

### SDI Review Form 1.6

Journal Name:	Journal of Advances in Medicine and Medical Research
Manuscript Number:	Ms_JAMMR_48040
Title of the Manuscript:	IMMUNIZATION STATUS OF COHORT OF CHILDREN VACCINATED AGAINST HEPATITIS B VIRUS IN EKITI STATE OVE INTO NATIONAL PROGRAM ON IMMUNIZATION.
Type of the Article	

### General guideline for Peer Review process:

This journal's peer review policy states that <u>NO</u> manuscript should be rejected only on the basis of '<u>lack of Novelty'</u>, provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline)

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### PART 1: Review Comments

	Reviewer's commen	t				
Compulsory REVISION comments	<ol> <li>The Title is k</li> <li>Structure yo Manuscript-4</li> <li>Only use key</li> <li>Line 34 – 40 the person in chronic infer older. Appro contrast, abor (<u>https://www</u></li> <li>Line 49 – 52:</li> </ol>	Dest written as ur Abstract: In text with the s y-words found (The likeliho nfected. The y ction. Approxion out 95% of ad y.cdc.gov/hep	s "Immune Status' ntroduction/Backg ame sub-headings d in #MESH. od that hepatitis B younger a person i imately 90% of info –50% of children i ults recover comp atitis/hbv/bfaq.htm	yround, Aim, M s. will develop f s when infect ected infants w nfected betwe letely and do <u>orCDC AA re</u> e" implied he	Methods, Results, Disc from an acute infection ed with hepatitis B viru will develop chronic in the ages of 1 and 5 not become chronicall <u>fVal=https%3A%2F%2</u> re? An individual nega	eussion, Conclusion. Similarly, your n into a chronic infection depends on the age of us, the greater the chance of developing a fection. The risk goes down as a child gets 5 years will develop chronic hepatitis B. By ly infected.) Fwww.cdc.gov%2Fhepatitis%2Fb%2Fbfaq.htm) ative for HBsAg but positive for anti-HBs either
	<ul> <li>b. Endo UZ. Infection of has been vaccinated previously. Thus, anti-HBs antibody could be positive due to a past infection or past vaccination.</li> <li>c. Line 63 - 68: What was the serological test done? As I had said earlier, an individual negative for HBsAg but positive for anti-HBs either has cleared an infection or has been vaccinated previously. Thus, anti-HBs antibody could be positive due to a past infection or past vaccination</li> <li>7. Line 73 - 74: The phrase is not clear</li> <li>8. What is the Aim of your Study? From your Results and Discussion, it appears the Aim of your Study is to determine the immune-status of cohort of children vaccinated against hepatitis b virus in ekiti state (over ten years after incorporation into national program on immunization).</li> <li>9. Use subheadings in describing your Methodology in the manner me indicate.</li> <li>10. What was the sample-size determined? Show under Methodology the formula used and the calculation done. Was sample-size from previous similar studies used? If yes, what was that sample-size, and provide the reference here in the text.</li> <li>11. Blood collection: From what you list under first part of Results, there should be five tests: HBsAg, HBsAb, HBeAg, HBeAb and HBcAb</li> <li>12. Statistical analysis: Briefly outline here all the statistical-tests done, any software used, and the p-value you set for significance-level</li> <li>13. This Study should not have excluded those aged 1 – 5</li> <li>14. Include the first paragraph of your Results also in your Methodology under the subheading of Study-area and Study-population</li> <li>15. Line 131 – 133: From what you list under Methodology and here, there should be five tests: HBsAg, HBsAb, HBeAg, HBeAb</li> </ul>					
	Table 2: Relationship      Age    group    of	between Resp Hepatitis B	oondents' Age and s surface Antibodies	sex with Hepati	tis B surface Antibodies Statistical test Produce	detection.
	respondents	Neg	Pos	Total	F=value	
	5 - 7.4yrs	(87.3%) (62.9%)	(17.1%) (76.6%)	284 (64.4%)	X <sup>2</sup> =3.413	
	7.5 to 10yrs	( <mark>37.1%)</mark> 394	47	(35.6%) 441		
	Sex	(100.0%) Hepatitis B s (HBsAb)	(100.0%) surface Antibodies	( <u>100.0%)</u> Total	Statistical test P=value	

## Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)

