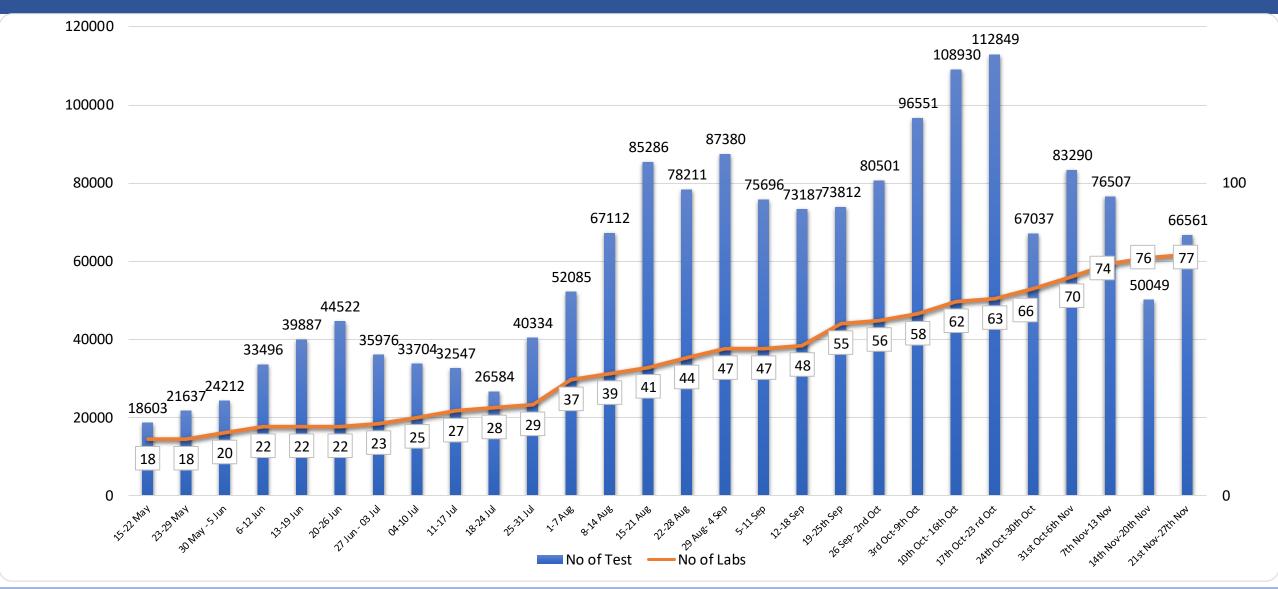
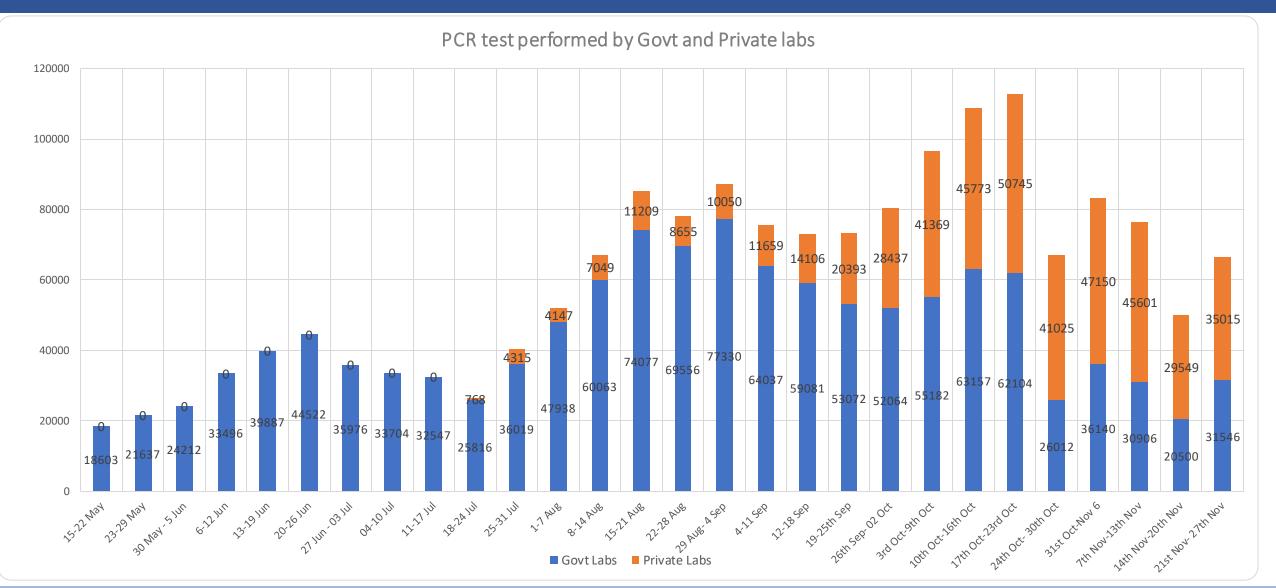
Covid-19 Response Updates from NPHL

