





APACPH EDUCATIONAL WEBINAR ON POST-COVID-19 11, September 2020 | 10:00am - 03:50pm (TST) | 11:00am - 04:50pm (KST)

"After COVID-19: Paradigm shift in public health education"



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Taiwan, Dr. Ying-Wei Wang

Towards a New Normal: Live a Healthier Life during the COVID-19 Pandemic in Taiwan





Health Promotion Administration, Ministry of Health and Welfare

Towards a New Normal: Live a Healthier Life during the COVID-19 Pandemic in Taiwan

Ying-Wei Wang M.D., Dr. P.H.

Director-General Health Promotion Administration, Ministry of Health and Welfare



COVID-19 Pandemic



Source: https://who.sprinklr.com/; https://covid-19.nchc.org.tw/?language=en 2

Taiwan's Quick Response to COVID-19 Threat



Jan 23 The Central Epidemic Command Center (CECC) begins to hold daily press conference.

Taiwan Model

Jan 30 Domestic face mask manufacturers are requisitioned, and the name-based mask rationing plan is launched in 7 days.





Dec 31 Atypical pneumonia had occurred in Wuhan, China

Jan 29 A digital fencing tracking system is built to keep track of the isolated/quarantined at all time.



Feb 16 The Quarantine System for Entry is officially launched.



- Public Communication
- Material preparation

Health Promotion Administration.

 Border/ Community epidemic prevention policy

3

Critical Success Factors in Taiwan



How the COVID pandemic and the NCD epidemic have brought about a deadly interplay





2019

19

SDG 3.4

Since the COVID-19 outbreak, people living with NCDs are more vulnerable to becoming severely ill or dying from COVID-19



The world is at a critical juncture. The execution of a forward-looking strategy inclusive of NCDs is required to **build back better.**

Today:

- Italy: Among those dying of COVID-19 in hospitals, 68% had hypertension and 31% had type 2 diabetes.
- India: 30% fewer acute cardiac emergencies reached health facilities in rural areas in March 2020 compared to the previous year.
- Netherlands: The number of people newly diagnosed with cancer dropped by 25% as a result of the lockdown.
- Spain: Among patients with severe COVID-19 disease, 43% had existing cardiovascular diseases.

Build back better tomorrow:

- Build bridges between national humanitarian emergency plans and NCDs responses
- Address the historic underinvestment in NCDs, call for new international funding patterns, a reset of global initiatives, and build new partnerships for NCDs.
- Develop systematic approaches to **digital health care solutions** for NCDs

New Normal: Life post COVID-19

"We cannot re-write the chapters of history already past, but we can learn from them, evolve and adapt. The new normal may even be a better normal, certainly a different normal"

A quote from Ian Davis, Managing Partner at McKinsey, in his article 'The New Normal'

Healthy At Home

- Eating healthily (
- Staying physically active

Digital Health Reforms

• Digital interactive technology platform



Personal App for self-management





Healthy at Home

The COVID-19 pandemic means that many of us are **staying at home and doing less in terms of social interactions and exercise.** This can have a **negative effect** on your physical and mental health. Following WHO's advice below to help you and your family to stay healthy at home during this period of confinement.



Eating Healthily

Press releases, Facebook, LINE articles





Consulting with Community nutritionist



How to Eat Health While Staying at Home.





Four nutrition tips to strengthen your resistance.



Home Fitness & Park Fitness

My Home is my Gym

• 3 videos introduce 4 At-Home Exercises.





Seated leg raise Long Slow Distance Running





shoulder stretch



Park is my Gym

- Pilot study: establishing Park Workout lessons for elderly in three parks in Taiwan.
 - Recruitment and training of fitness instructors
 - Taught elderly how to use simple equipments in parks for exercising.
 - Unified teaching materials of park workout using equipment, trees, benches in parks







The Pandemic Make Digital the New Normal in our Life.

Overall internet usage surged in Q1 by 47%, largely due to the COVID-19 pandemic.



4 years DISNEY+

Number of years the streaming platform is ahead of its own projections, with 54M paid subscribers in May

22% NETFLIX

MEDIA

STREAMING

50,000 years

The amount of content Americans streamed in just one day, April 4

STREAMING

Year-over-year subscriber arowth

. . .

66% PELOTON

Membership growth for the collaborative workout company

SOCIAL MEDIA

27% FACEBOOK Increase in daily website traffic

LINKEDIN Quarterly growth of user sessions

26%

Source: https://medium.com/pcmag-access/data-usage-has-increased-47-percent-during-covid-19-quarantine-11 5b56caac6235 Health Promotion Administration,

HPA's proposal "Weather & Health" wins the top 5 in 2020 Presidential Hackathon



- Presidential Hackathon is an initiative designed for the Taiwanese government to demonstrate its **emphasis on open-source data, data utilization, and practice innovation** to address the needs of the country in social innovations.
- The event aims to facilitate exchanges among data owners, data scientists, and field experts to assemble the wisdom of crowds across government, industry, and private and public sectors.



