

GIHSN 12TH GLOBAL ANNUAL MEETING

25-26 November 2024

Cédric MAHE, President, Foundation for Influenza Epidemiology







WELCOME TO THE GIHSN GLOBAL ANNUAL MEETING! DOMAINE DE CHÂTEAUNEUF, 25-26 NOVEMBER 2024





WEBINAR RULES



Please do not forget to switch off your microphone when you are not speaking.



Questions will be discussed after the presentations. Please raise your hand or use the chat/discussion button.



A dedicated on-boarding meeting will be proposed to each new site to answer all questions.



Speakers are kindly asked to stick to the speaking time allotted!

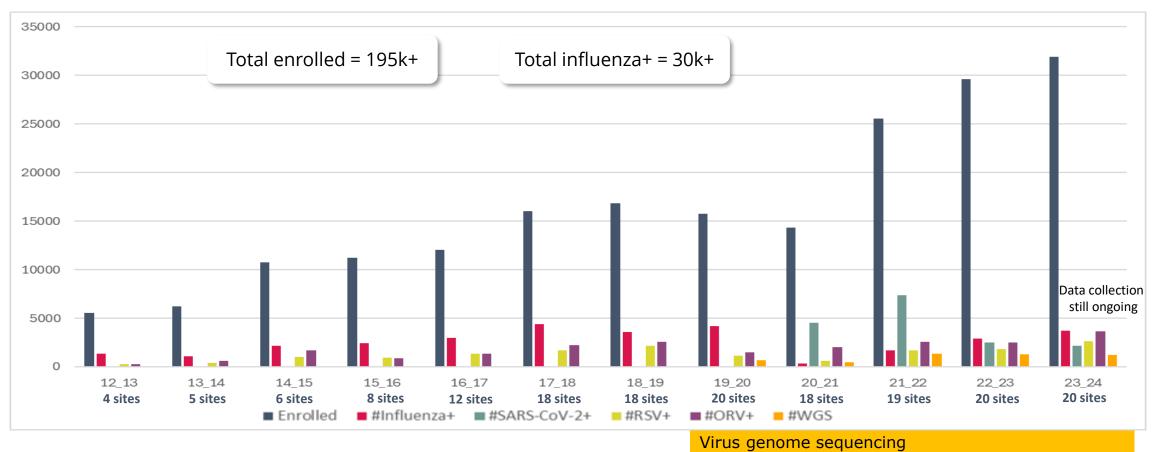


Please note that the meeting will be recorded.



Thank you all for cooperation!

GIHSN HISTORY



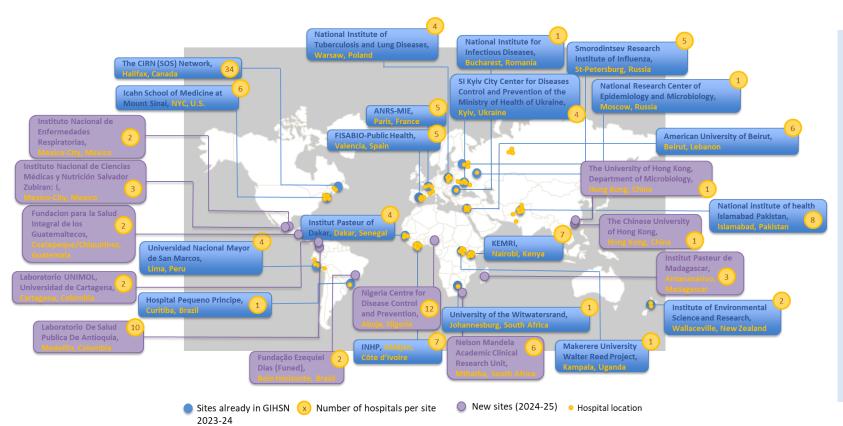
SARS-Cov2 circulation

Year round surveillance



GIHSN TODAY

Network of sentinel hospitals (about 150 hospitals in 30 sites in 2025) conducting active surveillance year-round of acute respiratory infections



Key features

- Use of a standardized protocol and questionnaire
- Strong links between clinical sites and laboratories
- Use of existing infrastructures combined with capacity building through the network and catalytic funding by the Foundation
- Interface with WHO and local authorities
- Sites own their data. Consolidated datawarehouse for research purpose



VIRUSES TESTED BY SITES 2023-24



Increased use of multiplex-PCR > expansion to all respiratory viruses





GIHSN: A Scientific Community

The Journal of Infectious Diseases

MAJOR ARTICLE

A meeting organized each year to discuss results



Yearly GIHSN publication(s) in addition to individual site papers

GIHSN featured in Science

Uncertain effects of the pandemic on respiratory viruses

Expanded genomic and clinical surveillance are needed

hivma

Predictors of Severity of Influenza-Related Hospitalizations: Results From the Global Influenza Hospital Surveillance Network (GIHSN)

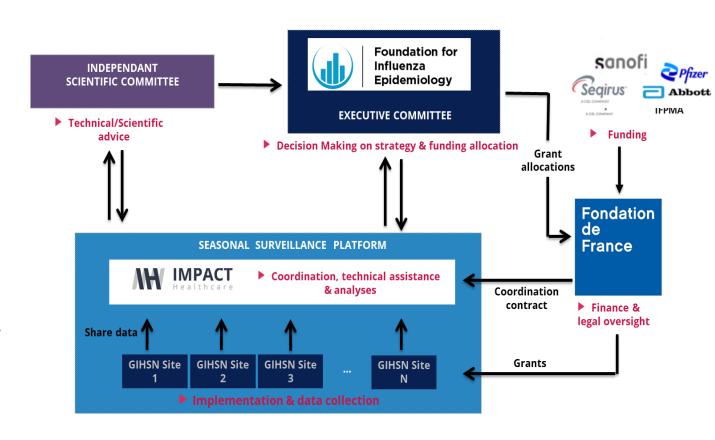
Lily E. Cohen, 12.0 Chelsea L. Hansen, 34.5 Melissa K. Andrew, 6 Shelly A. McNeil, 6 Philippe Vanhems, 7 Jan Kyncl, 8.0 Javier Diez Domingo, 10 Tao Zhang, Ghassan Dhaibo, ¹² Victor Alberto Laguna-Torres, ¹³ Anca Draganescu, ¹⁴ Elsa Baumeister, ¹⁵ Doris Gomez, ¹⁶ Sonia M. Raboni, ¹⁷ Heloisa I. G. Giamberardino, Marta C. Nunes, 18,19 Elena Burtseva, 20 Anna Sominina, 21 Snežana Medić, 22,23 Daouda Coulibaly, 24 Afif Ben Salah, 25,26 Nancy A Otieno, 27 Parvaiz A. Koul, 2 Serhat Unal,^{29,30} Mine Durusu Tanriover,^{30,31} Marie Mazur,¹ Joseph Bresee,¹ Cecile Viboud,³ and Sandra S. Chaves³⁴

2023: 80+ participants from 30+ countries in WHO HQ



Governance of the GIHSN

- Dedicated fund under the **Fondation de** France umbrella: the Foundation for Influenza Epidemiology (FIE)
 - This funding only represent 1/3 of the actuel implementation cost
- A transparent governance system is already in place with an **Executive** Committee and an Independent Scientific **Committee**
- Coordination of the network partners and operational implementation, incl. data hosting, is supported by **Impact Healthcare** funded by the FIE





Value of GIHSN

Research

- An agile research platform & community (data collected, samples) storage, capability)
- Generation of robust data on respiratory virus pathogens circulation, serotype/strains distribution, at risk population, drivers of disease severity (lack of hospital based clinical surveillance)
- Identification of virus sequence linked to severity/vaccine failure
- A powerfully and agile alert system

Public Health

Data and samples

- Data are owned by sites but the Foundation has access to the data stored in a consolidated and curated data-warehouse (>170,000 patients with up to 60 variables so far)
- A complete descriptive analysis is performed every year and publications on various thematics are encouraged
- The data warehouse can only be access by not-for-profit
- All research projects are vetted by the Independent Scientific Committee for scientific relevance
- Funders can only use results publicly available
- Sites are storing swabs for 1-2 year to allow for potential additional studies

MoU with WHO

- The MoU make of the Foundation for Influenza Epidemiology (FIE) a Non state actor engaged in technical collaboration with WHO - a necessary condition to engage in official relations and exchange resources with WHO.
- It shows that the FIE/GIHSN has demonstrated strong governance, transparency, and audit processes together with measurable and impactful public health value

Areas of collaboration already identified with WHO to shape a roadmap

MEMORANDUM OF UNDERSTANDING

between

the World Health Organization, 20 avenue Appia, 1211 Geneva, Switzerland ("WHO")

and

Fondation pour l'épidémiologie de la grippe, Fondation de France, 40 avenue Hoche, 75008 Paris, France,

For the World Health Organization

For the Fondation pour l'épidémiologie de la

Title: Dr Michael J. Ryan Executive Director

President, Fondation pour l'épidemiologie de la grippe

Date: WHO Health Emergencies Programme

Date: 16 Oct 2023

0 3 OCT 2023



AREA 1: VIRUS CO-CIRCULATION AND ALERT MECHANISMS

GIHSN can describe a wide range of respiratory virus circulation at the level of hospitalized patients. It can also potentially trigger an alert by identifying unexpected cluster of cases.

