High Immunization Coverage in Children as One of the Major Achievements for the Health System in Iran

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Dear Editor-in-chief,

Vaccination considered as one of the most cost-effective health interventions worldwide through prevention and control of many serious childhood diseases (1). It is estimated global coverage of Dose 3 of Diphtheria, Tetanus, and Pertussis (DTP3) among children one year old has been 86% in 2014 (by range from 77% to 96% in African Region and Western Pacific Region; respectively) (2). Globally in 2014, it is estimated about 18.7 million infants were not receive routine immunization services such as DTP3 vaccine. More than 60% of these children were living in 10 undeveloped countries (3). Coverage rate the third dose of DTP vaccine (DTP3) in at the age of 12 months is a key indicator of National Immunization Programme (NIP) performance; because it reflects completion of the basic infant immunization schedule and coverage with other vaccines (2). In this study we aimed to examine status of immunization coverage in Iran compared to other countries in the world during 1980-2015.

Key Words: Children, Immunization coverage, Iran, Vaccination.

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Figure 1, show globally immunization coverage of DTP3 for children in 2014, as shown in this figure, immunization coverage for Iranian children such as many European countries, America, East Asia and North Africa countries is optimal (4).

Table 1 shows immunization coverage of DTP3 for Iran compared with the world as well as four categorized of courtiers according their income (Low-income, Lower-middle-income, Upper-middle-income and High-income countries). According World Bank category, low-income economies are defined as those with a GNI per capita of $1,045 or less in 2014; middle-income economies are those with a GNI per capita of more than $1,045 but less than $12,736; high-income economies are those with a GNI per capita of $12,736 or more. In 2015, this coverage in Iran was 8.4% higher than global average and In 2014, this coverage for Iran has been 99%; that it has been higher than the global average, low income and high income countries with 13, 21 and 4 percent; respectively. Iran has been a dramatic increase in vaccination coverage in recent years: Figure 2 shows. Immunization coverage of DTP3 in Iran reached from 32% in 1980 to 99% in 2014 (4).

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Fig.1: Globally Diphtheria tetanus toxoid and pertussis (DTP3) immunization coverage among 1-year-olds (%)
Result of WHO in 2015 showed that Iran has the optimum vaccination coverage and is higher than global standards that reflect the successfulness of the Iran immunization program. However should be pay attention that still there are some obstacles in the full implement of vaccine. Despite of high coverage vaccination in Iran, the number of studies emphasized on noticeable incidence rate of delayed vaccination. The next point that, there are considerable unknown number of illegal refugees who living in Iran, these refugees have unclear vaccination status and should be considered as potential menace for control of infectious disease among children. It is recommended that for full implement of vaccine programme in children should identify obstacles and then removes to timely vaccination; also illegal refugees should be considered as a high-risk group by the health system and presented appropriate solutions for their full vaccination.

REFERENCES