Health Promotion Administration,

VISION "Leaving no one behind" No one death in heat waves

Public sector-private sector cooperation

Particular State Particular State

In accordance with Sustainable Development Goal



Weather & Health~APP Design

> Open the APP. It can tell the risks you face today.



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Advantages of Cooperation with Cable TV

- 97.7% of the people in Taiwan have ٠ TV sets in their homes. (Note1)
- What elderlies do almost everyday for ٠ leisure and entertainment activities is watching TV, at 91.5% followed by walking at 44.4%. (Note 2)
- In the past, cable TV was a one-way ٠ communication, but as it's viewers were mainly middle-aged and senior citizens, transformation needed to happen and the strategy was to upgrade to the two-way interactive set-top box. It is in line with the policy of developing a TV platform which can be directly combined with the promotion of the current cable TV strategy.

Note 1: "2016 TV Usage Behavior and Satisfaction Survey" from the National Communications Commission. Note 2: "2011 Report on the Survey Results of the Long-Term Follow-up (seventh) Survey on the Physical and Mental Social Life of Middle-Aged and Elderly People in Taiwan" from the Health Promotion Administration of the MOHW.

Viewers **5** Million Ten Years Later **Elderly Population 5.59** Million long-term care in the future. ➡ Estimate 800 Chunghwa Telecom Co., Ltd 2 Million population over the age of 65 600 Reach the top in 2050 people) Viewers 10 thousand 400 343 200 he

Cable TV

0

1975 1985

1995

2005

Information source : National Development Council's "Population Estimate Report (2018 – 2065) Press Release https://www.ndc.gov.tw/News_Content.aspx?n=6FDC603ACC3D414D&sms=DF717169EA26F1A3&s=E1EC042108072B67

2015 2025 2035 2045 2055 2065

TV Platform Application and Development In line with **future population growth** trends and cable TV development direction

Can provide preventive services for thousands of elderlies at the same time. Relieve the stress on the lack of manpower for

Features of Home TV Interactive Technology Platform



- Overcome geographic limitation
- Can serve thousands of people simultaneously, exceeding the capacity of a single physical venue

Elderlies can still practical and interesting health information at home during times of bad weather, inconvenient travel or difficulty in mobility.

- Encourage going outdoors and social participation
- Needs are assisted and met locally

Monthly updates of activities in the residential administrative area, automatic location positioning, display distance walked in kilometers, time walked, with simple registration by pressing the green button.

- Can be easily operated by elderlies who are not good at using electronic products
- Promotes cross-generational connections

Children who are busy can video call or send photos to the TV of the elderlies at home through the mobile APP, so that they can see each other anytime, anywhere!



About 90% of the elderlies in Taiwan stay at home and are less involved or utilize little community resources. (*Note)

Note: : Refer to the 2018 statistics on the number of services provided at the community care venues from the Social and Family Affairs Administration of the MOHW, home visited 105,586 people based on community resources, telephone consultation and referral services to 108,123 people, provided catering services to 228,945 people. The subtotal is 442,652 people. If the number of the people are all non-repeating, it is estimated that they account for 12.7% of the elderly population over 65 years (3,433,517 people).

Home TV Interactive Technology Platform

~New Functions and Health Promotion During the pandemic

Home Stretching Exercise



Health Promotion via Online Interactive



Remote Inquiry for NHI Contracted Pharmacies Number of Masks





Participation through Audio

Online Synchronous Team-based Learning ~teaching health literacy for community health professionals









Provide Health Education and Health Promotion Activities for Elderlies ~Telehealth Platform

The local telehealth platform WaCare has been adopted in more than 66 community locations, providing online health education on COVID-19 and remote exercise courses. After the locations were closed in the prevention of COVID-19, the caregivers assisted the elderlies to use the online health promotion activities during the home visits.

Community



▲ Social workers used WaCare to provide consultation for the elderlies in the Ju Cai Shan community of Puli.



▲ Health promotion courses at the Taitung Hot Spring Day Care.

Home



▲ Home courses, social works home visits are supported by health consultations with experts online.



Provide Health Education and Health Promotion Activities for Elderlies ~Telehealth Platform

Sharing Platform for Medical Professionals and the Public Reports on COVID19



▲ A series of health education videos by the experts to promote health awareness and education.

Heart-Warming Respite Plan by Pharmacists



▲ The website provides a list of recommended psychologists. Psychologist Yi-Shan Wu providing psychological counseling for pharmacist.



ICT based Smart Healthcare



Patient with diabetes



Outpatient self-management and healthy lifestyle education



Digital Diabetes Care Solution (APP)



Management and online assistance by case manager

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Integration of telecare data platform with hospital's information system



Self management



Self data upload



Personal App for Better Diabetes Self-management







Diabetes Management during COVID-19 Pandemic

- More physicians provide care service for patients via diabetes management app and data platform.
- To avoid the risk of COVID-19, patients can take diabetes care service at home via online consultation in the future.



