NIVERSITY OF THE PHILIPPINES MANIL

SPECIAL COVID-19 ISSUE

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CHANCELLOR

We are bringing you another informative and endowing issue of the UP Manila Healthscape!

With the continuing surge in COVID-19 cases of which a considerable number are caused by the highly infectious Delta variant, this issue features updated expert-guided recommendations and policies on vaccination, prevention, and management of COVID- 19 cases that were driven by the said variant. The requirements for home care isolation for adults and children are also included.

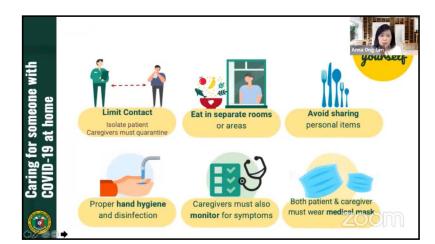
The recommendations were presented by Health Undersecretary and spokesperson Dr. Rosario Vergeire, infections disease specialist Dr. Anna Lisa Ong-Lim, and health social scientist Dr. Nina Castillo-Carandang during a townhall meeting conducted by the Department of Health.

A welcome and encouraging development for hearing-impaired patients is the full restoration of the services of the PGH Ear Unit effective January 2021. To ensure protection and in compliance with guidelines, services are now strictly by appointment and transactions are done through the window. Observing strict protocols on wearing mask and face shield, hand hygiene and physical distancing is required while disinfectable engineering controls were installed for added protection.

No words are enough to capture the legacies and contributions of UP Regent Nelia Gonzales to the country and UP during the past 70 years. Being a steadfast ally and supporter of UP Manila and most of its officials, the tribute to "Tita" Nelia rekindled her generosity, remarkability, and multi-faceted qualities as a woman, UP alumna, and agriculturist/social entrepreneur.

Completing this issue are the articles on the UP Manila Ugnayan ng Pahinungod-St Paul Manila University Community Pantry that benefitted 3,500 beneficiaries from several barangays, including the families of PGH patients, and the first virtual teambuilding of the UP Manila Central Administration employees.

The article on the risks from the inhalable ash from the Mayon Volcanic eruption in 2018 urges us to be vigilant and prepared for the hazards of the eruption activities of Taal Volcano.



Delta variant-driven vaccination and other policy updates presented in town hall meeting

Wearing preferably surgical masks even for non-healthcare workers in high-risk settings and vaccination for the companion of senior citizens (A2 + 1) and pregnant and lactating women were among the policy updates and recommendations presented during an Aug. 18 <u>Department</u> of Health townhall meeting.

The presenters were DOH Undersecretary and Spokesperson Dr. Rosario Vergeire; UP College of Medicine professor, pediatric infectious disease specialist, and DOH Technical Advisory Group member Dr. Anna Lisa Ong Lim, and health social scientist and DOH interim National Immunization Technical Advisory Group member Dr. Nina Castillo-Carandang who discussed the latest expertguided recommendations for adults, children, and pregnant and lactating women.

With the resurgence in COVID-19 cases, of which a sizeable number was traced to the more infectious Delta variant and other variants, the three panelists emphasized that the updated policies were urged by experts through the Philippine COVID 19 Living Recommendations. The panelists reiterated that the Prevent, Detect, Isolate/Quarantine, Treat, and Reintegrate (PDITR) plus Vaccination Strategy is still effective and works for all places, situations and populations. This strategy, according to Dr. Vergeire, also includes the triage system being followed by the local government units, which is dependent on the vital role played by the Barangay Emergency Response Team and Barangay Health Workers

The recommendation to switch to surgical mask for non HCWs whenever feasible is based on the capacity of such masks to provide increased protection. For HCWs not directly taking care of COVID patients and suspects, surgical masks, face shields or goggles, and standard PPEs are advised.

Vaccination Updates

Meanwhile, vaccination for one companion of an A2 (senior citizen) is allowed provided he/ she is from the same household and a caregiver and/or relative. TURN TO PAGE 3

PGH Ear Unit's services to hearing-impaired patients fully restored

The Ear Unit, the hearing and balance laboratory and epicenter of service and research of the Philippine National Ear Institute (PNEI) located at the second floor of the Philippine General Hospital Central Block, has resumed full operations starting January 2021.

