Abstract

At the beginning of the century, the acronym BRIC first appeared in a study produced by an economist at Goldman Sachs. Economic and financial interest in BRICS resulted from the fact of them being seen as drivers of development. The purpose of this review is to analyze the extent to which what is being proposed at the Declarations of Heads of State and in the Declaration and Communiqué of Ministers of Health of BRICS can provide guidance to the potential of achieving a healthier world. With that in mind, the methodology of analysis of Statements and Communiqué rose from the discussions at the Summit of Heads of State and Ministers of Health was adopted. In the first instance, the study focused on the potential for economic, social and environmental development, and in the second, on the future of health within the group addressed. The conclusion reached was that despite the prospect of continued economic growth of BRICS countries, coupled with plausible proposals for the health sector, strong investment by the countries in S&T and technology transfer within the group, research on the social and economic determinants that drive the occurrence of NCDs - there is the need and the opportunity for joint action of the BRICS in terms of the “diplomacy of health” reinforcing the whole process of sustainable development.

Keywords: BRICS; International Cooperation; Health; Global Health; Health Policy; Health Diplomacy; Sustainable Development.
Introduction

As part of the global economy, at the beginning of this century, the acronym BRIC was used for the first time in a study entitled *Building Better Global Economic BRICs* (O’Neill, 2001) conducted by Goldman Sachs’ economist Jim O’Neill in 2001. The acronym, with the economic impact of the study, elicited the idea that came to embody the foreign policy of Brazil, Russia, India and China. Later, in 2006, the idea came to be applied, albeit informally, in the same grouping, establishing itself as a category of analysis in economic and financial sectors, highlighting in this potential articulation the size of their populations and their military and political power which led them being acknowledged as emerging countries. South Africa was invited to join BRIC in 2010.

The economic and financial interest in BRICS resulted from the fact of them being seen as drivers of development, based on their contribution to the growth observed during the first decade of this century: in 2011, BRICS accounted for 19.8% of the world GDP (The World Bank, 2011).

The global economic and political importance of the member-countries of the group is accompanied by their leadership in the regions in which they are respectively located, which gives them an interest in the analysis of positions that they jointly establish for issues of an economic, political and social nature, as is the case of health.

As an exchange group, BRICS have been articulating themselves with relative informality, though ultimately what underlies the mechanism is the political will of the members.

On the other hand, over the past decade, countries around the world have increasingly recognized the importance of linking their foreign policy efforts and their work on global health. As BRICS has a degree of institutionalization that is becoming better defined, how the five countries enhance their interaction in health is the subject of this paper.

Methodology

BRICS countries were selected for the present analysis as a suitable group with respect to health mainly due to the fact that the recent Sanya Declaration...
(in April, 2011) shows that the five countries may be moving towards greater cooperation and new bases for engagement, and that “growth and development are fundamental for confronting poverty and achieving the Millennium Development Goals” (Brasil, 2011). They enhance the value of solidarity and humanitarian assistance and recognize cooperation as of mutual and equal benefit. The BRICS countries expressed “a firm commitment to strengthen dialogue and cooperation in the fields of social security [...] and public health, including the fight against HIV/AIDS” (Brasil, 2011), thereby indicating an area which could benefit from the development of cooperation between members of the group on matters connected with health. In Sanya, the five leaders proposed holding the first meeting of the MoH in China later in 2011.

In this review, the methodology of analysis adopted to understand the political commitments of the highest dignitaries of BRICS regarding development and health over the coming years were the Declarations and Communiqué on the discussions held at BRICS’ Summits of Heads of State and Ministers of Health. In the first instance, the focus was on potential economic, social and environmental development; in the second, the health situation in BRICS countries and the possibility of enhance health systems and the contribution of them to achieve a healthier population.