Blood glucose level Symptom at home Side effects of medications

> HbA1c test result Prescription Education information



Remote Diagnosis and Treatment to Help Home Isolation and Home Quarantine

In response to the COVID-19 epidemic, residents of home isolation, home quarantine, and independent health management who have urgent medical needs and have no fever or respiratory symptoms should contact the local health bureau's epidemic prevention line and be referred by the health bureau to a designated communication medical institution. Arrange video diagnosis and treatment.



Health Promotion Administration.

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Conclusion

Ensure healthy lives and promote well-being for all at all ages



Resource: Policy Decisions and Use of Information Technology to Fight 2019 Novel Coronavirus Disease, Taiwan <a href="https://wwwnc.cdc.gov/eid/article/26/7/20-0574_article/20-0574_article/26/7/20-0574_article/26/7/20-0574_article/26/7/20-0574_article/26/7/20-0574_article/26/7/20-0574_article/26/7/20-0574_article/26/7/20-0574_article/26/7/20-0574_article/26/7/20-0574_article/26/7/20-0574_article/26/7/20-0574_article/26/7/20-0574_article/26/7/20-0574_article/26/7/20-0574_article/26/7/20-0574_article/26/7/20-0574_article/26/7/20-0574_article/26/7/20-0

◆ New Taipei City Government





One World, One Health ~Health For All Taiwan Can Help



Health Promotion Administration, Ministry of Health and Welfare















Korea, Dr. So Yoon Kim

COVID-19 Response of Republic of Korea

Presentation slides are not authorized













Singapore, Dr. Yik-Ying Teo

Returning to Public Health 101 for managing COVID-19: A case study from Singapore









Returning to Public Health 101 for managing COVID-19: A case study from Singapore

YY Teo Professor, Dean Saw Swee Hock School of Public Health

Turning Discovery into Healthier Communities

Fundamentals of Public Health



Saw Swee Hock School of Public Health

- 1. Evidence-based public policies
- 2. Focused on **Prevention**, and of **Systems Thinking**
- 3. Focused on "DIME" and "SAFE"
 - **DIME** = Design, Implementation, Monitoring, Evaluation
 - **SAFE** = Sustainable, Adequate, Fair, Efficient
- 4. Cross-disciplinary, systems-level thinking, outcomes driven

Evidence generation and		Modeling and impact		Monitoring and	
synthesis (data collection,		analysis of disease		evaluation (including	
meta-analyses,		burden or interventional		economic) of policies,	
systematic reviews)		programmes		and programmes	
	Health communication, promotion and media engagement		Health system an healthcare pr	ns evaluation nd riority setting	

Managing Health at the Systems-level



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Health services provision

Primary Care	Specialist Clinics	Tertiary Hospitals	Intermediate Long-term Care	Palliative Care			
Health Promotion							
Communications							
Financing							

COVID-19: What are the Outcomes that matter?



Zero cas

doesn't count

Saw Swee Hock School of Public Health

- 1. Ability to Test, Track, Trace and Isolate
- 2. Minimizing Deaths and Complications
- 3. Protecting Healthcare Workers
- 4. Universal Health Coverage for COVID-19
- 5. Ensuring continuity of non-urgent medical services
- 6. Fiscal Support for Individuals and Businesses
- 7. Ensuring Resilience in Food and Medicine Supply Chains
- 8. Protecting Vulnerable and Neglected Populations

Benchmarking Global Health Security GLOBAL HEALTH GLOBAL HEALTH SECURITY INDEX

https://www.ghsindex.org/


Benchmarking Global Health Security

A	I Europe	North America	a Asia	South Am	erica Afri	ca Oceania						
#	Country, Other	Total Cases ↓₹	New Cases 1	Total Deaths	New Deaths 11	Total Recovered 1	Active Cases	Serious, Critical	Tot Cases/ 1M pop	Deaths/ 1M pop 1	Total Tests	Tests/ 1M pop 11
	World	22,602,141	+32,942	791,402	+1,207	15,319,076	6,491,663	61,723	2,900	101.5		
1	USA	5,701,162	+231	176,342	+5	3,062,755	2,462,065	16,875	17,210	532	73, <mark>11</mark> 8,341	220,723
2	Brazil	3,460,413		111,189		2,615,254	733,970	8,318	16,264	523	13,729,872	64,531
3	India	2,841,400	+5,578	54,017	+23	2,097,766	689,617	8,944	2,056	39	32,661,252	23,636
4	Russia	942,106	+4,785	16,099	+110	755,513	170,494	2,300	6,455	110	33,500,000	229,541
5	South Africa	596,060		12,423		491,441	92,196	539	10,033	209	3,455,671	58,168
6	Peru	558,420		26,834		377,453	154,133	1,516	16,905	812	2,852,011	86,339
7	Mexico	537,031	+5,792	58,481	+707	367,537	111,013	3,480	4,159	453	1,211,552	9,384
8	Colombia	502,178		15,979		326,298	159,901	1,493	9,855	314	2,337,241	45,868
9	Chile	390,037		10,578		364,285	15,174	1,120	20,380	553	2,087,354	109,067
10	Spain	387,985		28,797		N/A	N/A	617	8,298	616	7,955,615	170,147
11	Iran	350,279		20,125		302,528	27,626	3,868	4,163	239	2,939,840	34,942
12	<u>UK</u>	321,098		41,397		N/A	N/A	73	4,727	609	14,988,134	220,626
13	Argentina	312,659		6,330		228,725	77,604	1,795	6,909	140	1,012,979	22,385

