

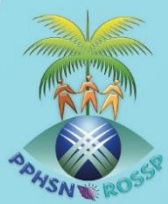


PPHSN LabNet Catalogue

2022 EDITION
updated 3rd March 2023



Compiled by SPC PHD Laboratory Strengthening Programme





Executive Summary:

The LabNet Catalogue was developed in 2015 through a culmination of ongoing collaborative work of the Laboratory Strengthening Team within SPC Public Health Division, PIHOA, Laboratory Managers/Directors in L1 Laboratories in PICTs and PPHSN L2 and L3 Reference Laboratories. It provides a summary of key public health diagnostic tests available in L1 Laboratories in 22 PICTs to accurately test and efficiently report on PPHSN priority outbreak prone diseases which includes dengue, measles, rubella, influenza, typhoid, cholera, HIV and STIs. It also provides updated key focal contact addresses of Laboratory Managers in PICTs. The catalogue is updated on an annual basis to provide the latest updates both in public health diagnostic capacities and laboratory focal points in all L1 Laboratories. The catalogue also provides updated information from L2 and L3 Reference Laboratories which are currently members of the Laboratory Network under PPHSN and provide diagnostic supports on testing and confirmation for L1 laboratories.

In 2022, through the advice and guidance of SPC PHD Director, Dr Berlin Kafoa, new changes had now been incorporated to the 2022 edition. Clinical diagnostic capacities of L1 Laboratories are now included, and the new edition now includes both Public and Clinical health diagnostic capacities of L1 laboratories in PICTs.

The following new Sections had been included:

- **Section C:** information on current clinical diagnostic capacities in L1 Laboratories in PICTs;
- **Section D:** information on EQA Providers;
- **Section E:** information on Laboratory External Audit/Assessment;
- **Section F:** Referral and Shipping Information – capturing information on certified IATA Trainers and Shippers; and
- **Section G:** information on Laboratory Information System.

The inclusion of the above sections will provide a quick overview of where L1 Laboratories in PICTs are in terms of diagnostic capacities to address and provide accurate, reliable, and timely laboratory results to guide effective interventions for both clinical and public health diseases. In addition, information provided in this catalogue will also greatly assist technical and donor partners to envisage where support is needed most.

The document is a “living document” and will be updated on an annual basis therefore we invite your suggestions and recommendations on what best to be captured from a Laboratory perspective to optimize and streamline laboratory services in all jurisdictions.

The Laboratory Strengthening Team within SPC PHD is indeed very thankful for all the support provided during the compilation of this new 2022 LabNet Catalogue by PIHOA, Laboratory Managers and Directors from L1 Laboratories in the region and our PPHSN L2 and L3 Reference Laboratories.



PPHSN LabNet catalog - 2022 Edition

The LabNet concept

The idea of LabNet came from the recognition that many Pacific Islands have little or no ready access to public health laboratory services. LabNet is one of the six (6) services of PPHSN established in April 2000. LabNet provides recommendations and support for verification and identification of pathogens through the current laboratory network. Existing laboratory services are traditionally hospital-based and have limited provisions. The **LabNet** concept is described as follows:

1. LabNet is a three-tier level network of laboratories: L1, L2 and L3, where “level” refers primarily to the role of the laboratory in the network and not to its capacity.

- L1 labs are the labs of the PPHSN member countries and territories. This level is the closest to patients and clinicians facing an outbreak alert. L1 labs collect samples from suspect patients and when possible use screening tests. They should have ready access to L2 or L3 lab confirmation services for selected diseases.
- L2 regional labs perform the first level of confirmation tests for L1 labs. The techniques they run require more training and equipment than those used at L1 labs. They are further supported by L3 labs. L2 regional labs may also serve as L1 labs in their country or territory.
- L3 labs are reference laboratories. They are usually internationally recognised labs (e.g. WHO collaborating centers), located in the Pacific Rim countries (mainly Australia, New Zealand and USA). In addition to the L2 disease-specific role, they perform more sophisticated, less urgently needed tests, giving important epidemiological information for the region or in the context of the worldwide surveillance of major diseases (such as dengue virus genotyping, influenza subtyping or *Leptospira* serogrouping).

2. **LabNet** aims to provide harmonized quality laboratory services with recommendations and technical support provided through the LabNet Technical Working Group. The LTWG is composed of twelve (12) members from regional laboratory partners and training institutions (CDC, ESR, FCDC, FNU, ILM, IPNC, NRL, PIHOA, PPTC, SPC, VIDRL and WHO) and they contribute to the development and strengthening of human (and animal) health laboratory services in Pacific Island countries and territories (PICTs).

3. The LabNet Catalog was developed with the objective of providing information regarding the **LabNet** labs and activities at all three levels. Additionally, the catalogue provides guidance on specimen collection and IATA requirements for referral and shipment of samples for priority PPHSN diseases and for emerging diseases such as COVID-19. The catalogue will undergo evaluations and assessments on a routine basis to have this updated, at a minimum, on an annual basis.

The **LabNet Catalog** is made up of 4 sections:

Section 1: L1 Laboratories

Section 2: L2 Laboratories

Section 3: L3 Laboratories and COVID 19 Laboratory Diagnosis

Section 4: Key PPHSN Contacts

Each section has a list of all the defined laboratories, followed by specific details for each country presented following a standard format: A-lab name and contact information; B-testing and referral information for 12 PPHSN relevant diseases; C-referral lab and shipping information. Section 3 contains the same information, although in a slightly different format, and with some specific instructions for shipping specimens from countries to the L3 facility.

SECTION 1

L1 LABORATORY SITES:

No.	Country/Territory
1	American Samoa
2	Cook Islands
3	Federated States of Micronesia - Chuuk
4	Federated States of Micronesia - Kosrae
5	Federated States of Micronesia – Pohnpei
6	Federated States of Micronesia – Yap
7	Fiji (Divisional Laboratories)
8	Kiribati
9	Republic of the Marshall Islands (Majuro an Ebeye)
10	Nauru
11	Northern Mariana Islands
12	Niue
13	Republic of Palau
14	Papua New Guinea
15	Samoa
16	Solomon Islands
17	Tokelau
18	Tonga
19	Tuvalu
20	Vanuatu
21	Wallis and Futuna

Note: In this section, * indicates a commercial or government laboratory, not in the PPHSN-LabNet list. These laboratories have been contracted by the country or jurisdiction and it is important to include them in the catalog for a complete understanding of all testing provisions available in the region.

COUNTRY: AMERICAN SAMOA
LABNET DESIGNATION: L1



A: Contact/General Information

Laboratory Name	LBJ TROPICAL MEDICAL CENTER
Lab Contact Name(s):	<p>Lab Main Contact Mrs Lamanda Ioane, BSCLS, MBAHCM Lab Manager</p> <p>Address LBJ Laboratory, Pago Pago USA</p> <p>E-mail lamanda.ioane@lbj.as</p> <p>Phone (684) 633 2001/1222, ext : 636</p> <p>Fax (684) 633 1200</p> <p>Sr. Tech/Other Contact Ms Seini Biukoto, MLT(ASCP)^{CM} Microbiology Supervisor</p> <p>E-mail Seine.biukoto@lbj.as</p> <p>Dr Amor Gonzales, MD, AMT, Laboratory Director/Pathologist</p> <p>Maopa L. Raikabula Acting Lab Manager Laboratory Services ASG-DOH PAGOPAGO, Am. Samoa 96799 Maopa.Lewabeci@doh.as</p>

Laboratory Testing Performed	General lab testing, PPHSN disease testing
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B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Lab	Referred Test	Current Referral Lab Location
Chlamydia	Cepheid GeneXpert CT-NG (same for ASG-DOH Lab)		
Cholera	Culture & AST		
Dengue	NS1 AG, IGM/IGG DENGUE DUO	PCR	ASG-DOH via Hawaii State Lab
Chikungunya		PCR	ASG-DOH via Hawaii State Lab
Zika		PCR	ASG-DOH via Hawaii State Lab
Gonorrhoea	Culture ID & AST Cepheid GeneXpert CT-NG (for both LBJ & ASG-DOH)		
HIV	LBJ: AG & ANB RAPID COMBO ASG-DOH: OraQuick	DIFFERENTIATION TEST	Primax Lab, CA, USA
Influenza	Cepheid GeneXpert (multiplex)-if out of reagents and controls-refer OSOM Rapid Diagnostics	Cepheid GeneXpert (multiplex)	ASG-DOH

	QuickVue Rapid		
SARS-CoV-2 (COVID-19)	Cepheid GeneXpert (multiplex)-if out of reagents & controls- refer	Cepheid GeneXpert (multiplex) ID NOW Accula BIOFIRE-Respiratory panel GI panel	ASG-DOH
Leptospirosis	ELIZA KIT	MAT	ASG-DOH via Hawaii State Lab,
Measles		EIA	Primax Lab, USA
Rubella		ANTIBODY IGM/IGG	Primax Lab, USA
Syphilis	RPR, TPPA, Titer (both for LBJ & DOH)		
Tuberculosis	Direct smear-ZN stain	GeneXpert Smear Concentration method, NAAT, Culture ID & AST	ASGDOH-Lab Diagnostic Lab Services (DLS) Hawaii, USA via PIHOA/CDC
Typhoid	Culture ID & AST		
Mpox		PCR	ASG-DOH via Hawaii State Lab

C. Clinical Diagnostic Tests

Test Parameters	Test Performed at Lab	Referred Test	Current Referral Lab
Haematology -Full Blood count & type of Analyzer -Blood Film Analysis -Coagulation Profile	Sysmex: All Hematology profile Blood Film: manual differential Coagulation profile: STAGO machine		
Biochemistry -RFTs -RBS -HbA1c -LFTs -Cardiac Enzymes -Lipid Profile -Tumour Markers	AU 680 BECKMAN COULTER: All chemistry profile and tumor markers Drug testing for employees and patients	At times when we encounter shipping delays of reagents.	PRIMEX LAB, USA

<p>Microbiology</p> <ul style="list-style-type: none"> -Blood Culture (automated) -Culture -manual -Identification (automated) -AST (automated and manual) -AST International Guideline -Fungal <p>-Urinalysis (Manual or Automated)</p>	<p>BLOOD CULTURE: BACT-ALERT Culture ID & AST: VITEK AST International Guideline: CLSI</p> <p>FUNGAL: KOH for Fungal elements only</p> <p>Bacteriology (Anaerobic ID & AST) Urinalysis: Siemens</p>	<p>Some Bacteriology confirmations</p> <p>Fungal Culture Virology Tests</p>	<p>Diagnostic Lab Services (DLS) Hawaii, USA</p>
<p>Molecular testing</p> <ul style="list-style-type: none"> -RT-PCR -HPV -HBV Viral Load 	<p>RT-PCR</p>		<p>ASGDOH-Lab</p>
<p>Cytopathology</p> <ul style="list-style-type: none"> -Gynae Cytology -Non-Gynae Cytology 	<p>PAP SMEAR</p>		<p>Diagnostic Lab Services (DLS) Hawaii, USA</p>
<p>Histology</p> <p>Tissues Biopsies</p>			<p>Diagnostic Lab Services (DLS) Hawaii, USA</p>

D. EQA Providers

Institution	Panel name	No.of cycles provided
College of American Pathologist	Hematology PT Chemistry PT Serology PT Urine Analysis PT Blood Transfusion Bacteriology PT Parasitology PT Mycobacteriology PT Respiratory PT GeneXpert CT/NG PT GeneXpert Respiratory PT	3 Cycles/ Events 2 Cycles/ Events
PPTC	Blood Transfusion Hematology (LBJ & ASG-DOH) Chemistry (LBJ & ASG-DOH) Serology (LBJ & ASG-DOH) Microbiology (Bacteriology) COVID 19 (LBJ & ASG- DOH)	3 Cycles/ Events
API (ASG-DOH LAB)	Microbiology: Respiratory- GeneXpert & Biofire GI - Biofire MTB/Rif - GeneXpert CT/NG – GeneXpert Covid 19 – GeneXpert & Biofire & Accula Hematology Serology	3 Cycles/ Events
DLS	Microbiology: Blind slide Re-checking DLS – PT GeneXpert TB Panel (ASG-DOH only)	Once/Year 2 Cycles/ Events

E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/others)	Assessor/Agency conducting the Audit
2021		CLIA'88, CMS (LBJ & DOH)
2022	AFB ASESSMENT TOOL	PIHOA RLC

F. Referral and Shipping Information

Recommended L2/L3 Referral Lab(s)	*Diagnostic Lab Services Hawaii, USA *Primax Lab, CA, USA *Hawaii State Lab, Hawaii, USA	
IATA certified Trainers	Yes.....Number Certified Trainers:.....2..... Date Training License Expires:.....2024.....	No
IATA certified Shippers	Yes..... Number Certified Shippers:.....9..... Date Shipping License Expires:.....2024.....	No
Airline/Cargo companies the lab uses to ship to L2/L3 lab	Hawaiian Airlines	

G. Laboratory Information System

Laboratory Information System (LIS)	In process
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COUNTRY: COOK ISLAND
LABNET DESIGNATION: L1



A: Contact/General Information

Laboratory Name	RAROTONGA HOSPITAL LABORATORY
Lab Contact Name(s):	<p>Lab Main Contact Mr. Douglas Tou – Lab Manager Address Ministry of Health P. O. Box 109, Rarotonga, Cook Islands_ E-mail douglas.tou@cookislands.gov.ck Phone (682) 22664 Fax (682) 22670 Sr. Tech/Other Contact Ms Theresa Tatuava, Senior Med Lab Technologist, Quality Coordinator E-mail theresa.tatuava@cookislands.gov.ck</p>
Laboratory Testing Performed	General lab testing, PPHSN disease testing

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Lab	Referred Test	Current Referral Lab Location
Chlamydia	GeneXpert DNA Probe	No, unless a police or coroner case	LabPlus Auckland, NZ
Cholera	Culture/ID	Yes - Serotyping	LabPlus Auckland, NZ
Dengue	SD Deng NS1 Ag+Ab Comb Rapid Device 25T	Yes	LabPlus Auckland, NZ
Chikungunya	no	yes	LabPlus Auckland, NZ
Zika	No	Yes	LabPlus Auckland, NZ
Gonorrhoea	Gram stain, culture, Beta lactamase test GeneXpert-DNA Probe	No	N/A
HIV	Determine HIV (100T), HIV 1+2 Rapid Test Insti, HIV 1+2, Unigold (20s)	No	N/A
Influenza	Rapid Test InFlu, PCR Biofire	Yes	ESR/NCBID Wellington
SARS-CoV-2	yes	Yes – Whole Genome sequencing	ESR NZ
Leptospirosis	No	Yes	LabPlus Auckland, NZ
Measles	No	Yes	LabPlus, Auckland, NZ
Rubella	No	Yes	LabPlus Auckland, NZ
Syphilis	Yes- RPR ,Bioline Syphilis 30, SD Duo HIV/Syphilis	Yes/Confirmation Only	LabPlus Auckland, NZ
Tuberculosis	Yes Direct smear-ZN stain/ GeneXpert – DNAProbe	No	Lab Plus NZ
Typhoid	Culture/ID	Yes	LabPlus, Auckland, NZ

Mpox	No	? yes	? VIDRL or ESR NZ
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C.1 Clinical Diagnostic Tests

Test Parameters	Test Performed at Lab	Referred Test	Current Referral Lab
Haematology -Full Blood count & type of Analyser -Blood Film Analysis -Coagulation Profile	yes	no	LabPlus Auckland, NZ
Biochemistry -RFTs -RBS -HbA1c -LFTs -Cardiac Enzymes -Lipid Profile -Tumour Markers	Yes Yes Yes Yes Yes Yes PSA,Beta HcG,AFP, Others such as CEA ,CA etc referred to Lab Plus		LabPlus Auckland, NZ
Microbiology -Urinalysis (manual or automated) - Blood Culture (manual or automated) -Culture -Identification (manual or automated) - AST (manual or automated) - AST International Guidelines used -Fungal testing -Water testing -Food Testing	Manual Manual Manual Manual Manual Yes No – only stain for fungal elements Yes Yes		LabPlus Auckland, NZ
Molecular testing -RT-PCR -HPV -HB Viral Load	Yes Yes None Yes- GeneXpert	Yes	ESR NZ VCS – Victoria Cytology Services Australia Ltd
Cytopathology -Gynae Cytology -Non-Gynae Cytology	No No No	Yes	VCS – Victoria Cytology Services Australia Ltd LabPlus NZ
Histology	No	Yes	LabPlus NZ

D. EQA Providers

Institution	Panel name	No.of cycles provided
PPTC NZ	PPTC EQA Microbiology PPTC EQA Serology PPTC EQA Blood Bank PPTC EQA Haematology PPTC EQA Biochemistry PPTC EQA COVID-19	3

E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit

2021	SLIPTA	PPTC-Navin Karan
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F. Referral and Shipping Information

Recommended L2/L3 Referral Lab(s)	*Auckland LabPlus NZ *VCS Ltd Australia *ESR – Wellington/NZ * VIDRL – Melbourne/Australia	
IATA certified Trainers	Yes...Number of Certified Trainers: One Date Training License Expires: Oct 2023	No
IATA certified Shippers	Yes...Number Certified Shippers: One Date Shipping License Expires: Oct 2023	No
Airline/Cargo companies the lab uses to ship to L2/L3 lab	Air NZ	

G: Laboratory Information System

Laboratory Information System (LIS)	Yes (LIS interphase with equipment & directly into HIS) Yes (LIS to equipment only) Still in working progress to be implemented by Sept 2022	
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COUNTRY:

LABNET DESIGNATION:

FEDERATED STATES OF
MICRONESIA - CHUUK
L1



A: Contact/General Information

Laboratory Name	CHUUK STATE HOSPITAL LABORATORY	
Lab Contact Name(s):		
Lab Main Contact Address	Mr. Yoichy Aut - Lab Supervisor Chuuk State Hospital P.O.Box 400, Weno, Chuuk, FSM 96942	
E-mail	YAut@fsmhealth.fm (691) 330 2220/2216(17)	
Phone	(691) 330 2220	
Fax		
Sr. Tech/Other Contact	Ms. Lisa Barrow - FSM National Lab Coordinator	
E-mail	lbarrow@fsmhealth.fm	
Phone	(691) 320 8300	
Fax	(691) 320 8460	
Laboratory Testing Performed	General lab testing, limited PPHSN disease testing	

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Lab	Referred Test	Current Referral Lab Location
Chlamydia	GeneXpert (CT/NG)	NO	N/A
Cholera	Microscopy, culture, and sensitivity	Yes/ subtyping	Hawaii Public Health Lab (to be confirmed)
Dengue	SD NS1/IgM/IgG	Serology/PCR	QUT, Australia ,GPHL
Chikungunya			
Zika			

Gonorrhoea	Microscopy, culture, Genexpert	No	N/A
HIV	Determine, confirmatory algorithm, Genexpert, Viral load	CD4+ count	Pohnpei state Hospital
Influenza	Antigen testing A/B	PCR	HPhL/GPhL
SARS-CoV-2			
Leptospirosis	SD IgM/IgG	Serology/PCR	QHSS
Measles	No	yes	Hawaii Public Health Lab /GPhL(to be confirmed)
Rubella	No	No	N/A
Syphilis	RPR, titre, Determine syph TP	No	N/A
Tuberculosis	Direct smear-ZN stain GeneXpert	Culture, ID, sens	Diagnostic Lab Services Honolulu-Hawaii, USA
Typhoid	M/C/S	Yes/subtyping	Hawaii Public Health Lab (to be confirmed)
Mpox			