Some may say that statements in international meetings tend to be highly sanitized and bland, and may be entirely unreliable as descriptions of reality or as predictors of action. For instance, the statements made by the MoH about tobacco control and mental health describe a very different reality than those of tobacco control in China (Li, 2012) or of mental health services in India (Shidhaye and Kermode, 2013). However, examples describe the BRICS countries’ influence, such as Brazil’s leading role in the negotiations that led to the Framework Convention on Tobacco Control, India, Brazil and South Africa’s involvement in issues around access to ARV drugs, to the dominant intellectual property rights regime and support for generic drug manufacture. Each of the BRICS engages individually in bi, tri and multilateral efforts to improve health. Little evidence is found in literature to support the assertion that the BRICS are influencing global health as a bloc, more common are examples of two or more BRICS countries supporting specific health initiatives (eg. Global Polio Eradication Initiative (GPEI), supported by India and Russia) (Harmer et al., 2013).

There is no guarantee that the political declarations will be put into practice – it will depend on the sensibility and good will of the BRICS authorities, now and in the future. Nevertheless, the most important aspect is that the statements represent a diplomatic development that could foster enhanced cooperation between these countries – BRICS countries have some good examples in health politics, which can be exchanged within the group.

Prospects for development: summit meetings of heads of State

From 2009 onwards, the periodic staging of Summits of Heads of State and Government was formally established. Five Summits (Brasil, 2009, 2010, 2011, 2012, 2013) have been held to date, starting in 2009 and, thereafter, annual Summits have been scheduled: Yekaterinburg, Russia, 2009; Brasilia, Brazil, 2010; Sanya, China, 2011; New Delhi, India, 2012; and Durban, South Africa 2013. While this paper was being prepared, it was anticipated that the 6th BRICS Summit was going to take place in Brazil in 2014.

The agenda of these meetings has broadened significantly over the years to encompass current global topics such as economic and financial issues, energy and climate change, social problems and issues related to international cooperation, including the UN reform and Millennium and Sustainable Development Goals.

In the economic, financial, trade and governance areas – very important determinants of health – varied topics were dealt with such as the management of the global economic crisis and the primary role of the G20 as the premier forum for international economic coordination and cooperation. This includes the reform of the International Monetary Fund (IMF) and the World Bank to enhance the participation of developing countries, including the review of the IMF quota system, so far limited to 10% of the shares (and votes). It proposes that the Heads of the
IMF and the WB should be selected through an open and merit-based process. The nature of the Bank can then shift from an institution that essentially mediates North-South cooperation to another that promotes equal partnership with all countries as a way to deal with development issues and to overcome the donor-recipient dichotomy.

In turn, BRICS proposed the setting up of a new Development Bank geared to the mobilization of funds for infrastructure projects in their countries and other developing countries and a fund called Contingent Reserve Arrangement (CRA)\(^1\) – to which China will provide $41 billion, Brazil, Russia and India $18 billion each and South Africa $5 billion – to combat currency liquidity crises, which may lead to a lack of credit in the international market. Both proposals must be approved soon in the future, representing new guarantees for sustainable development of the whole group. Likewise, they called for the establishment of a multilateral trading system embodied in the World Trade Organization (WTO) for providing an open, equitable and non-discriminatory environment and urged all states to resist all forms of trade protectionism and fight disguised restrictions on trade. They further concurred on the need for a comprehensive and balanced outcome of the Doha Round of multilateral trade talks.

In the energy and climate change area, BRICS recognizes that Rio+20 was a unique opportunity for the international community to renew its high-level political commitment to supporting sustainable development and consider that it should be the main paradigm in environmental issues, as well as for economics and social inclusion. They set out to develop cleaner, more affordable and sustainable energy systems to meet the increasing demand of their economies and their people and respond to climate concerns. They support the diversification of their energy matrix by increasing the contribution of renewable energy sources. The group also encourages, the cleaner, more efficient use of fossil fuels and other fuels. They undertake to promote sustainable development, the production and use of biofuels. They encourage BRICS member countries to cooperate in training, R&D, consultancy services and technology transfer in the energy sector. BRICS countries emphasize that international cooperation in the development of safe nuclear energy for peaceful purposes should proceed under conditions of strict observance of relevant safety standards and conditions.

