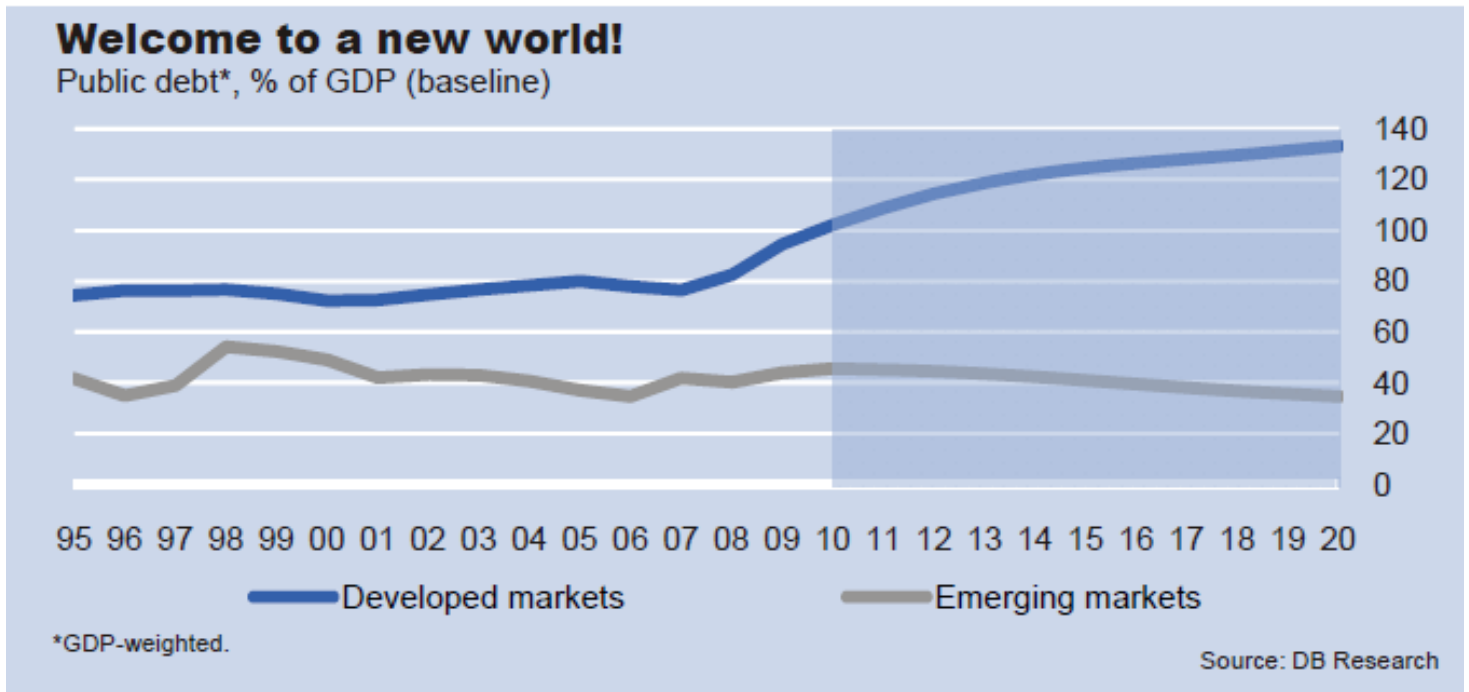


Figure 111: Youth Bulge (Aged 15–24), as a Percentage of the Adult Population (Aged 15 & Over), 1975–2050

	1975	1990	2000	2010	2020	2030	2040	2050
East Asia	31.6%	30.1%	20.9%	20.9%	15.4%	14.3%	13.1%	11.8%
Eastern Europe	23.1%	19.5%	19.2%	15.8%	12.1%	12.1%	10.8%	9.7%
Latin America	33.5%	30.9%	28.4%	24.8%	21.6%	18.9%	18.2%	16.9%
Muslim World	33.5%	33.3%	32.2%	28.5%	24.1%	22.6%	21.7%	19.7%
Russian Sphere	23.7%	17.5%	19.2%	17.1%	11.8%	13.4%	11.3%	10.4%
South Asia	33.5%	31.1%	29.6%	27.5%	23.9%	21.6%	20.7%	18.4%
Sub-Saharan Africa	33.9%	35.1%	35.8%	35.3%	33.7%	32.6%	30.6%	27.4%