Dr. Runa Jha Director NPHL

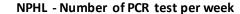
TOTAL NUMBER OF PCR TEST PERFORMED PER WEEK BY DESIGNATED COVID-19

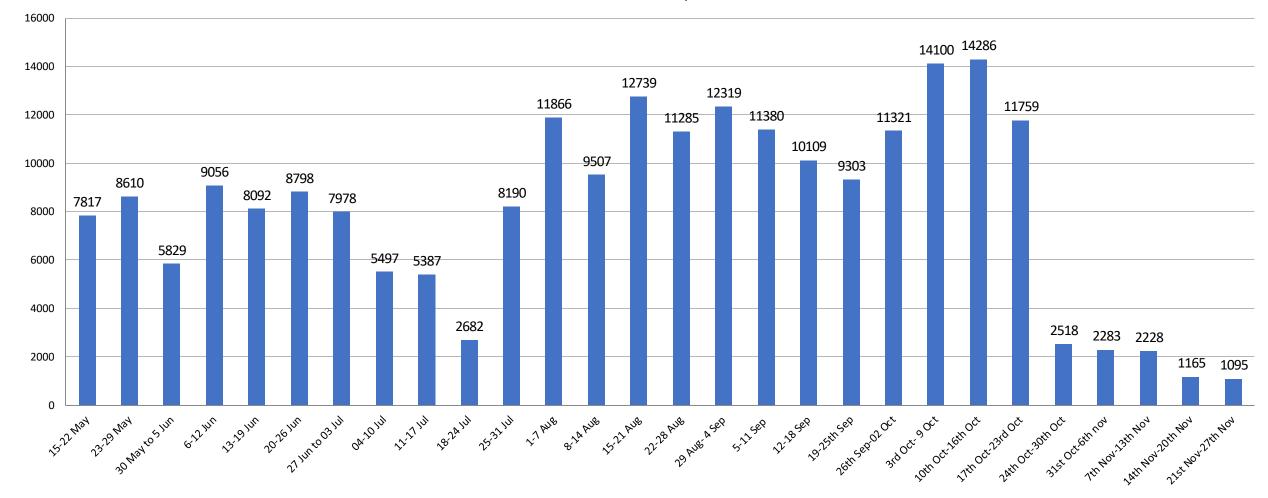


TOTAL NUMBER OF PCR TEST PERFORMED PER WEEK BY LABS (GOVT / Private)



TOTAL NUMBER OF PCR TEST PERFORMED PER WEEK BY NPHL





World Health Organization External Quality Assessment Programme for the Detection of Influenza Viruses by RT-PCR