C.1 Clinical Diagnostic Tests

Test Parameters	Test Performed at Lab	Referred Test	Current Referral Lab
Haematology			
- Full Blood count & type of Analyser	Yes Sysmex XNL 450	NO	NA
- Blood Film Analysis	Yes	NO	NA
- Coagulation Profile	Yes	NO	NA
Biochemistry			
-RFTs	Yes	NO	NA
-RBS	Yes	NO	NA
-HbA1c	Yes	NO	NA
-LFTs	Yes	NO	NA
-Cardiac Enzymes	Yes	NO	NA
-Lipid Profile	Yes	NO	NA
-Tumour Markers	NO	NO	NA
Microbiology			
-Urinalysis (manual or automated)	Yes Manual and Auto	NO	NA
- Blood Culture (manual or automated)	Yes manual	NO	NA
-Culture	Yes manual	NO	NA
-Identification (manual or automated)	Manual	NO	NA
- AST (manual or automated)	NO	NO	NA
- AST International Guidelines used	NO	NO	NA
-Fungal testing	NO	NO	NA
-Water testing	NO	NO	NA
-Food Testing	NO	NO	NA
Molecular testing			
-RT-PCR	Genex	NO	NA
-HPV	NO	NO	NA

-HBV Viral Load	NO	NO	NA
Cytopathology -Gynae Cytology -Non-Gynae Cytology	NO NO	NO NO	NA NA
Histology	NO	NO	NA

D. EQA Providers

Institution	Panel name	No.of cycles provided
PPTC	Chemistry	2
	Molecular	1
PPTC	SEROLOGY	1
	Microbiology	1
PPTC	BLOOD BANK	1
	Hematology	1

E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit

F. Referral and Shipping Information

Recommended L2/L3 Referral Lab(s)		
IATA certified Trainers	Yes....Number Certified Trainers:.....2..... Date Training License Expires:.....	
IATA certified Shippers	Yes....Number Certified Shippers:.....2..... Date Shipping License Expires:.....April 13,2024.....	No
Airline/Cargo companies the lab uses to ship to L2/L3 lab	United Airline, and	

G. Laboratory Information System

Laboratory Information System (LIS)	Yes (LIS interphase with equipment & directly into HIS) Yes (LIS to equipment only) No Planned
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COUNTRY:
LABNET DESIGNATION:

FEDERATED STATES OF
MICRONESIA - KOSRAE
L1



A: Contact/General Information

Laboratory Name	KOSRAE STATE HOSPITAL LABORATORY
Lab Contact Name(s):	
Lab Main Contact	Ms. Aralai N Tuione-Lab Manager
Address	Kosrae State Hospital P.O. Box 127 Kosrae, FSM 96944
E-mail	atuione@fsmhealth.fm
Phone	(691) 370 3012/3006 (691) 970 8580
Fax	None
Sr. Tech/Other Contact	Ms. Lisa Barrow - FSM National Lab Coordinator
E-mail	lbarrow@fsmhealth.fm
Laboratory Testing Performed	General lab testing, PPHSN disease testing

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Lab	Referred Test	Current Referral Lab Location
Chlamydia	Bioline RDT Chlamydia Chlamydia&Gonorrhoea (CTNG) Molecular GXpert	No	N/A
Cholera	No	Culture ID	Hawaii Public Health Lab
Dengue	SD NS1/IgM/IgG Dengue Duo	PCR	Guam Public Health Lab. Hawaii Public Health Lab
Chikungunya		Yes	Guam Public Health Hawaii Public Health Lab.
Zika		Yes	Guam Public Health Hawaii Public Health Lab
Gonorrhoea	Grams Screening Chlamydia&Gonorrhoea (CTNG) Molecular GXpert	No	N/A
HIV	RDT HIV/Syphilis Duo Determine HIV-1/2	CD 4 count Viral load	Hawaii Public Health Lab
Influenza	BD Veritor Rapid Flu A+B Biofire GXpert-SARS-COV 2/Flu/RSV	PCR	Hawaii Public Health Lab Guam Public Health Lab
SARS-CoV-2	Binax ID NOW Rapid Antigen Testing Antibody testing	Genome Sequencing	Hawaii Public Health Lab

	Biofire Film Array GeneXpert –SARS-CoV 2 & SARS-COV 2/Flu/RSV		
Leptospirosis	RDT -SD IgM/IgG	MAT	Hawaii Public Health Lab
Measles	No	EIA	Hawaii Public Health Lab Guam Public Health Lab
Rubella	No	EIA	Hawaii Public Health Lab Guam Public Health Lab
Syphilis	RPR, Titre, Determine syph TP RDT-HIV/Syphilis Duo	No	N/A
Tuberculosis	AFB Smear Microscopy, Xpert MTB/RIF Ultra Assay	Culture, ID	Diagnostic Lab Services Honolulu-Hawaii, USA
Typhoid	IgG/IgM antibody Testing	Yes	Hawaii Public Health Lab (to be confirmed)
Mpox	No	Yes	Hawaii Public Health Lab

C.1 Clinical Diagnostic Tests

Test Parameters	Test Performed at Lab	Referred Test	Current Referral Lab
Haematology - Full Blood count & type of Analyzer - Blood Film Analysis - Coagulation Profile	-CBC-Sysmex XN 450 & KX 21 (backup) 6 part Diff and Manual Peripheral smear reporting Coagulation-POC testing CoaguCheck XS PT Test	Blood film confirmation	Pohnpei State Hospital- Telepathology
Biochemistry -RFTs -RBS -HbA1c -LFTs -Cardiac Enzymes -Lipid Profile -Tumour Markers	Analyzers -Cobas C111/Fuji film Dry Chemistry/DCA Vantage 2000/Mini Vidas Biomerieux Test: LFTs,RFTs,Lipid Profiles,Glucose HBA1C Cardiac Enzymes-CK-MB/Troponin I Fertility-HCG Thyroid-TSH/T4/T3 Tumour Markers-CA 125 /TPSA	No	N/A
Microbiology -Urinalysis (manual or automated) - Blood Culture (manual or automated) -Culture -Identification (manual or automated) - AST (manual or automated) - AST International Guidelines used -Fungal testing -Water testing -Food Testing	Microbiology-Basic microbiology Urine analysis-manual Uri spec 10G/microscopy Blood culture-No blood culture BacT/Alert in place Fungal testing-KOH No water testing No food testing	No	N/A
Molecular testing -RT-PCR -HPV	No	No	N/A

-HBV Viral Load			
Cytopathology -Gynae Cytology -Non-Gynae Cytology	Cytopathology Gynae-Pap smear collection Non Gynae	Yes	FSM Telepathology- Pohnpei
Histology	Histology biopsy	Yes	FSM Telepathology- Pohnpei

D. EQA Providers

Institution	Panel name	No.of cycles provided
Pacific Pathology Training Center-New Zealand(PPTC)	Haematology,Serology,Chemistry,Blood Transfusion and Covid-19	3 Cycles in one year
Diagnostics Laboratory Services-Hawaii	AFB Proficiency Testing Blind Slide Xpert TB Proficiency	Annually Twice a year (Part A & Part B)

E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit
None	None	N/A

F. Referral and Shipping Information

Recommended L2/L3 Referral Lab(s)	Guam Public Health Lab/Hawaii Public Health Lab CDC relevant reference Laboratories	
IATA certified Trainers	Yes....Number Certified Trainers:1 Date Training License Expires: 08/05/2022	No
IATA certified Shippers	Yes....Number Certified Shippers:4 Date Shipping License Expires:08/05/2024	No
Airline/Cargo companies the lab uses to ship to L2/L3 lab	United Airlines	

G: Laboratory Information System

Laboratory Information System (LIS)	Yes- Sysmex HCLAB the new LIS installed. (LIS interphase with equipment & not directly into HIS yet)
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COUNTRY: FSM-POHNPEI



A: Contact/General Information

Laboratory Name	POHNPEI STATE HOSPITAL LABORATORY
Lab Contact Name(s):	
Lab Main Contact Address	Mr. Herbert Johnny – Lab Supervisor Pohnpei State Hospital Kolonia, Pohnpei FSM 96941
E-mail	hjohnny@fsmhealth.fm (691)
Ph	320 2214
Fax	(691) 320 5394
Sr. Tech/Other Contact	Ms. Lisa Barrow – FSM National Lab Coordinator
E-mail	lbarrow@fsmhealth.fm
Laboratory Testing Performed	General lab testing, PPHSN disease testing

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Lab	Referred Test	Current Referral Lab Location
Chlamydia	Rapid Antigen / PCR (GeneXpert)	No	N/A
Cholera	Microscopy, culture and sensitivity	Yes/ subtyping	Hawaii Public Health Lab
Dengue	SD NS1/IgM/IgG	Serology/PCR	Hawaii Public Health Laboratory, GPHL
Chikungunya		No	N/A
Zika		No	N/A
Gonorrhoea	Microscopy, culture PCR (GeneXpert)	No	N/A
HIV	Determine, confirmatory algorithm, Viral load	No	N/A
Influenza	PCR- Biofire,	PCR	GPHL, HPHL (sentinel surveillance referred)
SARS-CoV-2	Rapid Antigen/ PCR	Confirmation	Hawaii State Lab
Leptospirosis	SD IgM/IgG	Serology/PCR	HPHL
Measles	No	yes	Hawaii Public Health Lab
Rubella	No	No	HPHL
Syphilis	RPR,titre, Determine syph TP	No	N/A
Tuberculosis	Direct smear-ZN stain GeneXpert MTB/Rif	Culture, ID, sensi	Diagnostic Lab Services Honolulu-Hawaii, USA
Typhoid	Presumptive culture	No	N/A
Mpox	No	No	N/A

C.1 Clinical Diagnostic Tests

Test Parameters	Test Performed at Lab	Referred Test	Current Referral Lab
Haematology -Full Blood count & type of Analyser - Blood Film Analysis - Coagulation Profile	- KX21 Sysmex Analyzer - XS1000i Sysmex Analyzer - No - INR/ APTT-Coagulation	No	N/A
Biochemistry -RFTs -RBS -HbA1c -LFTs -Cardiac Enzymes -Lipid Profile -Tumour Markers	- COBAS C311 (ROCHE) - Renal Function - LFTs - Electrolytes - Cardiac Enzyme - Lipid Profile - Uric Acid - Amylase - Glucose, etc	No	N/A
Microbiology -Urinalysis (manual or automated) - Blood Culture (manual or automated) -Culture -Identification (manual or automated) - AST (manual or automated) - AST International Guidelines used -Fungal testing -Water testing -Food Testing	- Microscopic Urine/ O&P - Blood Culture manual - Identification manual - Fungal testing	No	N/A
Molecular testing -RT-PCR -HPV -HBV Viral Load	- SARS-Cov-2 - Flu RFE - GC/ CT - Firal Load	Yes	GPHL/ Hawaii State Lab.
Cytopathology -Gynae Cytology -Non-Gynae Cytology	-Pap smear -Body fluids (Basic Stains)	- Confirmation	Nikon Memorial Hospital - Japan
Histology	-H&E Stains (Basic Stains)	-Special Stains Immuno-Chemistry Test	Nikon Memorial Hospital - Japan

D. EQA Providers

Institution	Panel name	No.of cycles provided
PPTC	- Hematology, Chemistry, Blood Bank, Serology (STIs)	- Two (2) per Department/ Year
RCPA (Cytology)		4 cycle

E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit

F. Referral and Shipping Information

Recommended L2/L3 Referral Lab(s)		
IATA certified Trainers	Yes.....Number Certified Trainers: 1 Date Training License Expires: 2024	
IATA certified Shippers	Yes.....Number Certified Shippers: 2 Date Shipping License Expires: 2024	
Airline/Cargo companies the lab uses to ship to L2/L3 lab		

G: Laboratory Information System

Laboratory Information System (LIS)	Yes (LIS interphase with equipment & directly into HIS) Yes (LIS to equipment only) No other plan yet.....
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COUNTRY: FSM-YAP
LABNET DESIGNATION: L1



A: Contact/General Information

Laboratory Name	YAP MEMORIAL HOSPITAL LABORATORY		
Lab Contact Name(s):	Lab Main Contact	Ms. Maria Marfel – Lab Manager	
	Address	Yap Memorial Hospital P. O. Box 148 Colonia, Yap FSM 96943_	
	E-mail	mmarfel@fsmhealth.fm	
	Ph	(691) 350 2110/3446	
	Fax	N/A	
	Sr. Tech/Other Contact	Ms. Lisa Barrow - FSM National Lab Coordinator	
	E-mail	lbarrow@fsmhealth.fm	
Laboratory Testing Performed	General lab testing, PPHSN disease testing		

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Lab	Referred Test	Current Referral Lab Location
Chlamydia	GeneXpert	No	N/A
Cholera	Microscopy, culture and sensitivity	Yes/ subtyping	GPHL (to be confirmed)
Dengue	SD NS1/IgM/IgG	Serology/PCR Dry Spot	Hawaii State Laboratory, GPHL (to be confirm and subtype) ILM in French Polynesia
Chikungunya		Yes	GPHL & HSL (to be screened; confirm at CDC)

Zika		Yes	GPHL (to be screened; confirm at CDC/WHO)
Gonorrhoea	Microscopy, culture, GeneXpert	No	N/A
HIV	Determine, confirmatory Algorithm; Viral load on GeneXpert	CD4 count	Diagnostic Lab Services Hawaii, USA
Influenza	Alere BinaxNOW Influenza A & B Card Influenza A & B GeneXpert Influenza A,B&RSV Biofire	Yes/subtyping PCR ABI 7500 by Life Technologies	GPHL
SARS-CoV-2	BinaxNOW & Flowflex Ag Rapid Test GeneXpert PCR; Biofire Film Array	Yes/variant typing	Hawaii State Laboratory Hawaii, USA
Leptospirosis	SD BioLine Leptospira IgM	No	N/A
Measles	No	Yes	GPHL (to be confirmed)
Rubella	No	Yes	GPHL (to be confirmed)
Syphilis	RPR,titre, Determine syph TP	No	N/A
Tuberculosis	Direct smear-ZN stain GeneXpert MRTB Ultra	Yes, Culture, ID, sensi	Diagnostic Lab Services Honolulu-Hawaii, USA
Typhoid	SD BioLine Salmonella typhi IgG/IgM Presumptive culture	Yes	Hawaii Public Health Lab (to be confirmed)
Mpox	No	Yes	Hawaii State Laboratory Hawaii USA

C.1 Clinical Diagnostic Tests

Test Parameters	Test Performed at Lab	Referred Test	Current Referral Lab
Haematology - Full Blood count & type of Analyser - Blood Film Analysis - Coagulation profile (PT/INR)	FBC; Sysmex XS1000i & backup pocH100i Peripheral smear manual CoaguCheck XS System	Yes	DLS confirm diagnosis
Biochemistry -RFTs -RBS -HbA1c -LFTs -Cardiac Enzymes (Troponin I) -Lipid Profile -Tumour Markers	Vitros350 chemistry analyzer OneTouch Ultra LifeScan DCA2000+ miniVidas Biomerieux	Yes	DLS for confirmation diagnosis
Microbiology -Urinalysis (manual or automated) - Blood Culture (manual or automated) -Culture -Identification (manual or automated) - AST (manual or automated)	All microbial testing are manual at present; No fungal, water and food testing at present	Yes	DLS for confirmation

- AST International Guidelines used -Fungal testing -Water testing -Food Testing			
Molecular testing -RT-PCR -HPV -HBV Viral Load	HPV and HBV viral load	Yes	DLS for confirmation
Cytopathology -Gynae Cytology -Non-Gynae Cytology	Cytopathology	Yes	Telehistopathology Lab, Pohnpie FSM
Histology	Histology	Yes	Telehistopathology Lab, Pohnpie FSM

D. EQA Providers

Institution	Panel name	No.of cycles provided
Pacific Pathology Training Centre based in NZ	Hematology, Serology, Microbiology, Chemistry, Blood transfusion, COVID-19	3-cycle per annum
Diagnostic Laboratory Services based in Hawaii	AFB Proficiency panel, Blind Slide Recheck Xpert TB Proficiency	Annually Twice a year (Part A and Part B)

E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit
NONE	SLIPTA	N/A

F. Referral and Shipping Information

Recommended L2/L3 Referral Lab(s)	GPHL, HSL and CDC/WHO Relevant Reference Laboratories	
IATA certified Trainers	Yes....Number of Certified Trainers:.....2..... Date Trainer License Expires:.....5 th Aug 2022	No
IATA certified Shippers	Yes....Number Certified Shippers:.....8..... Date Shipping License Expires:....6 th Sep 2022..	No
Airline/Cargo companies the lab uses to ship to L2/L3 lab	United Airline	

G: Laboratory Information System

Laboratory Information System (LIS)	<p>Yes (LIS interphase with equipment & directly into HIS)</p> <p>Yes (LIS to equipment only) – A new LIMS will be installed later this month)</p> <p>No</p> <p>Planned</p>
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COUNTRY: FIJI
LABNET DESIGNATION: L1



A: Contact/General Information

Laboratory Name	COLONIAL WAR MEMORIAL HOSPITAL LABORATORY
Lab Contact Name(s):	
Lab Main Contact	Ravendra Prasad
Address	Pathology Laboratory, Colonial War Memorial Hospital
E-mail	Ravendra.prasad@gmail.com
Ph	9962201
Fax	N/A
Sr. Tech/Other Contact	Nesia Chaya Refaela
E-mail	Nesia.refaela@gmail.com
Laboratory Testing Performed	General lab testing, PPHSN disease testing

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Lab	Referred Test	Current Referral Lab Location
Chlamydia	No	No	
Cholera	No	No	
Dengue	Yes		
Chikungunya	No	Yes	Fiji CDC
Zika	No	Yes	Fiji CDC
Gonorrhoea	Yes		
HIV	Yes		
Influenza	No	Yes	Fiji CDC
SARS-CoV-2	Yes		
Leptospirosis	Yes		
Measles	No	Yes	Fiji CDC
Rubella	No	Yes	Fiji CDC
Syphilis	Yes		
Tuberculosis	Yes		
Typhoid	Yes		
Mpox	No	Yes	Fiji CDC

C.1 Clinical Diagnostic Tests

Test Parameters	Test Performed at Lab	Referred Test	Current Referral Lab
Haematology -Full Blood count & type of Analyser - Blood Film Analysis - Coagulation Profile	Yes – XN-1000 BF – Yes Coagulation - yes		
Biochemistry -RFTs -RBS -HbA1c -LFTs -Cardiac Enzymes -Lipid Profile -Tumour Markers	Yes		
Microbiology -Urinalysis (manual or automated) - Blood Culture (manual or automated) -Culture -Identification (manual or automated) - AST (manual or automated) - AST International Guidelines used -Fungal testing -Water testing -Food Testing	Manual Both Yes Both Both CLSI Fungal – basic testing No No	No No	
Molecular testing -RT-PCR -HPV -HBV Viral Load	No No No	Yes	Fiji CDC
Cytopathology -Gynae Cytology -Non-Gynae Cytology	Yes Yes		
Histology	Yes		

D. EQA Providers

Institution	Panel name	No.of cycles provided
RCPA	Biochemistry, Blood Bank, Haematology, Serology, Microbiology, Anatomical Pathology	Quarterly
PPTC	Biochemistry, Blood Bank, Haematology, Serology, Microbiology, Anatomical Pathology	Quarterly

E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit
2022	WHO Minimum Std	Dr. Litia Tudravu, Ravendra Prasad, Nesia Refaela

F. Referral and Shipping Information

Recommended L2/L3 Referral Lab(s)		
IATA certified Trainers	Yes..... Number Certified Trainers:.....1..... Date Training License Expires:.....2023.....	No
IATA certified Shippers	Yes.....Number Certified Shippers:.....7..... Date Shipping License Expires:.....30/06/2024.....	No
Airline/Cargo companies the lab uses to ship to L2/L3 lab	Fiji Airways	