They are fully committed to fight against climate change and contribute to the global effort in dealing with climate change issues through sustainable and inclusive growth and not by capping development. In turn they emphasize that developed countries shall provide enhanced financial, technology and capacity building support for the preparation and implementation by developing countries of nationally appropriate mitigation actions.

In the social field BRICS discussed the need for technical cooperation among them and financial support to poor countries for the implementation of development policies and social protection for their populations. Also for combating poverty, social exclusion and inequalities as decisive means to contribute to the achievement of sustainable social development, with social protection, full employment, and decent work policies and programs, giving special attention to the most vulnerable groups. They underscored their firm commitment to broaden and enhance dialogue and cooperation in the fields of gender equality, youth and public health, including the fight against HIV/AIDS. They also reiterate their commitment to gather efforts with the international community in order to help rebuilding Haiti in alignment with the guidance of the Haitian government.

In science and education they highlighted the importance of engaging in fundamental research and development of advanced technologies, insisting on the pledge of developed countries to fulfill their commitment of 0.7% of GNP to international assistance and exert their best efforts to increase technology transfer arising from cutting-edge areas.

In the BRICS Joint Statement on Global Food

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\(^1\) The term “contingent” signifies that the funds committed by the five countries will continue in their international reserves and will only be utilized if any of the countries need to support their balance of payments. The BRICS fund will contribute to strengthen the global financial safety net and complement the IMF and other existing international mechanisms.
Security, they highlighted the need for developed countries to provide financial and technological support for developing countries in the field of food production capacity. They also assessed the challenges and opportunities posed by the production and use of biofuels, in view of the frequent contradiction between the world’s food security needs and energy security.

The declarations of the Summits also refer to the Millennium Development Goals and post-2015 (Sustainable Development Goals), admitting that sustainable development should be the main paradigm for health strategies and, in this context, consider that the United Nations Conference on Sustainable Development (Rio+20) provides a unique opportunity for the international community to renew its commitment to support this development, representing a key benchmark to ensure sustainability.

In this context, it is worth remembering that the document that ensued from Rio+20 (UN, 2012) recognizes that “health is, simultaneously, a precondition for and an outcome and indicator of all three dimensions of sustainable development” (UN, 2012). The Rio document stresses that “action on the social and environmental determinants of health, both for the poor and the vulnerable and for the entire population, is important to create inclusive, equitable, economically productive and healthy societies” (UN, 2012).

That Rio+20 report (UN, 2012) mentions the need to strengthen health systems to provide equitable universal coverage; deal with HIV/AIDS, malaria, tuberculosis, influenza, polio and other communicable diseases; non-communicable diseases (NCDs) – especially cancer, cardiovascular diseases, chronic respiratory diseases and diabetes; reduce air, water and chemical pollution; reduce maternal and child mortality and improve the health of women, youth and children; the right to use TRIPS flexibilities to protect public health and the Doha Declaration on the TRIPS Agreement and Public Health; greater cooperation at national and international level through training and development of the health workforce.

It stresses the role of the Rio Political Declaration on Social Determinants of Health (WHO, 2011), which establishes that it is necessary to address current challenges, such as eradicating hunger and poverty; ensuring food and nutritional security; access to safe drinking water and sanitation; employment and decent work and social security schemes; protecting the environments; and delivering equitable economic growth, through firm action on the social determinants of health to ensure inclusive, equitable and healthy societies. Good health requires the existence of a universal, comprehensive, equitable, effective, responsive, accessible quality health system.

In the area of inter-BRICS cooperation, the countries held some sectoral meetings to make progress in various fields of health and research, development and innovation.