Worldometer statistics as of 20/08/20

Our understanding of COVID-19 evolves over time, and so does our PH policies

Evidence generation and synthesis (data collection, meta-analyses, systematic reviews)

Evidence areas	Initial Current		Implication/s	
Human-to-human transmission	Animal-to-Human transmission only	Human-to-Human transmission	Safe-distancing measures	
Transmissibility	Low transmissibility between humans	COVID-19 highly transmissible	Compulsory mask wearing, safe-distancing measures, SHN, QOs, hand-hygiene	
Asymptomatic spread	Asymptomatic patients are not infectious	Asymptomatic patients are infectious	Compulsory mask wearing	
Transmissibility to pets & livestock	No human-to-animal transmission	COVID-19 possibly transmissible from human-to animal	None currently	
Aerosolization / Airborne	May be transmissible through as through airborne	Compulsory mask wearing		
Mutation of COVID-19	Iutation of COVID-19 Virus has the potential to mutate to become more or less virulent		More virulent = higher chance of increased hospitalization	
Transmission dynamics Transmission through close contact with infected individuals		COVID-19 may be transmitted through food or packaging or equipment	None currently	
Schools	School-going children (<12) low	Schools reopening		



Understanding burden and

Saw Swee Hock

Emphasis on Monitoring, **Enforcement and Penalties**



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Monitoring and evaluation (including economic) of policies, and programmes



Before reopening, businesses must implement SAFE MANAGEMENT MEASURES to provide a safe environment for workers and customers.

International Edition V Watch U CNA938 C Sign Q COVID-19: Restaurant ordered to close after crowds seen along Lorong Mambong in Holland Village

British Indian Curry H

Use SafeEntry to check in and check out for contact tracing



25 Jun 2020 01:07PM (Updated: 25 Jun 2020 01:34PM)

Coronavirus: Access to popular parks, beaches will be closed if too crowded; 2 bars suspended for violating safe distancing rules

O PUBLISHED JUL 24, 2020, 6:59 PM SGT | UPDATED JUL 24, 2020, 8:23 PM

Singapore

😑 All Se

7 people fined over social gatherings at Robertson Quay during COVID-19 circuit breaker

Communications to Public, Employers, and Policy Makers



Exclusive: How Singapore sends daily Whatsapp

How a GovTech unit built #CovTech to coordinate Singapore's response to the COVID-19 outbreak.

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Health communication, promotion and media engagement

ITSTIMES I JUST WANT TO MINUS COVID-19 LET'S ALL If you have mild flu-like symptoms like OUR PART next PM. to the polls House Store gov Gov.sg < 5 Gov.sq < 5 Gov.sg Wash your hands Keep your home Monitor your AVOID frequently with temperature and surroundings touching your face clean and soap twice daily Sore throat Fever [Sent by Gov.sg - 25 Feb] with your hands well-ventilated [Sent by Gov.sg - 16 Feb] COVID-19: 13 Feb Update SEE COVID-19: Enforcement COVID-19 spreads easily TOR Be socially responsible New cases: 8, as of 12pm measures: Total confirmed cases: 58 Don't go to Infectious as influenza 0 Home Quarantine Orders ou are sick AVOID work or school tests Total discharged: 15 For work pass holders with recent and see a and Leaves of Absence Infectious even if symptoms mild · Avoid crowds doctor prompthy places and and stay at you travel history to mainland China: inated locatio tay at home - Stay home even with mild flu-like Stay at home The eight new cases are all linked - Employers can seek approval · Don't doctor-hop symptoms to previous cases. Most still in online for worker to enter/return to hospital are stable or improving. 7 Singapore **COVID-19 is NOT SARS** are in ICU. - A 14-day Stay Home Notice - World Health Organisation (WHO) You can go to period will be imposed on worker found 82% of infected have mild More: Go.gov.sg/moh13feb upon arrival symptoms, 15% severe and 3% - Action will be taken against critical Support package for taxi + private employers/employees who don't - COVID-19 fatality rate far lower PHPC hire car(PHC) drivers comply than SARS, closer to H1N1 Taxi and PHC drivers' livelihoods - To date, 11 work passes of have been badly affected WE WILL GET THROUGH THIS! workers have been revoked and COVID-19 is likely to spread around To help them, Govt + taxi and their employers' privileges the world & here. We must be PHC Operators will launch a \$77 suspended for a year. prepared for this million Support Package Do not spread rumours. Get the latest on the novel coronavirus by More: Go.gov.sg/drivers-support More: Go.gov.sg/24feb-MOM signing up for the Gov.sg WhatsApp channe MINISTRY OF HEALTH Statement: go.gov.sg/ (www.go.gov.sg/whatsapp) or at the MOH site (www.moh.gov.sg

updates on coronavirus

10/49

Systems-level Considerations



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healthcare priority setting

Healthcare Financing

THE STRAITS TIMES



Saw Swee Hock School of Public Health

SINGAPORE

Coronavirus: Singapore Government to foot bills of infected patients at public hospitals, except outpatient expenses