	In progress	To address
Improvement of the timeliness of the reporting in the GIHSN	X	
GIHSN dashboard	X	
Sharing of data with WHO		X
Local alignment and sharing of information.		X
GIHSN country expansion	X	



AREA 2: COMBINATION OF SEVERITY AND WGS FOR STRAIN SELECTION

	In progress	To address
Building of local capabilities/interface for WGS	X	
Develop collaboration with GISAID	X	
Sequencing for other viruses (SARS-Cov2, RSV)		X



AREA 3: BURDEN OF DISEASE ESTIMATION AND OTHER RESEARCH ACTIVITIES

The GIHSN relies on 3 research pillars:

- a motivated and diverse researchers/clinicians' community
- a hospital/lab infrastructure able to carry strong quality research
- a rich and unique data generated every year (>170,000 patients tested so far).

This infrastructure should be leveraged to address specific research questions.

Example of topics:

- Catchment area estimation for incidence estimation.
- EV-68 burden
- Comparative burden of RSV & flu post pandemic.



AGENDA OF THE MEETING (1)

Monday 25 November AM

PLENARY SESSION

9:00: Opening of the Meeting. GIHSN Strategy & Perspectives - Cedric Mahé, Foundation for Influenza Epidemiology + Q/A 45'

9:45: GIHSN Data report 2023-24: Presentation & Discussion - Catherine Commaille-Chapus, Impact Healthcare - 25' + 20'

10:30 COFFEE BREAK *30*′

11:00: Panel 1: Site experience in the GIHSN - Moderated by Laurence Torcel-Pagnon, Foundation for Influenza Epidemiology - 75'

- Around the room introduction from recurrent sites (2' each)
- Introduction of recent sites 2023-2024: Uganda, New Zealand, Poland (1 slide 3' each)
- Newcomers 2024-25 (remotely or video 2' each)



AGENDA OF THE MEETING (2)

Monday 25 November PM

<u>14:00</u>: GISAID role in WGS activities (history of GISAID scale up, latest developments in GISAID analytics ...) - Peter Bogner, GISAID - <u>20</u>'

WORKSHOP 1: WGS

14:20: Introduction by Nicola Lewis, Crick WHO CC (remotely) - 15'

<u>14:35</u>: Breakout groups (split the attendance in 3 pre-defined groups - 45'), then sharing in Plenary (45')

Moderators of groups: Bruno Lina (France NIC), John McCauley (Crick WHO CC), Dimitriy Pereyaslov (WHO/GIP)

- Specimen selection for WGS
- Which options for sequencing: Locally / In Lyon (GIHSN platform) / With WHO CC
- Considerations on shipment (to be optimized)
- Upload of results on GISAID (GIHSN tag ...)



AGENDA OF THE MEETING (3)

PLENARY SESSION

15:20: Sharing in Plenary - 45'

16:05 COFFEE BREAK *25*'

16:30: Panel 2: Research projects leveraging the GIHSN platform - Moderated by Marta Nunes (CERP) & Sandra Chaves (Foundation for Influenza Epidemiology) - 60'

- Specific influenza activity from South Africa Vicky Baillie, University of the Witwatersrand, Johannesburg (7'+ 3')
- Respiratory syncytial virus in pediatric patients with severe acute respiratory infections in Senegal - Ndongo Dia, Institut Pasteur of Dakar, Dakar (7'+3')
- Pediatric Influenza 2024: Clinical and Laboratory Aspects Sonia M Raboni, Pequeno Príncipe Hospital and Federal University of Parana, Brazil (7' + 3')
- Association of Influenza Viral Genetic Information with Severity Markers in Hospitalized Patients - Aung Pone Myint, CERP, Hospices Civils de Lyon and Université Claude Bernard Lyon 1 (7' + 3')
- EV-D68 surveillance: protocol overview and proposed collaboration with the GIHSN -Miranda Delahoy, US Centers for Disease Control and Prevention (7' + 3')

17:30: Closing Day 1

KIOSKS

17:45 - 18:15: Kiosks on operational topics

- Screening strategy/Sampling frame (Sandra Chaves)
- Data entry (Catherine Commaille)
- WGS operating procedures (Bruno Lina)
- EV-68 surveillance (Miranda Delahoy)



AGENDA OF THE MEETING (4)

Tuesday 26 November - AM

PLENARY SESSION

9:00: Opening by Wenqing Zhang, WHO/GIP - 20'

<u>9:20</u>: Keynote - Vision of Respiratory Surveillance in the Post-pandemic era - Maria Zambon, UKHSA - Presentation followed by Q/A 30'+15'

 $\underline{10:05}$: WHO integrated sentinel surveillance standards and guidance - Stefano Tempia (tbc), WHO (remotely) - $\underline{15'}$

10:20: COFFEE BREAK 20'

 $\underline{10:40}$: GIHSN Dashboard - Introduction & Live presentation + Discussion - Laurence Torcel-Pagnon - $\underline{15'+10'}$



AGENDA OF THE MEETING (5)

WORKSHOP 2: Improving data collection, quality and reporting timeliness

11:05: Breakout groups (split the attendance in 3 pre-defined groups - 45'), then sharing in Plenary (45')

Moderators of groups: Marta Nunes (CERP), Sandra Chaves (FIE), Melissa Rolfes (WHO/GIP, tbc), Laurence Torcel-Pagnon (FIE), Catherine Commaille-Chapus (Impact Healthcare)

- Screening and sampling frame strategy
- Data flow and quality
- Timeliness of reporting
- Core set of variables to be reported weekly

PLENARY SESSION

11:50: Sharing in Plenary - 45'

12:35: Closing of the Meeting & Next Steps - Cedric Mahe & Wenging Zhang - 10'





THANK YOU!





Sous l'égide de

Fondation de **France**





GIHSN 12TH ANNUAL MEETING, 25-26 NOVEMBER 2024

GIHSN DATA REPORT 2023-24 (TO DATE)

Catherine COMMAILLE-CHAPUS, GIHSN Coordination & Data Management







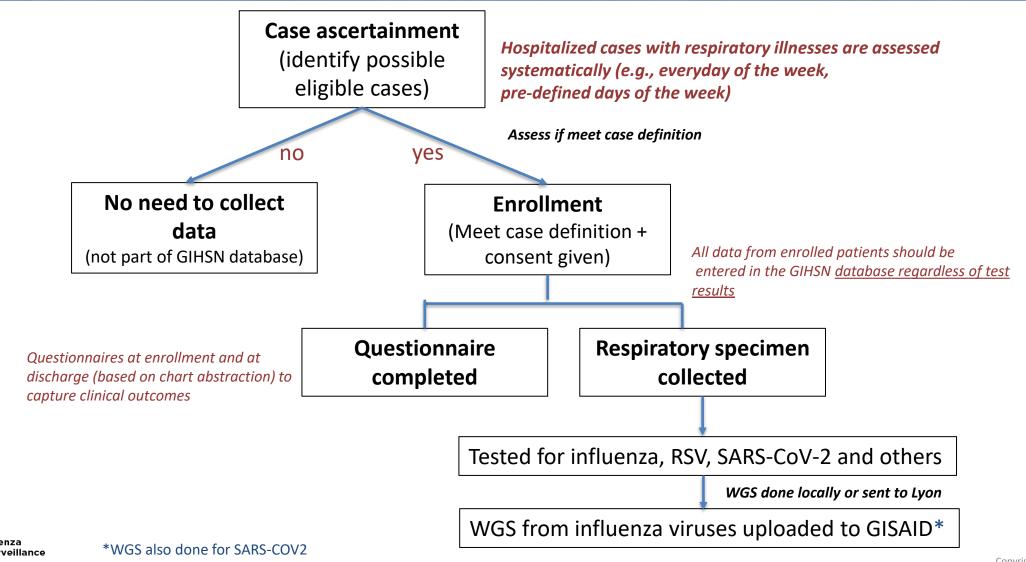
20 SITES PARTICIPATED IN THE GIHSN IN 2023-24







PROCESS FOR IDENTIFICATION OF CASES AND DATA COLLECTION - GIHSN



VIRUSES TESTED BY SITES 2023-24

(BASED ON DATA SHARED IN THE GIHSN THIS SEASON – AS OF NOV 14TH)