They acknowledge that most of the BRICS countries face a number of similar public health challenges, including universal access to health services, access to health technologies, including medicines, rising costs and growing burden of both communicable and non-communicable diseases. Accordingly, it recommended that the meetings of the Health Ministers be institutionalized in order to overcome these common challenges more effectively. Taking into consideration that there is a large stock of knowledge, expertise, skills and best practices available in each country of the group and that can be shared, it was decided to promote Meetings of Senior Officials in S&T to encourage Research, Development and Innovation (R, D & I) in areas such as food, pharma, health and renewable energies, new energies, in addition to basic research; the meeting of the BRICS Working Group on access to medication was organized on the margins of the 29th Meeting of the Manager Committee of UNAIDS and the Meeting on Intellectual Property, on the margins of the General Assembly of WIPO. The exchange of knowledge among its institutions through joint projects, seminars and exchanges of scientists and university students between the countries was also encouraged.

Furthermore, the Action Plan stipulated consultation meetings between BRICS Senior Officials on

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2 The declaration mentions that Member-States can circumvent patent rights to improve access to essential medication.
the margins of the relevant international forums related to the environment and climate change; the strengthening of sectoral cooperation of the new Development Bank and as a new area of cooperation to be exploited, it highlights energy within the scope of BRICS.

With respect to the ability to influence the guidelines regarding global development, Rodrik (2013) argues that:

Their own development experience makes countries like China, India, and Brazil resistant to market fundamentalism and natural advocates for institutional diversity and pragmatic experimentation. They can build on this experience to articulate a new global narrative that emphasizes the real economy over finance, policy diversity over harmonization, national policy space over external constraints and social inclusion over technocratic elitism.

Table 1 - Socio-economic and income indicators of BRICS countries

<table>
<thead>
<tr>
<th>Country / Year</th>
<th>Gross Domestic Product (GDP) bi US$</th>
<th>Gross National Income (GNI) - PPP bi $</th>
<th>GNI per capita, PPP (*) US$</th>
<th>Income Gini coefficient (**)</th>
<th>Human Development Index (HDI) (***)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brazil</td>
<td>2,476,7</td>
<td>2,254,8</td>
<td>10,068</td>
<td>57,4 (2005) - 54,7 (2009)</td>
<td>0.718</td>
</tr>
<tr>
<td>Russian Fed.</td>
<td>1,857,8</td>
<td>2,917,7</td>
<td>13,897</td>
<td>37,5 (2005) - 40,1 (2009)</td>
<td>0.755</td>
</tr>
<tr>
<td>India</td>
<td>1,847,9</td>
<td>4,460,5</td>
<td>3,175</td>
<td>33,4 (2005)</td>
<td>0.547</td>
</tr>
<tr>
<td>China</td>
<td>7,318,5</td>
<td>11,270,8</td>
<td>7,404</td>
<td>42,5 (2005) - 49,1 (2009)</td>
<td>0.687</td>
</tr>
<tr>
<td>South Africa</td>
<td>408,2</td>
<td>541,9</td>
<td>9,463</td>
<td>67,4 (2006) - 63,1 (2009)</td>
<td>0.619</td>
</tr>
<tr>
<td>BRICS</td>
<td>13,909,1</td>
<td>21,436,7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>World</td>
<td>70,201,0</td>
<td>78,980,0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BRICS as % world</td>
<td>19,80</td>
<td>27,10</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(*) Gross National Income converted to international dollars (IS) using purchasing power parity rates. An IS has the same purchasing power over GNI as a U.S. dollar has in the United States.
(**) Measure of the deviation of the distribution of income or consumption among individuals or households within a country from a perfectly equal distribution. A value of 0 represents absolute equality, a value of 100 absolute inequality (all incomes are commanded by the richest person in the economy).
(***) Combines indicators of health (life expectancy at birth), education (mean years of schooling and expected years of schooling) and living standards (gross national income per capita).


The context and indicators of development

Economic and social indicators are keys for health as they are able to express the deep root of the social determinants of health, the “cause of the causes” of health.