- Assurance of financial coverage for all, including migrant workers
- Singapore insurance associations issue joint statement to provide coverage for medical expenses related to COVID-19



COVID-19: What are the Outcomes that matter?



Zero cas

doesn't count

Saw Swee Hock School of Public Health

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- 2. Minimizing Deaths and Complications
- 3. Protecting Healthcare Workers
- 4. Universal Health Coverage for COVID-19
- 5. Ensuring continuity of non-urgent medical services
- 6. Fiscal Support for Individuals and Businesses
- 7. Ensuring Resilience in Food and Medicine Supply Chains
- 8. Protecting Vulnerable and Neglected Populations

For Discussion



- Ability or inability to respond during a public health crisis is a function of decision taken in a country in the past
- Global Public Health cannot be left to chance, Academic-Governmental partnerships during peace time <u>must be a norm</u>
- Outcomes during crisis matters, not series of peace-time indicators

Turning Discovery into Healthier Communities



Saw Swee Hock School of Public Health

Thank you!

ephtyy@nus.edu.sg











Malaysia, Dr. Noran Naqiah

Working together through the challenges of Covid-19

Presentation slides are not authorized

















Korea, Dr. Sunjoo Kang

Yonsei Master's Degree Program in Global Health security and ICUH





SEVERANCE

Master's Degree Program in Global Health Security Capacity Building

Sunjoo Kang, Yuri Lee





Master's Degree Program in Global Health

KOICA Scholarship Program

Master's Degree Program in Global Health Security Capacity Building (2017-2021)

Master's Degree Program in Health Policy and Financing Capacity Building (2020-2024)

Program Title	n Department Division		No. of Students	Degree	Period
	Department of Global Health Security	Division of Global Health Security Prevention Program	20		2017.09. ~ 2019.02.
Maataria		Division of Global Health Security Detection Program	20	Master of Public	2018.09. ~ 2020.02.
Degree		Division of Global Health Security Response Program	20		2019.09. ~ 2021.02.
in Global		Division of Global Health Security	00	Health	2020.09.01~
пеаш	Department of	Division of Global Health Policy and Financing)	20		2020.09. ~ 2022.02.
	Global Health		20		2021.09. ~ 2023.02.
	Financing		20		2022.09. ~ 2024.02.



I. Program Overview

- Program Title: KOICA-Yonsei Master's Degree Program in Global Health Security Capacity Building
- **Duration:** 17 months study in Korea



- Degree: Master of Public Health, Global Health Security Response Program
- Number of Participants: 20 Government Officials from health sectors
- **Language:** English fluency that requires no interpretation
- Study Areas: Public Health, Infectious Diseases Control, Leadership, Management of Infectious Diseases, Research Skills

Curriculum & Credits

Mandatory

Introduction of Public Health(2), Biostatistics (2) Epidemiology for control of communicable diseases (2) Case studies in GHSA/EID (1), Case studies in Global health (1) Introduction to GHSA (1), Global Health Seminar (1) Thesis of Global Health Security (GHS) I (2), Thesis of GHS II (4)

Credit		Prevention	Detection	Response	
	2	Tuberculosis in Korea	Tuberculosis in Korea	COVID-19 response in Korea International Disaster Response	
ect	1	Introduction of Infectious Diseases	Vaccine Preventable Diseases	Hospital Infection Control	
e subje	2	Antimicrobial Resistance of Bacteria	Managing Service Delivery for UHC	Managing Service Delivery for UHC	
lective	1	Back to the Basics of Infectious Diseases	GHSA, Health Law and Ethics	Health Law and Ethics	
ш	2	Vaccinology	Vaccinology	Vaccinology	
	1	Bioterrorism preparedness and response	Medical and Humanitarian Emergencies	Medical and Humanitarian Emergencies	

Vaccinology

Credit : 2

Topics to be covered by lecture

- History of vaccine
- Vaccine against Zika virus
- Animal studies in Vaccine development
- Vaccination schedules
- Transmission modeling
- Ethical issues in conducting clinical trials
- Regulatory assessment of vaccines
- Vaccine preparedness and response to EID
- Assessing vaccine effectiveness
- Post-registration safety monitoring
- Practice of epidemiologic curve

Student participation

- Discussion



Hospital Infection Control

Credit: 1

Topics to be covered by lecture

- Introduction of infection management
- Outbreak investigation and discussion
- Surveillance bundle approach for infection control
- Laboratory test for infection control
- Molecular epidemiology
- Standard precaution, and PPE
- Emerging infectious disease management
- Management of multi-drug resistance organism
- JCI Hospital infection prevention and control