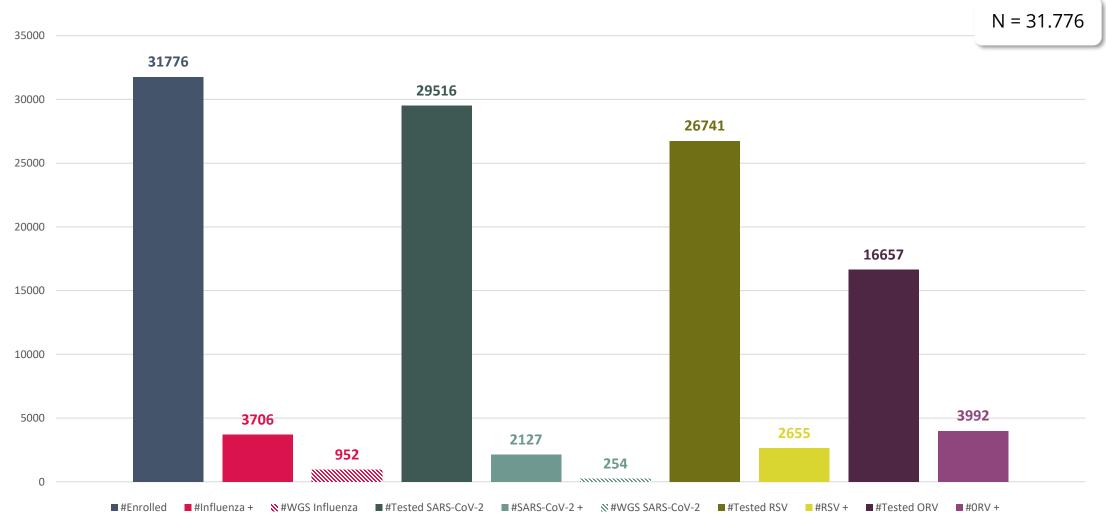
		Testing in 2023-24 include:													
Country	Site/Institution	Influenza	SARS- CoV-2	RSV	HCoV	HMPV	AdV	HBoV	HPIV	RhV	EVs	MERS- CoV	Picornavir us	SARS- CoV	ORV
Africa															
ite d'Ivoire	Institut National d'Hygiène Publique (INHP), Abidjan														
₃nya	Kenya Medical Research Institute (KEMRI), Nairobi														
negal	Institut Pasteur of Dakar (IPD), Dakar														
outh Africa	University of the Witwatersrand, Johannesburg														
janda	Makerere University Walter Reed Project, Kampala														
Asia/Pacific															
₃w Zealand	Institute of Environmental Science and Research, Wallaceville														
ıkistan	National institute of health Islamabad Pakistan														
Middle East															
banon	American University of Beirut, Beirut														
irkiye	Turkish Society of Internal Medicine, Ankara														
Global Influ	0n73														

VIRUSES TESTED BY SITES 2023-24

(BASED ON DATA SHARED IN THE GIHSN THIS SEASON – AS OF NOV 14TH)

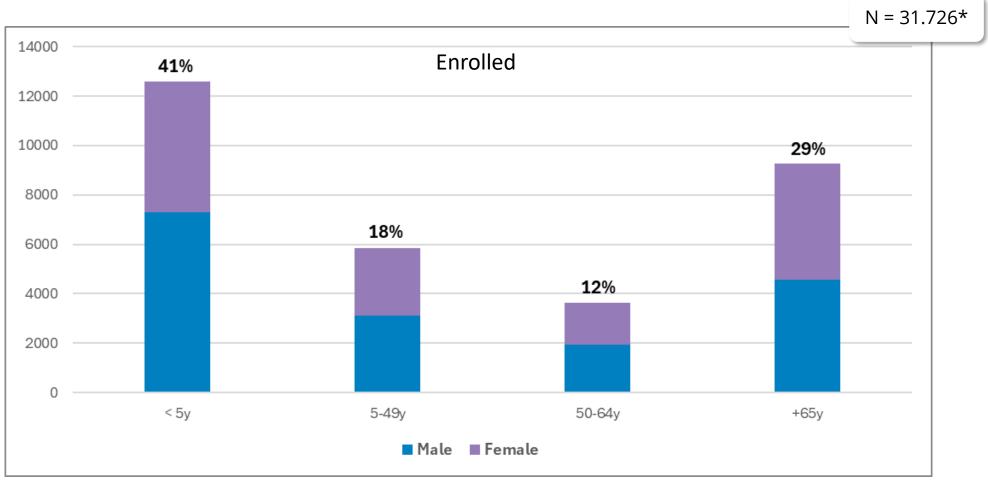
	Testing in 2023-24 include :														
Country	Site/Institution	Influenza	SARS- CoV-2	RSV	HCoV	HMPV	AdV	HBoV	HPIV	RhV	EVs	MERS- CoV	Picornavir us	SARS- CoV	ORV
Eurasia															
Poland	The National Institute of Tuberculosis and Lung Diseases, Warsaw														
Romania	National Institute for Infectious Diseases "Prof. Dr. Matei Bals", Bucharest														
Russia - Moscow	FSBI "N.F. Gamaleya NRCEM" Ministry of Health, Moscow														
Spain - Valencia	FISABIO, Valencia														
Ukraine	SI Kyiv City Center for Diseases Control and Prevention of the Ministry of Health of Ukraine, Kviv														
North America															
Canada	The CIRN Serious Outcomes Surveillance (SOS) Network, Halifax														
USA	Icahn School of Medicine at Mount Sinai, NYC														
South America															
Brazil	Hospital Pequeno Principe, Curitiba														
Peru	Instituto de Medicina Tropical, Lima														

OVERALL NB OF PATIENTS ENROLLED AND POSITIVE CASES OF INFLUENZA, SARS-COV2, RSV AND ORV (2023-24) (#) (AS OF NOVEMBER 14TH, 2024)



DISTRIBUTION OF ENROLLED PATIENTS BY AGE GROUP AND SEX – ALL SITES (2023-34) (#) (AS OF NOVEMBER 14TH, 2024)



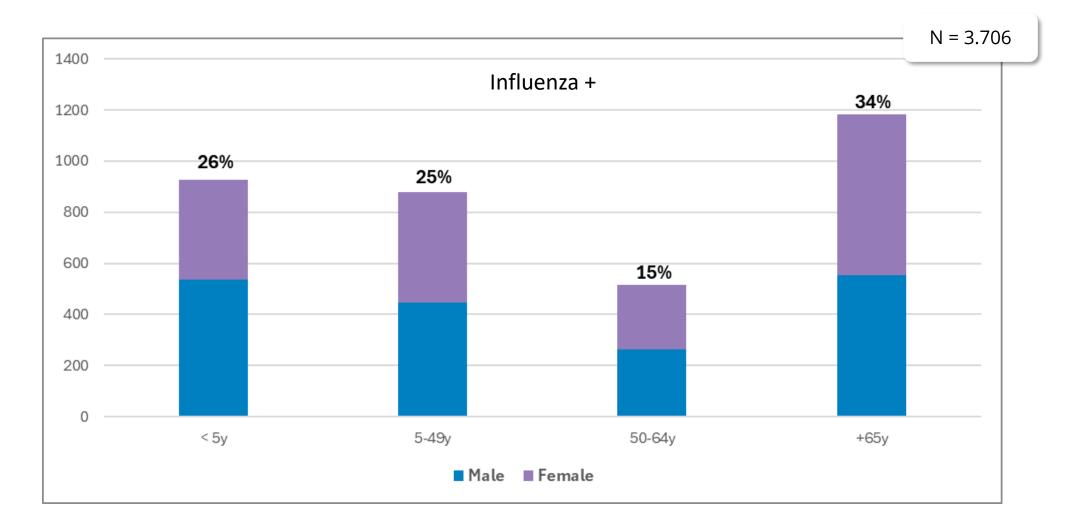


^{*50} patients have no age recorded (missing data)



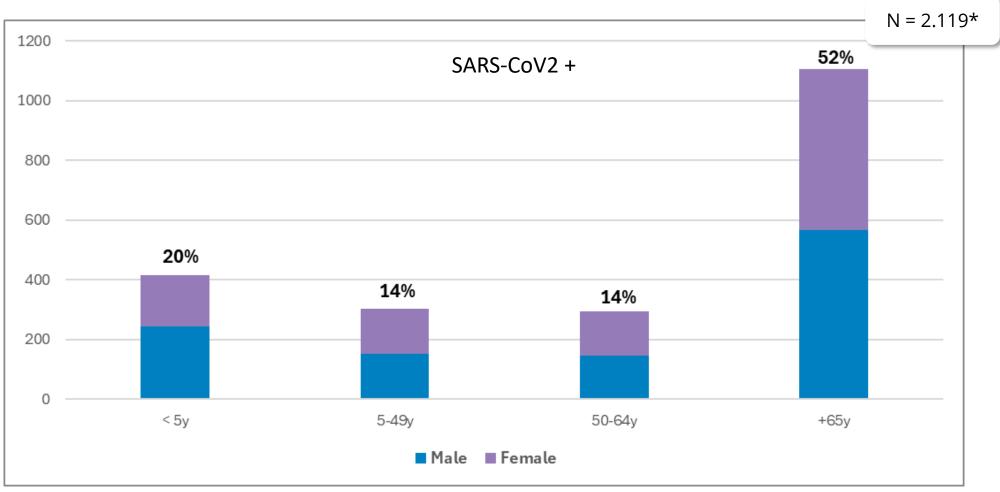
DISTRIBUTION OF LAB CONFIRMED INFLUENZA CASES BY AGE GROUP AND SEX – ALL SITES (2023-34) (#) (AS OF NOVEMBER 14TH, 2024)





DISTRIBUTION OF LAB CONFIRMED SARS-COV-2 CASES BY AGE GROUP AND SEX – ALL SITES (2023-34) (#) (AS OF NOVEMBER 14TH, 2024)