With 42% of the world population (UNDP, 2011), 7.8% of the world surface area (The World Bank, 2010), spread out across Asia, Africa, Europe and Latin America, which shows the transcontinental dimension of its integration, abundant natural resources and diversified economies at a sustainable rate of growth, it was natural that they were considered a group with undisputed political and economic weight, equivalent to 19.8% of nominal global GDP, with GDP totaling US$ 13.9 trillion (The World Bank, 2011) (Table 1). Considering the parity-power-purchase (PPP), this indicator reaches US$21.4 trillion, which represents 27.1% of the total (Table 1).
The BRICS population is mostly urban, except in India and China, where it is balanced (The World Bank, 2011). About 30% of the population of Brazil, India and South Africa is below 15 years of age and nearly 20% of Russia’s population is aged over 60 (BRICS, 2011a). From what has been presented, the best indices of group members correspond to Brazil, Russia and China and the worst in India and South Africa, with very few exceptions in certain areas (Table 2).

The Gross National Income per capita (PPP) in Russia is 4.4 times higher than in India, which shows how heterogeneous the group is. India had the lowest HDI of the group (Table 1) and has the lowest levels of public expenditure on health (WHO, 2013) and on education (The World Bank, 2013).

South Africa has the most unequal distribution of income and wealth in the group, but its indices have been improving. The second most unequal country in the group is Brazil and India is the most egalitarian among BRICS countries.

**Prospects for health and science, technology and innovation (STI): meetings of BRICS ministers**

**Meetings of MoH**

During the initial stage of forming BRICS, the broadening of the debate on the area of health had not yet arisen. However, during the course of the Summits of Heads of State, from a decision reached at the III Meeting in Sanya (Brasil, 2011) the Health Ministers began to organize periodic meetings, the first in Beijing (BRICS, 2011b) and the second in Delhi (BRICS, 2013). In addition to repeatedly addressing the same interests and commitments, these meetings complemented each other, covering a broad selection of themes which reflect a real development agenda in health, including the points listed below. As raised in both meetings, Health Ministers agreed to “promote BRICS as a forum of coordination, cooperation and consultation on relevant matters related to global public health” (BRICS, 2011, 2012).

The first meeting of the MoH decides to develop projects for health cooperation (South-South and triangular cooperation). Despite the existing diversity, BRICS nations face a number of similar public health challenges, including inequality of access to health services and medicines, in the context of a poor provision of social protection which varies in different countries with respect to the most vulnerable sectors of society. The declaration stressed the need for collaboration in order to strengthen health systems and to overcome the problems in access to quality medical products and other health technologies for the treatment of HIV/AIDS, tuberculosis, viral hepatitis, malaria and other communicable and non-communicable diseases, extending the scope of ODM 4, 5, 6 and 8.

The promotion of innovation and access to health technologies were stressed, especially in the context of health costs and the rise in the double burden of communicable and non-communicable diseases. Among the communicable diseases, the main aspect was the development of capacity and infrastructure to reduce the prevalence and incidence of tuberculosis through innovation with new drugs/vaccines, diagnostics and promotion of consortia of researchers to collaborate on clinical trials of drugs and vaccines. For combating HIV/AIDS, the use of new and innovative antiretroviral therapies (ART) and the simplification of the treatment regime, especially in recent infections and HIV-TB co-infections were recommended. In the case of malaria and viral hepatitis, the use of diagnostic tools, R&D and ease of common access to health technologies developed in BRICS countries was encouraged.

They stated the need for research into the social and economic determinants leading to the occurrence of NCDs amongst the BRICS countries, and in particular to the commitment to the WHO Framework Convention on Tobacco Control and the WHO Comprehensive Mental Health Action Plan through sharing of innovations in the field of promotion, diagnosis and management, exchange of best practices and experiences.

They dedicated great attention to child survival through progressive reduction in maternal mortality, infant mortality, neo-natal mortality and under-5 mortality, with the aim of achieving the MDGs.

