

Answers to Frequently Asked Questions on Dengue and the Dengue Vaccine Pediatric Infectious Disease Society of the Philippines 20 February 2018

Updated 03 March 2018

The furor created by the media release on the safety of the dengue vaccine prompted the Pediatric Infectious Disease Society of the Philippines (PIDSP) to issue a response, dated 12 December 2017¹, addressing the concerns of clinicians pertinent to the use of the vaccine. As a supplement to the previously released response, PIDSP drafted this current document to provide guidance to physicians during clinic consultations where issues on dengue and the dengue vaccine are raised.

Frequently Asked Questions on Dengue:

1. How do we prevent dengue infection?

The most important step to reduce the risk of dengue infection is prevention of contact with the mosquito vector. An integrated approach for the control of the mosquito vectors and interruption of human–vector contact is crucial for dengue prevention. This includes a combination of strategies such as environmental management to prevent or minimize vector propagation and human contact, eliminating mosquito habitats in residences and in the community, correct application of insecticides or biological control agents that will target adult mosquitoes or larvae, and use of appropriate measures for individual and household protection.

The Philippine Department of Health (DOH) promotes the "4-S" for dengue prevention which includes the following strategies²

1. Search and Destroy:

Eliminate mosquito larvae breeding sites in your surroundings and cover containers with collection of stagnant water

- 2. Self-Protection Measures.
 - Use mosquito repellent and cover yourself up to avoid mosquito bites
- 3. Seek Early Consultation
- Consult a medical specialist at once for fever and rash of 2 days duration
- 4. Say No to Indiscriminate Fogging
 - Fogging only during outbreaks

2. What is dengue vaccine (Dengvaxia)?

The dengue vaccine, (Dengvaxia®), developed by Sanofi Pasteur, is a live recombinant tetravalent dengue vaccine, based on the yellow fever 17D vaccine strain, and has 4 components, encoding for antigens of the four dengue virus strains. The vaccine is given as a 3 dose series with 6 months interval between doses³. It is the first dengue vaccine licensed, and has been approved by regulatory authorities in 19 countries for use in endemic areas in individuals 9 to 45 years of age.3 It has been introduced in two subnational programs in 2 countries, the Philippines and Brazil targeting about one million individuals. It is also available on the private market in countries where there is a marketing authorization.⁴



3. Will a child get dengue after receiving the dengue vaccine?

NO. The vaccine does not cause dengue infection. Dengue is a febrile illness caused by the bite of an Aedes mosquito carrying the dengue virus.

4. What are the present recommendations for the use of the dengue vaccine?

In the document released by the WHO on 22 December 2017, they recommended "vaccination only in individuals with a documented past dengue infection, either by a diagnostic test or by a documented medical history of past dengue illness." ³

PhilFDA Advisory 2017-318, dated 4 December 2017, directed Sanofi to suspend the sale/distribution/marketing of Dengvaxia and caused the withdrawal of the vaccine in the market pending compliance with the directives of the FDA.⁵

On 10 January 2018, the DOH created a National Expert Panel to provide technical assistance to the DOH Dengue Task Force on scientific/medical concerns related to the dengue vaccine (CYD-TDV). "In view of the sparse information from the clinical trials on the consequences of administration of less than three doses of Dengvaxia, a firm recommendation to complete the schedule of vaccination cannot be given. However, for children with incomplete doses who had been confirmed to have had dengue before Dengvaxia vaccination, completion of doses may be protective."

5. What is the stand of the World Health Organization (WHO) regarding dengue vaccine administration?

The WHO published a position paper on Dengue vaccine last July 2016. This position paper presents a conditional recommendation on the use of the vaccine in areas where dengue is highly endemic. Based on considerations of superior efficacy, safety and duration of protection, trial results and mathematical modelling suggested optimal benefits of vaccination if seroprevalence in the age group targeted was \geq 70%.⁴

In 2017 Sanofi Pasteur re-analyzed the trial data in participants classified as seronegative and seropositive to estimate the long-term safety and efficacy of the vaccine by serostatus prior to vaccination using an in-house diagnostic tool. The following is the WHO interim interpretation of the data:

1. The vaccine significantly protects against hospitalized and severe dengue in seropositive subjects for dengue at time of first vaccination in all age groups studies.⁴