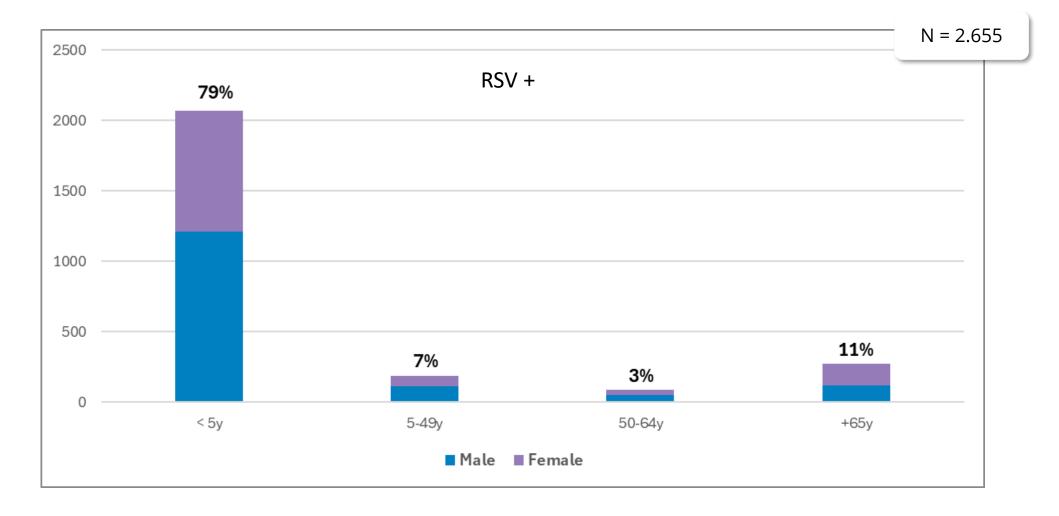


^{*8} patients have no age recorded (missing data)



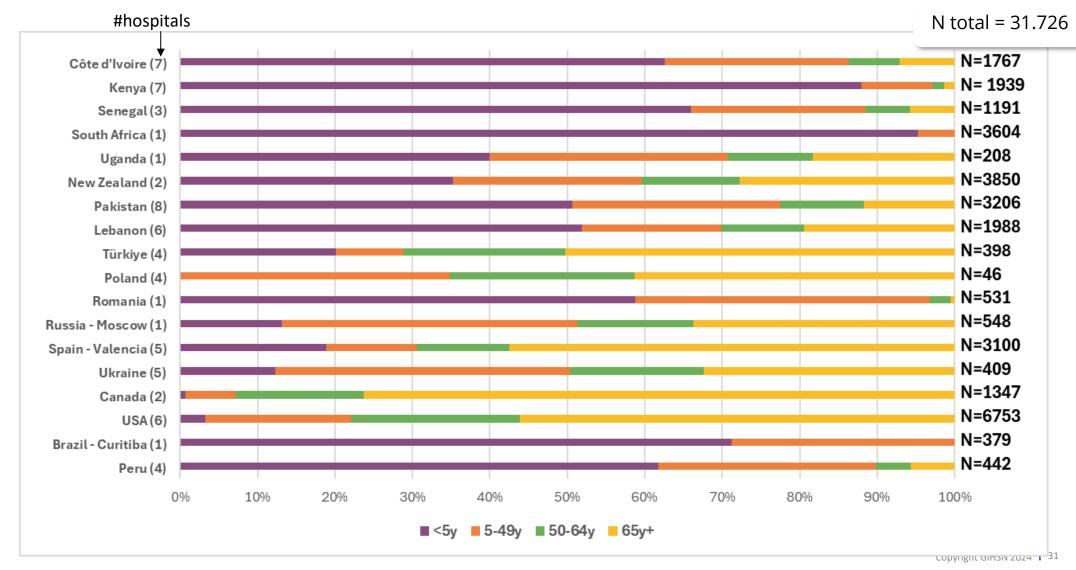
DISTRIBUTION OF OF LAB CONFIRMED RSV CASES BY AGE GROUP AND SEX - ALL SITES (2023-34) (#) (AS OF NOVEMBER 14TH, 2024)



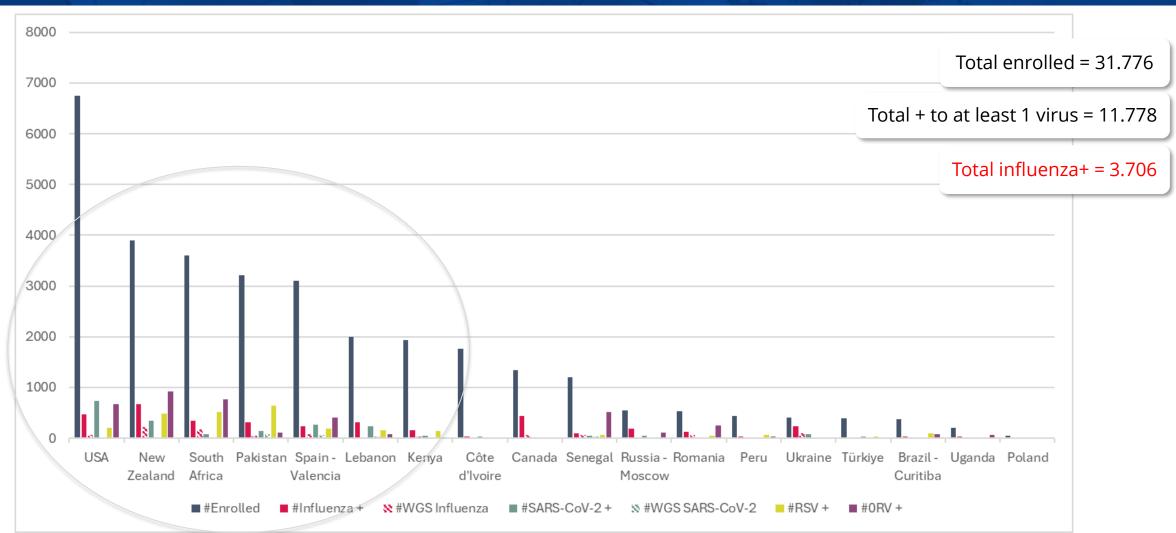


DISTRIBUTION OF ENROLLED PATIENTS BY AGE GROUP – BY SITE (2023-34) (#) (AS OF NOVEMBER 14TH, 2024)

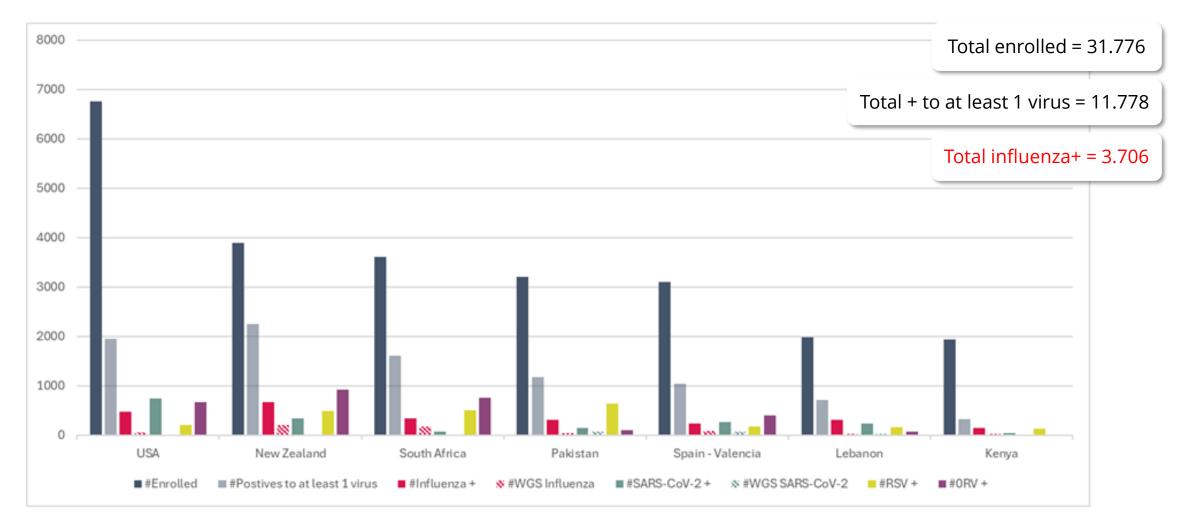




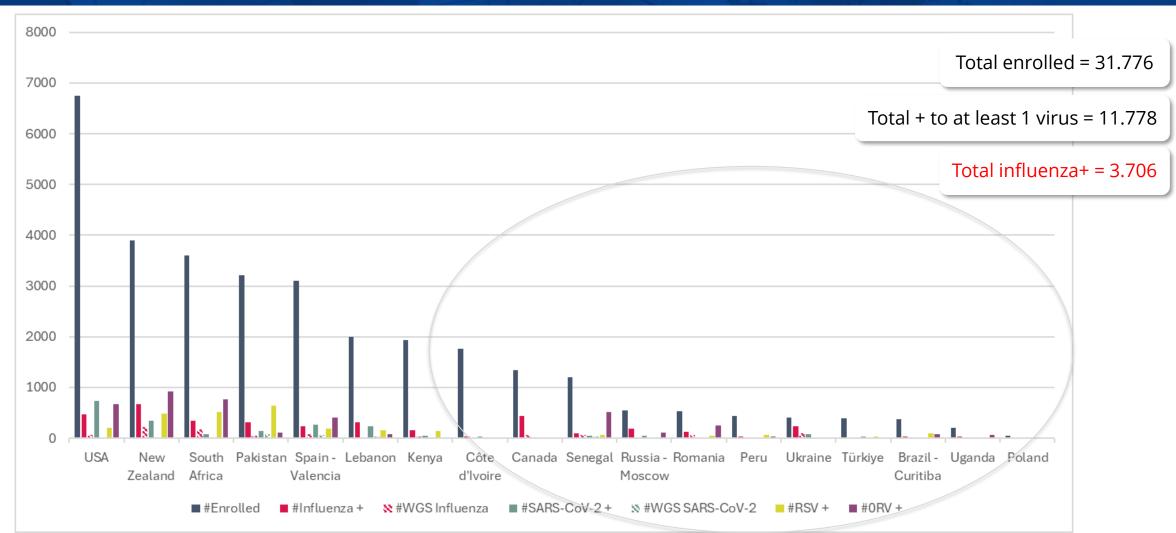
DISTRIBUTION OF PATIENTS BY SITE (2023-24) (#) (AS OF NOVEMBER 14TH, 2024)