G: Laboratory Information System

Laboratory Information System (LIS)	<input checked="" type="checkbox"/> Yes (LIS interphase with equipment & directly into HIS) <input type="checkbox"/> Yes (LIS to equipment only) <input type="checkbox"/> No <input type="checkbox"/> Planned
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COUNTRY: FIJI
LABNET DESIGNATION: L1



A: Contact/General Information

Laboratory Name	LABASA HOSPITAL LABORATORY
Lab Contact Name(s):	<p>Lab Main Contact Ms Makarita Baleinadogo Address P.O.Box 577 Labasa</p> <p>E-mail mbaleinadogo@govnet.gov.fj Ph 8811444 Fax</p> <p>Sr. Tech/Other Contact : E-mail:</p>
Laboratory Testing Performed	General lab testing, PPHSN disease testing

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Lab	Referred Test	Current Referral Lab Location
Chlamydia	No	Yes	Mataika House
Cholera	yes	No	
Dengue	Yes	No	

Chikungunya	No	Yes	Mataika House
Zika	No	Yes	Mataika House
Gonorrhoea	Yes	No	
HIV	Yes	No	
Influenza	No	Yes	Mataika House
SARS-CoV-2	Yes	No	
Leptospirosis	Yes	No	
Measles	No	Yes	Mataika House
Rubella	No	Yes	Mataika House
Syphilis	Yes	No	
Tuberculosis	Yes	No	
Typhoid	Yes	No	
Mpox	No	Yes	Mataika House/VIDRL

C.1 Clinical Diagnostic Tests

Test Parameters	Test Performed at Lab	Referred Test	Current Referral Lab
Haematology - Full Blood count & type of Analyser - Blood Film Analysis - Coagulation Profile	Yes	-HB Electrophoresis -Compliment studies -Coagulation factor studies -Factor assays	LabPlus
Biochemistry -RFTs -RBS -HbA1c -LFTs -Cardiac Enzymes -Lipid Profile -Tumour Markers	} Yes } No	Yes	CWMH/Lautoka
Microbiology -Urinalysis (manual or automated) - Blood Culture (manual or automated) -Culture -Identification (manual or automated) - AST (manual or automated) - AST International Guidelines used -Fungal testing -Water testing -Food Testing	} Yes } No	Yes	Mataika House

	No	Yes	Mataika House
Molecular testing -RT-PCR -HPV -HBV Viral Load	GeneXpert	Yes Yes	Mataika House
Cytopathology -Gynae Cytology -Non-Gynae Cytology	No No	Yes Yes	CWMH
Histology	Yes		

D. EQA Providers

Institution	Panel name	No.of cycles provided
PPTC	Hematology, Serology, Blood Bank, Biochemistry, Microbiology, Molecular COVID 19	4 cycles

E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit
February 6 th 2019	WHO Minimum Std	Ravendra Prasad. LS CWMH

F. Referral and Shipping Information

Recommended L2/L3 Referral Lab(s)		
IATA certified Trainers	Yes....Number certified Trainers: 1 Date Training License Expires: 2024	No
IATA certified Shippers	Yes...Number certified Shippers: 8 Date Shipping License Expires: 30/ 09/ 2024	No
Airline/Cargo companies the lab uses to ship to L2/L3 lab	CDP courier/ EMS courier Fiji Airways	

G: Laboratory Information System

Laboratory Information System (LIS)	Yes (LIS interphase with equipment & directly into HIS) Yes (LIS to equipment only) No Planned
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COUNTRY: FIJI
LABNET DESIGNATION: L1



A: Contact/General Information

Laboratory Name	LAUTOKA HOSPITAL LABORATORY
Lab Contact Name(s):	
Lab Main Contact	Mr Charles Wetzel
Address	Aspen Medical Lautoka Hospital
E-mail	
Ph	
Fax	
Sr. Tech/Other Contact :	Rejieli Bari
E-mail:	rejieli.bari@govnet.gov.fj

Laboratory Testing Performed General lab testing, PPHSN disease testing

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Lab	Referred Test	Current Referral Lab Location
Chlamydia	No	Yes	Mataika House
Cholera	No	Yes	Mataika House
Dengue	Yes		
Chikungunya	No	Yes	Mataika House
Zika	No	Yes	Mataika House
Gonorrhoea	No	Yes	Mataika House
HIV	Yes		
Influenza	No	Yes	Mataika House
SARS-CoV-2	Yes		
Leptospirosis	Yes		
Measles	No	Yes	Mataika House
Rubella	No	Yes	Mataika House
Syphilis	Yes		
Tuberculosis	Yes		
Typhoid	Yes		
Mpox	No	Yes	Mataika House

C.1 Clinical Diagnostic Tests

Test Parameters	Test Performed at Lab	Referred Test	Current Referral Lab
Haematology - Full Blood count & type of Analyser - Blood Film Analysis - Coagulation Profile	XN 1000 -FBC -Retics -ESR Manual staining -Bone marrow (Special Stains) -Leishman (bloodfilm) Manual method -PT/ INR -APTTK -FDP -D-dimer Semen Analysis	-HB Electrophoresis -Compliment studies -Coagulation factor studies -Factor assays	LabPlus
Biochemistry -RFTs -RBS -HbA1c -LFTs -Cardiac Enzymes -Lipid Profile -Tumour Markers	BS800M1 Cobas e411	-Chromosomal studies -ANA, DsDNA -Polycythemic studies -ENA -Catocholamine -Protein Electrophoresis -Iron Studies	LabPlus
Microbiology -Urinalysis (manual or automated) - Blood Culture (manual or automated) -Culture -Identification (manual or automated) - AST (manual or automated) - AST International Guidelines used -Fungal testing -Water testing -Food Testing	Manual BacTAlert Manual culture Manual Manual KirbyBauer Manual Mataika	SARI/ ARI/ ILI Pos. NPS ≥ 10 cells CSF SPN Pos TB Sputum New Bacteria For Vitek confirmation AFP	Mataika House Twomey Hospital CWMH Melbourne, Aus
Molecular testing -RT-PCR -HPV -HBV Viral Load	PCR (SarsCov2 & MTB) Screening at Cytology		Mataika House
Cytopathology -Gynae Cytology -Non-Gynae Cytology	PapSmear Aspirates Body Fluids & Cell block		CWMH
Histology	1. H&E stain 2. Stain- ZN, Fungal, Retics & PAS 3. Immunohistoc hemistry		CWMH

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D. EQA Providers

Institution	Panel name	No.of cycles provided
PPTC	Hematology, Serology, Blood Bank, Biochemistry, Microbiology, Molecular COVID 19, Anatomical Pathology	3 cycles

E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit
February 6 th 2019	WHO Minimum Std	Ravendra Prasad. LS CWMH

F. Referral and Shipping Information

Recommended L2/L3 Referral Lab(s)	
IATA certified Trainers	Yes....Number certified Trainers: 1 Date Training License Expires: 17/09/2021 No
IATA certified Shippers	Yes...Number certified Shippers: 8 Date Shipping License Expires: 30/ 09/ 2024 No
Airline/Cargo companies the lab uses to ship to L2/L3 lab	CDP courier/ EMS courier Forwarder: EMS/ DHL, W & G- Fiji Airways

G: Laboratory Information System

Laboratory Information System (LIS)	<p>Yes (LIS interphase with equipment & directly into HIS)</p> <p>Yes (LIS to equipment only)</p> <p>No</p> <p>Planned</p>
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COUNTRY: KIRIBATI
LABNET DESIGNATION: L1



A: Contact/General Information

Laboratory Name	KIRIBATI HEALTH LABORATORY
Lab Contact Name(s):	
Lab Main Contact Address	Ms. Rosemary Tekoaua –Chief of Laboratory Services, Ministry of Health & Medical Services P. O. Box 268, Bikenibeu, Tarawa, Kiribati_
E-mail	rosemarytek@gmail.com
Phone	(686) 74028100 Ext 236
Fax	(686) 28568 / 28152
Sr. Tech/Other Contact	Ms Bineta Ruaia - Acting Deputy Chief of Laboratory Services
E-mail	binetalab@gmail.com
Phone	(686) 74028100 Ext 237
Laboratory Testing Performed	All general lab testing, PPHSN disease testing

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Lab	Referred Test	Current Referral Lab Location
Chlamydia	Yes	No	N/A
Cholera	Culture-ID, serotype,	No	N/A
Dengue	Yes	Serotyping	IPNC, WHO Arbovirus Reference Centre Brisbane Australia
Chikungunya	Yes, Serology	Yes - confirmation	Fiji Centre for Disease Control
Zika	No	Yes	Fiji Centre for Disease Control
Gonorrhoea	Culture-ID	No	N/A
HIV	Determine, Unigold, Insti CD4 count Viral Load GenXpert	No	N/A
Influenza	Fluorescent Stain	PCR	Fiji Centre for Disease Control
SARS-CoV-2			
Leptospirosis	No	Yes	Suva Private Hospital Fiji
Measles	No	Yes	VIDRL Melbourne, AU
Rubella	No	Yes	VIDRL Melbourne, AU
Syphilis	Determine-TPHA, RPR TITRATION TPHA	No	
Tuberculosis	Direct smear-ZN stain GeneXpert MTB/RIF	Limited culture/ID, sensi	IMVS Lab Adelaide, AU
Typhoid	Culture-ID, serotype	No	N/A
Mpox	No	Yes	

C.1 Clinical Diagnostic Tests

Test Parameters	Test Performed at Lab	Referred Test	Current Referral Lab
Haematology -Full Blood count & type of Analyser - Blood Film Analysis - Coagulation Profile	Yes Swelab and Mindray Yes Yes	No No No	
Biochemistry -RFTs -RBS -HbA1c -LFTs -Cardiac Enzymes -Lipid Profile -Tumour Markers	Yes Yes Yes Yes Yes Yes Yes	All Biochemistry tests should be referred if machine is down or stock out	Queensland Pathology, Brisbane, Australia
Microbiology -Urinalysis (manual or automated) - Blood Culture (manual or automated) -Culture -Identification (manual or automated) - AST (manual or automated) - AST International Guidelines used -Fungal testing -Water testing -Food Testing	Yes Yes Yes Yes Yes - manual CLSI Yes Yes Yes - Limited	Yes	None
Molecular testing -RT-PCR -HPV -HBV Viral Load	Yes No Yes	Yes - confirmation	
Cytopathology -Gynae Cytology -Non-Gynae Cytology	Yes Yes	No No	
Histology	No	Yes	Queensland Pathology, Brisbane, Australia

D. EQA Providers

Institution	Panel name	No.of cycles provided
	✓ Microbiology ✓ Serology ✓ Haematology (Blood Film Morphology – stained slides only) ✓ Blood Bank ✓ Biochemistry HbA1C	(3 Dispatch's) (3 Dispatch's) (3 Dispatch's) (3 Dispatch's) (3 Dispatch's) (2 Dispatch's)

	✓ Molecular Panel (SARS-CoV-2)	(3 Dispatch's)

E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit
2021	SLIPTA	SPC

F. Referral and Shipping Information

Recommended L2/L3 Referral Lab(s)	L2/L3	
IATA certified Trainers	Yes ✓ Number Certified 1 Trainers: Rosemary Tekoaua Date Training License Expires: 30 September 2023	No
IATA certified Shippers	Yes ✓ Number Certified 13 [2021 (8) & 2022 (5)] Date Shipping License Expires: 5 June 2023 & 24 June 2024	No
Airline/Cargo companies the lab uses to ship to L2/L3 lab	Fiji Airways, Solomon Airways & DHL	

G: Laboratory Information System

Laboratory Information System (LIS)	Yes (LIS interphase with equipment & directly into HIS) Yes (LIS to equipment only) No Planned

COUNTRY: NAURU
LABNET DESIGNATION: L1



A: Contact/General Information

Laboratory Name	Nauru Public Health Laboratory
Lab Contact Name(s):	
Lab Main Contact	Mrs Shanyko Benjamin
Address	RoN Hospital Denig District NAURU
E-mail	shanyko137@gmail.com
Phone	(674) 557 2906
Fax	
Laboratory Testing Performed	General lab testing, limited PPHSN disease testing

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Lab	Referred Test	Referral Lab-L2/L3 Location
Chlamydia	Molecular (Cepheid GeneXpert)	No Sometimes	QLD Medical Lab, AU
Cholera	Culture and sensitivity	Confirmation	QLD Medical Lab, AU
Dengue	(SD Dengue DUO)	Serotyping	QLD Medical Lab, AU
Chikungunya	SD Biosensor, IgM, IgG	No	N/A
Zika	No	All	QLD Medical Lab, AU
Gonorrhoea	Culture/ID Molecular (Cepheid GeneXpert)	No Sometimes	QLD Medical Lab, AU
HIV	Abbott-Determine, Unigold and Insti, Molecular - Viral Load (Cepheid GeneXpert)	CD4 Count ELISA	QLD Medical Lab ,AU
Influenza	Alere BinaxNOW Influenza A & B Card,	PCR	WHOCC VIDRL Melbourne
SARS-CoV-2	Cepheid GeneXpert, ELITE InGenius – RT-PCR	Genomic sequencing	WHOCC VIDRL Melbourne
Leptospirosis	SD Bioline Leptospirosis, IgM	No	N/A
Measles	No	All	WHOCC VIDRL Melbourne
Rubella	No	All	WHOCC VIDRL Melbourne
Syphilis	Determine-TPHA, RPR Titre	No	N/A
Tuberculosis	Direct smear-ZN stain GeneXpert MTB/RIF	Culture, ID, AST	QLD Medical Lab, AU
Typhoid	Culture/ID/Sensitivity	Serotyping	QLD Medical Lab, AU
Mpox	No	All	WHOCC VIDRL Melbourne

C.1 Clinical Diagnostic Tests

Test Parameters	Test Performed at Lab	Referred Test	Current Referral Lab
Haematology - Full Blood count & type of Analyser - Blood Film Analysis - Coagulation Profile	FBC – Roche Sysmex XP 100, PT/INR	Blood film analysis and other Coagulation profile	QLD Medical Lab, AU
Biochemistry -RFTs -RBS -HbA1c -LFTs -Cardiac Enzymes -Lipid Profile	All except for Tumour Markers	Tumour Markers	QLD Medical Lab, AU

-Tumour Markers			
Microbiology -Urinalysis (manual or automated) - Blood Culture (manual or automated) -Culture -Identification (manual or automated) - AST (manual or automated) - AST International Guidelines used -Fungal testing -Water testing -Food Testing	Urinalysis (manual and automated), Blood Culture (manual), Culture (manual), Identification (Microgen ID system), AST (manual), AST (EUCAST), Fungal testing (KOH, Culture), no water & food testing	No	N/A
Molecular testing -RT-PCR -HPV -HBV Viral Load	Cepheid GeneXpert – SARS-CoV-2, MTB, HIV Viral Load	HPV, HBV Viral Load, Genomic sequencing	WHOCC VIDRL Melbourne & QLD Medical Lab, AU
Cytopathology -Gynae Cytology -Non-Gynae Cytology	No	All	QLD Medical Lab, AU
Histology	No	All	QLD Medical Lab, AU

D. EQA Providers

Institution	Panel name	No.of cycles provided
Pacific Pathology Training Centre	Biochemistry, Haematology, Blood Bank, Molecular, Serology & Microbiology	Every 3 months

E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit
Feb 2017	Stepwise Accreditation Audit Score - Unsure	PPTC? Unsure

F. Referral and Shipping Information

Recommended L2/L3 Referral Lab(s)	WHOCC VIDRL Melbourne	
IATA certified Trainers	Yes.....Number Certified Trainers:..... Date Training License Expires:.....	No
IATA certified Shippers	Yes.....Number Certified Shippers: 3 Date Shipping License Expires: May 2024	Yes
Airline/Cargo companies the lab uses to ship to L2/L3 lab	Nauru Airline & Pak Fresh (Brisbane Australia)	

G: Laboratory Information System

Laboratory Information System (LIS)	<p>No (LIS interphase with equipment & directly into HIS)</p> <p>No (LIS to equipment only)</p> <p>No</p> <p>Planning to - Yes. October 2022</p>
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COUNTRY: NORTHERN MARIANA ISLANDS
LABNET DESIGNATION: L1



A: Contact/General Information

Laboratory Name	Commonwealth Health Center Laboratory
Lab Contact Name(s):	
Lab Main Contact Address	Dr. Philip Dauterman, MD, Lab Director Commonwealth Health Center, Lower Navy Hill, P.O. Box 500409 CK, Saipan, MP 96950 USA -
E-mail	chclab@gmail.com or chccclab@chcc.health
Phone	(670) 234-8950 ext.2319
Fax	(670) 236-8612
Sr. Tech/Other Contact	Mr John Duenas, Clinical Lab
E-mail	Technician chclab@gmail.com
Phone	(670) 236-8395/96
Fax	(670) 236-8612
Laboratory Testing Performed	General lab testing, PPHSN disease testing

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Lab	Referred Test	Referral Lab-L2/L3 Location
Chlamydia	YES – on GeneXpert	N/A	N/A
Cholera	No	Serotyping	Diagnostic Lab Services Hawaii, USA
Dengue	No	EIA	Univ. of Hawaii-Trop Med Dept, Hawaii, USA
Chikungunya		Triplex Test	Guam Public Health Lab
Zika		Triplex Test	Guam Public Health Lab
Gonorrhoea	YES – on GeneXpert	N/A	N/A
HIV	No	EIA, Western Blot	Diagnostic Lab Services Hawaii, USA
Influenza	Quidel-Rapid Test GeneXpert	PCR	Diagnostic Lab Services Hawaii, USA
SARS-CoV-2	YES – on GeneXpert, Abbott ID Now, Biofire RP2		

Leptospirosis	No	EIA, confirmation	Diagnostic Lab Services Hawaii, USA
Measles	No	EIA	Diagnostic Lab Services Hawaii, USA
Rubella	No	EIA	Diagnostic Lab Services Hawaii, USA
Syphilis	RPR	FTA	Diagnostic Lab Services Hawaii, USA
Tuberculosis	YES – on GeneXpert	Culture, ID, sensitivity	Diagnostic Lab Services Hawaii, USA
Typhoid	No	EIA	Diagnostic Lab Services Hawaii, USA
Mpox	No	PCR Test	CDC Atlanta

C.1 Clinical Diagnostic Tests

Test Parameters	Test Performed at Lab	Referred Test	Current Referral Lab
Haematology -Full Blood count & type of Analyser -Blood Film Analysis -Coagulation profile	Siemens Advia Sysmex XN-1000 (by Fall 2022)		
Biochemistry -RFTs -RBS -HbA1c -Cardiac Enzymes -Lipid Profile -Tumour Markers	Siemens Dimensions EXL		
Microbiology -Urinalysis (manual or automated) -Blood Culture (manual or automated) -Culture -Identification (manual or automated) -AST (manual or automated) -AST International Guideline used -Fungal testing -Water testing -Food testing	Siemens CLINITEK STATUS BACTEC VITEK Agar Petri Plates		
Molecular testing -RT-PCR -HPV -HBV Viral Load	GeneXpert Biofire Abbott ID NOW		
Cytopathology -Gynae Cytology -Non-Gynae Cytology		Pap Smear	Diagnostic Lab Services Hawaii, USA
Histology		Histology	Diagnostic Lab Services Hawaii, USA

D. EQA Providers

Institution	Panel name	No.of cycles provided
College of American Pathologist (CAP)	Hema, Coag, Micro, Chem	3 per year
American Proficiency Institute (API)	Hema, Coag, Micro, Chem	3 per year