2. The risk for hospitalization and severe dengue is significantly increased among vaccinated subjects who were seronegative at time of first vaccination in all age groups.⁴

3. Pending full review of data, WHO recommends that Dengvaxia is only administered to subjects who are known to have been infected with dengue prior to vaccination.⁴



6. How would you know if your patient has had previous dengue infection?

Most primary dengue infections are mild and subclinical. The laboratory tests available (Dengue PCR, dengue NS1 antigen test, dengue serologic tests) are tests used to confirm dengue infection and to conduct seroprevalence studies among selected populations but are not used to check for individual dengue serostatus prior to vaccination.⁷

- Plaque reduction neutralization test (PRNT) can be used to test for serostatus but this is only done in RITM, is expensive, and turnaround time is 1 month and is not always available. This test is mainly used for research purposes.⁷
- The dengue NS1 IgG ELISA antibody assay used by Sanofi Pasteur to check for serostatus is an in-house test developed specifically for this purpose and is not commercially available.

In the absence of a reliable laboratory test to determine serostatus prior to vaccination, a documented history of previous dengue infection (e.g. hospitalizations, positive dengue tests during confinement or OPD consultation) may be used.

7. If a patient has been given one or two doses of the dengue vaccine, do we continue giving the vaccine?

Participants in the studies on dengue vaccine received 3 doses of the vaccine so there are currently no data on the efficacy or safety of the vaccine in individuals given only one or two doses, either for seronegatives or for seropositives. The long term protective effect of the vaccine in seropositive individuals who received fewer than 3 doses is unknown. It is also not known if the risk of severe disease in seronegative individuals will be determined by the number of vaccine doses they have received. Hence, we do not have sufficient data on the benefits or potential risks of completion or suspension of vaccination in those who were already given one or two doses.³

However, since the vaccine is protective in seropositive individuals, completion of the three doses may be considered in those with documented dengue infection prior to dengue vaccination, as confirmed by an appropriate laboratory test (dengue PCR, dengue NS1 antigen test, or dengue serology), or by a documented medical history of past dengue illness. Those who are known to be seronegative prior to vaccination should not receive further doses. For those with uncertain history of dengue infection or unknown serological status, it is prudent to hold further doses of the vaccine.



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8. What are the possible side effects of the dengue vaccine?

Local and systemic adverse reactions following vaccination with the CYD-TDV (Dengvaxia) are comparable to those recorded for other live attenuated vaccines.⁸ In the clinical trials, these side effects usually happened within the first 2 weeks after vaccination, were generally mild to moderate and resolved rapidly. The reported side effects included the following⁹:

Very common side effects Headache, muscle pain, generally feeling unwell, (may affect > one user in 10) feeling of weakness, injection site pain, fever

Common Side effects (may	Infection	site	reaction,	redness,	bruising
affect up to one user in 10)	(hematom	a), swe	elling and pr	uritus	

Uncommon (may affect up to	Infection of the upper r	espiratory tract, dizziness,
<u>one user in 100)</u>	sore throat, runny nos	se, nausea, skin eruption
	(rash), neck pain,	
	hardening of the skin	at injection site (infection
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As with any vaccine, there is a possibility of an allergic reaction. Serious allergic reaction are rare (may affect up to one in 10,000 people) and may manifest as difficulty breathing, blueness of tongue and lips, rash, swelling of face or throat, low BP causing dizziness or collapse.⁹ If such a reaction occurs, it is usually almost immediately after vaccination. This is why it is important that patients be advised to remain at the clinic for 30 minutes for observation and you should be able to provide immediate medical attention if needed.

Two 17D yellow fever vaccine associated reactions are of theoretical concern in CYD vaccine recipients because some parts of 17D YF vaccine genome had been used as backbone for CYD vaccine. These two are: (1) Yellow Fever Vaccine-Associated Neurologic Disease (YEL-AND) and (2) Yellow fever Vaccine-Associated Viscerotropic Disease (YEL-AVD). They remain theoretical risks because they have never been reported so far in any previous and ongoing dengue studies.