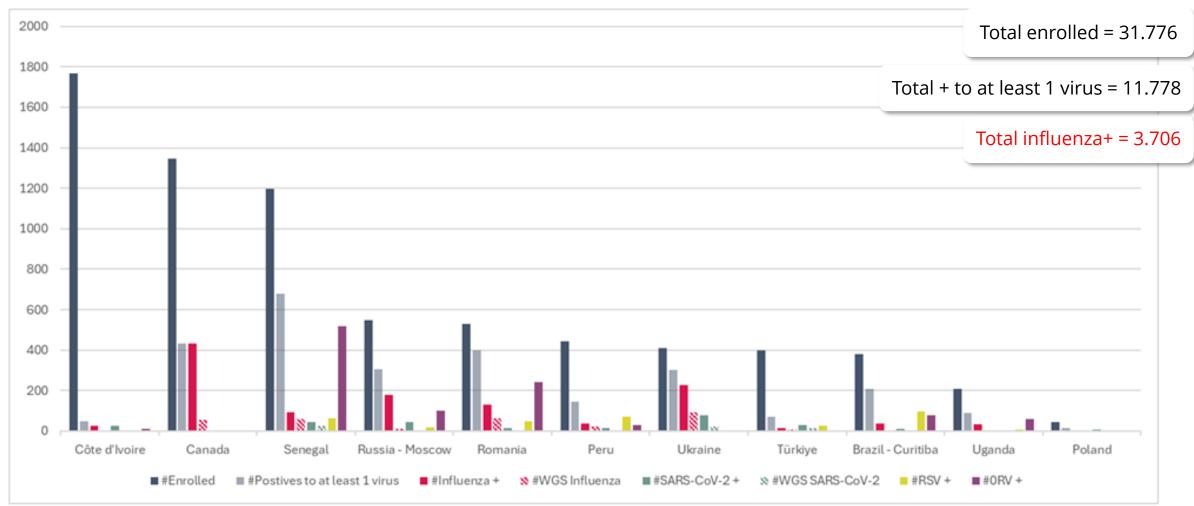
DISTRIBUTION OF PATIENTS BY SITE (2023-24) (#) (AS OF NOVEMBER 14TH, 2024)



DISTRIBUTION OF PATIENTS BY SITE (2023-24) (#) (AS OF NOVEMBER 14TH, 2024)

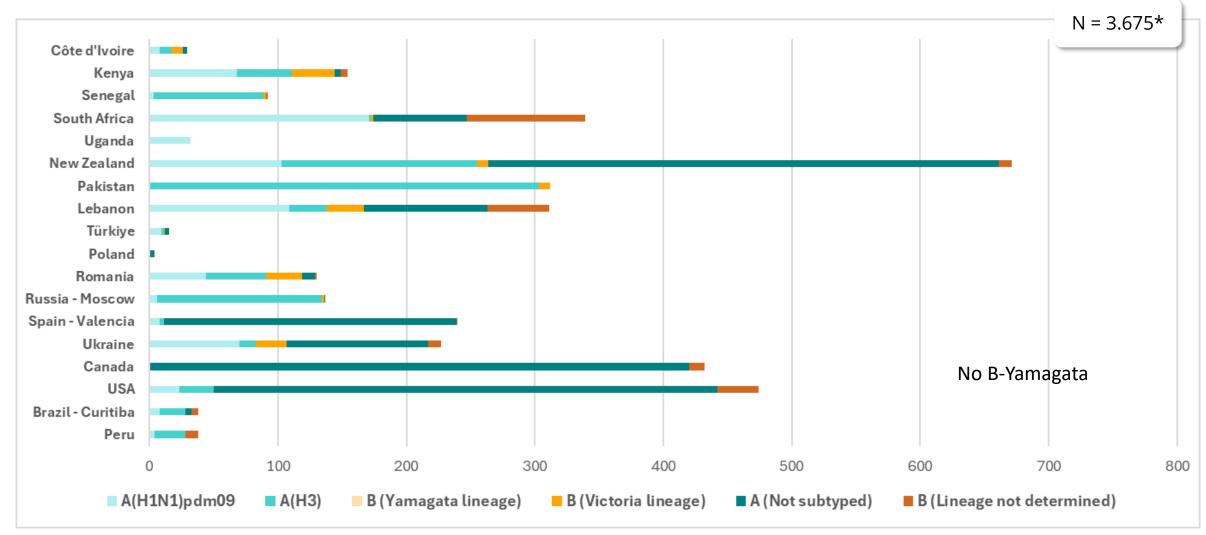


DISTRIBUTION OF PATIENTS BY SITE (2023-24) (#) (AS OF NOVEMBER 14TH, 2024)



DISTRIBUTION OF LAB CONFIRMED INFLUENZA CASES BY VIRUS SUBTYPE AND LINEAGE (2023-24) (#)

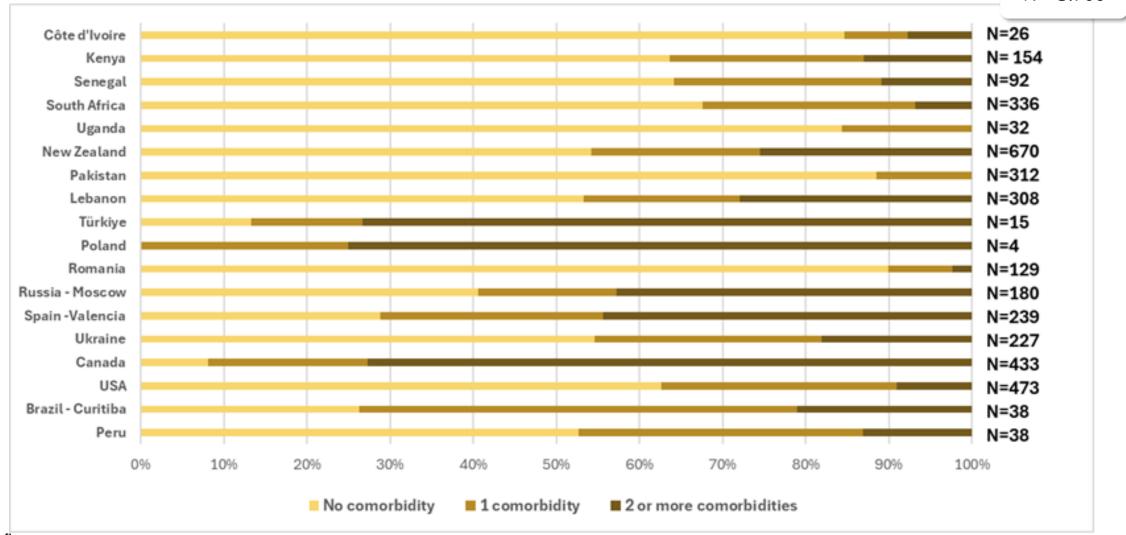
(AS OF NOVEMBER 14TH, 2024)



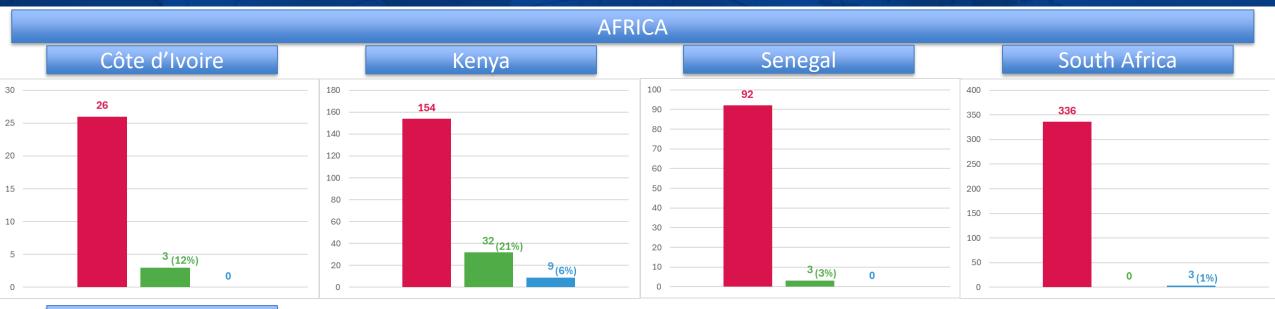
PRESENCE OF COMORBIDITIES AMONG LAB CONFIRMED INFLUENZA CASES - BY SITE (2023-24) (%)

(AS OF NOVEMBER 14TH, 2024)

N = 3.706



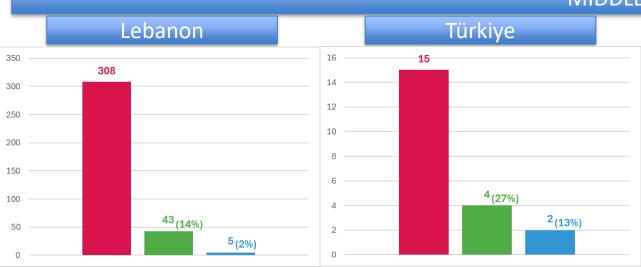
ICU ADMISSIONS AND DEATHS AMONG LAB CONFIRMED INFLUENZA CASES – BY SITE (2023-24) (#)