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	Negative	Positive				
female	191 (88.4%)	25 (11.6%)	216 (100.0%)	$v^{2}$ 0.272		
male	203 (90.2%)	22 (9.8%)	225 (100.0%)	P=0.541		
Total	394 (89.3%)	47 (10.7%)	441 (100.0%)			
(Note the correction	I have done on	Age-group of Tab	ble2, and repea	t similarly for gender.	The cross-tabulation should tot	al for Negative and
Positive indicating 10	00% for the Tota	l, and not totalled f	<mark>or the Age-grou</mark>	ps as you have done.)		
<ul> <li>16. Line 176: D</li> <li>17. Line 185 – 1</li> <li>references</li> <li>rate, what is</li> <li>states, besi</li> <li>HBeAB and</li> <li>were HBsA</li> <li>to the vacci</li> <li>more effect</li> <li>40 years of</li> <li>after antibo</li> <li>April 2006).</li> <li>Database o</li> <li>18. Line 220 – 2</li> <li>Methods wit</li> <li>19. Conclusion</li> <li>below.</li> <li>20. Study Limit</li> <li>21. WHO (2018)</li> <li>B prevention</li> <li>within 24 he</li> <li>widespread</li> <li>about 1.3%</li> <li>complete th</li> </ul>	iscuss this under l92: List the rate here. Discuss in s the incidence des various cou HBcAb". Don't g positive till the ne is defined as ive in children a age and to arou dy levels fall be "Hepatitis B im f Systematic Re 223: Who are yo nether you eithe and Recomment ations are conv hether you eithe and Recomment to compared with he primary serie hedule of hepatities to combined with	er Methodology a es experienced in a greater detail. Is of HBV in this age untries and region you find your res e age 10? (Most s an anti-HBs anti and 95 percent of und 75 percent in flow 10 mIU/ml. Le munisation for ne views (2): CD004' u quoting? Beside r include or exclu- ndations: Discuss entionally discus who.int/news-room nends that all infa cidence of chrom s B vaccine. Worl a about 4.7% in th s. In most cases, witis B vaccine, wi vaccine) given at	Iso these countries there not any e-group in you ns? You state is sults very unus vaccines are g body concentre those vaccinate those over 60 ee, Chuanfang ewborn infants 790. doi:10.100 les, the senten ude these grou s alongside that sed under Met n/fact-sheets/d ants receive the ic HBV infection dwide, in 2015 e pre-vaccinate 1 of the follow th the first dos the same time	es, along with the rele other similar studies r State, and how does n your Abstract "All s sual that only 10.7% o jiven in three doses o ration of at least 10 ml ted have protective le years. The protection ; Gong, Yan; Brok, Je of hepatitis B surface 02/14651858.CD00479 ce is not relevant to y p of children. at the WHO till date do hod, and not at the er letail/hepatitis-b The h e hepatitis B vaccine on in children under 5 , the estimated preval ion era. The birth dos ing 2 options is consi e (monovalent) being as the first and third	evant studies, and not just pro- done in Nigeria? If such is the sthis incidence compare with subjects were negative for HB f your subjects were HBsAb po- ver a course of months. A pro- IU/ml in the recipient's serum vels of antibody. This drops for afforded by vaccination is lo sper; Boxall, Elizabeth H; Glue e antigen-positive mothers". D.pub2. PMID 16625613.) our Study, since you do not so bes not recommend routine b and of the Manuscript hepatitis B vaccine is the main as soon as possible after bird years of age at present can be ence of HBV infection in this e should be followed by 2 or idered appropriate: given at birth and the second doses of diphtheria, pertussis	ovide the e vaccine-failure i various Nigerian- isAg, HBeAg, positive yet none otective response . The vaccine is to around 90% at ng lasting even iud, Christian (19 Cochrane state in your ooster dose. See nstay of hepatitis th, preferably be attributed to the age group was 3 doses to d and third s (whooping
cough), and a 4-dose sc with other r	l tetanus – (DTF hedule, where a outine infant va	e) vaccine; or monovalent birt faccines.	h dose is follov	wed by three monova	lent or combined vaccine dos	ses, usually given
The comple Protection I who have c All children countries w may acquire	ete vaccine serie asts at least 20 ompleted the 3 and adolescen where there is lo e the infection a	es induces protec years and is prot dose vaccination ts younger than 1 w or intermediate and they should a	tive antibody l bably lifelong. schedule. 8 years-old an endemicity. In Iso be vaccina	evels in more than 95 Thus, WHO does not in Ind not previously vacco In those settings it is p ted. They include:	% of infants, children and yo recommend booster vaccinat inated should receive the vac ossible that more people in h	ung adults. ion for persons ccine if they live in high-risk groups
<ul> <li>peo</li> <li>peo</li> <li>pers</li> <li>hour</li> </ul>	ple who frequer ple interned in p sons who inject sehold and sex	ntly require blood prisons; drugs; ual contacts of pe	or blood prod	ucts, dialysis patients	s, recipients of solid organ tra	ansplantations;
•		pe	eople with mult	iple sexual partners;		

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	<ul> <li>healthcare workers and others who may be exposed to blood and blood products through their work; and</li> <li>travellers who have not completed their hepatitis B vaccination series, who should be offered the vaccine before leaving for endemic areas.</li> <li>The vaccine has an excellent record of safety and effectiveness. Since 1982, over 1 billion doses of hepatitis B vaccine have been used worldwide. In many countries where between 8–15% of children used to become chronically infected with the hepatitis B virus, vaccination has reduced the rate of chronic infection to less than 1% among immunized children. In 2015, global coverage with the third dose of hepatitis B vaccine reached 84%, and global coverage with the birth dose of hepatitis B vaccine was 39%.</li> </ul>	
Minor REVISION comments	Avoid Font-change in the Manuscript-text Line 136: Table 2, and not Table 3 Remaining minor revision comments are as in the corrected manuscript attached.	
Optional/General comments		

## PART 2:

	Reviewer's comment	Author's comment (if agreed
		highlight that part in the manu
		his/her feedback here)
	(If yes, Kindly please write down the ethical issues here in details)	
Are there ethical issues in this manuscript?		

## **Reviewer Details:**

Name:	Meer Ahmad A. Mydin Meera
Department, University & Country	MAHSA University, Malaysia

ed with reviewer, correct the manuscript and nuscript. It is mandatory that authors should write