YEL-AVD resembles wild-type yellow fever affecting multiple visceral organs causing organ failure and death in at least 60% of cases.¹⁰ The rate of YEL-AVD is increased in the elderly.¹¹ This condition has been reported in primary vaccinees only, with an average onset of 4 days (range: 0–8 days) after vaccination. Diagnosis can be made by RT-PCR detection of the YF vaccine virus from serum or tissues.¹⁰





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YEL-AND is a rarely fatal serious adverse event reported almost exclusively following primary vaccination. The onset range is 3–28 days following vaccination with the average onset on day 14. Manifestations include meningoencephalitis (most common) due to direct infection of the CNS by the vaccine virus, and GBS and ADEM, which are believed to be autoimmune mediated. CSF should be obtained to test for the presence of YF vaccine virus or YF virus-specific antibodies.¹⁰

Viral tropism, which is the affinity for a specific cell type or tissue, is known to be largely linked with the virus envelope, and in the case of the CYD vaccine viruses, the E gene is inherited from the dengue virus, not yellow fever. The CYD viruses are therefore incapable of expressing the E protein of yellow fever 17D (backbone of the vaccine) and are consequently unlikely to display the same tropism and risk for viscerotropism disease.^{12,13}

Antibody-dependent enhancement (ADE) is a phenomenon that may occur when nonneutralizing antibodies produced after a previous dengue infection or dengue vaccination results in more severe disease with a second exposure to a dengue virus of another serotype.¹⁴ In a vaccinated person, ADE may occur after exposure to wild type dengue infection if there is inadequate antibody response or waning antibody response to any of the dengue virus serotypes. Although ADE is a plausible explanation for increased severity of secondary dengue cases, it still needs definitive proof in-vivo. The role of other factors influencing severity, including T cells and dendritic cells, and mechanisms of viral entry, among others, are being investigated.^{15,16}

The risks of the study vaccine to a pregnant woman, an unborn or nursing baby are unknown at this time. Therefore pregnant or breastfeeding women (including adolescents) should not receive the dengue vaccine.⁸

9. What is an Adverse Event Following Immunization (AEFI), how is it reported and what steps are important in the assessment of a child who develop AEFI?Perhaps

Adverse Event Following Immunization (AEFI) is defined as "any untoward medical occurrence which follows immunization and which does not necessarily have a causal relationship with the usage of the vaccine. The adverse event may be any unfavorable or unintended sign, abnormal laboratory finding, symptom or disease."¹⁷

The following AEFIs should be reported by the healthcare provider:¹⁸

- Serious AEFIs (results in death, is life-threatening, requires in-patient hospitalization or prolonged hospitalization, results in persistent or significant disability/incapacity, is a congenital anomaly/birth defect, or requires intervention to prevent permanent impairment or damage)
- Signals and events associated with a newly introduced vaccine
- Significant events of unexplained cause occurring within 30 days of vaccination
- Events causing significant parental or community concern



 Swelling, redness, soreness at the injection site if it lasts for more than 3 days or swelling extends beyond nearest joint.
 Reporting can be done using the AEFI Case Investigation Form. (Pls refer to Appendix I).

The health provider should take a complete clinical history including all relevant medical events that occurred following vaccination, the patient's past medical history, family history, immunization history, and social and environmental history. A thorough physical examination should also be taken. This will help the health provider determine whether the side effect, or AEFI, could have been caused by the vaccine or may just be coincidental to the administration of the vaccine. The health provider may prescribe medications based on the findings or may decide to request for specific laboratory tests that will help determine the cause for the patient's symptoms. If the side effect is assessed by the health provider to be serious or severe, admission to the hospital may be warranted.

10. What do you advise the parents of patients who develop side effects post vaccination?

Patients and their parents should be advised as to what side effects may be expected after vaccination (*pls .refer to FAQ no. 8*). All patients who develop side effects post vaccination regardless of severity should consult their health provider. Immediately after vaccination, symptomatic management of local reactions such as compresses for local swelling or pain at injection site and paracetamol for fever or pain may be advised. Additional tests and medical management may be recommended based on the signs and symptoms that develop.