Student participation

- Case simulation and presentation



Medical and Humanitarian Emergencies Course

Credit : 2

Topics to be covered by lecture

- Disaster definition
- Disaster planning
- Epidemiology and surveillance
- War and public health
- Ethics and humanitarian principles
- Food security and livelihood
- Metal health
- Disease management in emergencies
- Sexual and reproductive health
- Discussion exercise : Disaster assessment, establishing health services, disease outbreaks

Group discussion

- Case studies and presentation daily





COVID-19 Response in South Korea

Credit : 1

Topics to be covered by lecture

- Governance
- Border control
- Testing
- Contact tracing and Isolation
- Treatment
- Practice of epidemiologic curve mapping
- Telemedicine
- Social distancing
- Risk communication

Students participation

- Summary presentation of their country's response



() SEVERANCE

III. Global Fellow Accomplishment

Nationalities of Global Health Security Program Students :

59 students from 24 countries







WHO Six Region	Country Name	Batch 1	Batch 2	Batch 3	m		
	Vietnam	3	2	1	6		
	Solomon Islands	1			1		
Western Pacific	Mongolia	2	1	1	4	14	
Region	Cambodia			1	1		
	Lao PDR			2	2		
	Nepal	3		2	5		
South-East Asia	Timor-Leste		1	1	2	0	
Region	Indonesia		1		1	9	
	Bangladesh			1	1		
Fastorn	Egypt	1		2	3		
Mediterranean	Afghanistan	2			2	6	
Region	Iraq			1	1		
	Ghana	1		2	3		
	Ethiopia	2	1	1	3 4 4 4 4 4		
	Kenya	2	1	1		26	
	DR Congo	2	2				
African Region	Rwanda	1	3				
	Cameroon		2		2		
	Tanzania		2		2		
	Cote d'Ivoire		1		1		
	Uganda			2	2		
	Kyrgyzstan			1	1		
European Region	Kazakhstan		1		1	4	
Region for the America	Ecuador		1	1	2		
TO	ΓAL	20	18	20	59	59	



- Number of Mater Theses : **39** (100.0%)
- Number of SCIE Journal publication : 6 (15.4%)
- Number of Reviewing after Submission : 11 (28.2%)
- Number of Promotion to Higher Position : 15 (38.5%)
- Number of Working in COVID 19 Sector : 14 (35.9%) / Batch 1 (10, 50%), Batch 2 (4, 22.2%)

Name of Affiliation of COVID 19 Response

 B1 Multi-sector Committee for Coronavirus pandemic Control, DR Congo
 Senior Investigator (developing a multiplex serological test for COVID19, DR Congo

National Multisectoral Commitee for the Control of COVID-19, **Ghana** Bhudhanilkantha Municipality health facilities, Contact Tracing Officer, **Nepal** Chief of provincial health office, Infection control officer in surveillance department, Nepal

Supply chain management, Task force advisor at Rwinkwavu district hospital, Nepal

Infectious Disease Control (Training PPE, preventive measure to all provinces) in **Solomon Islands**

B2 CDC Official at CDC Department, **East Timor** Team leader- COVID-19 country emergency response team, **Kenya**



A new era of ICUH Challenges and opportunities

COVID-19 Impact on Education



Change in Education System

	Education 1.0	Education 2.0	Education 3.0
Meaning is	Dictated	Socially constructed	Socially constructed and contextually reinvented
Teaching is done	Confiscated at the classroom door	Teacher to student and student to student	Teacher to student, student to student, student to teach, people-technology-people
Schools are located	In a building	In a building or online	Everywhere (through infused into society; cafes, bowling alleys, bars, workplaces, etc.)
Teachers are	Licensed professionals	Licensed professionals	Everybody, everywhere



Education 4.0 era By COVID-19?

Reference: New paradigm model – Education 1.0 - 3.0 spectrum as presented by John Moravec in "Moving beyond 2.0" (Education features, 2008)

CONTENTS

Course Taken Numbers by Subject



2015 ~ 2019

	Course Name	Lecture Professor	Total number of course taken
1	Public Health	Jae-Hoon Roh, Jong Wook Won, So yoon Kim	69
2	Biostatistics	Young Moon Chae, So hee Kim, Sohee Park	61
3	Research Method in Health	Young Moon Chae, Colin Binns	60
4	System Analysis and Design	Young Moon Chae	43
5	Health System	Yuri Lee	37
6	Introduction to Occupational and Environmental Health	Purevdorj Baljinnyam	30
7	Health Promotion	Hee Jin Kim	19
8	Rural Health	Osman Ali, Tomiko Hokama	19
9	Bioethics and Health Law	So Yoon Kim	16
10	Int'l Maternal and Child Health	Tomiko Hokama, SooJin Yoon	11
11	Social Determinants of Health	Saroj Jayasinghe	11
12	Global Guidelines on Health	Laura Hawken	10
13	Hospital Administration	Tae-Hyun Kim	10
14	WHO and Community Health	Laura Hawken	3
15	Health Economics	In Kyu Kim	2
16	Human Resource Management	In-Soon Kim	2