Source: (5)

Figure 112: Total Dependency Ratio of Children (Aged 0–19) and Elderly (Aged 65 & Over) per 100 Working-Age Adults (Aged 20–64), 1975–2050

	1975	1990	2000	2010	2020	2030	2040	2050
East Asia	114	79	68	56	56	63	73	77
Eastern Europe	76	72	66	57	61	65	70	83
Latin America	128	106	91	78	72	75	77	81
Muslim World	135	122	104	84	78	78	76	79
Russian Sphere	73	68	65	52	57	64	63	75
South Asia	121	108	97	83	76	75	72	74
Sub-Saharan Africa	138	143	138	130	123	112	98	89

Note: Lowest ratio is highlighted.

Source: (5)

Figure 113: Working-Age Population (Aged 20–64), as a Percentage of the Total Population, 1975–2050

	1975	1990	2000	2010	2020	2030	2040	2050
East Asia	46.8%	55.7%	59.6%	64.1%	63.9%	61.5%	57.8%	56.5%
Eastern Europe	56.8%	58.3%	60.4%	6..8%	62.1%	60.5%	58.9%	54.6%
Latin America	43.8%	48.5%	52.3%	56.3%	58.0%	57.3%	56.5%	55.3%
Muslim World	42.6%	45.1%	49.1%	54.3%	56.1%	56.3%	56.8%	55.9%
Russian Sphere	57.7%	59.6%	60.8%	65.6%	63.5%	61.1%	61.3%	57.3%
South Asia	45.2%	48.1%	50.8%	54.8%	56.9%	57.2%	58.1%	57.6%
Sub-Saharan Africa	42.0%	41.1%	42.1%	43.5%	44.9%	47.2%	50.6%	53.0%

Note: Highest share is highlighted.

Source: (5)