The Ear Unit was closed from March 15, 2020 to May 15, 2020 during the first lockdown in Metro Manila in compliance with protocols and guidelines for the temporary cessation of non-emergency health services. The PGH's designation as a Covid 19 referral center was also another reason for the closure, the Ear Unit being in the middle of the PGH, less than 10 meters away from four COVI-19 wards.

The resignation of a staff member and two others' inability to report to office due to public transport shortage contributed to the decision to partly cease operations. Despite the lockdown, some patients still went to the hospital to meet their previous appointments. A staff member, Ms. Ma. Luz San Agustin, a registered nurse and clinical audiologist, continued to report to work to perform newborn hearing screening. walking several kilometers to and from office for lack of public transport

PNEI Director Dr. Maria Rina Reyes-Quintos, also Newborn Hearing Screening Reference Center (NHSRC) OIC, sent advisories to all Newborn Hearing Centers (NHCs) in the country which was consistent with the Philippine Inter-Agency Task Force for Emerging Infectious Diseases and PhilHealth Guidelines on the Provision of Special Privileges to Those Affected by a Fortuitous Event.

The first NHSRC advisory dated March 18, 2020 recommended that all NHCs defer initial screening with Oto Acoustic Emissions (OAE) or Automated Auditory Brainstem Response for up to two months after birth and that rescreening with OAE be done two weeks after initial screening. Confirmatory testing can still be done before three months and will still fall within therecommended 1-3-6-monthal gorithm.

During the lockdown, the NHSRC was unable to supply the Newborn Hearing Screening Registry Cards due to the unavailability of staff to process orders. The move was to ensure protection for the hearingscreeningpersonnel, nurses and doctors who may be exposed to COVID. The risk of infecting infants as well as of further exposure of the personnel to the COVID 19 virus in the birthing facilities far outweighed the benefits of hearing screening before the infant is discharged. This was during the time when the mode of transmission of the coronavirus was not yet determined.

The second advisory dated April 15, 2020 that is still in effect and will most likely be the new normal in the next one to two years states that hearing centers follow the hospital's or institution's procedural protocols on disinfection and attire. However, the NHSRC recommended wearing at least a surgical mask, eye protection in the form of face shield or goggles, and gloves in all procedures to ensure the safety of the patients and personnel whileperforminghearingtestsininfants.

The Ear Unit, with its soundproofing, was understandably a confined space. Administrative controls were set such as a strict appointment system through text, email and Viber, contact tracing information, and temperature checks before entering the facility. Walk-in patients were and are still no longer allowed.

The Ear Unit had to invest on a dedicated cellphone and redundant internet providers as the UP-Manila system was not reliable due to congestion. Engineering controls such as exhaust fans, HEPA filters, barriers and UV lamps were installed. A three-month supply of PPEs such as masks, face shields, gloves, 70% ethyl alcohol, germicidal hand soaps was ensured in place of the monthly replenishment. All of these were accomplished through generous donations from the PGH Department of Otorhinolaryngology and The Ear Study Group.

Despite limited resources, personnel and the COVID restrictions, the Ear Unit rose to the challenge of serving patients albeit on a limited scale. The Philhealth Z-Package for Hearing Impaired Children was pilot launched in December 2020. The Ear Unit is the first in the country to provide hearing aids to infants and



Receiving area of The Ear Unit with staff observing strict protocols on wearing mask, face shield, hand hygiene and social distancing.