11. What is the definition of "severe dengue" used in the study?

IDMC (Independent data monitoring committee) classified dengue cases as severe. Severity of dengue episodes was assessed using the 1997 WHO criteria for defining dengue hemorrhagic fever (DHF)¹⁹ since clinicians are more familiar with this definition:

The following must be present:

- Fever, or history of acute fever lasting 2-7 days occasionally biphasic
- Hemorrhagic tendencies, evidenced by at least one of the following: Positive tourniquet test
 - Petechiae, ecchymosis, or purpura

Bleeding from mucosa, gastrointestinal tract, injection sites or other locations

Hematemesis or melena

• Thrombocytopenia (100,000/mm³ or less)



• Evidence of plasma leakage due to increased vascular permeability manifest by at least one of the following:

A rise in haematocrit \geq 20% above average for age, sex and population

A drop in haematocrit following volume-replacement treatment \geq 20% of baseline

Signs of plasma leakage i.e. pleural effusion, ascites, and hypoproteinemia

Dengue Shock Syndrome(DSS)¹⁹: for a case of DSS, all four criteria for DHF must be met, in addition to evidence of circulatory failure manifested by: Rapid and weak pulse and

Narrow pulse pressure (<20 mm Hg or 2.7 kPa)

Or manifested by Hypotension for age and

Cold clammy skin and restlessness

• In the clinical trials, for those aged 9 years and above, the cases of severe dengue that occurred in initially seronegative vaccine recipients were categorized by the company as Dengue Hemorrhagic Fever Grades I and II and did not lead to shock, severe bleeding or death.³

12. What is the absolute risk of severe dengue in the vaccinated and unvaccinated trial populations by serostatus?

The risk depends on the yearly incidence of dengue. Based on the incidence in the epidemiological settings of the trials, for persons aged 9 years and above, the new analysis indicates that the 5-year risk of severe dengue in vaccinated seronegative persons is 4 per 1,000 seronegative persons vaccinated. This means that there are about 2 additional severe dengue cases per 1000 seronegative persons compared to the unvaccinated seronegative persons where the risk is 1.7 per 1,000 seronegative persons. However, the risk of severe dengue in vaccinated seronegative persons is similar to the risk of severe dengue in unvaccinated seropositive persons (4.8 per 1,000 seropositive persons unvaccinated). In addition, there is no evidence that clinical manifestations of disease were more severe in vaccinated seronegative persons compared to unvaccinated seropositive persons. The risk of severe dengue in vaccinated seropositive persons is the lowest where it is less than 1 per 1,000 seropositive persons vaccinated. In high-burden countries where majority of vaccine recipients are expected to be seropositive at vaccination, the risk of severe dengue may be reduced for the entire vaccinated population, overall, compared to a nonvaccinated population.³



13. How do you report patients who develop adverse events following dengue vaccination?

Any suspected adverse reaction following the use of dengvaxia should be reported in accordance with the national spontaneous reporting system to the Philippine Food and Drug Administration:²⁰

email address: <u>adr@fda.gov.ph</u> FDA trunkline +632-165-332

Or to

Sanofi Philippines Pharmocovigilance Unit Telephone: +632 859555 / email: <u>PV.Philippines@sanofi.com</u> 21F One World Place Corporate Offices 32nd Street, Bonifacio Global City Taguig City 1634, Philippines

When reporting, it is important to provide as much information as possible, including information about medical history, any concomitant medication, onset of symptoms and treatment dates, product name and batch details.

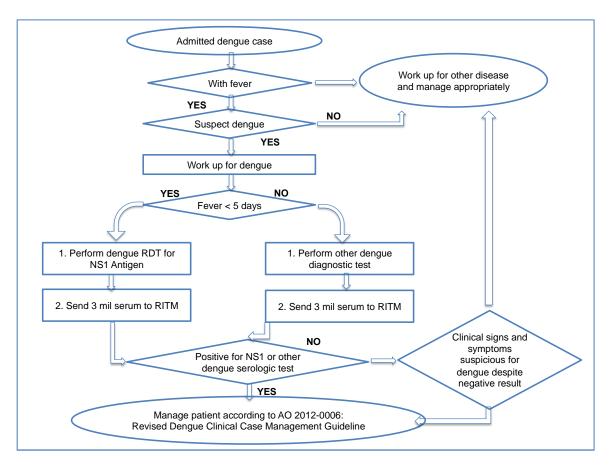
14. What do you do with patients who were vaccinated with at least 1 dose of Dengue vaccine who develop fever?