Figure 114: Emerging Markets, median age, 2013

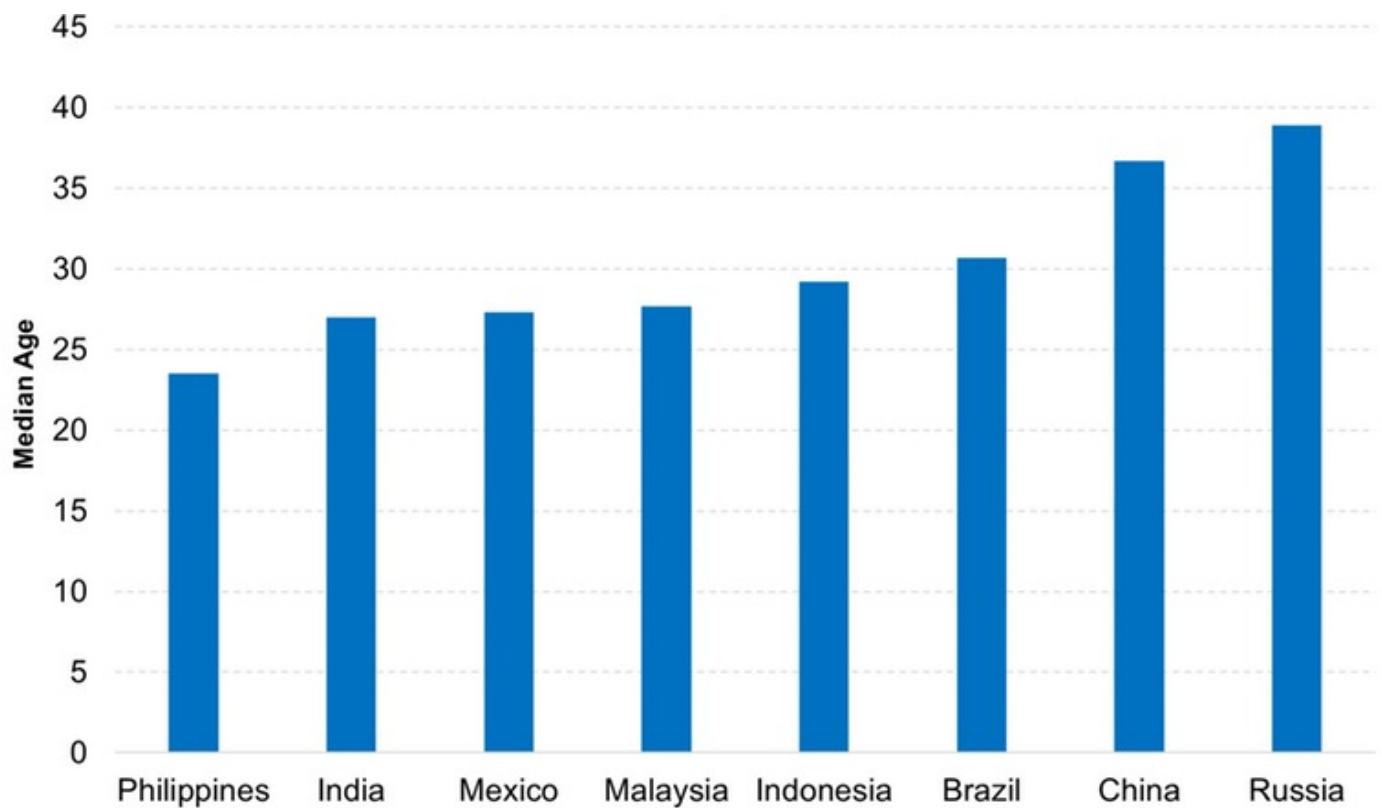
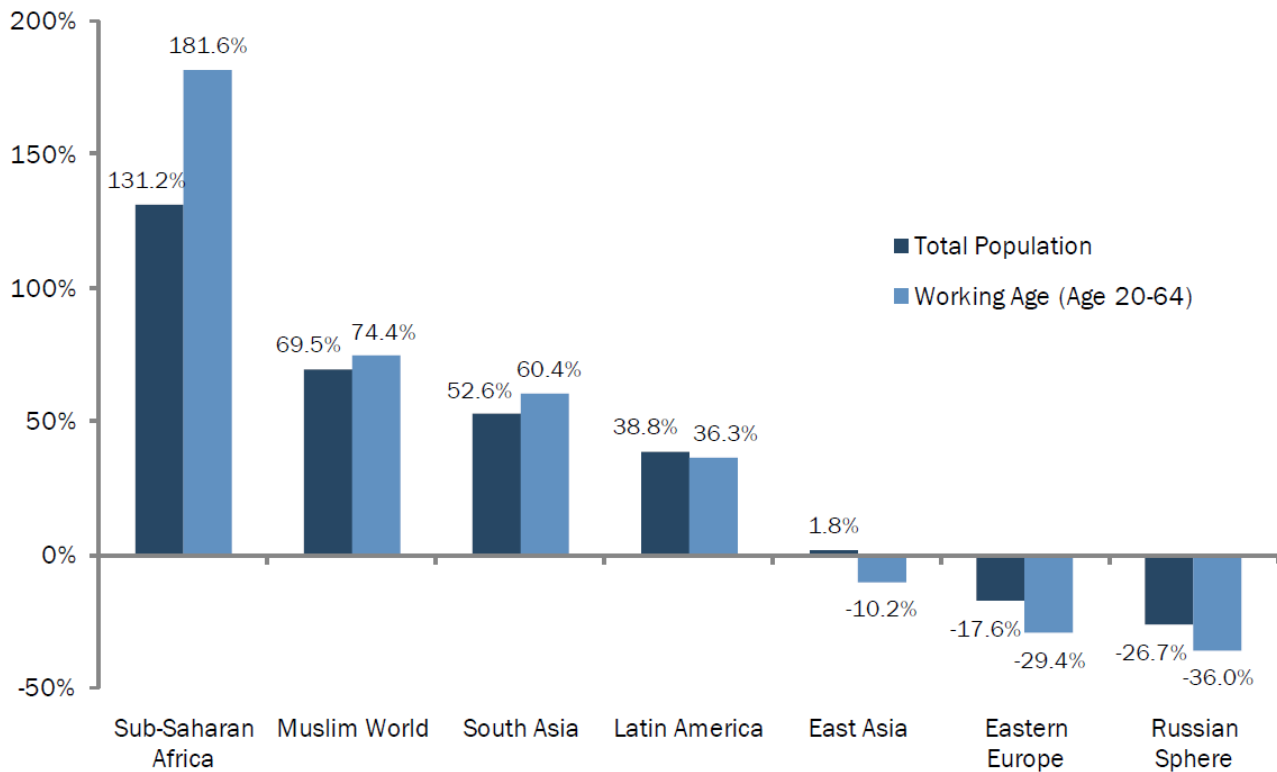