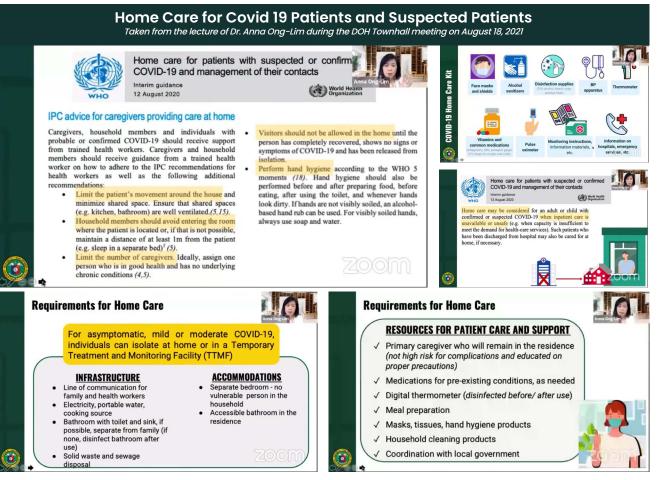


Engineering controls such as exhaust fans in all rooms, HEPA filters, UV light, sterilizers, barriers, taffetacoversfortheequipmentandPVCblinds that can easily be disinfected were installed.

children through the national insurance program led by Dr. Ma. Leah Tantoco an Otolaryngologist-Clinical Audiologist. and Dr. Christopher Malorre Calaquian. Of 51 applicants, 19 children have been fitted with the device as of February 2021.

The National Cochlear Implant Program led by Dr. Charlotte Chiong, former PNEI and NHSRC Director and UP College of Medicine Dean, was also started amidst this crisis. Partner institutions of this program are the Corazon Locsin Montelibano Memorial Medical Center in Bacolod and Southern Philippines Medical Center in Davao that will receive cochlear implants as well as diagnostic hearing equipment necessary to function as hearing implant centers. The program is envisioned to support families with children who need further surgical intervention after undergoing hearing amplification and speech therapy with minimal benefit. This is the final component in providing complete care for hearing impaired children in the Philippines.

*This article was contributed by the PNEI Ear Study Group composed of Rosario Ricalde, Christopher Malorre Calaquian, Ma. Leah Tantoco, Maria Rina Reyes-Quintos, Abner Chan, Nathaniel Yang, Teresa Luisa G. Cruz, Erasmo Gonzalo Llanes, Kimberly Mae Ong, and Charlotte Chiong.



DELTA VARIANT FROM PAGE 1...

In addition, a companion of the A3 (with co-morbidities) may be allowed for vaccination if they are immunocompromised, such as cancer patients, transplant recipients and those undergoing immunotherapy. Dr. Vergeire announced that these recommendations will soon be adopted as a national policy.

Drs. Vergeire and Ong-Lim stated that except for the Sputnik V and Gamaleya vaccines which are not recommended for pregnant and breastfeeding women, all other vaccines can be given for breastfeeding women, women in the 2nd or 3rd trimester of pregnancy, and for the first trimester for highrisk pregnancies after appropriate counselling. However, it was explained that booster shots are not yet advised because they are still being studied, and due to the high percentage of Filipinos who have yet to be vaccinated.

For children, both said that only Pfizer has an Emergency Use Authorization for ages 12 and above. In the Philippines, utilizing the ring or cocoon strategy to vaccinate qualified adults in households will also lead to protection for children.

Dr. Ong - Lim pointed out that home isolation is advised for asymptomatic and mildly ill children with clearance by doctors and with their and the local government unit's monitoring. In instances where home isolation is not possible, children should be accompanied by family members if there is a need for facility-based quarantine.

Ventilation Guidelines

For workers, Dr. Vergeire urged that all activities be held in open air spaces and in other places with proper ventilation that allow for 6-8 air changes per hour. She added that the use of exhaust fans can be helpful. Inside public transport, there should be no recirculated air and with open windows of at least three inches opening.

She cited the experts' recommendations against the use of air purifiers, ionizing air filters, foot baths, misting tents disinfection chambers and UV lamps. She cautioned against the use of wandlike UV lamps that are bought in online stores because these don't give protection and that UV lamps used in hospitals and clinics are the only ones authorized for use.

Dr. Vergeire also announced the suspension of the shortened sevenday quarantine and testing protocols for asymptomatic fully vaccinated close contacts.

Good information hygiene

Dr. Nina Castillo Carandang repeated the need for vaccine equity, to counter and not contribute to vaccine misinformation, rely on trusted sources, such as WHO, DOH, and health experts/health professionals,andconductfactchecks, that are necessary for practice of good information hygiene.