ICU ADMISSIONS AND DEATHS AMONG LAB CONFIRMED INFLUENZA CASES – BY SITE (2023-24) (#)

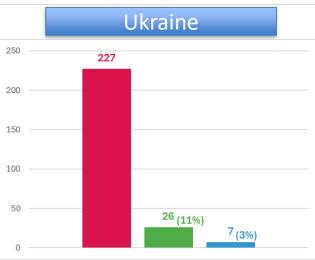




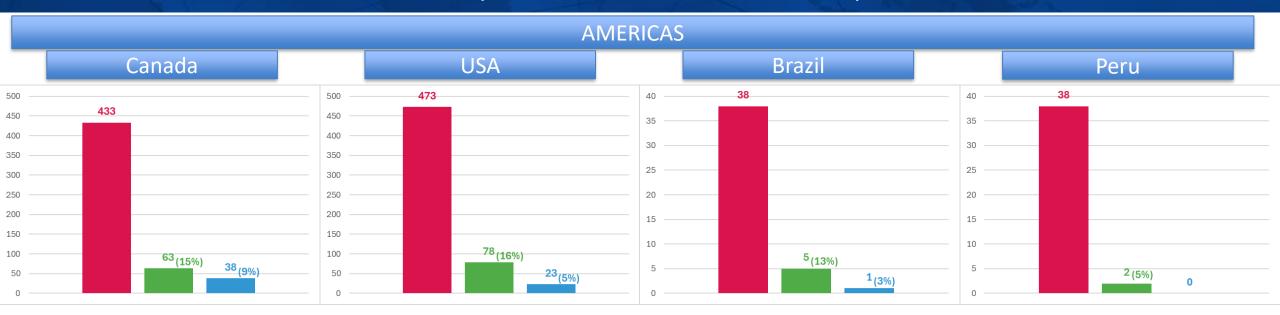


ICU ADMISSIONS AND DEATHS AMONG LAB CONFIRMED INFLUENZA CASES – BY SITE (2023-24) (#)



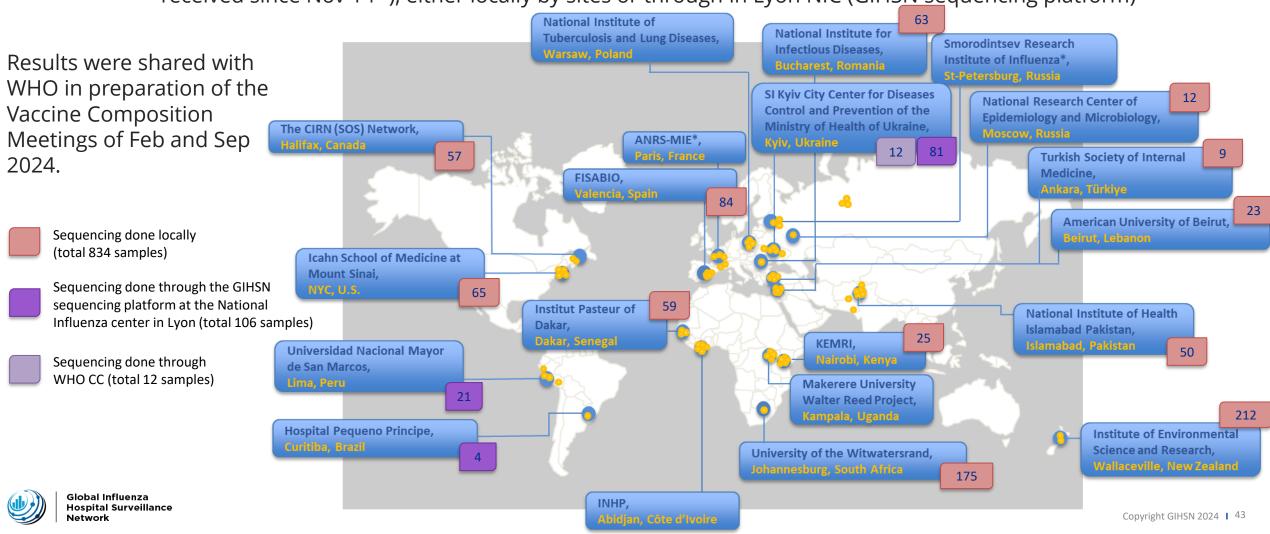


ICU ADMISSIONS AND DEATHS AMONG LAB CONFIRMED INFLUENZA CASES – BY SITE (2023-24) (#)

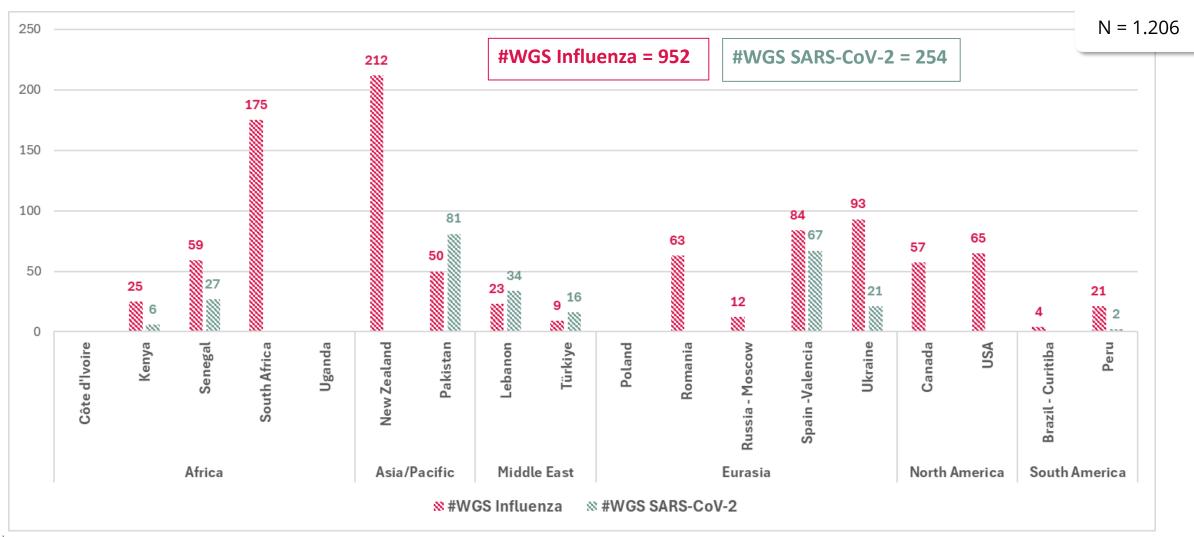


OVERVIEW OF INFLUENZA VIRUSES SEQUENCED (2023-24) (#) (AS OF NOVEMBER 14TH, 2024 IN THE GIHSN DATABASE)

952 influenza positive samples were detected and fully sequenced (+ 83 additional WGS received since Nov 14th), either locally by sites or through in Lyon NIC (GIHSN sequencing platform)



WGS BY SITE (2023-24) (#) (AS OF NOVEMBER 14TH, 2024 IN THE GIHSN DATABASE)





GIHSN reports provided to the WHO prior to the 2 VCM in **February and September 2024**



www.gihsn.org

GISHN report of activity prior to the WHO Consultation on the Composition of Influenza Virus Vaccines for use in the 2024-2025 Northern Hemisphere Influenza Season.

Report prepared the 13h of September 2024

1 - Description of the network

GIHSN is collecting clinical and virological information from hospitalized cases through a network of sites (20) located in different regions of the world (figure 1). This combined clinical and virological surveillance allows the identification of viruses responsible for severe influenza. This severity is assessed by the oxygen requirement of cases registered by the sites. In this report, viruses detected and sequenced from cases requiring oxygen supplementation are identified in the phylogenetic trees provided, to determine if specific lineages or clades are associated with more frequent severe presentation. It has been noted in the GIHSN report of the 2023 surveillance for the southern hemisphere VCM that O2 requirement seemed to be more frequently reported in the A(H3N2) 3C.2a1b.2a.3a HA lineage. This was not confirmed in the 2023-2024 Northern Hemisphere report.

For the SH 2024 surveillance in GIHSN, influenza activity was mainly due to Influenza A viruses in most countries, with co-circulation of A/H1N1 and A/H3N2 in different relative proportions.

Regarding the Influenza B viruses, as for the NH 2023-2024 surveillance, it has been reported a very limited number of detections of B/Victoria lineage viruses, and no B/Yamagata viruses have been detected by the network. This is the 3rd year of GIHSN surveillance with no detection of B/Yamagata viruses. Due to the very limited data available on influenza B viruses, no analysis regarding severity can

This report is colliding the available sequencing data from 12 sites collected on patients admitted in hospital between February 1st, 2024 and August 31st, 2024; Brazil (4), Kenya (25), Pakistan (50), Peru (21). Romania (63). Russia Moscow (12). Senegal (15). Spain (84). South Africa (175). Türkive (9). Ukraine (80), USA (65). All 603 sequences, from hospitalized cases only, have been uploaded in the GISAID database with a GIHSN tag.