Figure 115: Cumulative Percentage Change in the Population: 2010–2050



Source: (5)

Figure 116: Economies Share of world GDP, percentage, 2010

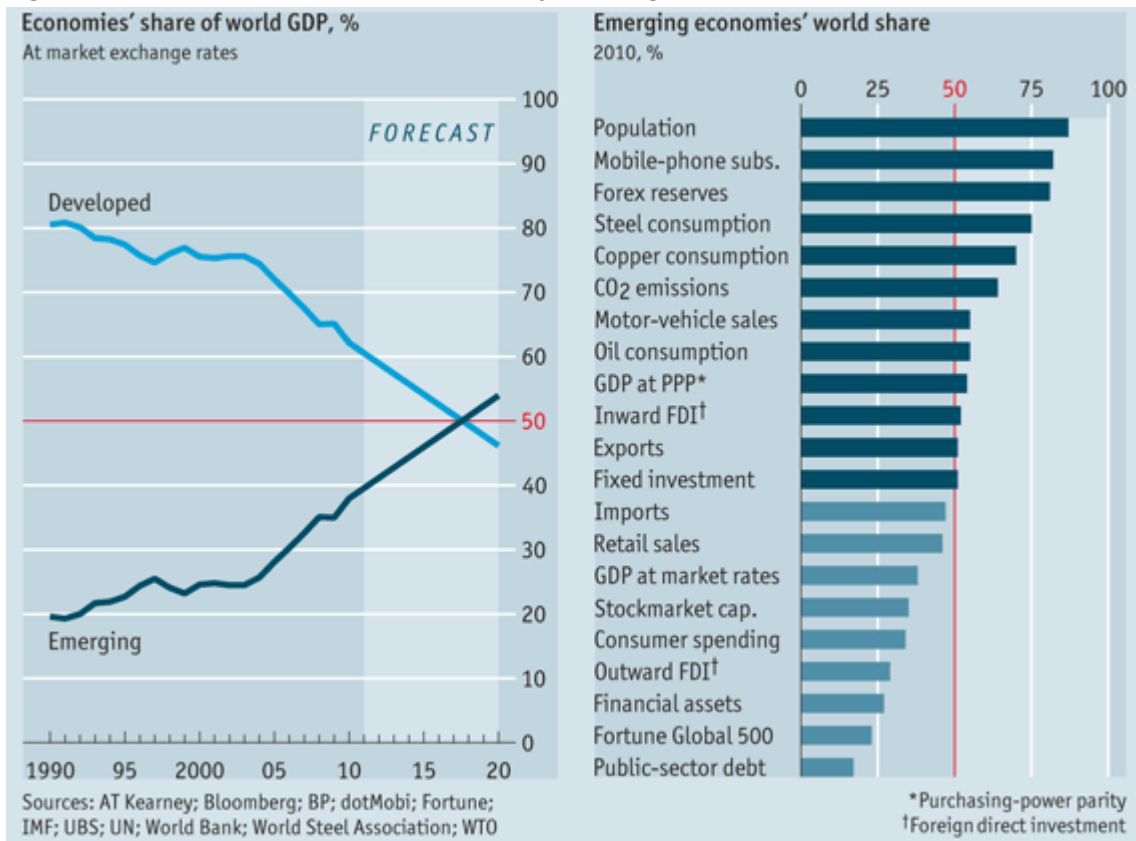
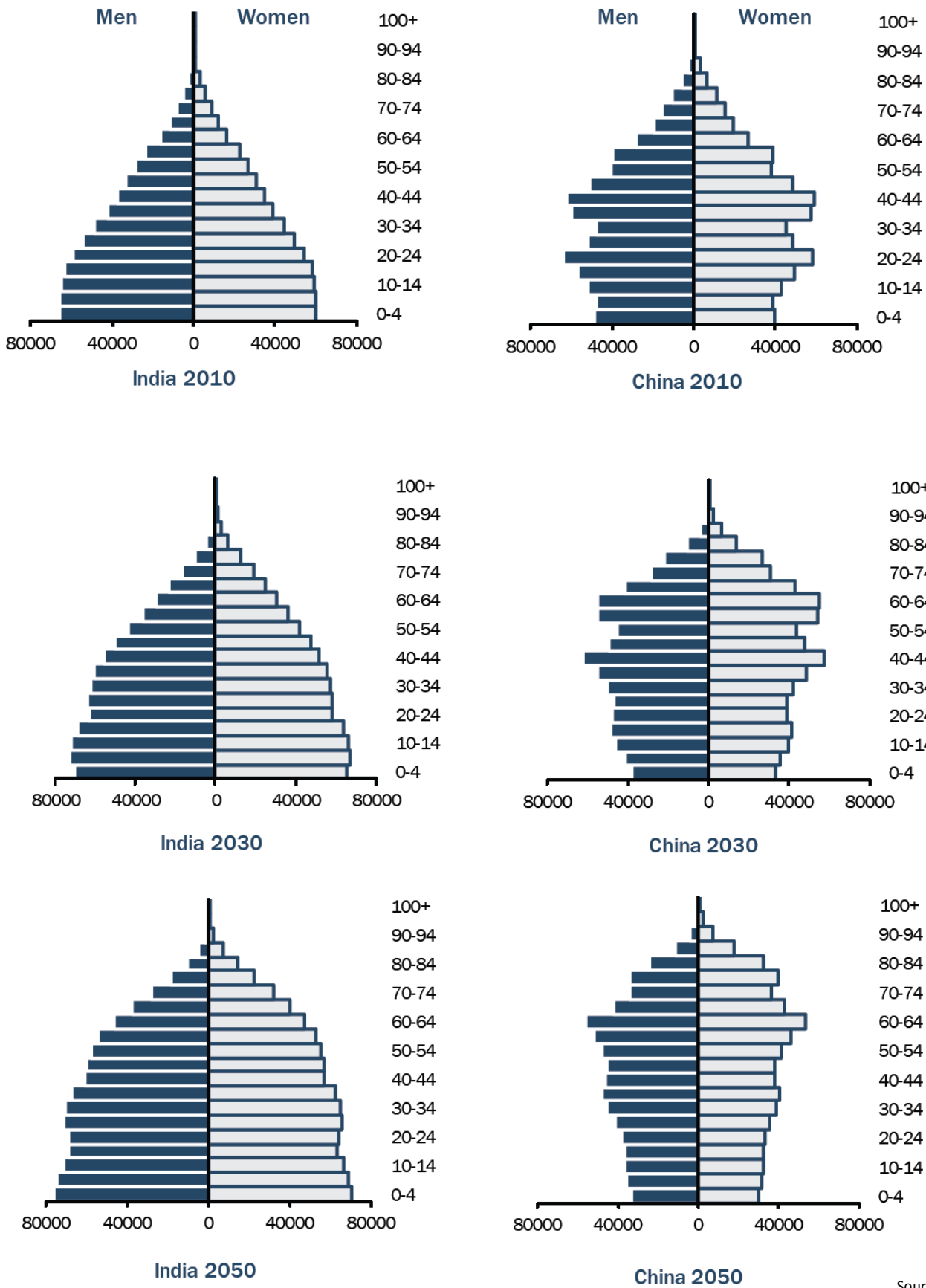


