# Annex 2: Abstract submission template (to be uploaded to the submission portal)

**ABSTRACT SUBMISSION TEMPLATE**

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| Title of the abstract | Twelve Months Measure of Quality Management Systems Implementation in Public Laboratories; A Sustainable Approach to Health System Strengthening in Lagos State, Nigeria. |
| Conference session | □ Stream A. Responsive National Evaluation Systems   * □ Stream B. Inclusive National Evaluation Systems   □ Stream C. Future Driven Systems and Approaches |
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| Preferred format: | □ Formal presentation (maximum 10 minutes)  □ Participation in a panel discussion where the experience can be shared  □ Participation in an interactive session where the example can be shared, without a formal presentation  □ Other (please specify) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| I will need to apply for bursary support, if selected. | □ Yes  □ No |
| Language to be used for presentation | **□ English** □ French □ Spanish □ Chinese |

**Abstract Text (max. 500 words)**

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| **Background:** The effectiveness of Quality Management Systems (QMS) in public medical laboratories is crucial to ensure quality and reliable testing outcomes for quality healthcare. However, lack or inadequate quality management systems can compromise testing quality, reliability, and efficiency, impacting patient care and health systems. This research aims to document efforts to institutionalize robust QMS in ten public medical Laboratories, fostering health system strengthening over a twelve-month period, with the aim of achieving a minimum of 2 Stars WHO-AFRO rating at external audit.  **Method:** A pair T-test design was used to assess QMS interventions in ten of 28 public secondary laboratories in Lagos State. These facilities were randomly selected using non-probability measures over 12 months from November 2022 to October 2023. The study involved resource allocation, training sessions to build the capacity of the laboratory staff and ensure peer learning, mentoring support, and external audits by the same certified auditors and mentors using the WHO-AFRO SLIPTA checklist 2015 with a grading system ranging from 0 stars, 1 star, 2 stars, 3 stars, 4 stars, and 5 stars. The data collected included baseline and post-intervention scores, analyzed using descriptive statistics and baseline compared with follow-up audit performance.  **Result:** The 12-month implementation of laboratory Quality Management Systems (QMS) in 10 Lagos State's public secondary health facilities revealed substantial progress. Almost all the 10 Medical laboratories in the study had a baseline rating of 0 star, except General Hospital Ikorodu with a baseline rating of 1 star. Remarkably, a good proportion of health facilities (60%) demonstrated commendable QMS improvement in Lagos Island Maternity Hospital, Mainland Hospital Yaba, General Hospital Lagos, General Hospital Onikan, General Hospital Gbagada, and General Hospital Ikorodu achieving an important milestone of 3 stars WHO-AFRO Rating each. In meeting the target, moderate improvements were observed in 20% of the laboratories (General Hospital Isolo and General Hospital Randle) that attained a 2-Stars WHO-AFRO Rating each. However, the remaining 20% of the health facilities (General Hospital Badagry and General Hospital Epe) achieved minimal improvements, securing a 1 Star WHO-AFRO rating each.  **Conclusion:** Overall, while a higher proportion (80%) of the health facilities demonstrated positive strides in laboratory QMS implementation, further support remains crucial for comprehensive enhancements across all 28 secondary public laboratories in Lagos State. The study reveals that a government-led QMS implementation drives a more sustainable culture of QMS in medical laboratories, which was shown in the outcome of the piloted 10 health facilities. It is safe to conclude that the 12 months of QMS outcomes across the 10 facilities indicate a sustainable culture of QMS in public secondary Medical Laboratories and the possibility of extending the same QMS interventions to the remaining 18 health facilities in Lagos State. |