

**WHO Meeting of Mid-term Review of
the RSV Surveillance Pilot based on
GIRS**

**RSV surveillance methods,
laboratory aspects**

Washington D.C 18-20, December 2017

Laboratory information

- Questions responded by 13 countries.

Argentina, Australia, Brazil, Chile,

Cote d'Ivoire, Egypt, India, Mongolia,

Mozambique, Russia, South Africa,

Thailand and the UK.

12 of them had data entered on FluMart by

Dec 8th 2017.

Implementation date of Pilot testing n=12

January 2017	April	May	August
8 (67%)	1 (8%)	2 (17%)	1 (8%)

Information provided

- All labs have RSV laboratory SOP available.
- Number of laboratory staff participating in the pilot 3-10.

Information provided

- Transport of specimens

Adequate, refrigerated, frozen.

Weekly.

- Specimens submission.

Adequate for most all the labs.

- Data collection forms submitted

Adequate for most all the labs.

Type of specimens submitted

NP swabs	Combined nasal/throat swabs	NPA	Throat swabs	Nasal swabs	Traqueal aspirates
7	6	4	3	3	2

Testing algorithm

Sequential singleplex (RSV & Influenza)	Multiplex PCR
9 (69%)	4 (31%)

Testing assay

CDC	Commercial	In-house
9 (69%)	2(15.5%)	2 (15.5%)
	Fast track dg Amplisense	

Extraction methods

Qiagen kits	5
MagNA Pure	4
Nuclisense Easy Mag	2
Mag Max	1
Guanidin thiocyanate extraction	1

Amplification platforms

Equipment	Labs
ABI 7500/ 7500 FAST	9
ABI Step One	3
Rotor Gene	2
Light Cycler 480	1

Typing of RSV positive samples

No	Yes	In progress
7 (54%)	5(38%)	1 (8%)

Sequencing of RSV positive samples

No	For selected samples	Yes	In progress
6 (46%)	4 (30%)	2 (16%)	1 (8%)

Reporting of RSV results to sentinel sites

Weekly	Up to 72 hours	Monthly
8 (61%)	4 (31%)	1 (8%)

Adequacy of communication with sentinel sites

Good	Fair	Needs improvement
9 (75%)	1 (8%)	2 (17%)

Information provided

- All labs have responsible staff assigned for reporting results to FluMart
- No issues with staff acceptance of integration of RSV testing.

Impact on influenza surveillance

- Limited or no negative impact
- Enhanced influenza surveillance
- Sustainability
- Consumibles and reagents costs

Laboratory challenges

- Lab costs for sustainability
- Implementation of RSV subtyping, multiplex PCR, sequencing.
- Storage facilities
- Training
- Access to FluMart

THANK YOU!!