Figure 117: Population Pyramids of China and India in 2010, 2030, and 2050



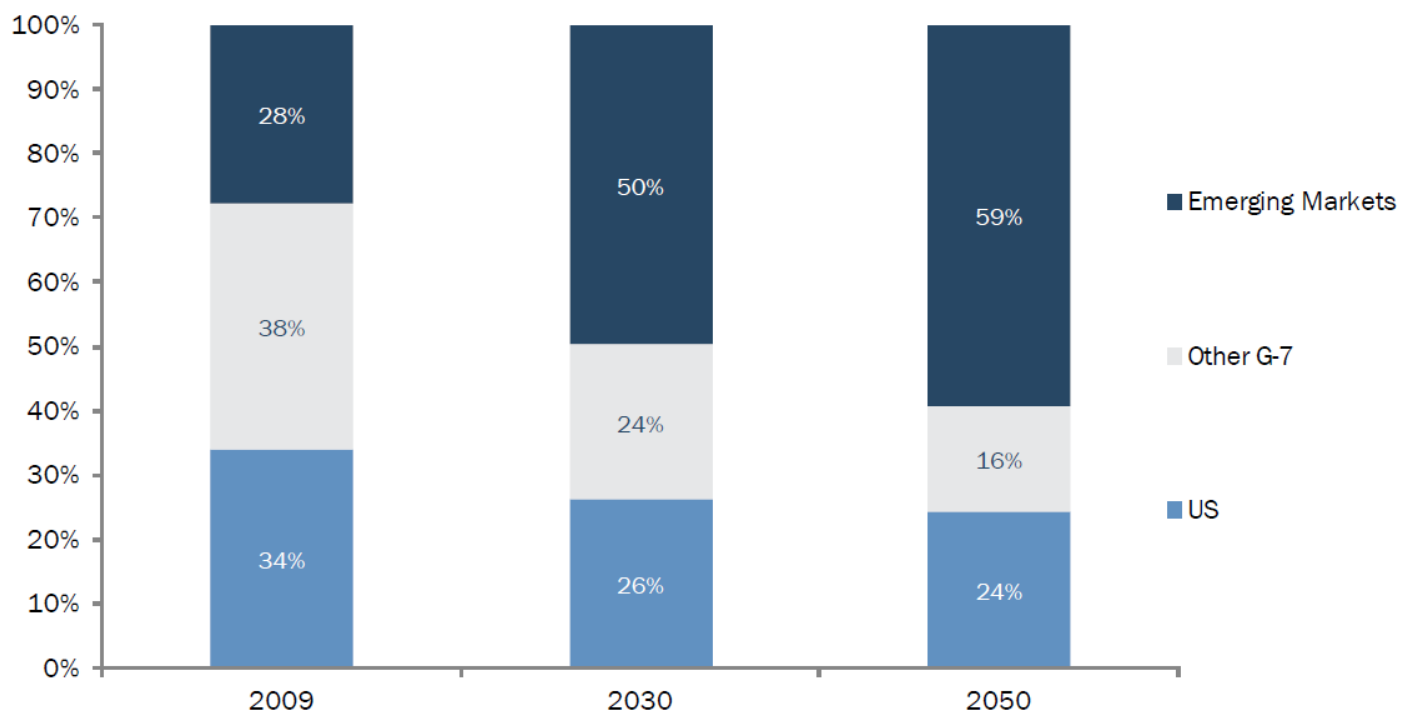
Source: (5)

Figure 118: Population by Region as a Percentage of the World Total, 1950–2050

	1950	1970	1990	2010	2030	2050
Developing World	77.8%	81.2%	85.0%	86.9%	88.6%	89.9%
East Asia	22.8%	23.6%	23.0%	20.9%	18.0%	14.8%
Eastern Europe	4.0%	3.4%	2.7%	2.0%	1.5%	1.1%
Latin America	6.6%	7.8%	8.4%	8.5%	8.4%	8.2%
Muslim World	12.4%	13.7%	16.0%	17.8%	19.5%	20.9%
Russian Sphere	6.1%	5.4%	4.2%	3.0%	2.1%	1.5%
South Asia	19.1%	19.9%	21.7%	23.2%	24.1%	24.6%
Sub-Saharan Africa	6.8%	7.5%	9.1%	11.7%	15.0%	18.8%
Developed World	22.2%	18.8%	15.0%	13.1%	11.4%	10.1%
United States	6.2%	5.7%	4.8%	4.6%	4.4%	4.3%
Western Europe	11.7%	9.3%	6.9%	5.8%	4.8%	4.0%
Japan	3.3%	2.8%	2.3%	1.8%	1.4%	1.0%
Rest of Developed World	0.9%	1.0%	0.9%	0.9%	0.8%	0.8%

Source: (5)