The Ministers discussed the recommendations of the WHO Consultative Expert Working Group on Health on Coordination and Financing of R&D...
for Medical Products and welcomed the proposal to establish a Global Health R&D Observatory, as well as the move on holding regional consultations to set up R&D demonstration projects. The Ministers urged that the entire process, including priority setting, should be driven by WHO Member States and based on public health needs, in particular those of developing countries, with the cost of R&D delinked from the final products. They encouraged basic research in the fields of nanotechnology, biotechnology, advanced materials science, energy efficiency technologies and renewable energy, and research on climate change etc., developing the flow of knowledge amongst their research institutions through joint projects, workshops and exchanges of young scientists. They included the use of Information and Communication Technologies (ICT) acknowledging the values of Telemedicine and the importance of traditional medicine, as well as the need for experience and knowledge sharing in all the spheres of health by means of establishing a BRICS network of technological cooperation.

They undertook to promote health for all, developing mechanisms for planning and health surveillance systems with risk assessment tools and mitigation methods, referral systems, life course approaches, community empowerment, monitoring health impact assessments of all public policies at national and international levels.

They reiterated their commitment to work in conjunction with other developing countries, promoting South-South and triangular cooperation and including stakeholders from the public and private sectors to achieve inclusive global public health. They backed the United Nations General Assembly Resolution on universal health coverage, as well as the ongoing discussions on the process of WHO reform, to better respond to global challenges.

Lastly, they valued the support of the international organizations, including in addition to the WHO and UNAIDS, the Global Fund to Fight AIDS, Tuberculosis and Malaria, GAVI alliance and UNITAID International Drug Purchasing to increase access to medicines, vaccines and safe medical products. They also reiterated the commitment to preserve and promote the provisions contained in the Doha Declaration on TRIPS and Public Health and of the Global Strategy and Plan of Action on Public Health, Innovation and Intellectual Property.

**Ministerial meeting on science, technology and innovation**

At the first ministerial meeting on ST&I held in Cape Town, in 2014, the BRICS countries adopted a declaration to strengthen cooperation in STI (BRICS, 2014); the memorandum of understanding on cooperation in ST&I is expected to be signed in July 2014, in Fortaleza, Brazil.

As a first step towards implementing the objectives of the agreement each country would head one of the five thematic areas: climate change and natural disaster mitigation (Brazil); water resources and pollution treatment (Russia); geospatial technology and its application (India); new and renewable energy and energy efficiency (China) and astronomy (South Africa). The ST&I for health agenda itself has been included in the agenda of MoH, but due to the influence on health of extra-sectorial dimensions, the above agenda of ST&I is expected to be critical also for health.

**Health indicators and resources**

The differences of the health related risk factors are marked between BRICS countries. Of the total of 911 million of the 10 leading causes of DALYs in the world, 423 million or 46.4% are from the BRICS countries. In 2010, the global estimated healthy life expectancy at birth (HALE) was 58.3 years for males and 61.8 for females (IHME, 2012) — however, Russia, India and South Africa were below these figures. Regarding the risk factors that lead to NCDs, Brazil, Russia and South Africa are above the global average of obesity in adult men’s 20+ years of age. Other factors of concern are alcohol consumption among adults aged 15+ years of age in Russia and the high prevalence for current smoking among male adults aged 15+ years in Russia and China.

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### Table 2 - Healthy life expectancy at birth, leading causes of DALYs in BRICS, risk factors which can lead to non-communicable disease and some NCD indicators

<table>
<thead>
<tr>
<th>Country / Year</th>
<th>Risk factors</th>
<th>NCD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Estimated Healthy life expectancy (HALE)* at birth</td>
<td>10 leading causes of DALYs**</td>
</tr>
<tr>
<td></td>
<td>both sexes combined in thousands</td>
<td>% litres of pure alcohol per person per year</td>
</tr>
<tr>
<td>Brazil</td>
<td>63.8</td>
<td>21,749.6</td>
</tr>
<tr>
<td>Russian Federation</td>
<td>59.9</td>
<td>32,755.4</td>
</tr>
<tr>
<td>India</td>
<td>56.2</td>
<td>209,784.1</td>
</tr>
<tr>
<td>China</td>
<td>67.8</td>
<td>140,460.6</td>
</tr>
<tr>
<td>South Africa</td>
<td>51.0</td>
<td>18,518.9</td>
</tr>
</tbody>
</table>

*Healthy life expectancy (HALE). Average number of years that a person can expect to live in “full health” by taking into account years lived in less than full health due to disease and/or injury.