Panel 10 (2020) --- Individual Report (Final)

| Your lab code: | 275 | |
|-------------------------------|-------------------------------------|--|
| Date panel sent: (di/mm/yzyy) | 13/06/2020 | |
| Date panel received: | 31/08/2020 | |
| Dose results reported: | 11/09/2020 | |
| Turn-around time (days): | 11 (Received after dispatch period) | |

| Sample Intended result | | Your result | Remarks # | |
|------------------------|-----------------------|--|-----------|--|
| V03-2020 | Influenza A(H2) | Influenza A(H7) | | |
| V02-2020 | Influenza A(III)pdm09 | Jeffnensi A(III.)ptim09 | - | |
| V03-2020 | Influenza B | Influenza D | | |
| V04-2020 | Influenza.A(III) | Influenza A(BIS) | | |
| V05-2020 | Influenza II | Influenza It | | |
| V06-2020 | Influenza A(EF) | Influenza A unsubsypositie [Influenza A positive, 139 not wored] | | |
| V07-2020 | Influenza A(H5) | Influenza A(H5) | | |
| V08-2020 | Influenza A(ED) | Influence A(IO) | | |
| V09-2020 | Negative | Negative | | |
| V10-2020 | Influenza A(III5) | Influenza A(H5) | | |

OPTIONAL: Genotypic/Phenotypic Antiviral Susceptibility Testing

| Sample | Results | Genetypic testing | | Phenotypic testing | | 8 |
|--|------------|--|--|---------------------------|----------------------|---------|
| | | Amino acid substitution* (Nucleotide change detected) | Associated with (highly) reduced susceptibility | Osoltamivir | Zanamivir | Remarks |
| A(H1) mám09 NAB01G-2020 NAB01P-2020 | Intended | Mixture of wild type and H275Y (C823T) | Yes | Highly reduced inhibition | Normal inhibition | |
| | Submitted. | 4 | 14 | | | |
| A/H11mim02 NAI02G-2020 NAI02P-2020 | Intended | NA- no mutation PA-DST* | No | Normal inhibition | Normal inhibition | |
| | Submitted | 1/4 | 772 | | | 1 |
| B (Victoria) NAB03G-2020 NAB03P-2020 | Intended | Wildsype | Nu | Normal inhibition | Normal inhibition | |
| | Submitted | | | | | l" |

Residue position in N1 reprantes dans emphoring, (Delv results on NA gene are second. Results on other genes are for educational propose.)

- ◆ The assessment criteria for norabs are listed as follows. No norack will be given for correct results.

- Palse positive results: Reporting 'Positive' results on negative samples.
- Innerver NAI managel Niky toxing totals:
- (ii) feverni gescrypic modu
- (iii) Decement phone typic results

(ii) Benefict subtyping (Recognizate [for measure) in Bentra A visor complex, an "entaltyped" HA result in considered incorner)

False regative results: Reporting "Negative" results on positive samples if the corresponding typing or satetyping assets were performed

Microbiology Division, Public Health Laboratory Services Branch, CHP, DH

External Quality Assessment Programme (EQAP)

The National Influenza Centre (NIC) at NPHL has participated and passed the WHO External Quality Assessment Programme (EQAP) for the Detection of Influenza Viruses by RT-PCR

proficiency test panel 19 (2020).

Hong Kong (27th Nov 2020)

Sample contains FA-135T moration associated with reduced inhibition to Balancein

Quality Assurance (Proficiency Test) Panels

- Re-testing strategy
- Distribution of Proficiency Test (PT)
 panels to all the 77 designated
 COVID-19 laboratories across the
 country (with WHO support)



Trainings (Weekly Virtual sessions)

'Quality Implementation'

'Experience sharing on laboratory aspect for COVID-19 response'

Mechi Hospital, Kankai Municipality Hospital, Rapti Academy of Health Sciences (RAHS) and Bharatpur Hospital COVID-19 Diagnostic Laboratory

Participants from different laboratories discussed their challenges and the WHO consultant and NPHL resource person provided recommendations to address the challenges.

One on one interaction with COVID-19 labs:

Troubleshooting the issues identified in quality assurance program with support from WHO provided technical support for resolution of quality issues.



Training (Onsite)

Training on Biosafety-Biosecurity and documentation in COVID-19 labs

- Completed training in Lumbini Province
- Ongoing Training at Province 2, Bagmati
- Public as well as private labs participated





Reagent/kit validation

"High Top" Antigen Kit verified and approved

 iAMP (Atilla Biosystem, USA) & Vivacheck antigen kit received for verification

Hands on training at NPHL

One week refresher training to Microbiologist of Bardibas lab completed

Three week training for pathologist of Mahakali Hospital ongoing

Thank you