"Fake news spreads faster than COVID, we need to be proactive, think of what to like and share as we have a duty to have a positive impact to others and a responsibility as creators and shares of accurate information," she intoned. Cynthia M. Villamor



UP Manila - St. Paul Community Pantry serves 3,500 beneficiaries

For the past 10 weeks every Thursday, people fell in line along Pedro Gil Street as early as 3 am to be sure to bring home food items and other goods from the community pantry inside the St. Paul University Manila (SPUM) compound. While in the long queues, they were given loaves of bread for breakfast.

The community pantry was organized and conducted by the **Ugnayan ng Pahinungod** of UP Manila in partnership with its neighbor, SPUM; and started operating last May 4, 2021. UP Manila Chancellor Carmencita Padilla, SPUM President Sr. Evangeline Anastacio, SPC, and UPM Pahinungod Director Dr. Eric Talens were present on the first day of the pantry, when it served around 200 beneficiaries from Barangay 697 Malate, Manila. Barangay Captain Garphil Andrey R. Lee and his councilors saw to the peace, order, and security on each day of the activity. The Pahinungod staff and volunteers, assisted by the SPUM staff, were on the frontlines; handing out the packs of fresh vegetables, groceries, hygiene kits, eggs, and hot meals. Most of the goods were prepared by the volunteers and staff days before to facilitate the distribution on pantry day Thursday.

The second day of the pantry a week after had 275 beneficiaries, 75 of whom were from the Philippine General Hospital (PGH). With the assistance of PGH Chaplain Fr. Marlito Ocon, the pantry reached out to include the "bantays" or the watchers of PGH patients and the PGH Philcare maintenance personnel on the 3rd and 4th days.

In all, the UPM-SPUM community pantry was successful in having been held 10 times and serving roughly 350 beneficiaries each pantry day or a total of 3,500. The pantry served not only the people of Barangay 697 but also residents of San Andres, Sta. Ana, Paco, and as far as the Baseco Compound in Manila.

"Making a difference because the Charity of Christ urges us" is a motto reflective of this community pantry, combining the mottos of partners **Ugnayan ng Pahinungod** of UP Manila and SPUM.

Bridging the Distance: UP Manila Central Administration holds 1st virtual teambuilding

In an effort to "bring the community together" this pandemic, the UP Manila Central Administration (CAD) held its first online teambuilding program through varied activities on July 22-23, 28 and-30, 2021. With the theme "UP: Rising to the Challenge" the activities aimed to strengthen the intra- and interrelationship of the CAD offices/units and UP Manila's distant units, the School of Health Sciences, during the pandemic. All three SHS campuses - Palo, Leyte; Baler, Aurora; Koronadal, South Cotabato, and joined the activities. A fourth SHS campus will open in Tarlac to admit midwifery students in September.

During the "Kamustahan" that opened the program, Chancellor Carmencita Padilla not only updated the community on the status of the different programs and projects but also shared insights on how to make the hybrid y

to make the hybrid working environment more productive and meaningful.

This was followed by two webinars to help constituents cope with the challenges of the pandemic. Dr. Johann Kim T. Mañez, the First International Fellow, American College of Lifestyle Medicine, talked about Lifestyle Medicine on the 23rd while Dr. Rowena R. Antemano, a Postdoctoral Fellow Marine Science Institute, University of the Philippines-Diliman, spoke on "Moringa Para sa Corona" on the 28th.



To cap the activities, Prof. Buenalyn Teresita M. Ramos-Mortel, professor of public health administration at the UP Manila College of Public Health, talked about the impact of communication challenges in the hybrid workplace. The trivia quiz on UP Manila and the CAD offices and other games participated by the staff added fun and enhanced the goodwill and camaraderie among the members

A committee headed by Human Resource and Development Office Director Richard S. Javier, organized the teambuilding program. January Kanindot The UP Manila community offered a heartfelt send-off to a longtime ally and UP Board of Regents member **Dr. Nelia Teodoro-Gonzalez** who served the university and country in various capacities for more than 70 years.

