

S3 Table. Surveillance system functions (main themes and *emerging sub-themes*)

| CORE FUNCTIONS | SUPPORT FUNCTIONS | ATTRIBUTE FUNCTIONS |
|--|--|-------------------------------|
| 1) Case detection | 1) Standards and guidelines | 1) Simplicity |
| 2) Case registration | 2) Supervision (<i>Strengthened implementation of surveillance systems; Utilisation of up-to-date information; Identification of correct reporting channels</i>) | 2) Acceptability |
| 3) Case confirmation (<i>Improved specimen handling; Strengthened laboratory support</i>) | | 3) Stability |
| 4) Reporting (<i>Improved reporting quality; Adequate reporting forms provision</i>) | 3) Training (<i>Improved performance of the surveillance system; Improved surveillance data quality; Enhanced knowledge on surveillance systems</i>) | 4) Flexibility |
| 5) Data analysis (<i>Increased surveillance performance monitoring; Improved data accuracy</i>) | 4) Resources (<i>Financial resources; Human resources; Technical, material and logistical resources; Equipment and infrastructure</i>) | 5) Usefulness |
| 6) Feedback (<i>Improved health workers' attitudes; Enhanced feedback from higher to lower levels</i>) | 5) Coordination | 6) Data quality |
| 7) Outbreak preparedness | | 7) Timeliness |
| 8) Response | | 8) Completeness |
| 9) Evaluation | | 9) Representativeness |
| | | 10) Sensitivity |
| | | 11) Predictive value positive |