Figure 119: GDP (in 2005 U.S. Dollars) by Country or Country Group, as a Percent of the G-20 Total, 2009-2050



Source: Uri Dadush and Bennett Stancil, *The World Order in 2050* (Washington, DC: Carnegie Endowment for International Peace, April 2010)

Figure 120: Change in dependency ratios, 1950-2050. (Percentage points, ranked by change in old-age dependency)

	Old-age dependency ratio			Child dependency ratio			Total dependency ratio		
	(ratio of population aged 65+ per 100 population 15-64)			(ratio of population aged 0 - 14 per 100 population 15 - 64)			(ratio of population aged 0 - 14 per 100 population 15 - 64)		
	2010	2050	2010-2050	2010	2050	2010-2050	2010	2050	2010-2050
World	11.7	24.7	13.0	40.5	33.8	-6.8	52.2	58.5	6.2
Regions									
Europe	23.9	46.6	22.6	22.6	26.6	4.1	46.5	73.2	26.7
Latin America and the Caribbean	10.4	30.5	20.1	43.2	27.8	-15.4	53.6	58.3	4.7
Asia	10.1	27.0	16.9	37.6	27.7	-9.9	47.6	54.7	7.1
Northern America	19.6	36.2	16.6	29.0	29.8	0.9	48.5	66.0	17.5
Oceania	16.4	29.0	12.6	36.7	33.1	-3.7	53.1	62.0	8.9
Africa	6.2	9.5	3.3	74.2	52.0	-22.2	80.4	61.5	-18.9
Development status									
Developed countries	23.8	44.4	20.6	24.3	27.7	3.4	48.1	72.1	24.0
Other developing countries	9.3	24.9	15.6	40.0	31.0	-9.0	49.3	55.9	6.6
Least developed countries	6.2	10.9	4.7	73.4	47.8	-25.6	79.6	58.6	-20.9
Top-20 countries									
Republic of Korea	15.2	65.7	50.4	22.3	22.6	0.2	37.6	88.2	50.6
Cuba	17.7	63.2	45.5	24.6	20.8	-3.9	42.3	84.0	41.7
Spain	25.2	66.9	41.7	22.0	26.9	4.9	47.1	93.8	46.6
Thailand	12.4	53.1	40.8	26.9	21.8	-5.1	39.3	75.0	35.7
Portugal	27.0	64.3	37.3	22.7	22.5	-0.2	49.6	86.7	37.1
Singapore	12.2	48.7	36.5	23.5	19.9	-3.7	35.8	68.5	32.8
Poland	18.9	51.0	32.1	21.0	24.3	3.3	39.9	75.3	35.4
Slovakia	17.0	47.5	30.5	20.8	24.0	3.2	37.8	71.5	33.7
Lebanon	12.5	42.1	29.7	34.9	22.0	-13.0	47.4	64.1	16.7
Serbia	19.8	48.0	28.2	24.3	21.4	-2.9	44.1	69.5	25.3
Macedonia, TFYR	16.4	44.4	28.0	24.6	22.1	-2.5	41.0	66.5	25.5
Tunisia	10.0	37.7	27.7	33.8	26.7	-7.1	43.8	64.3	20.6
China	11.4	39.0	27.6	24.7	24.0	-0.6	36.0	63.0	27.0
Costa Rica	9.5	37.1	27.6	36.3	23.8	-12.5	45.8	60.9	15.1
Viet Nam	9.3	36.9	27.6	33.6	23.3	-10.3	42.9	60.2	17.3
Chile	13.4	40.9	27.6	32.2	25.6	-6.7	45.6	66.5	20.9
Cyprus	16.4	43.3	26.9	25.1	23.0	-2.1	41.5	66.3	24.8
Brazil	10.2	36.2	25.9	37.7	24.5	-13.2	47.9	60.7	12.7
Turkey	10.6	34.0	23.3	40.3	26.3	-14.0	50.9	60.3	9.4
Mexico	9.4	32.0	22.6	47.0	26.3	-20.6	56.3	58.3	2.0

Source: (5)

Figure 121: Labor force and employment in selected countries and regions, average 2010-2011 (Percentage of working-age population, 15 - 64 years)



Source: UN Population Fund Estimates, based on WorldBank, WDI 2013 and ILO, KILM 2013

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