E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit
September 2021	CLIA/CMS	CLIA/CMS

F. Referral and Shipping Information

Recommended L2/L3 Referral Lab(s)	*Diagnostic Lab Services; University of Hawaii-Trop. Med Department Hawaii, USA; *US Mil. Lab, Texas, USA, CDC Atlanta	
IATA certified Trainers	Yes...Number of Certified Trainers.....1..... Date Training License Expires:.....	No
IATA certified Shippers	Yes...Number of Certified Shippers:.....13..... Date Shipping License Expires:.....2024...	No
Airline/Cargo companies the lab uses to ship to L2/L3 lab	United Airlines	

G: Laboratory Information System

Laboratory Information System (LIS)	Yes (LIS interphase with equipment & directly into HIS)
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COUNTRY: NIUE
LABNET DESIGNATION: L1



A: Personnel/Contact Information

Laboratory Name	Niue Foou Hospital Laboratory
Lab Contact Name:	
Pathologist/Manager	Andy Manu – Lab Scientist. Niue Health Department
Address	PO Box 33, Alofi, Niue andy.manu@gov.nu
E-mail	(683) 4100
Phone	
Fax	Martina Siataga – Laboratory Technician Assistant
Sr. Tech/Other Contact	Martina.Siataga@gov.nu
E-mail	(683) 4100
Ph	
Fax	
Laboratory Testing Performed	All general lab testing, limited PPHSN disease testing

B: Target Disease Testing Information

Target Disease	Test Performed at Lab	Referred Test	Test at L2 – L2 Location
Chlamydia	Rapid Test-Hexagon GenXpert	DNA Probe	Lab Plus Auckland, NZ
Cholera	Presumptive culture	Confirmation ID	Lab Plus Auckland, NZ
Dengue	PanBio-IgG/IgM	Confirmation	No
Chikungunya			
Zika			
Gonorrhoea	Presumptive culture, gram stain GenXpert	Confirmation	Lab Plus Auckland, NZ
HIV	Determine, Unigold, Insti	CD4 & Viral Load	Lab Plus Auckland, NZ
Influenza	Quidel-Rapid Test	PCR	ESR NCID, Wellington NZ
SARS-CoV-2			
Leptospirosis	No	Screen/Confirmation	Lab Plus Auckland, NZ
Measles	No	EIA	Lab Plus Auckland, NZ
Rubella	No	EIA	Lab Plus, Auckland, NZ
Syphilis	RPR, TPHA	Titer	Lab Plus Auckland, NZ
Tuberculosis & MTRif	Yes – ZN stain, GeneXpert	DST	Lab Plus, NZ
Typhoid	Yes – presumptive culture	Culture-ID, serotyping	Lab Plus, Auckland, NZ
Mpox			

C.1 Clinical Diagnostic Tests

Test Parameters	Test Performed at Lab	Referred Test	Current Referral Lab
Haematology - Full Blood count & type of Analyser - Blood Film Analysis - Coagulation Profile			
Biochemistry -RFTs -RBS -HbA1c -LFTs -Cardiac Enzymes -Lipid Profile -Tumour Markers			
Microbiology -Urinalysis (manual or automated) - Blood Culture (manual or automated) -Culture -Identification (manual or automated) - AST (manual or automated) - AST International Guidelines used -Fungal testing -Water testing -Food Testing			
Molecular testing -RT-PCR -HPV -HBV Viral Load			
Histology			

D. EQA Providers

Institution	Panel name	No.of cycles provided

E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit

F. Referral and Shipping Information

Recommended L2/L3 Referral Lab(s)	*Lab Plus, Auckland, NZ	
IATA certified Trainers	Yes.....Number Certified Trainers:..... Date Training License Expires:.....	No
IATA certified Shippers	Yes.....Number Certified Shippers:..... Date Shipping License Expires:.....	No
Airline/Cargo companies the lab uses to ship to L2/L3 lab	Air New Zealand	

G: Laboratory Information System

Laboratory Information System (LIS)	Yes (LIS interphase with equipment & directly into HIS) Yes (LIS to equipment only) No Planned
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COUNTRY: PALAU
LABNET DESIGNATION: L1



A: Contact/General Information

Laboratory Name	Belau National Hospital Laboratory		
Lab Contact Name(s):	Lab Main Contact	Lily Ulitech – Laboratory Manager, Belau National Hospital	
	Address	Laboratory P. O. Box 6027 Koror, Palau 96940	
	E-mail	lily.ulitech@palauhealth.org (680)	
	Phone	4886100, 488 2552/4508	
	Fax	(680) 488 4503	
	Sr. Tech/Other Contact	Carmin Pipit	
	E-mail	Carmin.pipit@palauhealth.org	
	Phone	(680) 4886100, 488 2552/4508	
	Fax	(680) 488 4503	
Laboratory Testing Performed	General lab testing, PPHSN disease testing		

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Lab	Referred Test	Referral Lab-L2/L3 Location
Chlamydia	GeneXpert	No	N/A
Cholera	Culture/ID	No	N/A
Dengue	SD Dengue Duo	Serotyping	Hawaii State Laboratory
Chikungunya	No	PCR	Hawaii State Laboratory
Zika	No	PCR	Hawaii State Laboratory

Gonorrhoea	GenXpert	No	N/A
HIV	Determine, Unigold, Insti CD4 & Viral Load	Drug Sensitivity	Diagnostic Lab Services Hawaii, USA
Influenza	Rapid Influenza A&B Biofire respiratory panel	Further Characterization	CDC, Atlanta, USA
SARS-CoV-2	GeneXpert Biofire Respiratory panel	Advanced Molecular Detection	CDC, Atlanta, USA Hawaii State Lab
Leptospirosis	SD Leptospirosis	No	Diagnostic Lab Services Hawaii, USA
Measles	No	Measles IgG/IgM	Hawaii State Laboratory
Rubella	No	Rubella IgG/IgM	Hawaii State Laboratory
Syphilis	RPR, Determine	No	N/A
Tuberculosis	Direct smear-ZN stain GeneXpert	Culture, ID, sensitivity	Diagnostic Lab Services Hawaii, USA
Typhoid	Culture/ID	No	N/A
Mpox	No	PCR	CDC, Atlanta, USA

C.1 Clinical Diagnostic Tests

Test Parameters	Test Performed at Lab	Referred Test	Current Referral Lab
Haematology - Full Blood count & type of Analyser - Blood Film Analysis - Coagulation Profile	Full Blood Count Sysmex XP-300 Sysmex XP-100 Yes, manual method	None	None
Biochemistry -RFTs -RBS -HbA1c -LFTs -Cardiac Enzymes -Lipid Profile -Tumour Markers	Routine Chemistry - Vitros 350 Tumor Markers - mVIDAS	None	none
Microbiology -Urinalysis (manual or automated) - Blood Culture (manual or automated) -Culture -Identification (manual or automated) - AST (manual or automated) - AST International Guidelines used -Fungal testing -Water testing -Food Testing	Urinalysis- semi automated Siemens Culture & AST Manual methods AST Reference - CLSI Culture, KOH None None	None	None

Molecular testing -RT-PCR -HPV -HBV Viral Load	GeneXpert	None	None
Cytopathology -Gynae Cytology -Non-Gynae Cytology	None	Gynae	Diagnostic Lab Service, Hawaii
Histology			

D. EQA Providers

Institution	Panel name	No.of cycles provided
PPTC	Hematology, Blood Bank, Chemistry, Serology, Microbiology,	3
DLS	TB-Xpert Proficiency AFB Smear Proficiency	1

E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit
2022	SLIPTA	PIHOA

F. Referral and Shipping Information

Recommended L2/L3 Referral Lab(s)	Diagnostic Lab Services, Hawaii; Hawaii State Laboratory; CDC Atlanta, USA;	
IATA certified Trainers	Yes....Number Certified Trainers: 1 Date Training License Expires: 8/5/2022.	No
IATA certified Shippers	Yes....Number Certified Shippers: 10 Date Shipping License Expires: 12/9/2022 - 2 8/31/2023 - 3 5/12/2024 - 5	No
Airline/Cargo companies the lab uses to ship to L2/L3 lab	United Airlines	

G: Laboratory Information System

Laboratory Information System (LIS)	Yes (LIS interphase with equipment & directly into HIS) Yes (LIS to equipment only) No Planned
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COUNTRY: PAPUA NEW GUINEA
LABNET DESIGNATION: L1



A: Personnel/Contact Information

Laboratory Name	CENTRAL PUBLIC HEALTH LABORATORY
Lab Contact Name:	
Pathologist/Manager	Mr. Willie Porau, Director
Address	Central Public Health Laboratory Port Moresby General Hospital, Free Mail Bag, Boroko, National Capital District, Papua New Guinea
E-mail	porauw@gmail.com
Phone	(675) 324 8146
Fax	(675) 325 6342
Sr. Tech/Other Contact	Janlyn Kemoi-A/Lab Manager
	Central Public Health Laboratory
E-mail	kumbuj@gmail.com
Laboratory Testing Performed	General lab testing, PPHSN disease testing

B: Target Disease Testing Information

Target Disease	Test Performed at Lab	Referred Test	Referral Lab-L2/L3 Location
Chlamydia	No	No	N/A
Cholera	Culture/ID, serotyping	No	NA
Dengue	PanBio strips – IgM	Serotype, PCR	Institute of Medical Research (IMR), PNG
Chikungunya	No	No	NA
Zika	No	No	NA
Gonorrhoea	No	No	No
HIV	Determine, statpack,	No	N/A
Influenza	Biofire film Array	PCR (ILI cases)	Institute of Medical Research (IMR), PNG
SARS-CoV-2	Rapid panbio test kit, GeneXpert, PCR	Sequencing	Doherty Australia
Leptospirosis	No	No	NA
Measles	EIA	No	N/A
Rubella	EIA-Dade	No	N/A
Syphilis	Alere-TPHA RPR, TPPA, Titer	No	N/A
Tuberculosis	TB Culture, LPA, GenXpert & Direct smear-ZN stain,DST	MTB Rif isolates & DST	Qnsld. Mycobact. Ref. Lab Brisbane, AU NB: CPHL has been performing TB culture ,DST but right now our PC3 lab is down hence we are referring samples for

			culture to QMRL
Typhoid	Culture/ID	No	N/A
Mpox	No	No	NA

C.1 Clinical Diagnostic Tests

Test Parameters	Test Performed at Lab	Referred Test	Current Referral Lab
Haematology - Full Blood count & type of Analyser - Blood Film Analysis - Coagulation Profile	No	Yes	Port Moresby General Hospital
Biochemistry -RFTs -RBS -HbA1c -LFTs -Cardiac Enzymes -Lipid Profile -Tumour Markers	No	All Biochemistry test referred to PMGH	Port Moresby General Hospital
Microbiology -Urinalysis (manual or automated) - Blood Culture (manual or automated) -Culture -Identification (manual or automated) - AST (manual or automated) - AST International Guidelines used -Fungal testing -Water testing -Food Testing	Water testing and Food testing	All microbiology test	Port Moresby General Hospital
Molecular testing -RT-PCR -EID -Viral Load	Yes	NA	NA
Cytopathology -Gynae Cytology -Non-Gynae Cytology	No	Yes	Port Moresby General Hospital
Histology	No	Yes	Port Moresby General Hospital

D. EQA Providers

Institution	Panel name	No.of cycles provided
Central Public Health Laboratory	TB Panel, HIV Panel, Malaria Panel	2
WHO	COVID19 Genexpert Panel, Measles & Rubella Panel	1
CDC	EID Panel, Syphilis Panel	1
Vietnam EQA-CDC	TB gene Xpert Panel	1

E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit
COVID19 PCR Lab	WHO tool assessment	WHO 2021
Measles and Rubella EIA Lab	WHO tool assessment	WHO-2015

F. Referral and Shipping Information

Recommended L2/L3 Referral Lab(s)	Qnsld. Health Scientific Serv.-Queensland, AU; *Qnsld. Mycobact Ref Lab, Brisbane, Doherty Institute (Polio and Covid Sequencing)	
IATA certified Trainers	Yes.....Number Certified Trainers...1 Date Training License Expires...30 September 2023.....	yes
IATA certified Shippers	Yes.....Number Certified Shippers...13..... Date Shipping License Expires:.....October 30 2023.....	Yes
Airline/Cargo companies the lab uses to ship to L2/L3 lab	Air Niugini	

G: Laboratory Information System

Laboratory Information System (LIS)	No LIS but planning and implémentation Underway for a new LIS in CPHL-Local company developing the LIS for CPHL
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COUNTRY: SAMOA
LABNET DESIGNATION: L1



A: Personnel/Contact Information

Laboratory Name	NATIONAL CLINICAL LABORATORY
Lab Contact Name:	
Pathologist/Manager Address	Ms Hinauri Leaupepe – Ngau Chun, Manager Laboratory Service Samoa National Health Service Private Mail Bag, Apia, Samoa
E-mail	hinauril@health.gov.ws
Phone	(685) 66 651
Fax	
Sr. Tech/Other Contact	Perenise Eti
E-mail	perenisee@health.gov.ws
Phone	(685) 66655
Laboratory Testing Performed	General lab testing, PPHSN disease testing

B: Target Disease Testing Information

Target Disease	Test Performed at Lab	Referred Test	Referral Lab-L2/L3 Location
Chlamydia	Gene Expert	No	N/A
Cholera	Presumptive culture	ID, confirmation	LabPlus Auckland, NZ

Dengue	SD Bioline Dengue NS1Ag + Ab Combo	Yes for DenV PCR and Serotyping	WHO Arbovirus Reference Centre, Brisbane, Australia. ESR/NCBID NZ
Chikungunya	No	Yes	LabPlus Auckland, NZ
Zika	No	Yes	LabPlus Auckland, NZ
Gonorrhoea	Presumptive culture, gram stain, PCR Genexpert	No	N/A
HIV	Determine, Unigold, Insti, HIV Viral load on GeneXpert	No	N/A
Influenza	Standard Q Influenza A&B RDT Veritor	No	N/A
SARS-CoV-2	Gene Expert	Yes for WGS	ESR, Wellington NZ
Leptospirosis	SD Bioline Leptospirosis IgM	EIA	LabPlus, Auckland, NZ
Measles	No	EIA	LabPlus Auckland, NZ
Rubella	No	EIA	LabPlus Auckland, NZ
Syphilis	RPR,TPHA and Anti TP	No	
Tuberculosis	Direct smear-ZN stain, GeneXpert	culture/ID, Sensitivity	LabPlus, Auckland NZ
Typhoid	Culture/ID	Phage typing	LabPlus and ESR NZ
Mpox	No	Yes	

C.1 Clinical Diagnostic Tests

Test Parameters	Test Performed at Lab	Referred Test	Current Referral Lab
Haematology - Full Blood count & type of Analyser - Blood Film Analysis - Coagulation Profile	Yes (Sysmex XN1000i, XN550 & KX21) Yes Yes (HumaClot)	No No No	
Biochemistry <ul style="list-style-type: none"> • RFTs • RBS • HbA1c • ACR • LFTs • Cardiac Enzymes • Lipid Profile • Tumour Markers • Iron studies • Troponin-T • Vitamin B12 & Folate • Blood Gas 	Yes (EasyRA & Cobas C311) Yes (EasyRA & Cobas C311) Yes (Affinion2 & DCA Vintage) Yes (Affinion2 & DCA Vintage) Yes (EasyRA & Cobas C311) Yes (EasyRA & Cobas C311) Yes (EasyRA & Cobas C311) Yes (EasyRA & Cobas C311) Yes (Cobas E411) Yes (Cobas C311 & E411) Yes (Cobas E411) Yes (Cobas E411) Yes (Cobas E411) Yes (Cobas E411) Yes (ABL90 and EasyStat)	No No No No No No No No No No No No	
Microbiology <ul style="list-style-type: none"> • Urinalysis (manual or automated) 	Yes (Manual and automated - EA Aution) Yes (Automated – Bactec 240)	No No	

<ul style="list-style-type: none"> • Blood Culture (manual or automated) • Culture • Identification (manual or automated) • AST (manual or automated) • AST International Guidelines used • Fungal testing • Water testing • Food Testing 	<p>Yes (Manual)</p> <p>Yes (Manual and automated)</p> <p>Yes (Manual and automated – Phoenix M50)</p> <p>Yes (EUCAST and CLSI)</p> <p>Yes</p> <p>No</p> <p>No</p>	<p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p>	<p>MOH Public Health Lab</p>
<p>Molecular testing</p> <ul style="list-style-type: none"> -RT-PCR -HPV -HBV Viral Load 	<p>GeneXpert PCR</p> <p>No</p> <p>No</p>	<p>Yes for WGS</p> <p>Yes</p> <p>Yes</p>	<p>ESR NZ</p> <p>LabPlus</p> <p>LabPlus</p>
<p>Cytopathology</p> <ul style="list-style-type: none"> • Gynecological smears (Conventional smears) <ul style="list-style-type: none"> ➤ Papanicolaou staining • Non-gynecological specimens <ul style="list-style-type: none"> ➤ Papanicolaou staining ➤ Giemsa staining ➤ Cellblock • Fine Needle Aspiration (FNA) <ul style="list-style-type: none"> ➤ Papanicolaou staining ➤ Giemsa staining ➤ Diff-Quik staining ➤ Cellblock 	<p>Yes (Manual and automated)</p> <p>Yes (Manual and automated)</p> <p>Yes (Manual and automated)</p>	<p>No</p> <p>No</p> <p>No</p>	
<p>Histology</p> <ul style="list-style-type: none"> • Histology grossing/cut-up • Tissue processing • Embedding • Microtomy • Routine staining – H&E • Special stains – PAS and ZN • Others – Decalcification (calcified tissue) • Immunohistochemistry staining 	<p>Yes (manual)</p> <p>Yes (automated)</p> <p>Yes (manual)</p> <p>Yes (manual)</p> <p>Yes (manual & automated)</p> <p>Yes (manual)</p> <p>Yes (manual)</p> <p>No</p>	<p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>Yes</p>	<p>LabPlus, Auckland NZ</p>

D. EQA Providers

Institution	Panel name	No. of cycles provided
Pacific Pathology Training Centre	PPTC-EQAP <ul style="list-style-type: none"> • Microbiology • Serology • Haematology (Blood Film morphology) • Blood Bank • Biochemistry <ul style="list-style-type: none"> ○ HbA1C • Anatomic Pathology 	3 cycles per year 3 cycles per year 3 cycles per year 3 cycles per year 2 cycles/4 assessments) per year 3 cycles per year

E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit
2021	SLIPTA	Pacific Pathology Training Centre

F. Referral and Shipping Information

Recommended L2/L3 Referral Lab(s)	Fiji Centre for Disease Control; *LabPlus Auckland, NZ; WHO ARbovirus Reference Centre, Brisbane, AU; *VIDRL, Melbourne, AU	
IATA certified Trainers	Yes....Number Certified Trainers:..... Date Training License Expires:.....	Yes 2 2019
IATA certified Shippers	Yes....Number Certified Shippers:..... Date Shipping License Expires:.....	Yes 5 2019
Airline/Cargo companies the lab uses to ship to L2/L3 lab	Air New Zealand	

G: Laboratory Information System

Laboratory Information System (LIS)	Planned (to be implemented into the Tupaia system)
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COUNTRY: SOLOMON ISLANDS
LABNET DESIGNATION: L1



A: Personnel/Contact Information

Laboratory Name	NATIONAL REFERRAL HOSPITAL LABORATORY
Lab Contact Name:	
Chief Medical Technologist	Mr. Alfred Dofai; Head of Medical Lab
Address	National Referral Hospital P. O. Box 349, Honiara, Solomon Islands
E-mail	ADofai@nrh.gov.sb
PHONE	(677) 44066 DL – 677 25436
Fax	(677) 24 243 or 23 761
Sr. Tech/Other Contact	Mr Elliot Puiahi – Lab Manager
E-mail	EPuiahi@nrh.gov.sb
Phone	(677) 23446

