

Measles and Rubella National Reference Laboratory
Check-list for WHO Accreditation
Section 1: General Review & Overall Findings

Dates of Review:	01/01/2017 – 31/12/2017	On-site / Desk Review	Accreditation for calendar year: 2019
Name of Laboratory:	Serology (Measles, Rubella and Rotavirus Groups) Laboratory		
	Richard Lugar Center for Public Health Research of National Center for Disease Control and Public Health		
Address:	16 Kakheti Highway, Tbilisi 0158		
		Country	Georgia
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Head of Institute:	Amiran Gamkrelidze	Head of Department:	Gvantsa Chanturia
Head of Measles and Rubella Laboratory:	Nazibrola Chitadze		
Technical Supervisor:			
Number of laboratories under supervision:			
Name of Reviewer(s):	Dr. Myriam Ben Mamou & Dovile Videbaek, WHO EURO		
Name of National Accreditation Authority (if appropriate) and current accreditation status from this authority (<i>e.g. ISO15189 or other, provide documentation</i>):			
ANAB - ISO15189 (please see attachment)			

Summary of Accreditation Review

To be completed by the assessor

Recommendations (check one):

☒ **Accredit:** Laboratory meets all criteria

Measles:

- ☒ Serology
- ☐ Detection RT-PCR/RT-qPCR
- ☐ Sequencing
- ☐ Cell Culture
- ☐ Measles testing not done

Rubella:

- ☒ Serology
- ☐ Detection RT-PCR/RT-qPCR
- ☐ Sequencing
- ☐ Cell Culture
- ☐ Rubella testing not done

☐ **Provisionally accredit:** Laboratory passed the most recent proficiency test, but needs to strengthen one or more of the remaining criteria (check off relevant criteria):

Measles:

- ☐ Serology
- ☐ Detection RT-PCR/RT-qPCR
- ☐ Sequencing
- ☐ Cell Culture
- ☐ Measles testing not done

Rubella:

- ☐ Serology
- ☐ Detection RT-PCR/RT-qPCR
- ☐ Sequencing
- ☐ Cell Culture
- ☐ Rubella testing not done

☐ **Do not accredit:** Laboratory did not pass the most recent proficiency test and/or did not meet other performance indicators.

Measles:

- ☐ Serology
- ☐ Detection RT-PCR/RT-qPCR
- ☐ Sequencing
- ☐ Cell Culture
- ☐ Measles testing not done

Rubella:

- ☐ Serology
- ☐ Detection RT-PCR/RT-qPCR
- ☐ Sequencing
- ☐ Cell Culture
- ☐ Rubella testing not done

Main General Findings:

Findings:

1.	Measles and rubella IgM test results are reported by the laboratory to the surveillance system within 4 days for $\geq 80\%$ of specimens:	Measles: Rubella:	100% 100%
2.	IgM tests are performed on at least 50 specimens annually:	Measles: Rubella:	160 151
3.	The laboratory reports to MRLDMS and/or to CISID monthly (WHO Regional Office)	Completeness: Timeliness:	100% 17%
4.	Internal quality control (QC) procedures for serology and molecular diagnostics are implemented:		
5.	The accuracy of IgM detection is $\geq 90\%$ (49M+45R samples)	Measles: Rubella:	100% 100%
6.	Score on most recent WHO Serology proficiency test is $\geq 90\%$: PT panel number: 01701 Date reported: 06/12/2017	Measles: Rubella:	100% 100%
7.	Performance on most recent WHO Molecular EQA (if appropriate) is passed (P) /re-test (R), provisionally passed/fail (F) Panel for measles: Date reported: Panel for rubella: Date reported:	Measles Mol detection: Measles Sequencing: Rubella Mol detection: Rubella Sequencing:	NA
8.	Virus genotyping (if performed) is completed AND data reported to WHO through MeaNS or RubeNS within 2 months of receipt of specimens, for $\geq 80\%$ of the specimens appropriate for genetic analysis:		NA
9.	Score from on-site review of laboratory operating procedures and practices is $\geq 80\%$:		

Key accreditation criteria

- 3- The laboratory should report data to WHO in a timely manner (80% at least).
- 7- It is recommended to participate in the next round of molecular EQA (RT-PCR component).

Conclusion

- Excellent performance for serology.