**Disability Adjusted Life Years (DALYs). The sum of years of potential life lost due to premature mortality and the years of productive life lost due to disability.


### Table 3 - Human health resources and expenditures

<table>
<thead>
<tr>
<th>Country</th>
<th>Physicians</th>
<th>Nursing workforce and midwifery personnel</th>
<th>Dentistry personnel</th>
<th>Pharmaceutical personnel</th>
<th>Health expenditure per capita</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number</td>
<td>Density (per 10,000 population)</td>
<td>Number</td>
<td>Density (per 10,000 population)</td>
<td>Number</td>
</tr>
<tr>
<td>Brazil</td>
<td>341,849</td>
<td>18</td>
<td>1,243,804</td>
<td>64</td>
<td>227,141</td>
</tr>
<tr>
<td>Russian Federation</td>
<td>614,183</td>
<td>43</td>
<td>1,214,292</td>
<td>85</td>
<td>45,628</td>
</tr>
<tr>
<td>India</td>
<td>757,377</td>
<td>7</td>
<td>1,146,915</td>
<td>10</td>
<td>93,332</td>
</tr>
<tr>
<td>China</td>
<td>1,905,436</td>
<td>14</td>
<td>1,854,818</td>
<td>14</td>
<td>51,012</td>
</tr>
<tr>
<td>South Africa</td>
<td>-</td>
<td>7</td>
<td>-</td>
<td>39</td>
<td>-</td>
</tr>
<tr>
<td>Global</td>
<td>8,652,107</td>
<td>14</td>
<td>16,689,250</td>
<td>28</td>
<td>1,227,822</td>
</tr>
</tbody>
</table>

Obviously, the availability of qualified human resources is essential to ensure addressing health issues adequately, and in that respect great disparities among the BRICS are also observed. Brazil and Russia have greater densities of doctors and nurses per 10,000 inhabitants (Table 3). Russia has significant values which are far lower in Brazil, where the situation is complicated by poor distribution of these professionals in relation to areas of high and low economic development. Following this peculiar situation Brazil recently launched the “Mais Médicos” program that aims to supply remote and poor territories with these professionals. The other countries have far smaller contingents, though in the case of China this limitation is compensated by the services of less qualified personnel, known as “barefoot doctors”. In the fields of dentistry and pharmaceutical personal, the limitation is far greater, even in Russia. It is surprising, however, that in China where the health situation is relatively good: the per capita health expenditure is one of the lowest among the BRICS.

It is important to mention that although we have chosen to analyze data at country level, despite the fact that they are helpful, they hide in-country differences and inequities. For example the health spending in South Africa is very significantly skewed towards the rich and over-serviced, with about 45 per cent of the spending occurring in the private sector that services a mere 15 per cent of the population (Ataguba and Akazili, 2010). Similar issues exist with the health workforce data.

In the period of India’s economic growth, inequity has increased (Balarajan et al., 2011; Baru et al., 2010). In South Africa for example the health statistics indicate that in spite of its growth and its spending on health, South African health statistics are worse than BRICS countries that have a lower percentage of GDP spent on health (The World Bank, 2012).

Excellent analysis on the health and health systems situations in BRICS countries were recently published at the Lancet Collection on Global Health on Brazil (The Lancet, 2011a), China (The Lancet, 2012, 2013), India (The Lancet, 2011b) and South Africa (The Lancet, 2009).

The Heads of State insist on seeking to reduce the socio-economic differences existing among the BRICS countries. Likewise, the MoH insist on striving to diminish the inequalities in health and foster equity in health. To achieve both of these goals, there must be an interchange of experiences in social and health policies, mechanisms and instruments among the BRICS countries.

Comments and conclusions

The Summits of Heads of State themselves have drawn attention to the diversity among the five countries in the BRICS group in terms of the degree of development, the geo-ecological, cultural and lifestyle situation, in addition to their differences in terms of language and location on four different continents. This diversity is also seen from the outset in most of the indicators presented, with the best rates predominating in Brazil, Russia and China, in general, and the worst in India and South Africa, with some important exceptions.