Laboratory Testing Performed

General lab testing, PPHSN disease testing

B: Target Disease Testing Information

Target Disease	Test Performed at Lab	Referred Test	Referral Lab-L2/L3 Location
Chlamydia	No	Yes	Royal Brisbane Hospital
Cholera	Presumptive culture/ID	Culture confirmation, serotyping	Qnsld Hlth Sci Serv-Royal Brisbane Brisbane, AU
Dengue	SD Bioline NS1AgIgM/IgG	Serotype, PCR	WHO Arbovirus Reference Centre, Brisbane, Australia
Chikungunya	No	Yes	ILM, Tahiti
Zika	No	Yes	ILM, Tahiti
Gonorrhoea	Gram stain, culture	No	N/A
HIV	Determine, Unigold, Insti	Gene Expert	Qnsld Hlth Sci Serv-Royal Brisbane Brisbane, AU
Influenza	BD Veritor System	PCR	WHO-CC Melbourne, AU
SARS-CoV-2	qPCR	PCR	Doherty Institute, Melbourne, AU
Leptospirosis	RDT	Screen, Confirmation	Qnsld Hlth Sci Serv Brisbane, AU
Measles	No	EIA	Qnsld Hlth Sci Serv-Royal Brisbane Brisbane, AU
Rubella	No	EIA	Qnsld Hlth Sci Serv-Royal Brisbane Brisbane, AU
Syphilis	RPR, TPHA	No	N/A
Tuberculosis	Direct smear-ZN stain /GeneXpert	Limited culture/ID, sensi	Adelaide Supra Reference Laboratory
Typhoid	Culture/ID	Serotyping confirmation	Qnsld Hlth Sci Serv-Royal Brisbane Brisbane, AU
Mpox			

C.1 Clinical Diagnostic Tests

Test Parameters	Test Performed at Lab	Referred Test	Current Referral Lab
Haematology -Full Blood count & type of Analyser - Blood Film Analysis - Coagulation Profile	FBC- Hb, Wcc, Plts, RBC, MCV, MCH, MCHC (Analyzer – Sysmex XN1000). Coagulation- PT, PTT, D-Dimer, Fibrinogen	Vit B12 Iron studies Bone marrow aspirate/trephine	Qnsld Hlth Sci Serv-Royal Brisbane Brisbane, AU
Biochemistry -RFTs -RBS -HbA1c -LFTs -Cardiac Enzymes -Lipid Profile -Tumour Markers	RFTs, RBCs, LFTs, Cardiac, Lipid, Lipid Profile, HBA1c. Machine - Cobas c311 -	- Tumor markers, Hormones, Enzymes	Qnsld Hlth Sci Serv-Royal Brisbane Brisbane, AU

Microbiology -Urinalysis (manual or automated) - Blood Culture (manual or automated) -Culture -Identification (manual or automated) - AST (manual or automated) - AST International Guidelines used -Fungal testing -Water testing -Food Testing	-Urinalysis (manual) - Blood Culture (automated) -Culture -Identification (manual) - AST (manual) - AST International Guidelines used -Fungal testing	Confirmation of organisms identified and DSTs. - Confirm ESBL and MRSA.	Qnsld Hlth Sci Serv- Royal Brisbane Hosp Brisbane, AU
Molecular testing -RT-PCR -HPV -HBV Viral Load	-RT-PCR plus Gene- Xpert and Biofire	Confirmation of Identified viruses and whole genome sequence	VIDRL Doherty Institute. Microbiology Diagnostic Unit.
Cytopathology -Gynae Cytology -Non-Gynae Cytology		All cytologies	Qnsld Hlth Sci Serv- Royal Brisbane, Hosp Brisbane, AU
Histology	Tissue processing and reporting 10%	90% tissues	Qnsld Hlth Sci Serv- Royal Brisbane Hosp Brisbane, AU

D. EQA Providers

Institution	Panel name	No.of cycles provided
PPTC-NZ	Biochemistry, Haematology, Serology	Quarterly
WHO EQAP Hong Kong	SARS-CoV-2	Quarterly

E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit
2019	SLIPTA	Russel Cole / PPTC

F. Referral and Shipping Information

Recommended L2/L3 Referral Lab(s)	Qnsld Health Scientific Services,WHO Arbovirus Reference Centre, Brisbane, AU, *Royal Brisbane Hospital In Queensland, AU; * Adelaide Supra Reference Laboratory	
IATA certified Trainers	Yes.....Number Certified Trainers:..... Date Training License Expires:.....	No
IATA certified Shippers	Yes.....Number Certified Shippers:....11..... Date Shipping License Expires:23 rd Sept 2024...	Yes
Airline/Cargo companies the lab uses to ship to L2/L3 lab	Solomon Airlines - Mr. Peter Omani Ph. (677) 36291	

G: Laboratory Information System

Laboratory Information System (LIS)	Yes (LIS interphase with equipment & directly into HIS) Yes (LIS to equipment only) (No) (Planned)
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COUNTRY: TOKELAU
LABNET DESIGNATION: L1



A: Personnel/Contact Information

Laboratory Name	HOSPITAL LABORATORY
Lab Contact Name:	
Pathologist/Manager	Ms Rosa TOLOA; Director of Health
Address	c/o Tokelau Apia Liaison Office P. O. Box 865, Apia, Samoa
E-mail	
Phone	rosa.toloa@tokelau.org.nz
Fax	(690) 4211 (685) 21761 or (685) 29143
Sr. Tech/Other Contact	Dr Susana Letu
E-mail	leihana@gmail.com
Laboratory Testing Performed	Limited general lab testing and PPHSN disease testing

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Lab	Referred Test	Referral Lab-L2/L3 Location
Chlamydia	No	No	N/A
Cholera	No	Culture/ID	LabPlus or ESR, NZ Via Samoa National Hospital
Dengue	No	Confirmation	LabPlus or ESR, NZ Via Samoa National Hospital
Chikungunya			
Zika			
Gonorrhoea	No	Culture	LabPlus or ESR, NZ Via Samoa National Hospital
HIV	Determine	Confirmation	LabPlus or ESR, NZ Via Samoa National Hospital
Influenza	Quidel-Rapid Test	PCR	ESR NCID, Wellington NZ Lab Plus NZ
SARS-CoV-2			
Leptospirosis	No	No	N/A
Measles	No	No	N/A
Rubella	No	No	N/A
Syphilis	Determine	No	N/A
Tuberculosis		No	N/A
Typhoid	No	Culture	*LabPlus or ESR, NZ Via Samoa National Hospital
Mpox			

C.1 Clinical Diagnostic Tests

Test Parameters	Test Performed at Lab	Referred Test	Current Referral Lab
Haematology -Full Blood count & type of Analyser - Blood Film Analysis - Coagulation Profile			
Biochemistry -RFTs -RBS -HbA1c -LFTs -Cardiac Enzymes -Lipid Profile -Tumour Markers			
Microbiology -Urinalysis (manual or automated) - Blood Culture (manual or automated) -Culture -Identification (manual or automated) - AST (manual or automated) - AST International Guidelines used -Fungal testing -Water testing -Food Testing			
Molecular testing -RT-PCR -HPV -HBV Viral Load			
Cytopathology -Gynae Cytology -Non-Gynae Cytology			
Histology			

D. EQA Providers

Institution	Panel name	No.of cycles provided

E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit

F. Referral and Shipping Information

Recommended L2/L3 Referral Lab(s)	LabPlus, ESR, New Zealand Via Samoa National Hospital Lab	
IATA certified Trainers	Yes.....Number Certified Trainers:..... Date Training License Expires:.....	No
IATA certified Shippers	Yes.....Number Certified Shippers:..... Date Shipping License Expires:.....	No
Airline/Cargo companies the lab uses to ship to L2/L3 lab	By Sea to Samoa and Air New Zealand (via Samoa National Hospital)	

G: Laboratory Information System

Laboratory Information System (LIS)	Yes (LIS interphase with equipment & directly into HIS) Yes (LIS to equipment only) No Planned
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COUNTRY: TONGA
LABNET DESIGNATION: L1



A: Personnel/Contact Information

Laboratory Name	VAIOLA HOSPITAL LABORATORY
Lab Contact Name:	
Pathologist/Manager Address	Dr. Luke Huni, MO i/c Laboratory Services, Vaiola Hospital, P. O. Box 59 Nukualofa, Tonga
E-mail	luke.huni18@gmail.com
Phone	(676) 23 200 ext 1397 or (676) 7400218
Fax	(676) 28 964
Sr. Tech/Other Contact	Mrs. Telesia Apikotoa, Principal Medical Scientist
E-mail	t.apikotoa@gmail.com
Phone	(676) 23 200 ext 1323 or (676) 7400162
Fax	(676) 28 964
Laboratory Testing Performed	General lab testing, PPHSN disease testing

B: Target Disease Testing Information

Target Disease	Test Performed at Lab	Referred Test	Referral Lab-L2/L3 Location
Chlamydia	Gene Xpert	No	N/A
Cholera	Presumptive culture	Serotyping	LabPlus Auckland, NZ
Dengue	SD Dengue Duo NS1/IgM/IgG	Serotyping	WHO Arbovirus Reference Centre, Brisbane, AU
Chikungunya	No	PCR	ESR, Wellington
Zika	No	PCR	ESR, Wellington
Gonorrhoea	Gram stain, Gene Xpert	No	N/A
HIV	Determine, Duo, Unigold, Insti, Viral Load	No	LabPlus Auckland, NZ
Influenza	No	PCR	ESR/NCBID Wellington
SARS-CoV-2	Yes	WGS	ESR, Wellington
Leptospirosis	No	EIA	LabPlus Auckland, NZ
Measles	No	EIA	LabPlus, Auckland, NZ
Rubella	No	EIA	LabPlus, Auckland, NZ
Syphilis	Determine, RPR, Duo	TPA, FTA	LabPlus, Auckland, NZ
Tuberculosis	Direct smear-ZN stain, Gene Xpert	No	LabPlus Auckland, NZ
Typhoid	Culture, Serotyping	No	LabPlus Auckland, NZ
Mpox	No	PCR	ESR, Wellington

C.1 Clinical Diagnostic Tests

Test Parameters	Test Performed at Lab	Referred Test	Current Referral Lab
Haematology -Full Blood count & type of Analyser - Blood Film Analysis - Coagulation Profile	Yes Yes Yes	No	N/A
Biochemistry -RFTs -RBS -HbA1c -LFTs -Cardiac Enzymes -Lipid Profile -Tumour Markers	Yes Yes Yes Yes Yes Yes Yes	-CA125 -CEA	LabPlus Auckland, NZ
Microbiology -Urinalysis (manual or automated) - Blood Culture (manual or automated) -Culture -Identification (manual or automated) - AST (manual or automated) - AST International Guidelines used -Fungal testing -Water testing -Food Testing	Yes Yes Yes Yes Yes Yes No No	-Organism ID -Typing of isolated organism	LabPlus Auckland, NZ
Molecular testing -RT-PCR -HPV -HBV Viral Load	Yes Yes Yes		
Cytopathology -Gynae Cytology -Non-Gynae Cytology	Yes Yes	None	LabPlus Auckland, NZ
Histology	Yes	-ER/PR stain -Second opinion	LabPlus Auckland, NZ

D. EQA Providers

Institution	Panel name	No.of cycles provided
PPTC	Hematology, Molecular, Serology, Blood bank	3
	Biochemistry	2

E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit

F. Referral and Shipping Information

Recommended L2/L3 Referral Lab(s)	*LabPlus, ESR, New Zealand; Queensland Health Scientific Services Queensland, AU, WHO Abovirus Reference Centre, Brisbane, AU.	
IATA certified Trainers	Yes.....1..... Date Training License Expires:30.09.23	No
IATA certified Shippers	Yes.....4..... Date Shipping License Expires:3.08.22	No
Airline/Cargo companies the lab uses to ship to L2/L3 lab	Air New Zealand	

G: Laboratory Information System

Laboratory Information System (LIS)	Yes (LIS interphase with equipment & directly into HIS) Yes (LIS to equipment only) No Planned
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COUNTRY: TUVALU
LABNET DESIGNATION: L1



A: Personnel/Contact Information

Laboratory Name	PRINCESS MARGARET HOSPITAL LABORATORY
Lab Contact Name:	
Pathologist/Manager	Ms Puae & Taupesa.
Address	Lab Technician Ministry of Health-Health Department P. O Box 41, Funafuti, Tuvalu
E-mail	Laboratoryservices28@gmail.com
Phone	(688) 20480
Fax	(688) 20481
Sr. Tech/Other Contact	Ms Taupesa Latasi
E-mail	pesalatasi@gmail.com
Phone	(688) 20480/ (688) 7000392
Fax	(688) 20481
Laboratory Testing Performed	General lab testing, PPHSN disease testing

B: Target Disease Testing Information

Target Disease	Test Performed at Lab	Referred Test	Referral Lab-L2/L3 Location
Chlamydia	Gene Xpert (using CT/NG cartridges)	No	N/A
Cholera	No	No	N/A
Dengue	Yes	Confirmation	ESR
Chikungunya	NO		
Zika	NO		
Gonorrhoea	Gene Xpert (using CT/NG cartridges)	No	N/A

HIV	Determine, Unigold, Insti, Confirmation	CD4 & Viral Load	N/A
Influenza	Quidel-Rapid Test	PCR	Fiji CDC
SARS-CoV-2	YES	NO	PETER DOHERTY INSTITUTE
Leptospirosis	RDT	No	N/A
Measles	No	Confirmation	Fiji CDC
Rubella	No	Confirmation	Fiji CDC
Syphilis	VDRL	No	N/A
Tuberculosis	Direct smear-ZN stain Gene Xpert MTB cartridges	No	LabPlus, PPTC
Typhoid	No	ID, confirmation	CWM Hospital Suva, Fiji
Mpox	NO	YES	FIJI CDC

C.1 Clinical Diagnostic Tests

Test Parameters	Test Performed at Lab	Referred Test	Current Referral Lab
Haematology			
- Full Blood count & type of Analyser	- YES (XP 100)	- NO	- N/A
- Blood Film Analysis	- YES	- NO	- N/A
- Coagulation Profile	- YES(MANUAL)	- NO	- N/A
Biochemistry			
-RFTs	- YES	- NO	- N/A
-RBS	- YES	- NO	- N/A
-HbA1c	- YES	- NO	- N/A
-LFTs	- YES	- NO	- N/A
-Cardiac Enzymes	- YES	- NO	- N/A
-Lipid Profile	- YES	- NO	- N/A
-Tumour Markers	- YES	- NO	- N/A
Microbiology			
-Urinalysis (manual or automated)	- YES (MANUAL)	- NO	- N/A
- Blood Culture (manual or automated)	- NO	- NO	- N/A
-Culture	- YES	- NO	- N/A
-Identification (manual or automated)	- YES (MANUAL)	- NO	- N/A
- AST (manual or automated)	- NO	- NO	- N/A
- AST International Guidelines used	- NO	- NO	- N/A
-Fungal testing	- NO	- NO	- N/A
-Water testing	- NO	- NO	- N/A
-Food Testing	- NO	- NO	- N/A
Molecular testing			
-RT-PCR	- YES	- NO	- N/A
-HPV	- NO	- NO	- N/A
-HBV Viral Load	- NO	- NO	- N/A
Cytopathology			

-Gynae Cytology -Non-Gynae Cytology	- NO - NO	- YES - YES	- PSH - PSH
Histology			

D. EQA Providers

Institution	Panel name	No.of cycles provided
PACIFIC PARAMEDICAL TRAINING CENTRE		- 4

E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit

F. Referral and Shipping Information

Recommended L2/L3 Referral Lab(s)	Fiji Centre for Disease Control and *CWM Hospital Suva, Fiji	
IATA certified Trainers	Yes.....Number Certified Trainers: 0 Date Training License Expires:N/A	No
IATA certified Shippers	Yes.....Number Certified Shippers: 1 Date Shipping License Expires:.....	No
Airline/Cargo companies the lab uses to ship to L2/L3 lab	Fiji Airways (courier the lab use is DHL)	

G: Laboratory Information System

Laboratory Information System (LIS)	Yes (LIS interphase with equipment & directly into HIS) Yes (LIS to equipment only) No Planned
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COUNTRY: VANUATU
LABNET DESIGNATION: L1



A: Personnel/Contact Information

Laboratory Name	PORT VILA CENTRAL HOSPITAL LABORATORY
Lab Contact Name:	
Pathologist/Manager	Mr. George Pakoa Laboratory Manager
Address	Vila Central Hospital Private Mail Bag 013, Port Vila, Vanuatu
E-mail	jgpakoa@vanuatu.gov.vu
Phone	(678) 22100
Fax	(678) 26721
Sr. Tech/Other Contact	Mr. Raymond Seule-Laboratory Officer
E-mail	rseule@vanuatu.gov.vu
Laboratory Testing Performed	General lab testing, PPHSN disease testing

B: Target Disease Testing Information

Target Disease	Test Performed at Lab	Referred Test	Referral Lab-L2/L3 Location
Chlamydia	Molecular Probetech	No	N/A
Cholera	Presumptive culture	Yes	Medipole New Caledonia
Dengue	SD Dengue Combo NS1/IgM/IgG	Confirmation	WHO Arbovirus Reference Centre, Brisbane, IPNC
Chikungunya			
Zika			
Gonorrhoea	Gram stain, culture Molecular ProbeTech	NO	
HIV	Determine, Unigold, Insti, Viral Load	NO	
Influenza	Quidel-Rapid Test Fluorescent stain	PCR	WHOCC Melbourne
SARS-CoV-2			
Leptospirosis	Elisa IgM	PCR	Institute Pasteur New Caledonia Queensland, AU
Measles	No	Yes	Fiji CDC
Rubella	No	Yes	Fiji CDC
Syphilis	TPPA, RPR, Titer	No	N/A
Tuberculosis	Direct smear-ZN stain Gene Expert	Limited culture/ID, sensitivity	Qnsld. Mycobact. Ref. Lab Brisbane, AU
Typhoid	Presumptive culture	Yes	Medipole New Caledonia
Mpox			

C.1 Clinical Diagnostic Tests

Test Parameters	Test Performed at Lab	Referred Test	Current Referral Lab
Haematology - Full Blood count & type of Analyser - Blood Film Analysis - Coagulation Profile			
Biochemistry -RFTs -RBS -HbA1c -LFTs -Cardiac Enzymes -Lipid Profile -Tumour Markers			
Microbiology -Urinalysis (manual or automated) - Blood Culture (manual or automated) -Culture -Identification (manual or automated) - AST (manual or automated) - AST International Guidelines used -Fungal testing -Water testing -Food Testing			
Molecular testing -RT-PCR -HPV -HBV Viral Load			
Cytopathology -Gynae Cytology -Non-Gynae Cytology			
Histology			

D. EQA Providers

Institution	Panel name	No.of cycles provided

E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit

F.

