







WHO-UNICEF-UNFPA joint meeting Copenhagen 27 Nov – 1 Dec 2023

Programmatic Suitability for Prequalification (PSPQ)

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RATIONALE FOR STABLISHMENT OF PSPQ

- Vaccines produced in higher income countries made available to emerging countries
- Such vaccines show characteristics that while being acceptable for industrialized countries are not always suitable for emerging markets.

Examples:

- A pneumococcal vaccine filled in non-autodisable pre-filled syringes
- A rotavirus vaccine with poor stability in case of cold chain break









Objective of PSPQ

 Judge the programmatic suitability against defined mandatory, critical and preferred characteristics

Benefits of PSPQ

- Give clear directions to vaccine industry before submission
- Reduce decision making time for vaccines that are not in compliance with PSPQ characteristics









PROCESS OF REVIEWING THE CHARACTERISTICS OF CANDIDATE VACCINES

- > PQ dossiers are screened for completeness and compliance with the required format and contents
- ➤ And also, for compliance with programmatic suitability criteria.
 - If mandatory characteristics are not met the dossier is rejected.
 - If the PQ assessor identifies a deviation from the critical characteristics or finds a unique characteristic, the product will be referred to the PSPQ Standing Committee (PSPQ SC) for independent review







The PSPQ Standing Committee (SC)

- Is an independent advisory committee to the WHO PQ experts on immunization programmes, regulatory and policy experience.
- Aligned to Immunization Practices Advisory Committee (IPAC).
- Review, discussion and recommendation-making.
- The maximum allowed time for review by the PSPQ Standing Committee is 90 days.









Types of vaccine characteristics

Mandatory

Compliance is compulsory

Critical

- Compliance is compulsory
- Deviations in vaccine characteristics will be reviewed by the PSPQ SC

Preferred

- Not compulsory
- Reflect programmatic preferences

Unique & innovative

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- There is no guidance document developed
- Will be referred to the PSPQ SC







Mandatory characteristics

- Anti-microbial preservative required in ready to use vaccines containing more that two-doses
- Thermo-stability. The vaccine or any component presented for PQ should not required storage at less than -20°C
- Dose volume should not be more that 1 ml/per dose for children > 5 years.
- Vaccine presented should not require an intravenous route of administration











Critical characteristics (1)

- The vaccine should fit into currently commonly used schedules of **vaccination visits**.
- Oral vaccines should be ready to use
- Thermo-stability/ storage: Vaccines submitted for prequalification should not require storage below +2°C for longer than 6 months
- Vaccine Vial Monitor (VVM): vaccine submitted should present data confirming that it has a thermostability profile to apply VVM.









Critical characteristics (2)

- Packaging material that can be disposed of appropriately in the field using standard procedures
- Vaccines in pre-filled injection devices should have an autodisable feature
- Vaccine dosed in standardized volumes (e.g. 1, 0.5, 0.25 ml)











Preferred characteristics

- Antigenic stability after reconstitution
- Small packed volume
- Small and standardized dose volumes for oral vaccines
- Minimize number of doses that cannot be reused in subsequent sessions once the container is open
- Doses per primary container:
 ≤10 doses per vial in routine setting
 ≥10 doses per vial in campaign setting

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Unique or innovative characteristics

Examples:

- Nano-patches
- Nasal aerosols
- Micro-needle application

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"Assessing the programmatic suitability of vaccine candidates for WHO prequalification"



https://www.who.int/publicati ons/i/item/WHO-IVB-14.10

THANK YOU

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