Regent Gonzalez led a multifaceted life pioneering in agribusiness and social entrepreneurship, engaging in public service duties, and advocating for gender equality among others.^{*} She was a holder of a UP Doctor of Laws degree, *honoris causa*, and one of the UPAA Lifetime Distinguished Achievements awardees in 2013 that recognized her accomplishments as one of the country's first top female executives and for inspiring generations of women across Southeast Asia.

Sharing personal vignettes of Regent Gonzalez'sinfluenceinherlife,Chancellor Carmencita Padilla shared how "Tita Nelia", as she was fondly called, was keen to learn developments in her personal life and career at every opportunity. "She stayed connected with people and was always updated with their lives. She attended activities, big or small. *Basta't inimbitahan mo, darating siya.*"

For Chancellor Padilla, Tita Nelia had a fully lived life that must be shared. Her stories, advice, and wisdom must be listened to and learned from. She recounted how Tita Nelia was there to support her during the challenging times of her career when she was lobbying for the Newborn Screening Law and fighting for the creation of the Philippine Genome Center. In their last long conversation, Regent Gonzalez reminded Chancellor Padilla that serving the people is a responsibility and that nobody is ever too old to serve. "She said to me, if you can serve beyond the university, go ahead. So long as the heart and mind are willing to serve, continue to serve."

Other UP Manila officials and alumni who were close to Regent Gonzalez reflected on her remarkable life and how she touched not only their careers but also their lives. Vice Chancellor Arlene Samaniego wrote: "Ma'am Nelia was a very remarkable lady! An accomplished person with so many great achievements, but very down-toearth and "chill" mommy to all. *Walang mataas o mababang tao sa kanya*. She treats everyone equally and nicely." [She



was] very inspiring to listen to not only because of the wisdom she interjects in the discussion but also of the calm softspoken person that she is, she added.

Food and Drug Administration Director-General and UPCM alumnus Rolando Enrique Domingo wrote: "The instant that you get to know her, she instantly became your "Tita" because of her warmth and love for everything and everyone around her... She was the Tita that we all wanted; the one who spoils us, encourages us, and supports us no matter what."

As a leader, Tita Nelia had a strong personality beneath her feminine charm. This was according to former Vice Chancellor for Administration and PGH Director Napoleon Apolinario who wrote that she could be sweet when the situation calls for it and fought with toughness when it was the only way to get things done. "At the time when agriculture was dominated by men, Tita Nelia was the only female graduate in 1944 at the height of World War II. She taught us the meaning of fortitude and *lakas ng loob*."

Former UP Manila Chancellor Ramon Arcadio wrote that Regent Nelia was a God-loving lady. "She showed this divine love by her many projects in various socio-civic organizations that benefitted the poor. Even in her senior years, she had the energy, interest, and involvement in university activities practically in all campuses of UP."

Dean Charlotte Chiong of the UP College of Medicine recognized Regent Gonzalez's numerous achievements and contributions that shaped the University in the past 70 years. The college prepared a short video in her honor. Even in her 90s, Regent Gonzalez made use of her linkages to boost her public service duties.* Regent Nelia was truly one of the University's most outstanding alumni and an icon in the UP community. Her life's work may be read in *Nelia T. Gonzalez: An Entrepreneur's Journey* (UPLBAA, 2015) and in *Nelia T. Gonzalez: The Woman, Her Life, Her Legacy* (SEAMEO-SEARCA, 2002). **Anne Marie D. Alto**





Collection sites in (A) Ligao City, (B) Guinobatan, and (C) Legazpi City.

Study shows high levels of inhalable ash from 2018 Mt. Mayon eruption

The health dangers of volcanic eruptions form part of the research thrust of UP Manila College of Arts and Sciences Committee on Planetary Health. The thrust seeks to assess the cost of disasters to humans whether from forced movement of people or the harmful effects of air quality, Clean Air Asia suggests that to safety and health. Issues in sharing information and collection of samples and measurements to characterize disasters are being studied. Such studies would create and enhance knowledge that would be instrumental in planning for future disasters like volcanic eruptions.