The DOH-Epidemiology Bureau launched an Enhanced Dengvaxia Surveillance²¹ following the release of the new findings on the dengue vaccine by Sanofi. Pertinent information contained in this surveillance is as follows:

- Establish a Dengvaxia Surveillance in all hospitals and immediately report all vaccinated cases fulfilling the Dengvaxia AE Surveillance Case Definition:
 - Case Definition:
 - An individual who received at least one dose of Dengvaxia who:
 - Became ill and was admitted to a health facility for any reason or
 - Died for any reason
- Case Notification applies to the following: any patient (regardless of age or address), who is admitted (for any reason) and vaccinated with Dengvaxia.
 - For such cases, the DOH should be informed immediately (NCR: 0917-829-0007 / 535-1488)
 - Needed information are as follows: name, age, sex, municipality or city (and province), hospital where the patient is admitted, date admitted, admitting diagnosis, and status (whether still admitted, discharged alive, or died)



• The surveillance uses the following algorithm for the laboratory confirmation of dengue in admitted vaccinees with fever:





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APPENDIX I: AEFI CASE INVESTIGATION FORM

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ace (s) where con	cerned vaccine was used)
YES/NO/NA*	Remarks
re-filled syringes	Other
ime locality -sam	e or different place)
12	
) dave2	
uays:	If YES, specify date of last trainin
rving practice)	
YES/NO	Remarks
YES/NO	
YES/NO Other, specify	
	1



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				Invo-41		ion Form	-			Version 201
	-			Investig	_					4/4
VI. VACCINE DETAIL	-	ccines provi	ded at the	site linked	to	AEFI on th	e correspor	nding day)		
Number of recipients im- munized for each antigen	Vaccine Name									
at the session site. Attach record (s) if available	Total Doses Given				T					
NC	TE: Provide	explanatior	n for each	YES answ	er	s on the fo	ollowing:			YES/NO/
a) When was the patient in	mmunized? (T	ick box below)							
Within the first v	accinations of	the session	U Within th	ne last vaccir	nat	tions of the	session 🗆	Unknown		
Within the first feedback	ew doses of the	e vial adminis	tered 🗆 🛛	Within the las	st o	doses of the	vial adminis	stered 🗆 U	nknown	
b) Was the recommendati	on for use of t	his vaccine	not followe	əd?						
c) Based on the investigat	ion, does the	vaccine (ing	gredients)	administere	ed	could have	been unste	erile?		
 d) Based on the investigat abnormal at the time of ad 		vaccine's ph	iysical con	dition (e.g.	co	olor, turbidit	y, foreign s	ubstances	etc.) was	
e) Based on the investigat product, wrong diluen						reparation	by the vaco	inator (e.g.	., wrong	
P ,		3, 1, 1,		3,						
f) Based on the investigati storage and/or immur			accine ha	andling? (e.	g.	Break in c	old chain du	uring transp	oort,	
g) Based on the investigat administration, wrong							ose, site or	route of		
h) Number of OTHER reci	pients immun	ized from the	e concerne	ed vaccine v	via	l/ampule				
i) Number of OTHER recip										
j) Number of OTHER recip locations:	pients immuni:				avi	ing the san	ne batch nu	mber in oth	ier	
k) Is this case a part of a c										
If yes, how many other	cases have be	en detected	in the clu	ster?						
a. Did all the cases in	the cluster re	ceive vaccin	e from the	e same vial?	?					
b. If No, Number of vi		e cluster (en	ter details	separately))					
VII. COMMUNITY INVES	TIGATION									
Any known similar events a. If YES, Describe:	reported rece	ntly in the lo	cality/com	munity?		□ YES	□ NO	□ UNK	ζ.	
b. How many events/	episodes?									
Of those affected, how ma	iny are:	Vaccinated		Not vaccina	teo	d b	🗆 Un	known		
Other significant findings i	n the commur	nity								
VIII. CAUSALITY ASSES	SMENT		FIC		(RAEFIC	Da	ate Classifie	ed:	
[A1] Vaccine product-r	elated reactio	n				[A4] Immu	nization an	kiety-relate	d reaction	
[A2] Vaccine quality de	efect-related r	eaction				[B1] Consi	stent tempo	oral relation	ship but in	sufficient
[A3] Immunization error	or-related read	ction				evide	nce			
c error in vaccin	e handling						cting trends sistency with		ency and	
error in vaccin	e prescribing	or non-ahere	ence to			[C1] Co-in	cidental - U	nderlying e	merging co	ondition (s
recommendati	ons for use					or ex	posure to e	xternal fact	ors/someth	ning
error in admini	stration					other	than vaccir	ne		
Other, specify						[D] Unclas	sifiable/Inac	dequate inf	ormation	