Global Influenza Hospital Surveillance

www.gihsn.org

Sequencing results indicated that 30% of these viruses belonged to 6B.1A.5a.2a.1 clade close to reference strains A/Victoria/4897/2022 and A/Wisconsin/67/2022, while 70% belonged to 6B.1A.5a.2a clade (Fig. 2). The diversity of origin of these clade 6 B.1A.5a.2a viruses was larger, as compared to the clade 6B.1A.5a.2a1 viruses.

Among 5a.2a clade, all viruses but one belonged to C1 subclade, which can be further differentiated based on HA1 amino acid substitutions into different haplotypes including: C.1:197T; C1:137S; C.1:120A,169Q; C1:47I,96T,120A; C.1: 38D,120A,169Q. One virus belonged to C.1.7 subclade.

All viruses from clade 5a.2a.1 belonged to C.1.1.1 subclade. Clade 5a.2a.1 viruses were closer to A/Victoria/4897/2022 reference strain than A/Wisconsin/67/2022, and were characterized by HA1: T216A substitution. Additional HA1 substitutions in some viruses included: R45K, S85P and R113K.

The frequency of report of Oxygen requirement does not seems to be more frequent in cases with specific sub clades of H1N1 viruses (Fig. 2).

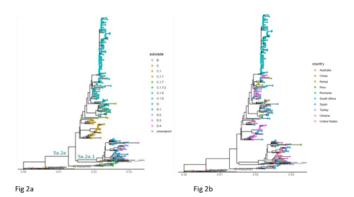


Fig 2: Phylogenetic tree of the A(H1N1pdm09) viruses analyzed between February 1st, 2024 and August 31st, 2024. The phylogeny has been inferred using a Neighbor Joining approach (Seaview). Visualization was displayed using ggtree in R.

Fig 2a provide the phylogenetic tree with clade and sub clade distribution;

Fig 2b provide the geographic origin of the viruses sequenced by the laboratories of GIHSN, with vaccine reference strains displayed in black.



ALL RESULTS WILL BE PRESENTED IN THE GIHSN ANNUAL REPORT 2023-24

Proposed cut-off date for 2023-24: mid/end January 2025



Abbreviations and definition

APDC (Abbott Pandemic Defense Coalition): a global of, and rapid response to, future pandemic threats. eCRF: electronic Case Report Form.

FIE: Foundation for Influenza Epidemiology.

FluNet: an online tool used for virological surveillan

PluNet: an online tool used for virological surveillan tools/flunet

GIHSN (Global Influenza Hospital Surveillance Netw

established in 2012 to generate clinical and virologic Foundation for Influenza Epidemiology, under the au GESAID (Global Initiative on Sharing Avian Influenza

genomic date of influenza viruses and the coronavir.

GISRS (Global Influenza Surveillance and Response conduct global influenza surveillance. GISRS is coord an online tool used for virological surveillance of influenza surveillance.

ICU: Intensive Care

ICD: International Classification of Diseases.

ISC: Independent Scientific Committee.

TAC: Independent Scientific

Development Program (UNDP). IVI is dedicated to v

NICs: National Influenza Centers are national institutheir country and ship representative clinical specim genetic analysis. The results form the basis for WHO Several NICs participate in the GTHSN.

R&D: Research and Development.

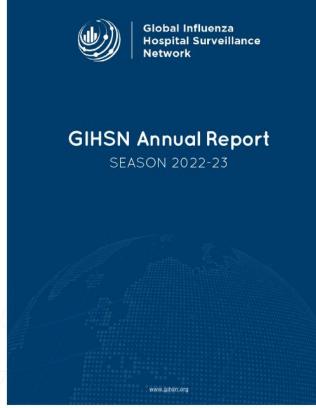
RSV: Respiratory syncytial virus.

RT-PCR: Reverse Transcription - Polymerase Chain

SARS-CoV-2: Severe Acute Respiratory Syndrome

WGS: Whole Genome Sequencing.

WHO: World Health Organi









THANK YOU!

Q&A



COFFEE BREAK





GIHSN 12TH ANNUAL MEETING, 24-26 NOVEMBER 2024

PANEL 1: SITE EXPERIENCE IN THE GIHSN

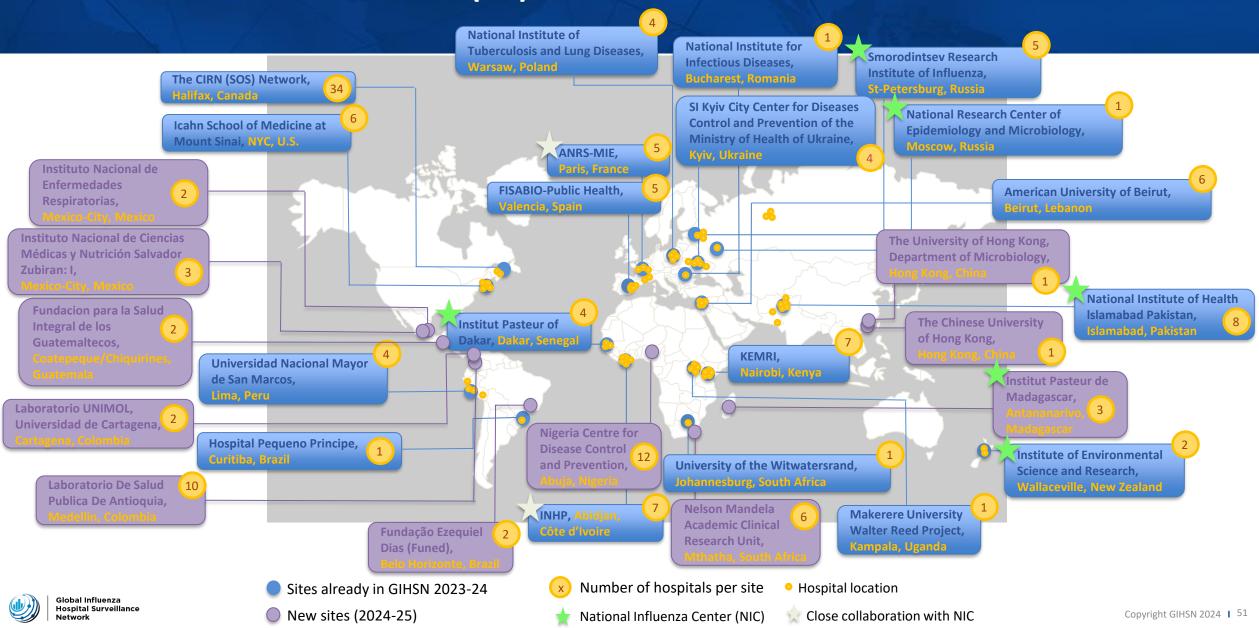
Moderator: Laurence TORCEL-PAGNON, Foundation for Influenza Epidemiology







GIHSN SITES 2024-25 (30)



Around the room introduction from recurrent sites (2' each)

- Introduction of recents sites 2023-2024: Uganda, New Zealand, Poland (1 slide 3' each)
- Presentation of newcomers 2024-2025 (remotely or video 2' each)



- ❖ Around the room introduction from recurrent sites (2' each)
- ❖ Introduction of recents sites 2023-2024: Uganda, New Zealand, Poland (1 slide - 3' each)
- Presentation of newcomers 2024-2025 (remotely or video 2' each)





GIHSN ANNUAL MEETING, 25 NOVEMBER 2024

SITE: UGANDA: MAKERERE UNIVERSITY WALTER REED PROGRAM

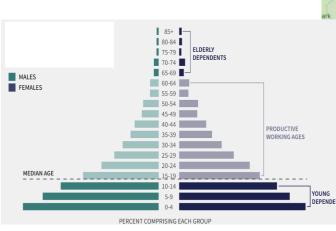
PI/Speaker: Prof Denis K. Byarugaba

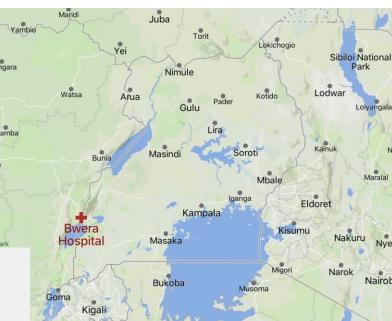
UGANDA



Site description

- Coordinating site: Makerere University Walter Reed Program (MUWRP)
 - Established in 2002 as a non-for-profit Organization guaranteed by Makerere University and The Henry M. Jackson Foundation
 - Engaged in Infectious Disease Surveillance, Vaccine Research (HIV, Ebola etc) and Health care support through PEPFAR
- Participating hospital: BWERA HOSPITAL
 - A public tertiary district hospital owned by the Uganda Ministry of Health.
 - Serves Kasese District with patients of all age groups, including from Democratic Republic of the Congo.
 - Bed capacity is 100, (may admit up to 300).
 - Has a population of about 800,000 inhabitants
 with a largely young population as shown