Referral and Shipping Information

Recommended L2/L3 Referral Lab(s)	Pasteur Institute, New Caledonia; Qnsld. Health Sci Serv. Queensland, AU; *Qnsld. Mycobact Ref Lab, Brisbane, AU, Fiji CDC,WHO Arbovirus Reference Centre, Brisbane, AU	
IATA certified Trainers	Yes.....Number Certified Trainers:..... Date Training License Expires:.....	No
IATA certified Shippers	Yes.....Number Certified Shippers:..... Date Shipping License Expires:.....	No
Airline/Cargo companies the lab uses to ship to L2/L3 lab	Air Carlin, Air Vanuatu	

G: Laboratory Information System

Laboratory Information System (LIS)	Yes (LIS interphase with equipment & directly into HIS) Yes (LIS to equipment only) No Planned
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COUNTRY: WALLIS & FUTUNA
LABNET DESIGNATION: L1



A: Personnel/Contact Information

Laboratory Name	SIA HOSPITAL LABORATORY		
Lab Contact Name:	Pathologist/Manager	Dr. Jean Claude Grignon, Biologiste Laboratoire	
	Address	Agence de Santé du Territoire des Iles Wallis et Futuna B.P. 4G, 98600 Mata-Utu, Wallis et Futuna	
	E-mail	biologiste@adswf.fr	
	Phone	(681) 72 07 00	
	Fax	(681) 72 11 80	
	Sr. Tech/Other Contact		
	E-mail		
Laboratory Testing Performed	General lab testing, PPHSN disease testing		

B: Target Disease Testing Information

Target Disease	Test Performed at Lab	Referred Test	Referral Lab-L2/L3 Location
Chlamydia	TDR Biosynex Chlamytop PCR Xpert CT/NG	No	N/A
Cholera	Culture/ID, serotyping	No	N/A
Dengue	Panbio Dengue early rapid Platelia Dengue NS1 Ag Dengue duo cassette IgG, OgM	PCR TYPING	CHT Gaston Bourret New Caledonia
Chikungunya			
Zika			
Gonorrhoea	PCR Xpert CT/NG Culture, ID	No	N/A

HIV	Elecsys HIV COMPT	No	N/A
Influenza	TRD BIOSYNEX Influenzaetop PCR Xpert Xpress FluRSV	PCR	
SARS-CoV-2	RT-PCR Xpress Xpert SARS-2 Panbio COVI-19 Ag RAPID Biosynex COVID-19 Ag BSS		
Leptospirosis	Panbio Leptospira IgM Elisa	Confirmation by MATT	Institut Pasteur New Caledonia
Measles	Vidas MSG		
Rubella	Elecsys Rubella IgG	No	
Syphilis	VDRL Fumouze, Elecsys Syphilis	Confirmation	Institut Pasteur New Caledonia
Tuberculosis	PCR Xpert MTB/RIF ultra	Direct smear, culture, ID, sensi	CHT Gaston Bourret New Caledonia
Typhoid	Culture/ID/Sensitivity	No	N/A
Mpox			

C.1 Clinical Diagnostic Tests

Test Parameters	Test Performed at Lab	Referred Test	Current Referral Lab
Haematology -Full Blood count & type of Analyser - Blood Film Analysis - Coagulation Profile	Sysmex XS-1000i (2) Manual (MGG) STA COMPACT STAGO (2)		
Biochemistry -RFTs -RBS -HbA1c -LFTs -Cardiac Enzymes -Lipid Profile -Tumour Markers	VITROS 350 VITROS 350 D-10 BIO RAD (2) VITROS 350 Mini Vidas and VITROS 350 VITROS 350 Mini Vidas and Cobas e411		
Microbiology -Urinalysis (manual or automated) - Blood Culture (manual or automated) -Culture -Identification (manual or automated) - AST (manual or automated) - AST International Guidelines used -Fungal testing -Water testing -Food Testing	Manual Bact/Alert Manual Vitech 2 Vitech 2 Vitech 2, manual No No		
Molecular testing -RT-PCR -HPV -HBV Viral Load	Xpert Xpress SARS-COV-2 Xpert HPV Xpert HBV viral load		

Cytopathology -Gynae Cytology -Non-Gynae Cytology	No No		
Histology	No		

D. EQA Providers

Institution	Panel name	No.of cycles provided
EQAS BIO-RAD	Biochimie Clinique Mensuel Programme mensuel d'immunoessais	Cycle 21 Cycle 19
PPTC Pacific Pathology Training Centre	Blood Bank Haematology Microbiology Covid-19	Cycle 2022 1 and 2 Cycle 2022 1 and 2 Cycle 2022 1 and 2 Cycle 2022 1 and 2

E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit

F.

Referral and Shipping Information

Recommended L2/L3 Referral Lab(s)	Pasteur Institute, New Caledonia	
IATA certified Trainers	Yes.....Number Certified Trainers:..... Date Training License Expires:.....	No
IATA certified Shippers	Yes.....Number Certified Shippers:..... Date Shipping License Expires:.....	No
Airline/Cargo companies the lab uses to ship to L2/L3 lab	Air Caledonie International (airline) TTI-SDV Noumea (Shipper Company)	

G: Laboratory Information System

Laboratory Information System (LIS)	Yes (LIS interphase with equipment & directly into HIS) Yes (LIS to equipment only) No Planned
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SECTION 2

L2 LABORATORY SITES:

No.	Country/Territory
1	Fiji Centre for Disease Control
2	Institute Louis Malarde, French Polynesia
3	Guam Public Health Laboratory, Guam
4	Institute Pasteur New Caledonia

Note: In this section, * indicates a commercial or government laboratory, not in the PPHSN-LabNet list. These laboratories have been contracted by the country or jurisdiction and it is important to include them in the catalog for a complete understanding of all testing provisions available in the region.

COUNTRY: FIJI
LABNET DESIGNATION: L2



A: Contact/General Information

Laboratory Name	FIJI CENTRE FOR DISEASE CONTROL		
Lab Contact Name(s):			
Lab Main Contact	Dr Aalisha Sahukhan (Head of Health Protection)		
Address	Fiji Centre for Disease Control, Mataika House Building 30, Tamavua Hospital P.O. Box 1634, Suva, Fiji		
E-mail	aalisha@gmail.com (679)		
Phone	3 320 -066		
Fax	(679) 3 322-714		
Lab Manager Contact	Talica Cabemaiwai (FCDC)/Ravendra Prasad (CWMH)		
E-mail	tcabe25@gmail.com	ravendra.prasad@health.gov.fj	
Ph	(679) 3 320 066	679 3215571	
Fax	(679) 3 320 344		
Laboratory Testing Performed	Only PPHSN disease serology testing		

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Lab	Referred Test	Referral Lab-L2/L3 Location
Chlamydia	No	No	Testing done at Divisional Labs
Cholera	No	No	N/A
Chikungunya	ELISA SD-IgM	No	N/A
Dengue	PanBio-IgG/IgM RT-PCR - Serotype	Confirmation	Qnsld. Health Scientific Serv. Queensland, AU
Gonorrhoea	No	No	Testing done at Divisional Labs
HIV	Gene X-pert- Early Infant diagnosis, Viral Load	No	N/A
Influenza	RT-PCR	Genotyping, vaccine studies	WHO-CC- Melbourne, AU
SARS-CoV-2			
Leptospirosis	PanBio IgM, RT-PCR	Confirmation	Qnsld. Health Scientific Serv. Queensland, AU; Institut Pasteur of New Caledonia
Measles	ELISA Euroimmun Measles IgM,RT- PCR	Genotyping	VIDRL, AU
Rubella	ELISA Euroimmun Rubella IgM,RT- PCR	Genotyping	VIDRL, AU
Syphilis	No	No	Syphilis testing done at Fiji divisional hospitals
Tuberculosis	No	No	All Fiji TB testing performed at Tamavua Hospital, Fiji
Typhoid	No	No	N/A

C. Shipping Information

Recommended L2/L3 Referral Lab(s)	Pasteur Institute, New Caledonia; Qsld. Health Sci Serv. Qsld, AU; *Qnsld. Mycobact Ref Lab, Brisbane, AU; VIDRL, AU ; WHO-CC Melbourne, AU; CWM Hospital Suva, Fiji
IATA certified shippers	Yes
Airline/Cargo companies the lab uses to ship to L2/L3 lab	TNT and Williams & Goslings Ltd- Ms Hanisi Taito Fiji Airways

COUNTRY: FRENCH POLYNESIA
LABNET DESIGNATION: L2



A: Contact/General Information

Laboratory Name	INSTITUTE LOUIS MALARDE
Lab Contact Name(s):	
Lab Main Contact Address	Dr. Elsa DUMAS CHASTANG, Pharmacien Biologiste B. P. 30 98713 Papeete, Tahiti, Polynésie française
E-mail	edumaschastang@ilm.pf
Phone	(689) 40 41 64 70
Fax	(689) 40 43 15 90
Sr. Tech/Other Contact	Dr Cédric MOU CHI SAN; Dr Raphaëlle BOS
E-mail	cmouchisan@ilm.pf ; rbos@ilm.pf
Phone	(689) 40 41 64 22; (689) 40 41 64 32
Fax	(689) 40 41 64 94
Laboratory Testing Performed	Full service lab testing-routine lab testing, full microbiology and TB, molecular testing, all PPHSN disease testing

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Lab	Referred Test	Referral Lab – L2/L3 Location
Chlamydia	PCR	No	N/A
Cholera	No	No	N/A
Dengue	PanBio-IgM, PCR (serotyping)		N/A
Chikungunya	PCR	No	N/A
Zika	PCR	No	N/A
Gonorrhoea	Culture/ID	No	N/A
HIV	EIA, PCR viral load	No	N/A
Influenza	PCR (subtyping)	Genotyping	WHO-CC Melbourne, AU
SARs-CoV-2			
Leptospirosis	PanBio-IgM, PCR	Typing	Cerba laboratory-France
Measles	WHO-IgM	IgG, IgM	Cerba laboratory-France
Rubella	IgG/IgM Cobas	No	N/A
Syphilis	TPHA, VDRL	No	N/A
Tuberculosis	Direct smear-ZN stain, culture/ID, sensitivity	Genotyping	Cerba laboratory-France
Typhoid	Culture/ID	No	N/A

C. Shipping Information

Recommended L2/L3 Referral Lab(s)	WHO-CC Melbourne, AU; * Institut Pasteur Referral Labs France
IATA certified shippers	Yes
Airline/Cargo companies the lab uses to ship to L2/L3 lab	Air France, Air Tahiti Nui, Air New Zealand

COUNTRY: GUAM
LABNET DESIGNATION: L2



A: Contact/General Information

Laboratory Name	GUAM PUBLIC HEALTH LABORATORY
Lab Contact Name(s):	
Lab Main Contact Address	Ms. Anne Marie Santos – Laboratory Administrator 123 Chalan Kareta Mangilao, Guam 96913
E-mail	annemarie.santos@dphss.guam.gov (671)
Phone	735-7153
Fax	(671) 735-0348
Sr. Tech/Other Contact	Mr. Alan John Mallari, Microbiologist II; Ms. Lea Nisay, Microbiologist I
E-mail	alan.mallari@dphss.guam.gov ; lea.nisay@dphss.guam.gov
Phone	(671) 735 7141; (671) 735-7170
E-mail	Ms. Mary Jean Jacar – Laboratory Consultant/Supervisor jean.jacar@yahoo.com
Laboratory Testing Performed	General lab testing, PPHSN disease testing

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Lab	Referred Test	Referral Lab-L2/L3 Location
Chlamydia	Cepheid Xpert CT/NG (PCR)	No	N/A
Cholera	No	Yes	Diagnostic Lab Services Guam
Dengue	Triplex (Dengue/Chikungunya/Zika) PCR	Serology	CDC Dengue Reference Lab, Puerto Rico
Gonorrhoea	Cepheid Xpert CT/NG (PCR), GC culture/ID, sensitivity	No	N/A
HIV	Alere Determine HIV ½ Ag/Ab Combo	Confirmation, Viral load, CD4	Diagnostic Lab Services Honolulu-Hawaii, USA
Influenza	Direct Fluorescent Assay stain, BD Veritor Flu A+B, Cepheid Xpert Xpress FLU/RSV, PCR (detection-subtyping)	No	N/A
SARS-CoV-2			
Leptospirosis	Linnodee Leptorapide	Confirmation-serology, PCR	WHO-CC, Melbourne, Australia
Measles	ELISA-Siemens	Confirmation-serology	CDC Atlanta, USA
Rubella	ELISA-Siemens	No	N/A
Syphilis	RPR, TPPA	No	N/A

C. Shipping Information

Recommended L2/L3 Referral Lab(s)	*Diagnostic Lab Services; *Univ of Hawaii-Trop. Med Dept Hawaii, USA; *CDC Atlanta, USA; WHO-CC Melbourne, AU
IATA certified shippers	Yes
Airline/Cargo companies the lab uses to ship to L2/L3 lab	United Airlines

COUNTRY:
LABNET DESIGNATION:

NOUVELLE-
CALEDONIE
L2



A: Contact/General Information

Laboratory Name	INSTITUT PASTEUR OF NEW CALEDONIA
Lab Contact Name(s):	
Lab Main Contact Address	Dr Cyrille Goarant – Vet D, PhD Institut Pasteur de Nouvelle-Calédonie B.P. 61 98845 Noumea Cedex, Nouvelle Calédonie_
E-mail	cgoarant@pasteur.nc
Phone	(687) 27 75 31
Fax	(687) 27 33 90
Sr. Tech/Other Contact	Dr Myrielle Dupont-Rouzeyrol, PhD
E-mail	mdupont@pasteur.nc
Phone	(687) 27 75 30
Fax	
Laboratory Testing Performed	Arboviruses and Leptospirosis testing

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Lab	Referred Test	Referral Lab – L2/L3 Location
Chlamydia	No	N/A	N/A
Cholera	N/A	N/A	N/A
Dengue	RT-PCR (detection includes dengue, chikungunya, Zika and other arboviruses – dengue typing), Sequencing, Virus isolation, PRNT (dengue, Zika, chikungunya, RRV...) for research purpose	No	N/A
Gonorrhoea	N/A	N/A	N/A
HIV	N/A	N/A	N/A
Influenza	N/A	N/A	N/A
SARS-CoV-2			
Leptospirosis	MAT (Microagglutination test), PCR, Sequencing for research purpose	No	N/A
Measles	N/A	N/A	N/A
Rubella	N/A	N/A	N/A
Syphilis	N/A	N/A	N/A
Tuberculosis	N/A	N/A	N/A
Typhoid	N/A	N/A	N/A

C. Shipping Information

Recommended L2/L3 Referral Lab(s)	Institut Pasteur Referral Labs or CIBU, Paris, France
IATA certified shippers	Yes
Airline/Cargo companies the lab uses to handle shipments	Air Calin, Freight forwarder : ACT Nouméa, Adélie Plourdeau, Ph (687) 27 04 38, Fax : (687) 28 61 30, export@act.nc

SECTION 3

L3 LABORATORIES:

No.	Country, City or State	Name Of Laboratory
1	Australia, Adelaide	*Institute of Medical and Veterinary Science (IMVS)
2	Australia, Victoria	National Serology Reference Laboratory (NRL)
3	Australia, Queensland	*Queensland Mycobacterium Reference Laboratory (QMRL)
4	Australia, Queensland	*Queensland Medical Laboratories (QML)
5	Australia, Queensland	WHO Arbovirus Reference Centre (QUT)
6	Australia, Melbourne	Victoria Infectious Diseases Reference Laboratory (VIDRL)
7	Australia, Melbourne	WHO-Collaborating Center for Influenza (WHO-CC)
8	France	*Pasteur Institute
9	New Caledonia	Pasteur Institute (IPNC)
10	New Zealand, Porirua	Institute of Environmental Science and Research (ESR)
11	New Zealand, Auckland	*Lab Plus
12	USA, Atlanta	Centers for Disease Control Laboratories (CDC)
13	USA, Hawaii	*Diagnostic Lab Services (DLS)
14	USA, Hawaii	State of Hawaii Public Health Laboratory (HSL)
15	USA, Hawaii	*University of Hawaii-School of Tropical Medicine (UHTM)

* Indicates a commercial or government laboratory, not in the PPHSN-LabNet list. These laboratories have been contracted by the country or jurisdiction and it is important to include them in the catalog for a complete understanding of all testing provisions available in the region.

L3 Laboratory: Victorian Infectious Diseases Reference Laboratory (VIDRL)

Country: Australia

Polio Testing

Victorian Infectious Diseases Reference Laboratory (VIDRL) at The Peter Doherty Institute for Infection and Immunity (The Doherty) acting through Melbourne Health is the WHO national poliovirus reference laboratory for the Pacific Island countries and territories (PICTs), in addition to its role as a regional poliovirus reference laboratory for the Western Pacific region. VIDRL is also a WHO Western Pacific regional reference laboratory for measles. VIDRL provides a LabNet Level 3 service to PICTs as part of its WHO regional reference laboratory role.

The WHO role of VIDRL includes testing for polioviruses from all patients with acute flaccid paralysis, and testing for measles virus in suspected cases or outbreaks. The differential diagnosis of measles testing includes testing for rubella and human parvovirus. In general, VIDRL will test 10–20 specimens from an outbreak at no cost, but transport to VIDRL needs to be arranged and paid for by the referring laboratory. Results are sent by e-mail or fax whenever possible, with a paper copy to follow.

Contact Information

For specific enquiries about poliovirus testing, contact should be made directly with the laboratory. It is important to contact the laboratory prior to each shipment.

To contact the polio testing laboratory

Bruce Thorley, PhD

National Enterovirus Reference Laboratory

WHO Polio Regional Reference Laboratory

Victorian Infectious Diseases Reference Laboratory

Ph: +61 3 9342 2607

Email: polio@mh.org.au

The Peter Doherty Institute for Infection and Immunity

792 Elizabeth Street, Melbourne, Victoria, Australia 3000

Specimen Instructions

All specimens from AFP cases and enterovirus isolates for testing and identification should be forwarded to the poliovirus reference laboratory at VIDRL. Samples must be safely packaged to ensure that there is no leakage in transit. Sufficient ice bricks should be included to keep the contents chilled in case of delays in delivery. Include a label 'Shipment to be kept at 4°C whenever possible'. Shipments sent by air must adhere to airline safety regulations as specified for:

- diagnostic specimens IATA packing instruction 650; and
- Infectious substance IATA packing instruction 602.

All specimens must be packed strictly in accordance with airline and IATA regulations for shipping biological specimens:

For further details on shipping, refer to the WHO guidelines for safe transport:

<https://www.who.int/publications/i/item/9789240019720>

Virus isolates and clinical specimens arriving from outside Australia will require an Australian Quarantine Inspection Service (AQIS) import permit, which is available upon request. A copy (fax or photocopy is acceptable) of the import permit **MUST BE INCLUDED** with the shipping documents and the package.

Please contact the Senior Scientist to obtain a valid import permit, using the appropriate contact information above.

L3 Laboratory: Queensland Health Forensic Scientific Services (QHFSS)

Country: Australia

1. Testing Information

Leptospirosis

- ❑ PCR – bacterial DNA detection
- ❑ MAT – serological detection and serotyping
- ❑ Serum 0.2mL minimum volume
- ❑ Frozen or +4°C (frozen preferred)

Note: This testing is performed by Scott Craig of the WHO/OIE Leptospirosis Collaborating Centre, which is located in an adjoining laboratory.

Virology

- ❑ PCR – virus DNA/RNA detection (e.g. Rabies/Australian Bat Lyssavirus, Flaviviruses, Alphaviruses, other exotic viral diseases where medically warranted and requested by senior medical officers in the Departments of Health of Pacific Island countries)
- ❑ Serology – detection of antigen antibody in serum
- ❑ Serum 0.5mL minimum volume
- ❑ Frozen or +4°C

2. Specimen Instructions

For all samples

Required information: Patient name; date of birth; referring lab identifying number

Preferred information (in addition to above): Sex, date of onset, date of collection, recent vaccination, recent overseas travel history

3. Contact Information

Frederick Moore – all viral testing, **Scott Craig** – leptospirosis testing
Public Health Virology
Queensland Health Forensic Scientific Services
39 Kessels Road
COOPERS PLAINS QLD 4109
AUSTRALIA
Ph: +61 7 3096 2899 (Fred Moore), +61 7 3096 2816 (Scott Craig)
Fax: +61 7 3096 2878
E-mail: Frederick.moore@health.qld.gov.au, scott.craig@health.qld.gov.au

Additional information regarding the services provided by QHFSS can be obtained at its website:
<https://www.health.qld.gov.au/healthsupport/businesses/forensic-and-scientific-services/testing-analysis/diseases>.