The proximity of the 24 active volcanoes in the Philippines to several cities, towns, and communities exposes their residents and environment to the hazards and risks of volcano eruptions; as in the case of Mt. Mayon and Taal Volcano.

Two years after and similar to Mt. Mayon's eruption in 2018, the Taal Volcano eruption in January 2020 spewed ash that put the safety and respiratory health of the surrounding communities at risk. Ashfall was even observed in the National Capital Region and adjacent provinces such as Laguna that jeopardized the health of the residents.

The ashfall damaged human and animal lives, agriculture, properties, and even affected the fish-mainly tilapia and milkfish—being raised in thousands of aquaculture pens in Taal Lake.

One reason for the massive destruction was the lack of LGU disaster response plan in some areas. This plan should address evacuation planning for the residents, displacement of thousands of residents, issues on information dissemination between Phivolcs and LGUs, and lack of appropriate face masks for the vulnerable population in the affected communities.

Recently, it was reported in https:// cleanairasia.org that as of 1 July 2021, an alert level status 3 was declared around Taal volcano. Evacuation among residents in surrounding towns such as Laurel and Agoncillo has been taking place. In terms another inhalable hazardous element, sulfur dioxide, was released from the volcano. Sulfur dioxide would form sulfates that are the precursor of secondary particle formation leading to higher levels of pollution. Collection of particulate matter samples in surrounding areas would allow profiling the sources of air pollution from such a volcanic eruption.

The Committee on Planetary Health would like to present the study conducted by Ms. Jelle Ayz Beo, a UPM-CAS alumna. The study involved the collection of inhalable ash samples during the Mt. Mayon eruption in 2018 and the characterization of the samples based on its mass concentration, size distribution, and elemental composition. The characterization and categorization will help in the conduct of proper respiratory risk assessment.

The study revealed the magnitude of volcanic ash emitted by Mayon Volcano during a series of volcanic events in January 2018 and its impact on health. Volcanic ash (VA) was defined in the study as fragmented pyroclastic material < 2 mm in size. Inhalation of these particles can cause adverse health effects due to potentially toxic components and adsorbed bio-toxic compounds from volcanic fumes. Susceptibility to respiratory diseases increases if an individual is exposed to high concentration of particles that are small enough to penetrate the lungs. Particles < 10 µm in size (PM10) are called the inhalable fraction whereas particles < 2.5 µm in size (PM2.5) are called the

respirable fraction. PM10 may enter the bronchioles and can cause lung irritation, inflammation, asthma, and bronchitis. On the other hand, PM2.5 has the ability to enter the alveolar region of the lungs, increasing the risk of acquiring chronic respiratory diseases such as silicosis.

Based on her collected samples from Guinobatan, Ligao City, and Legazpi City in Albay, the levels of particulate matter PM2.5, were 745.54 µg/m3, 177.04 µg/ m3, and 42.79 µg/m3, respectively; which were all above the cut-off of 25 μ g/m3 set by the World Health Organization (WHO). The differences in the levels of particulate matter can be partly attributed to wind patterns during the eruption. The bulk of the collected inhalable samples were also in the 0.5-1.0 µm range in terms of particle size. The collected ash samples were fine enough to pass through the respiratory tract and readily settle at the alveoli, potentially causing adverse effects on the health of the concerned persons.

The study also showed that the mean silica content was above the limits set by the International Volcanic and Health Hazards Network for the samples collected in Guinobatan and in Legazpi City. A respiratory depositio-n dose was also estimated based on the mass concentration of the collected inhalable ash.

The high levels of inhalable silica and fine particles measured during the eruption of Mt. Mayon gave an idea of their impact on the respiratory health of the residents in the nearby communities. Collected data combined with wind patterns were also seen to determine the distribution of inhalable ash. Migel Antonio Catalig

*This article is from a series of features created by the UP Manila College of Arts and Sciences Committee on Planetary Health of UP Manila and is a follow-up to an earlier article on Planetary Health published in a previous issue. Representing various fields from the social sciences and the natural and physical sciences, the committee embodies the interdisciplinary nature of planetary health research and is working to raise awareness and interest on planetary health through research, publication, and public forums.