

Sanofi Pasteur: The Dengue Vaccine Dilemma

Definition
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- Dengue (dengue fever) is a viral illness caused by any one of four closely related mosquito-borne viruses. These viruses are related to the viruses that cause West Nile fever and yellow fever.

Application in medicine
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- Vaccine efficacy against confirmed dengue pooled across both trials was 58.2% in the year following the primary series (per protocol analysis). During this initial time period, pooled vaccine efficacy against severe dengue was 70.5%. Efficacy varied by serotype: vaccine efficacy was higher against serotypes 2 and 4 than for serotypes 1 and 3. Vaccine efficacy also varied by age at vaccination and serostatus at baseline (i.e., previous exposure to dengue prior to vaccination).

Pros and cons
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- Vaccination significantly reduced the incidence of virologically confirmed dengue and showed acceptable safety and reactogenicity profiles, findings that were consistent with earlier results.

Conclusion
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Definition

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- Dengue (pronounced DENgee) fever is a painful, debilitating mosquito-borne disease caused by any one of four closely related dengue viruses. These viruses are related to the viruses that cause West Nile infection and yellow fever.

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Application in medicine

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- Vaccine efficacy against confirmed dengue pooled across both trials was 59.2% in the year following the primary series (per protocol analysis). During this initial time period, pooled vaccine efficacy against severe dengue was 79.1%. Efficacy varied by serotype: vaccine efficacy was higher against serotypes 3 and 4 than for serotypes 1 and 2. Vaccine efficacy also varied by age at vaccination and serostatus at baseline (i.e., previous exposure to dengue prior to vaccination).

Pros and cons

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Conclusion

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In conclusion, available data from the efficacy and long-term follow-up surveillance periods across three studies in Asian-Pacific and Latin American tropical and subtropical regions in which dengue is endemic showed a reduction in dengue disease in the efficacy surveillance phase among children who received the vaccine. In addition, there was a lower risk of hospitalization for dengue overall for up to 2 years after completion of the three-dose vaccination schedule among children between the ages of 9 and 16 years.

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Issue applied in Ecuador

- It has not been tested in Ecuador yet

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Conclusion

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The image features a large, white, thin-lined circle centered on a background of soft, out-of-focus bokeh lights in shades of green, yellow, and orange. The background transitions from light green at the top to a deep blue at the bottom. The text 'Thecasesolutions.com' is centered within the white circle in a bold, black, sans-serif font.

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A large white circle is centered on the page, containing the text 'Thecasesolutions.com'. The background is a colorful bokeh effect with soft, out-of-focus circles in shades of green, yellow, orange, and purple.

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