Courses from Global Public Health Master Degree, GSPH Yonsei University

- Global Health Security Course
- Global Health Policy and Finance Course
- Korea's COVID-19 Response Course
- Medical and Humanitarian Emergencies Course (cooperated by SPH Jonhs Hopkins University)

Collaboration with Industry-Academic-Research Institutions, GSPH Yonsei University

- NECA
 - Systematic Review
 - Economic Evaluation
 - Health Technology Assessment
- Right Fund
 - Diagnosis and Treatment of Emerging Infectious Diseases
- APACPH Members

PLATFORM







Zoom

Canvas





Real-time Online Interactive Class



Learner-centered Teaching Methods



References

- UNESCO website
 <u>https://en.unesco.org/covid19/educationresponse</u>
- New paradigm model Education 1.0 3.0 spectrum as presented by John Moravec in "Moving beyond 2.0" (Education features, 2008)



YONSEI UNIVERSITY HEALTH SYSTEM

Thank you.











Taiwan, Dr. Pau-Chung Chen Public Health Specialists Act in the post-COVID-19 environment





Public Health Specialists Act in the Post-COVID-19 Environment

Pau-Chung Chen, MD, PhD Taiwan Public Health Association September 11, 2020










DAILYMAIL.CO.UK | 作者: DAILY MAIL

Human-to-human transmission confirmed in China coronavirus

CDC.GOV.TW

我國藉由登機檢疫即時發現首例中國大陸武漢移入之嚴重特殊 傳染性肺炎個案,指揮中心提升中國大陸武漢之旅遊疫情建...



Fig. 1. Intended impact of NPIs on an influenza epidemic or pandemic by reducing person-to-person transmission.



NPI: non-pharmaceutical intervention. Sources: US Centers for Disease Control and Prevention and European Centre for Disease Prevention and Control guidelines (29, 30).

Public Health Specialists During the COVID-19 Pandemic

Core competencies	Prevention and control measures
Biostatistics	Outbreak investigations to prevent further spreading
Epidemiology	preventive policies and measures
Health policy & management	 Integration and coordination of prevention and control policies and management Strategic preparedness and response plan in national and local health authorities, and health care facilities
Environmental health sciences	 Environmental sanitation: indoor ventilation, sewage management, household waste, etc. Personal protective equipment Employee health surveillance and protection
Social & behavioral sciences	 Health education to enhance health literacy of preventive measures Risk communication for public health emergencies to avoid public panic response

COVID-19 Prevention and Control Measures in Communities, Schools, and Workplaces

Date: February 22, 2020, Place: National Taiwan University College of Public Health

Time	Торіс	Speaker
09:00 - 09:15 am	Opening ceremony	Pau-Chung Chen
09:15 - 09:45 am	COVID-19 and global health governance	Chang-Chuan Chan
09:50 - 10:40 am	Current epidemiological features of COVID-19	Chi-Tai Fang
11:00 - 11:50 am	Transmission dynamics of COVID-19	Hsien-Ho Lin
12:00 - 12:50 pm	COVID-19 outbreak investigations	Meng-Yu Chen
02:00 - 02:50 pm	Personal and environmental protective measures for COVID-19	Ching-Wen Chang
03:00 - 03:50 pm	Public preventive behaviors against COVID-19	Jiun-Hau Huang
04:00 - 04:50 pm	Preparedness and contingency planning in response to COVID-19	Kuo-Piao Chung
05:00 – 05:30 pm	Discussion	Pau-Chung Chen

全國公衛人自救會2020/2/13



公衛須團結 團結真有力

擁擠、空氣不流通

清洗後可重複使用

及醫療院所時使用,

-蔣渭水 如何選擇口罩配戴? 醫用/外科 棉布口罩 口罩。 無外科口罩時, 醫護人員或有呼 使用棉布口罩亦 吸道症狀的病人 可作爲保護 請務必要配戴 各年齡層及一般健 口罩上有髒汙或潮 康的民衆進出人潮 濕情形,以及探視

適用於暴露在高 風險醫療環境工 作的醫護人員 呼吸阳抗較高,不建 一般民衆或有呼吸 完傳染病患者後, 配戴。遇有髒汙、破 請務必要更換。 損、潮濕或變形應立 即更换。



首頁

目前各國尚在研究武漢肺炎病毒的

資料來源:中川醫學大學職業安全衛生系





續與武漢肺炎抗戰

置…

洗手加口罩,防疫一把罩。

!!請注意!! 口罩**不建議**使用**酒精**消毒喔!根據研究 結果可知,使用上述方式容易破壞口罩 表面的防護塗層,使口罩保護效果降低 至80%以下。

資料來源:中山醫學大學職業安全衛生系









陳保中、林亮瑜:因應開工,職場防疫對抗武漢肺炎



誌



COMMONHEALTH.COM.TW | 作者:康健雜誌

台灣公共衛生學會

3月12日 · 3

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TALK.LTN.COM.TW 自由廣場》盼公共衛生師法儘速通過 - 自 由電子報自由評論網

陳保中:長期抗疫防社區破口 公衛師非常重要-康健雜

◎ 陳保中、林先和 新型冠狀病毒(COVID-19) 在 西方國家引爆遍地烽火,國與國之間未有地理障 壁阳隔的歐陸國家陸續封城甚至祭出關閉邊界以..





