The comparison on the Malaria infection between children 0-5 and more than 5 years old in South Sudan, between 2009- May 2015

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Malaria is a parasitic disease transmitted by Anopheles mosquitoes. It is considered as a leading cause of mortality among children in sub-Saharan Africa and especially in South Sudan. Valid quantitative estimates of malaria mortality worldwide are useful for monitoring the impact of implementing the prevention and the control of the activities, targeting interventions, and advocacy (2).

Most at risk of getting malaria are pregnant women, children under five, HIV positive persons and those who come from areas where the incidence of malaria is very low, for example Nairobi or Khartoum (3). South Sudan is plagued by similar problems in the public provision of health, and relies heavily on NGOs for malaria intervention execution and the private sector for the provision of malaria control commodities. There is a growing network of Community Drug Distributors (CDDs) being established to carry out Integrated Community Case Management for malaria as well as pneumonia and diarrhea, with a focus on reaching children under five (4).

It is a common and life-threatening disease; it threatens Children and pregnant women seriously specially in many tropical and subtropical areas. Had been estimated that, there are currently over 100 countries and territories where there is a risk of malaria transmission, and these are visited by more than 125 million international travelers every year (5).

It considered primarily that, malaria is an infection of the red blood cells, because usually related or focusing on blood transmission causing recurring fever of sudden onset. Malaria caused by Plasmodium falciparum is life threatening and can cause multiple organ damage, coma and death (2).

The prospects for successful project on malaria control and prevention are huge in South Sudan. Nevertheless, strengthening and coordination, infrastructure and human resource and capacity building, monitoring and evaluation are required for the successful of project (6).

Burden of Malaria

The importance of providing strong evidence based estimates of the mortality began with the Global Burden of Disease (7).

In couples of years, malaria accounted for 7% of deaths in children aged less than 5 years globally, and 17% of these deaths in sub-Saharan Africa including South Sudan, where it was considered the leading cause of death in Africa. As a result of the large decreases in malaria mortality in children aged less than 5 years, malaria accounted for just 5% of less than five years deaths globally in 2015 which shows improvement in terms of preventing and monitoring the malaria, and 10% of Children less than five deaths in sub-Saharan Africa, where it is now the fourth highest cause of death (8).

Uncomplicated malaria may degenerate in Children less than five-year-old patients if not properly managed (9).

METHODS

I used data from the National Ministry of Health office of Malaria survey and control. I analysed the trends in Malaria cases and Deaths in Children under five years and above five years old, from the year 2009 up to the Month of May 2015, using the examined cases detection and deaths from the Malaria under five years, and Malaria older the five years old, by the NGOs and the partnership of Malaria Control.

RESULTS

After passing through the data, we found that the cases from the trend increases from the year 2012 to the month of May 2015, but the cases continuously increases every year from the months early April and declining in late October, in the year 2012 it declined from October to the normal and in 2013 raised from May as usual and continued up to September and started declining, and in 2014 raised from May to August and then declined, and in 2015 increased up to May as in the previous year as shown in the (Figures 1 and 2).
Uncomplicated clinically diagnosed among the Children above five years old was about 98,000 cases higher than in Children under five years old and the severe in Children above five years was about 10,000 cases. Malaria rate under five years is stable and is at the rate of 11%, while uncomplicated confirmed rate in children is estimated about 39% and the curative malaria under five years is getting higher from 39% up to 58%, and uncomplicated clinically diagnosed rate in children is decrease from 62% to 55%. Though there is an increase in the trend, still far less than expected cases.

Study limitations
1. Focus was on Malaria among the Children above 5 years and less than five 5 years.
2. The data from a secondary source.

CONCLUSION
There are increases of cases each year comparing the studies from 2012 up to mid of 2015, and some areas has showed improvement, as I mentioned Warap State and Central equatoria in 2013 and in 2014, Central Equatoria has showed great different, though it is a crowded area. Also shows the best facilities that has been used to eradicate the malaria, and also reflecting the qualification of NGOs partners, how best their staff are, in the area of malaria control.

REFERENCES
2. Lukudu DL. Pulmonary tuberculosis case detection in South Sudan. South Sudan Medical Journal, 2012; 5(4); 79-84.