4. Specimen Shipping Instructions

Guidelines for sending serum samples to QHSS (arboviruses and leptospirosis)

The Department of Agriculture and Water Resources (DAgWR – formerly AQIS) strictly enforces the regulations regarding the transport of all material (including diagnostic specimens) into Australia. Unless all of the documentation has been completed correctly and the samples have been packaged according to IATA guidelines, they will refuse to release the material and it may be destroyed.

These requirements are in addition to what the airline may require. You will need to fulfil all of the requirements of the airline as well as those listed below.

- ☑ All documentation must be signed (it is not sufficient to type your name).
- ☑ A list of the contents (called a 'Suppliers Declaration') AND a copy of a current import permit must be affixed to the outside of the container (it is a good idea to include a copy on the inside as well). The documents attached on the outside of the package should be in an envelope with the label '**Attention Quarantine**'.
- ☑ Please include all the information below on the declaration on your company letterhead for Suppliers Declaration (see example below):
 - Air Way Bill number
 - The date
 - Description of the goods being shipped: eg Human serum for Leptospirosis serological testing. Samples taken from persons with no signs and symptoms of the diseases listed in section XXX of the Permit 0000XXXXXXXX.
 - Origin of the goods – eg Human
 - The reason for exporting the material: eg. Laboratory testing
 - The Import Permit Number – in this case: eg Permit 0000784593 (valid between 14 June 2017 and 14 June 2019) for Import of Human fluids and Tissues.
 - The Import Permit Condition – in this case: Permit condition X which is on page 4 of the permit.

Suppliers Declaration

To: Frederick Moore (*or S. Craig for lepto*)
 Queensland Health Scientific Services 39
 Kessels Road
 COOPERS PLAINS QLD 4109
 AUSTRALIA
 Ph: +61 7 3096 2899 (*or +61 7 3096 2816 for Scott Craig*)

Date:

Air Waybill Number:

**DAGWR permit number (contact the laboratory to obtain the current DAGWR permit number to use)
 Permit Condition and Page number**

The package contains a total of 7 vials consisting of:
 4 x vials each containing 0.5mL of human serum for diagnostic purposes
 3 x vials each containing 1.0mL of human serum for diagnostic purposes

Tests requested: Dengue exclusion (*or lepto or other arbovirus*) Signature

Joe Bloggs Scientist-
 in-charge
 A Pacific Island Country Health Facility
 Phone number: Fax number:

WHO Measles Regional Reference Laboratory of the Western Pacific Region – Melbourne (WHO-MRRL)

Country: Australia

1. General Information

The WHO Measles Regional Reference Laboratory in Melbourne is one of three regional reference laboratories in the Western Pacific Region (WPR). The other regional reference laboratories are located in Hong Kong and Beijing. All three laboratories provide technical support, guidance and hands-on training to the national measles laboratories of the WPR. These laboratories form part of a regional and global network of laboratories involved in the detection of disease and case-based surveillance for achieving elimination of endemic measles and rubella transmission.

For more information, see the website: <https://www.who.int/immunization/diseases/measles/en/>

As part of its WHO regional reference laboratory role, the WHO-MRRL in Melbourne conducts serologic and molecular investigation of suspected measles and rubella cases. The laboratory also performs extensive molecular investigation of samples to determine measles and rubella genotypes circulating in countries of the WPR. The laboratory's website has details of relevant contact people and location.

For further details, see www.vidrl.org.au

2. Contact Information

Contact persons

Dr Mike Catton

Director

Dr Julian Druce

Section Head, Virus Identification Laboratory

Ms Suellen Nicholson

Section Head, Infectious Diseases Serology Laboratory

Mr Thomas Tran

Deputy Senior Scientist, Virus Identification Laboratory

Ms Vicki Stambos

Scientist, WHO Measles Regional Reference Laboratory (WPR)

Shipping address

Scientist in charge

WHO Regional Measles Reference Laboratory of WPR

Victorian Infectious Diseases Reference Laboratory

The Doherty Institute

792 Elizabeth Street

Melbourne

3000 Victoria

AUSTRALIA

Direct Ph (Infectious Diseases Serology): +61 3 9342 9646 Fax: +61 3 9342 9676

Direct Ph (Virus Identification Laboratory): +61 3 9342 9623 Fax: +61 39342 9629

VIDRL Ph: +61 3 9342 9600

Note: Please contact the Virus Identification Laboratory for molecular testing or Infectious Diseases Laboratory for serologic testing before shipping any specimens.

3. Testing Information

Tests available

Detection of immunoglobulin G (IgG) and immunoglobulin M (IgM) antibodies to measles and rubella using commercial enzyme-immunoassay kits is performed in the Infectious Diseases Serology Laboratory. Real-time RT-PCR for measles and rubella as well as sequencing of wild type strains is conducted in the Virus Identification Laboratory. The laboratory also performs rapid testing using a real-time PCR assay for the identification of vaccines strains.

4. Specimen Requirements

Maximum number of samples and cost of testing

The number of samples referred to WHO-MRRL will be determined by senior personnel at the referring laboratory, WHO-MRRL and the laboratory coordinator of the WPR. WHO-MRRL performs serologic and molecular testing of specimens referred by designated national measles laboratories within the WPR at no cost to the referring laboratory.

Required patient / sample details

- ID: Lab number or reference number or name
- Sample: Date of sample, type of sample (NPA, nose/throat swab, urine, serum, etc)
- Patient details: Date of birth, sex, date of rash onset, immunization status, clinical details A

template for completion of these details can be emailed to the shipping laboratory on request.

Samples and minimum volumes required

The following samples are accepted by WHO-MRRL for the purpose of diagnosis and confirmation of measles or rubella infection:

By serologic methods: IgM and IgG detection

Sample type	Volume required	Suitable collection time	Comments	Suitability (1=most suitable, 3= least suitable)
Serum */ Plasma	300 microlitres*	Between 4 and 28 days post rash onset		1
Dried venous blood	3 (14mm) full blood spot dried on filter paper	Between 4 and 28 days post rash onset	Can be whole blood, finger or heel prick	1

*For specimens deviating from the volume specified, please contact WHO-MRRL: measles@vidrl.org.au

By molecular methods: virus RNA detection and genotyping

These volumes are additional to that required for serology. Samples for RNA detection should not be frozen prior to shipping but should remain cold (4°C).

Sample type	Additional volume required	Suitable collection time	Comments	Suitability (1=most suitable, 3= least suitable)
nose/throat swab or nasopharyngeal swab or nasal aspirate	200 microlitres	Up to 3 weeks post rash onset	Swab placed in sterile Viral Transport Medium or PBS	1
urine	200 microlitres	Up to 4 weeks post rash onset		2
oral fluid collected using device recommended in WHO manual	200 microlitres	Within 14 days of rash onset	Sampling device must not contain serum stabilizer	2
dried venous blood	1 (14mm) full blood spot dried on filter paper	Within 7 days of rash onset	Can be whole blood, finger or heel prick	2
Serum*/Plasma	200 microlitres	Within 7 days of rash onset		2
PBMC (peripheral blood mononuclear cells from EDTA or heparinised blood)	200 microlitres	Up to 3 weeks post rash onset		3

5. Shipping Instructions

Shipping conditions

Samples for serologic testing can be shipped at ambient temperature. Samples for RNA detection should not be frozen prior to shipping but should remain cold (4°C). It is preferable that all shipments be sent at the beginning of the week to enable maximum time for clearance at customs and avoid unnecessary delay. It is recommended that the sender discuss the method of shipping with WHO-MRRL prior to shipping samples by email:

measles@vidrl.org.au

Shipping costs

Shipping costs incurred are at the sender's expense.

Administration/customs information

ALL samples sent to WHO-MRRL from outside Australia MUST have:

1. a customs declaration of imported goods (description of goods, volume, quantity, statement of value, packed according to IATA guidelines, diagnostic specimens not for commercial use, country of origin) on your own letterhead; and
2. the AQIS import permit (applicable if samples other than serum are shipped).

A template for 1 and a pdf copy of 2 can be e-mailed to the laboratory prior to shipping. The forms MUST accompany the package.

All diagnostic specimens (shipped as Biological substance, Category B) must be packaged according to IATA 650 guidelines (or P650).

All infectious substances must be packaged according to IATA 620 guidelines (or P620).

For packing instructions, see the **IATA Dangerous goods regulations**: <http://www.iata.org>

Include AQIS customs import permit (if applicable), and label box with appropriate storage conditions.

Exempt

Dried blood spots collected for blood screening tests may be transported to the laboratory at ambient temperature. However, the samples must be thoroughly dry before they are packed and transported. Dried blood spots are NOT subject to IATA Dangerous Goods Regulations. For further information refer to <http://www.iata.org>

COVID-19 REFERENCE LABORATORIES FOR THE PACIFIC

Laboratory and contact	Shipping requirements	Turnaround time for results	Preferred shipping agent	Testing cost (as of 18/2/20)
Victorian Infectious Disease Reference Laboratory (VIDRL) Melbourne Health 792 Elizabeth Street Melbourne, VIC, 3000 Australia Dr Julian Druce Julian.Druce@mh.org.au	Cat B Box (refer to Table 1 on guide for sample collection and storage)	24 hours from receipt	World Courier Import permit already shared with countries	Free
Institut Louis Malardé (ILM) Pharmacienne Biologiste BP 30 - 98713 Papeete, Tahiti Polynésie Française Raphaëlle Bos rbos@ilm.pf	Cat B Box (refer to Table 1 on guide for sample collection and storage)	24 hours from receipt	No preference	Please consult WHO Pacific2019nCoV@who.int
Medipole Laboratoire de Microbiologie 110, boulevard Joseph-Wamytan BPJ5, 98849 Noumea New Caledonia Dr Ann-Claire Gourinat Ann-Claire.GOURINAT@cht.nc	Cat B Box (refer to Table 1 on guide for sample collection and storage)	24 hours from receipt	No preference Import permit not required	Not exceeding 15000XPF
ESR NCBI 66 Ward Street Wallaceville Upper Hutt 5018 New Zealand Angela Brounts angela.brounts@esr.cri.nz	Cat B Box (refer to Table 1 on guide for sample collection and storage)	24 hours from receipt	World Courier Import permit not required	Please consult WHO Pacific2019nCoV@who.int
United States CDC 1600 Clifton Road NE Atlanta GA 30329, USA Sixiang Tong sot1@cdc.gov Stephen Lindstrom sql5@cdc.gov	Follow CDC shipping guidelines from USAPI to CDC	24 hours from receipt	Follow USCDC shipping guidelines from USAPI to CDC	Reference lab for U.S. Affiliated Pacific Islands (USAPI) ⁶

Hawaii State Laboratory 2725 Waimano Home Road Pearl City, Hawaii, 96782, USA Dr. Sarah Park sara.park@doh.hawaii.gov Ed Desmon Edward.desmond@doh.hawaii.gov	Follow USCDC shipping guidelines from USAPI to Hawaii	24 hours from receipt	Follow USCDC shipping guidelines from USAPI to CDC	Reference lab for U.S. Affiliated Pacific Islands (USAPI)
Guam Public Health Laboratory RAN-CARE Commercial Building Centam 3rd Floor, Suite A-3 761 South Marine Corps Drive Tamuning, GUAM 96913 Anne-Marie Santos annemarie.santos@dphss.guam.gov	Cat B Box (refer to Table 1 on guide for sample collection and storage)	24 hours from receipt	United Airlines/Air Pacific Airlines/Pacific Cargo	Reference lab for U.S. Affiliated Pacific Islands (USAPI)

L3 LABORATORIES (WHO COLLABORATING LABORATORIES)

1.	Australia	WHOCC for Influenza Melbourne (VIDRL)	Dr Patrick Reading preading@unimelb.edu.au	Ph: +613 9342 9300 Fax: +613 9342 9329
2.	Australia	WHOCC for Measles Melbourne (VIDRL)	Dr Mike Catton mike.catton@mh.org.au	Ph: 613 9342 9600 Fax: 613 9342 9696
3.	Australia	WHOCC for Arbovirus Queensland (QUT)	Dr John Aaskov j.aaskov@qut.edu.au	Ph: 617 3138 6193
4.	Australia	WHOCC for Leptospirosis Queensland (QHFSS)	Dr Lee Smythe lee.smythe@health.qld.gov.au	Ph: +617 3274 9151 Fax: +617 3000 916

L3 LABNET LABORATORIES

5.	New Zealand	Institute for Environment Science & Research/National Centre for Biosecurity for Infectious Disease Wellington (ESR/NCBID)	Dr Virginia Hope Virginia.hope@esr.cri.nz	Ph:64 4 27 65 35 681 Fax: 64 4 529 0601
6.	Australia	National Reference Laboratory (NRL) Melbourne	Dr Kim Wilson kim@nrlquality.org.au	Ph:61 3 94181156
7.	Australia	Queensland Health & Forensic Science (QHFSS)	Dr Alyssa Pyke Alyssa_pyke@health.qld.gov.au	Ph: +617 3274 9151 Fax: +617 3000 916
8.	Hawaii	Hawaii State Laboratory, Honolulu	Dr A C Whelen chris.whelen@doh.hawaii.gov	Ph: (808) 453 5993 Fax: (808) 251-4014
9.	Australia	New South Wales State Reference Laboratory for HIV	Philip Cunningham p.cunningham@amr.org.au	Ph: +61 2 8382 4900 Fax: +61 2 8382 4901

COVID-19

COVID-19 disease caused by SARS-CoV 2, a novel coronavirus first detected in Wuhan City, Hubei Province, China in December 2019. SARS-CoV 2 is a zoonotic virus¹, bats appear to be the reservoir of the virus, but the intermediate host(s) has not yet been identified. COVID-19 disease is a fast-moving infection that rapidly spread to countries outside of China fuelled by air and sea travel (cruise ships) that by 30 January 2020, COVID-19 disease was declared a Public Health Emergency of international Concern (PHEIC) under the International Health Regulation 2005. By 11 March 2020, more than 113 countries were affected with about 120,000 cases recorded and COVID-19 disease was declared a pandemic. The epicenter of the pandemic has shifted from China, to Europe then to USA and now to Brazil and the Americas. As of 11 June 2020, a total of 7,302,445 cases and 413,439 deaths recorded in 188 countries² according to the COVID-19 Dashboard by the Center for Systems, Science and Engineering (CSSE) at the Johns Hopkins University (JHU). Further updated information on COVID-19 disease can be found in the WHO Situational Report No. 142³ on 10 June 2020.

Laboratory Diagnosis:

Currently all PICT are using Xpert Xpress SARS-CoV-2 test, a real-time RT-PCR test (closed system) intended for the qualitative detection of nucleic acid from the SARS-CoV-2 in upper respiratory specimens (such as nasopharyngeal, oropharyngeal, nasal, or mid-turbinate swab and/or nasal wash/ aspirate) collected from individuals suspected of COVID-19 by their healthcare provider.

Results are for the detection of SARS-CoV-2 RNA. The SARS-CoV-2 RNA is generally detectable in upper respiratory specimens during the acute phase of infection. Positive results are indicative of active infection with SARS-CoV-2; clinical correlation with patient history and other diagnostic information is necessary to determine patient infection status. Positive results do not rule out bacterial infection or co-infection with other viruses. The agent detected may not be the definite cause of disease.

Negative results do not preclude SARS-CoV-2 infection and should not be used as the sole basis for treatment or other patient management decisions. Negative results must be combined with clinical observations, patient history, and epidemiological information.

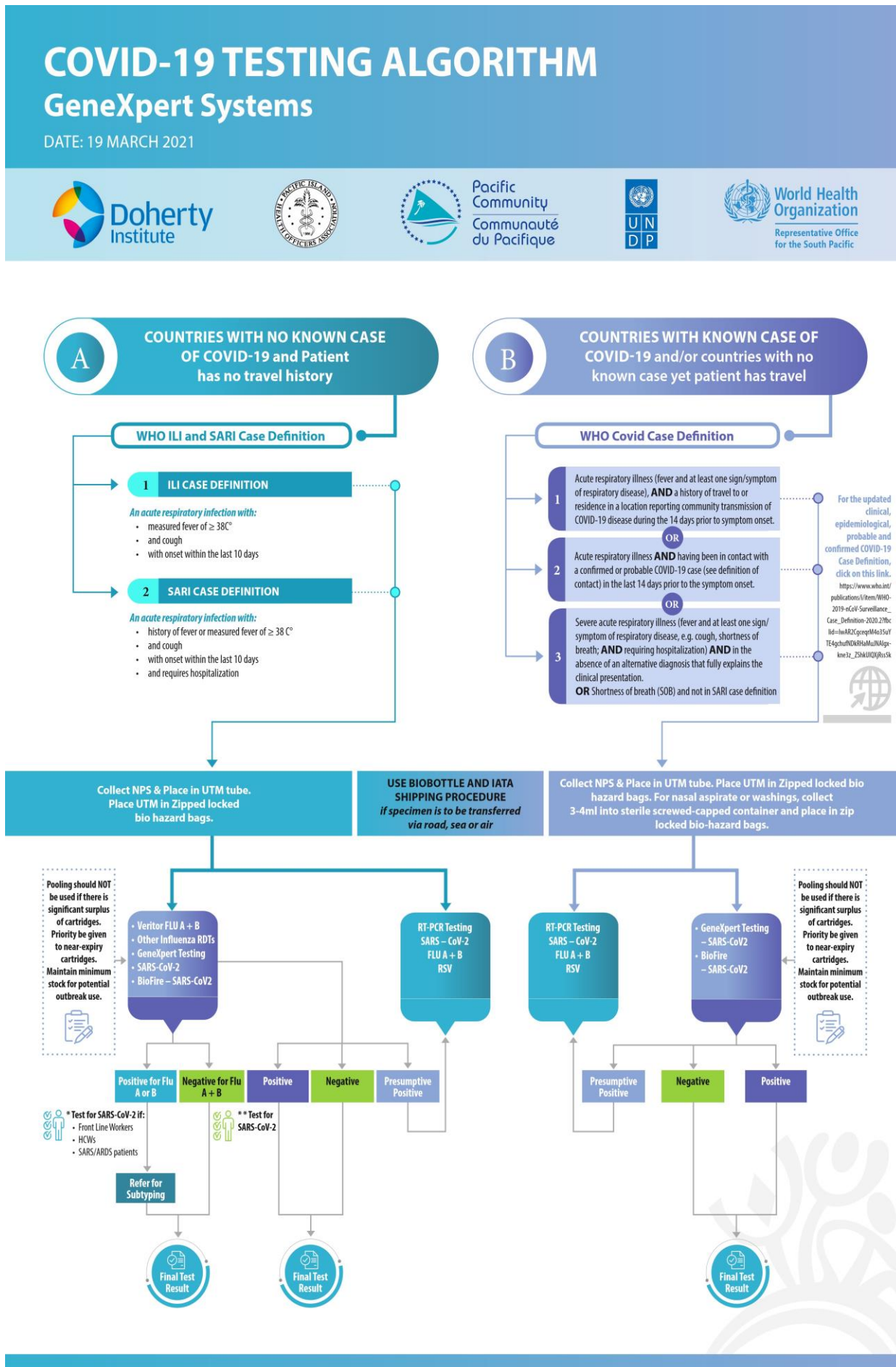
Eight of the 23 PICTs (Fiji, French Polynesia, Guam, New Caledonia, Palau, Solomon Islands, Tonga and Papua New Guinea) have COVID-19 testing capabilities through RT PCR (open system) also. Although COVID-19 testing capacity of PICTs had improved, availability of resources (cartridges) are still limited. Thus a testing algorithm (Figure 1) had been developed to maximize use of resources.