Hospital location





GIHSN ANNUAL MEETING, 25 NOVEMBER 2024

SITE: NEW ZEALAND

PI: Prof. Sue Huang

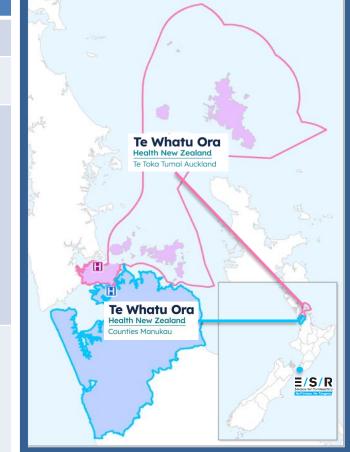
NEW ZEALAND



SARI and non-SARI Hospital surveillance, Auckland, NZ

Coordinating site: ESR, Wallaceville, Upper Hutt, New Zealand

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Participating hospitals:	Te Whatu Ora Te Toka Tumai Auckland	Te Whatu Ora Counties Manukau		
Setting	Urban	Urban		
Capacity	Auckland City Hospital 1000 beds Starship Kids Hospital 219 beds	Middlemore Hospital 860 beds Kidz First Children's Hospital 82 beds		
Services	Secondary-level (hospital and specialist) care Specialist tertiary services (organ transplants (heart, lung, and liver), acute major airway obstruction transferred for laser or stent placement, massive haemoptysis surgery, hepatic surgery, specialist paediatric services, epilepsy surgery, deep brain stimulation, high- risk obstetrics, intensive care) Affiliated University: Faculty of Medical and Health Sciences, University of Auckland	Secondary-level (hospital and specialist) care Specialist tertiary services (orthopaedics and plastic surgery, burns, spinal injury rehabilitation, renal dialysis, neonatal intensive care) Paediatric inpatient surgical care		
Population 12018 census	Estimated 493,000 ¹ 8% Maori, 11% Pasifika, 34% Asian,	Estimated 567,000 ¹ 16% Maori, 22% Pasifika, 30% Asian,		
² ADHB-Annual- Report-202021 ³ Annual-Report-2021- 22-Counties-Manukau	47% European/Other ² Second highest life expectancy in New Zealand at 83.4 years ²	31% European/Other ³ 37% of the population, and almost 1 in 2 of the 132,000 children living within Counties Manukau, live in areas of high socioeconomic deprivation ³		

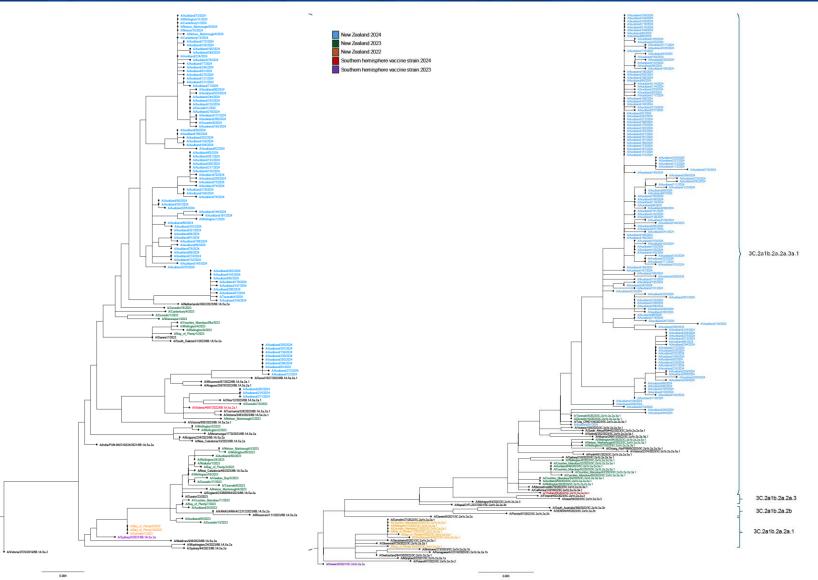




MAIN TAKE-HOME MESSAGE FROM FIRST YEAR OF PARTICIPATION IN GIHSN

New Zealand 2024
New Zealand 2023
New Zealand 2022
Southern hemisphere vaccine strain 2024
Southern hemisphere vaccine strain 2023

- THANK YOU for including New Zealand in Nov 2023 Oct 2024 ☺
- WGS
 - Established referral pathway for hospital SARI-flu positive samples to ESR for WGS
 - Conducted WGS with 222 with GISAID:
 - 80 A(H1N1)pdm09
 - · 142 A(H3N2)
- Severity markers oxygen requirements:
 - Update in CRF







GIHSN ANNUAL MEETING, 25 NOVEMBER 2024

POLAND - NATIONAL INSTITUTE OF TUBERCULOSIS AND LUNG DISEASES, WARSAW

PI: Prof. Joanna Chorostowska-Wynimko

POLAND

Site description

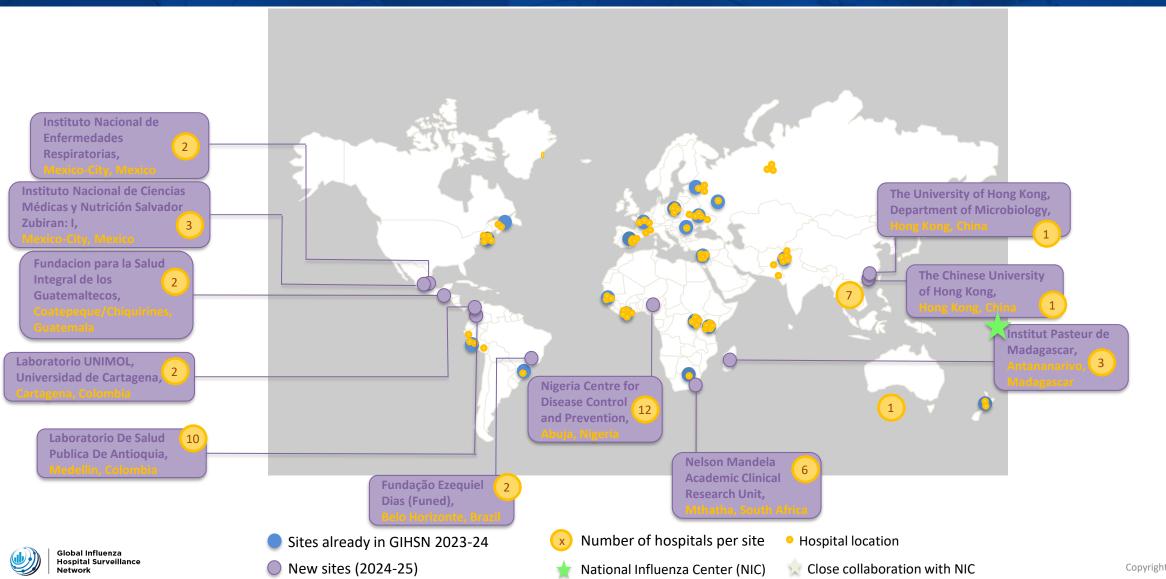
- Coordinating site: The National Institute of Tuberculosis and Lung Diseases (NITLD)
 - NITLD has had the active internal surveillance program since 2010 with on-site laboratory (based in the Department of Genetics and Clinical Immunology) providing the rapid molecular diagnostic for influenza, RSV, SARS-CoV-2 (since 2020) and other respiratory viral pathogens (parainfluenza (1, 2, 3, 4), human metapneumovirus, human rhinovirus, adenovirus).
- 3 participating hospitals are Urban hospitals Population: Adults & Elderly
 - National Institute of Tuberculosis and Lung Diseases (2,5 million catchment area / 300 beds)
 - University Clinical Hospital Central Veteran Hospital (800 000 catchment area / 630 beds)
 - Kuyavian-Pomeranian Pulmonology Center (330 000 catchment area / 176 beds)
- Site case ascertainment: Hospital logs and electronic boards used to check on respiratory illness
- Case definition: Patients of any age will be included in the study if they present with up to seven days of community onset influenza like-illness and fulfill the ECDC modified case definition for influenza like-illness (ILI) in last 7 days.
- Difficulties in engaging hospitals 2 & 3 in this first year with the GIHSN.



- ❖ Around the room introduction from recurrent sites (2' each)
- ❖ Introduction of recents sites 2023-2024: Uganda, New Zealand, Poland (1 slide - 3' each)
- ❖ Presentation of newcomers 2024-2025 (remotely or video 2' each)



NEWCOMERS 2024-25 (11)



NEWCOMERS 2024-25 (11)

ASIA

Institution	PI
The University of Hong Kong, Department of Microbiology, Hong Kong, China	Kelvin TO
The Chinese University of Hong Kong, Hong Kong, China	Christopher LAI KOON CHI



AFRICA

Institution	PI
Institut Pasteur de Madagascar, Antananarivo, Madagascar	Vincent LACOSTE Norosoa RAZANAJATOVO
Nigeria Centre for Disease Control and Prevention, Abuja, Nigeria	Sikiru Olanrewaju BADARU
Nelson Mandela Academic Clinical Research Unit, Mthatha, South Africa	T. APALATA



NEWCOMERS 2024-25 (11)

LATAM

Institution	PI	
Fundação Ezequiel Dias (Funed), Belo Horizonte, Brazil	Talita Émile RIBEIRO ADELINO	(
Laboratorio UNIMOL, Universidad de Cartagena, Cartagena, Colombia	Doris GOMEZ CAMARGO	
Laboratorio De Salud Publica De Antioquia, Medellin, Colombia	Idabely BETANCUR ORTIZ	⊗
Fundacion para la Salud Integral de los Guatemaltecos, Coatepeque/Chiquirines, Guatemala	Daniel OLSON	(
Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubiran: I, Mexico-City, Mexico	Guillermo M. RUIZ-PALACIOS	
Instituto Nacional de Enfermedades Respiratorias, Mexico- City, Mexico	Joel Armando VAZQUEZ-PEREZ	





THANK YOU! LUNCH TIME