The diversity among the BRICS countries explains the length of time required to formally the group, which took almost a decade, as it only actually became established and gained momentum and continuity after the annual presidential summits and periodical ministerial meetings started.

It is surprising, nevertheless, that despite the diversity it has been possible to reach a level of consensus, as has been observed in the debates of the Heads of State with great uniformity in the proposals and decisions reached. It can even be considered that the relationship that can be established between them is a sign of complementary interests and capabilities and possible cooperation aimed at promoting sustainable development.

Likewise, significant growth in GDP based on purchasing-power-parity in the five-year period from 2005 to 2010 can also be witnessed in all BRICS countries, as shown by the data recently presented by the IMF. They indicate the maintenance of the ascending curve for the next five years, with values ranging between 27-32% for South Africa, the Russian Federation and Brazil and 55-66% respectively for India and China. This situation would seem to in-
icate adequate compliance with the commitments made at the summits and meetings analyzed here.

Considering the importance of enhancing the population in the coming years for which better socio-economic situation and better health systems are key, it sought specifically to explore the possibility of progress in the field of health, taking into account what is outlined at the Rio+20 Declaration that recognizes that better health is a “precondition for, an outcome of, and an indicator of all three dimensions of sustainable development” (WHO, 2011) which can give us some guidance as to the potential to attain healthier BRICS countries in the coming future.

In this context, the expected exchange in the indicated dimensions may influence the health sector, supporting the fields that correspond to it between the Millennium objectives, with clear goals to reach the unfinished agenda of these objectives and their possible expansion after 2015. This is when they will be renewed within the sphere of the United Nations, including those relating to infant and maternal mortality and the control of communicable diseases, HIV and AIDS, malaria, tuberculosis, etc. To these it will be added the NCDs, namely cardiovascular, chronic respiratory diseases, cancer, neurodegenerative, diabetes, etc.

For this, the current economic growth in BRICS countries ought to facilitate the strengthening of systems and resources for health, already evident today, by major investment in S&T, including R&D for production and innovation, particularly in the areas of vaccines, drugs and diagnostics. The same may occur in relation to social determinants of health, and particularly to the energy matrix, in order to reduce carbon emissions by 2020, as pledged by China and India with reductions of up to 45% and 25% respectively to control environmental degradation (King et al., 2011).

It is well known that inequity itself leads to ill-health. Bearing in mind the entire debate about what leads to sustainable development and what the preconditions are for health, even with the economic prospect of economic growth and plausible proposals for the health sector, they need to put these collective commitments into action, begin to work collectively to exchange good practices and enhance the impact of their assistance programs.

Finally, in the field of common actions in health diplomacy, it is recognized that over the past decade, countries around the world have increasingly recognizing the importance of linking their foreign policy efforts and their work on global health. Even proclaiming their determination to better integrate their health and diplomatic agendas, BRICS countries have been stepping up their work on global health through their own official development assistance – as a bilateral donor, through its work in multilateral institutions, and by supporting overseas health-related research and innovations. As stated by Bliss (2011), how the BRICS countries choose to move forward on global health will depend in large part on their own histories of international interaction on health, on their continued financial growth, and on the extent to which engaging in foreign activities does not conflict with their domestic health and development priorities.

There is no doubt that in the next few years there will be the need and the opportunity for joint action of BRICS in terms of the “health diplomacy”. In the 2014-2015 biennial, the WHO began to implement, its General Program of Work 2014-2019 as a complex and challenging agenda. On the other hand, in the context of the United Nations, the Member-States will be defining the post-2015 Development Agenda, which requires a strong presence of health, as well as of other Sustainable Development Goals (SDG) and intersectoral actions capable of tackling the importance and complexity of human health in development. These are two fields and moments in which a joint manifestation of the BRICS may affirm their presence in the field of the diplomacy of global health.

References