¹ who-china-joint-mission-on-covid-19-final-report, 16-24 February 2020

² <https://coronavirus.jhu.edu/map.html>, accessed on 11 June 2020

³ https://www.who.int/docs/default-source/coronaviruse/situation-reports/20200610-covid-19-sitrep-142.pdf?sfvrsn=180898cd_2, accessed on 11 June 2020

Figure 1:



IMPORTANT NOTES

COVID-19 TESTING ALGORITHM
GeneXpert Systems

1 CONSIDERATIONS AROUND GENEXPERT VS RT-PCR

- **Consideration around supply reagents for each test**
 - GeneXpert cartridges = prioritize when ≤ 3 months to expiry
 - RT-PCR = check extraction supplies, enzyme, primers and probes and plasticware for >50 or < 50 samples/day
- **Small scale testing <50 samples/day:**
 - GeneXpert with or without sample pooling (depending on supply and stocks of GeneXpert)
 - RT-PCR with manual or automated extraction
- **Large scale testing >50 samples/day:**
 - GeneXpert with sample pooling
 - RT-PCR with automated extraction

2 IF SARS-COV-2 NOT DETECTED AND CLINICAL DIAGNOSIS REQUIRED = RUN BIOFIRE (>15 TARGETS IN ONE TEST)

- If real time RT-PCR is available in country for influenza testing, we would recommend this is also performed prior to proceeding to BioFire. If this testing capacity is not available in country, proceed to BioFire if negative for SARSCoV-2 and clinical diagnosis is required.

3 POOL TESTING

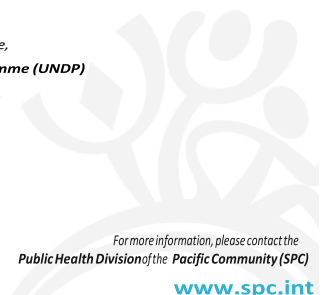
- Read and follow Pool Sample testing protocol that has been shared to PICTs Laboratories.
- Do pool testing in countries or communities where there is low prevalence of COVID-19 infection.
- Maintain a maximum of 4 sample pooling to avoid sensitivity loss of the assay.

4 RESULT OF SARS-COV-2 TESTING PROVIDED WITH INTERPRETATION OF CT VALUES

- Provide SARS-CoV-2 results as “**Detected**” or “**Not Detected**” with type of testing platform. Ct values can be provided if required or if it is the in-country reporting protocol. However, if additional information/interpretation is required then advise to consult laboratory.

Note: This is an updated version with additional information based on the availability of different ILI and COVID-19 testing platforms. The previous version of this document can be found [here](#).

This document has been developed in accordance with global guidance and contextualized to the Pacific context by the, Pacific Island Health Officers Association (PIHOA), Pacific Community (SPC), United Nations Development Programme (UNDP) and the World Health Organization (WHO) from the COVID-19 Pacific Joint Incident Management Team.



Quality Assurance and Quality Control

Proper specimen collection, storage and transport are critical in the performance of SARS-CoV-2 testing on Genexpert and hence procedures as already highlighted in this document on proper collection, storage and transport of samples to be tested should be strictly adhered to so as to obtain timely, accurate and meaningful test results to guide implementation of effective interventions to control the outbreak and better manage cases affected with SARS-CoV-2.

To monitor the quality performance of laboratories on their SARS-CoV-2 testing, it is crucial that laboratories constantly provide a monthly feedback to SPC/WHO on the monthly data on the outcome of the 9 key performance indicators (KPIs) shown below:

1. Total# Xpert SARS-COV-2 run
2. Total # successful Xpert tests
3. Total # unsuccessful Xpert tests
4. Total # Xpert SARS-COV-2 positive
5. Total # Xpert SARS-COV-2 Presumptive positive
6. Total # Xpert SARS-COV-2 negative
7. Total # error results
8. Total # invalid results
9. Total # no results

These 9 KPIs will be captured on an in-house monitoring tool developed by SPC/WHO which will help identify whether the testing laboratory is encountering errors in its testing processes that will call for immediate action to rectify potential problems so that the quality of the result is not compromised. This is an important monitoring step before conducting further SARS-CoV-2 testing. The monitoring tool also assist testing laboratories to monitor cartridge usage hence ensures that supplies are monitored to avoid unnecessary stock-outs and determine positivity rates and as well as successful run on a monthly basis.

Laboratories performing SARS-CoV- 2 testing are also required to participate in any organised External Quality Assurance Programme (EQAP). The JIMT Lab Cell is working closely with PPTC to organise EQAP with laboratories doing SARS-CoV-2 testing. The programme is supported by WHO.

As proper collection is so critical in the outcome of SARS-CoV-2 test results, recommended procedures for collecting samples for testing are illustrated in Annex A.

Packaging of clinical specimen for shipment to reference laboratory

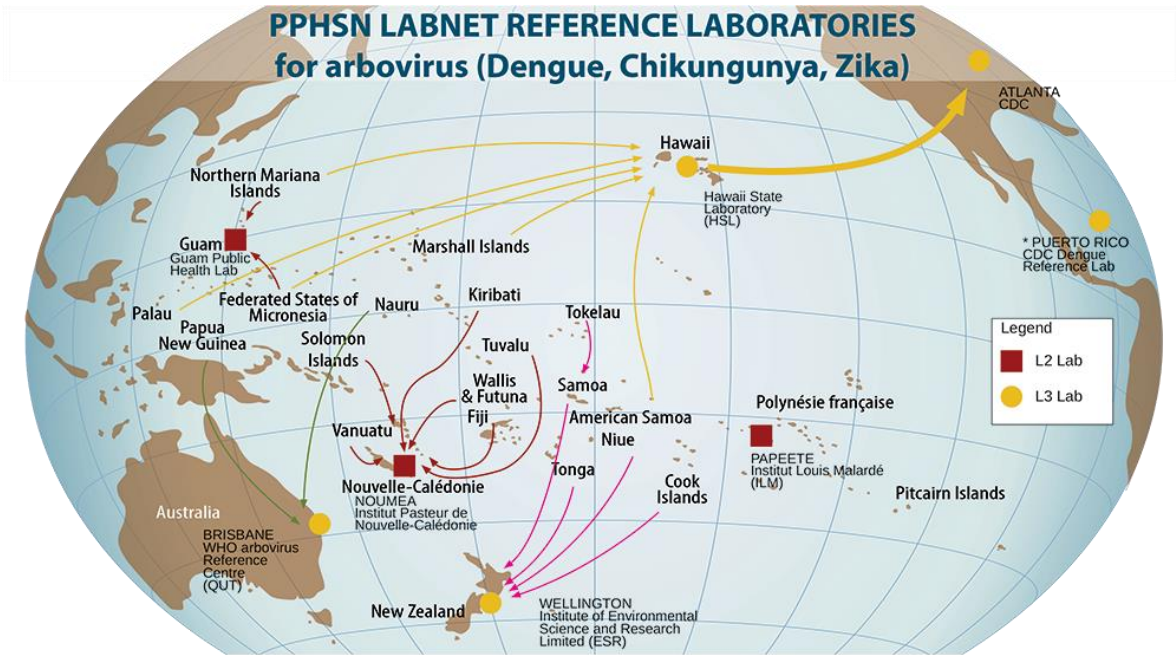
Proper storage, packing and shipment of specimen should also be observed to ensure integrity of the specimen. Storage and shipping requirements are summarized in a table (see Annex B).

Below are additional reminders for shipping clinical specimen.

- Trained and certified shippers with a valid certificate should pack clinical specimens for airline transfer to the national or international reference laboratory.
- Follow WHO Guidance on regulations for the transport of infectious substances 2019–2020 on the use of triple packaging system (Category B – UN3373)
- Ensure packaging, marking and labelling, and documentation meets all requirements for Category B Shipments.

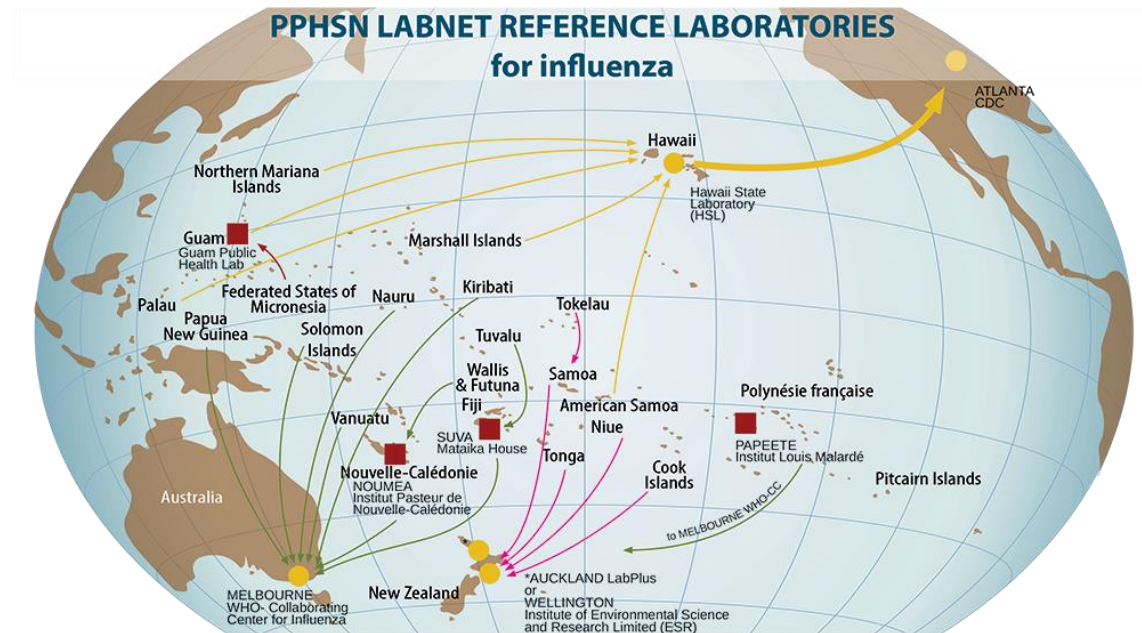
If the specimen is taken in an outer health facility, notify the national laboratory in advance to expedite specimen handling and referral, and ensure safe specimen handling and transfer to the local laboratory before it is sent to the reference laboratory

MAPPING PPHSN LABNET LABORATORIES FOR TESTING OF DENGUE FEVER, CHIKUNGUNYA, ZIKA, INFLUENZA, LEPTOSPIROSIS AND COVID-19



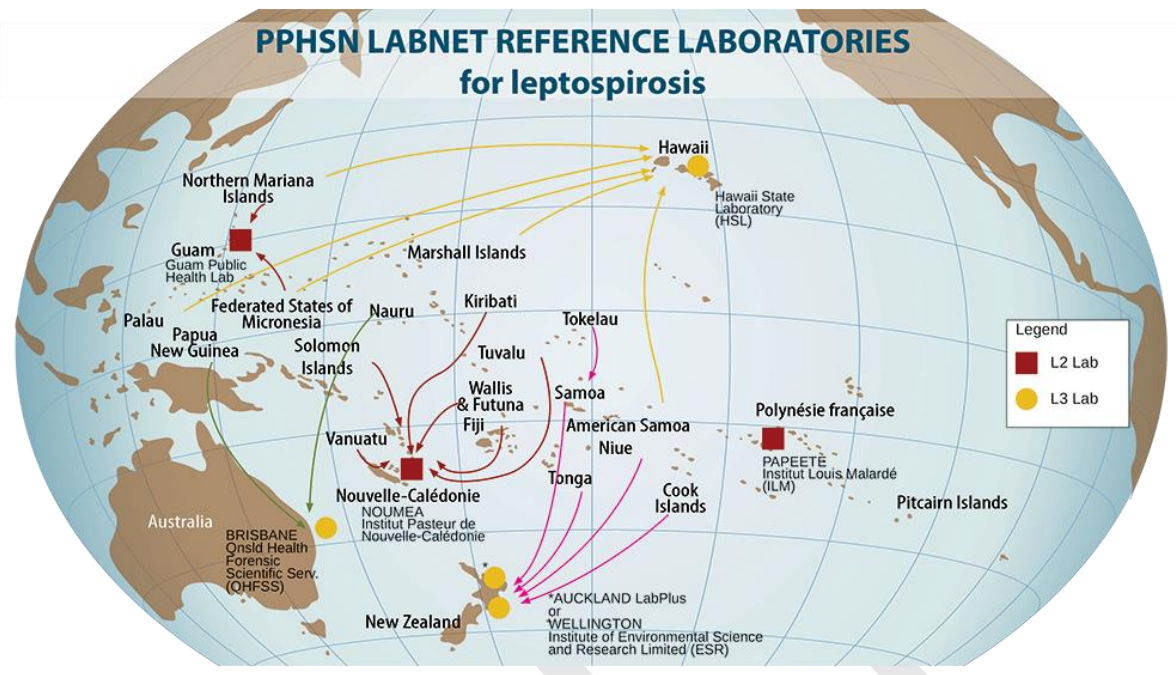
RECOMMENDED TESTS FOR DENGUE	Confirmation tests (L2 or L3 laboratory)	Further characterization (L3 Laboratory)
Screening tests (L1 Laboratory)	PCR & Typing	Genotyping
<ul style="list-style-type: none"> • NS1 Ag Rapid strips • NS1 Ag ELISA • NS1 Combo NS1 / IgG & IgM 		

* Indicates a commercial or government laboratory, not in the PPHSN LabNet list.
Reference Laboratory mapping and shipping of biological specimens in the Pacific - July 2019



RECOMMENDED TESTS FOR INFLUENZA	Confirmation tests (L2 or L3 laboratory)	Further characterization (L3 Laboratory)
Screening tests (L1 Laboratory)	PCR subtyping	Viral culture
<ul style="list-style-type: none"> • Rapid Test kits 		Genotyping

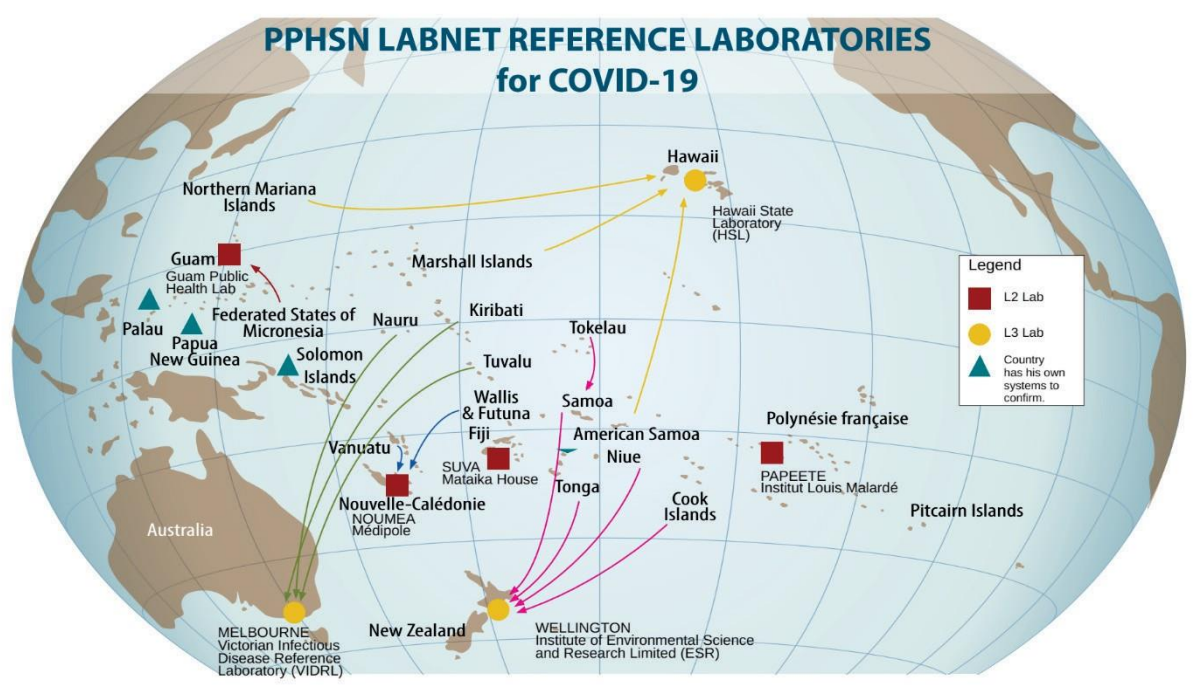
* Indicates a commercial or government laboratory, not in the PPHSN LabNet list.
Reference Laboratory mapping and shipping of biological specimens in the Pacific - July 2019



RECOMMENDED TESTS FOR LEPTOSPIROSIS

Screening tests (L1 Laboratory)	Confirmation tests (L2 or L3 laboratory)	Further characterization (L3 Laboratory)
<ul style="list-style-type: none"> • PanBio Antibody test • ELIZA Igm 	<ul style="list-style-type: none"> • PCR / MAT 	

* Indicates a commercial or government laboratory, not in the PPHSN LabNet list.
Reference Laboratory mapping and shipping of biological specimens in the Pacific - July 2019



RECOMMENDED TEST FOR COVID-19

Confirmation tests (L2 or L3 laboratory)
<ul style="list-style-type: none"> • RT-PCR

Reference Laboratory mapping and shipping of biological specimens in the Pacific - July 2020



SECTION 4

KEY LABNET CONTACTS:

The Pacific Community (SPC)

Dr Eka Buadromo
Senior Laboratory Advisor
ekab@spc.int

The Pacific Community (SPC)

Mr Tebuka Toatu
PPHSN Lab Net Coordinator
tebukat@spc.int

The Pacific Community (SPC)

Mrs Talica Cabemaiwai
Monitoring & Evaluation Officer
talicaC@spc.int

Pacific Island Health Officers Association (PIHOA)

Ms. Vasiti Uluiviti
Regional Laboratory Coordinator - for US Pacific Islands
vasitiu@pihoa.org

Pacific Paramedical Training Centre (PPTC) Mr Phil

Wakem
Director PPTC Wellington
pptc@pptc.org.nz

World Health Organization (WHO)

Dr Mahmoud Nuha
Team Coordinator, Pacific Health Security & Communicable Diseases (PSC)
hamidn@who.int

World Health Organization (WHO)

Raikabakaba Asaeli Babiau
Technical officer, Essential Medicines & Health Technologies
raikabakabaa@who.int

ACRONYMS:

CDC	Centers for Disease Control and Prevention
FNU	Fiji National University
IPNC	Institut Pasteur in New Caledonia
NRL	National Reference Serology Laboratory PPHSN Pacific Public Health Surveillance Network PIHOA Pacific Island Health Officers' Association
PPTC	Pacific Pathology Training Centre
QHFSS	Queensland Health Forensic Scientific Services SPC The Pacific Community
WHO	World Health Organization
WHO-MRRL	WHO Measles Regional Reference Laboratory of the Western Pacific Region – Melbourne

For more information on the PPHSN LabNet Catalog, please contact:



Pacific
Community
Communauté
du Pacifique

Laboratory Strengthening Programme

Public Health Division
Pacific Community (SPC)
Focal Point of the PPHSN Coordinating Body

Email: FocalPointPPHSN-CB@spc.int

Website: www.pphsn.net