4月12日 · 3

💮 台灣公共衛生學會

...

...

TW.APPLEDAILY.COM

陳保中、林先和:台灣可以也願意加入全球戰疫 陳保中/台灣公共衛生學會理事長、林先和/台灣公共衛生學會祕...



...

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TW.APPLEDAILY.COM

陳保中、林先和:應考資格喬不定公衛師法卡關? 陳保中/台灣公共衛生學會理事長、林先和/台灣公共衛生學會祕...



自由廣場》建立職場防疫新常態 - 自由電 子報自由評論網

◎ 林亮瑜、陳保中 武漢肺炎疫情襲捲全球,台灣 在此次大流行中,透過積極追蹤、檢疫接觸者, 以及全民積極配合防疫,有效降低病毒在社區的...



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UDN.COM

疫情發燒...盼速立公衛師法 | 聯合新聞網: 最懂你的新聞 網站

TW.APPLEDAILY.COM

【疫情顯微鏡】陳保中、林先和:「社交距離預警指標」 找威染熱區



台灣公共衛生學會 台灣胸腔暨重症加護醫學會

台灣感染症醫學會

聯合聲明

February 25, 2020



First Step of Public Health Specialists

- Health Behavior Monitoring of New Life Movement for COVID-19 Disease Prevention
- Taiwan National Health Command Center
- Taiwan Centers for Disease Control
- Taiwan Public Health Association
- Public health departments, schools, colleges or programs in Taiwan



Health Behavior Monitoring of New Life Movement for COVID-19 Disease Prevention

July 4 (Taipei)/July 11 (Taichung), 2020 July 5 (Taipei)/July 12 (Taichung), 2020

Time	Торіс	Speaker	Time	Торіс	Speaker	
09:30- 10:00	Opening ceremony	Shih-Chung Chen	09:00- 09:40	Notification and surveillance system of COVID-19	Chia-Lin Lee	
10:00- 10:40	Introduction of COVID-19 pandemic	Chang-Chuan Chan	09:40- 10:20	COVID-19 outbreak investigations	Meng-Yu Chen/ Chia-Ping Su	
11:00- 11:40	Public Health Specialists Act – role in population health and	Pau-Chung Chen	10:20- 10:40	Q&A		
	disease prevention		11:00-	Principles of questionnaire interview	Ying-Lung Chou	
11:40-	Epidemiological features of	Hsien-Ho Lin Jiun-Hau Huang/ Susan C Hu	12:00	and effective communication skills		
12:20	COVID-19		13:10-	Context and meaning of the survey	Project Office	
13:30-	Public preventive behaviors		14:30	questionnaire		
14:20	against COVID-19		15:00-	Questionnaire interview practice	Project Office	
14:30-	Information analyses of health	Tzu-Pin Lu	16:00			
15:10	behavior monitoring		16:10-	Discussion	Project Office	
15:30-	Questionnaire survey of health	Shu-Sen Chang	17:00			
16:10	behavior monitoring		17:00-	Final remarks	Project Office	
16:20- 17:00	Initial questionnaire interview practice	Project Office	17:10			

Public Health Specialists

Public Health Medicine Population Person Prevention Diagnosis Promotion Treatment Behavioral/environmental Medical care interventions Personalized health Population health **Precision medicine** Precision health

Physicians Dentists **Pharmacists** Nurses Midwives Medical Technologists Dietitians physical therapists Clinical **Psychologists**

...

Public Health Specialists



Public Health Specialists



Promulgation date: June 3, 2020

- Chapter 1. General Principles, Article 1-7
- Chapter 2. Practice, Article 8-19
- Chapter 3. Association, Article 20-28
- Chapter 4. Penalty, Article 29-37
- Chapter 5. Miscellaneous, Article 38-40

Promulgation date: June 3, 2020

- Article 4. Any person meeting the following qualifications who is eligible to participate in a public health specialist examination:
 - 1. Graduate with the academic certificate from a public health department, school, college or program in a public or registered private university, independent college or overseas university or independent college recognized by the Ministry of Education.
 - 2. Graduate with the academic certificate from a medical or public health related department, school, college or program in a public or registered private university, independent college or overseas university or independent college recognized by the Ministry of Education and having acquired at least 18 credits with public health, thereby, supporting documents are required.
 - 3. Graduate with the academic certificate from a medical or public health related department, school, college or program in a public or registered private university, independent college or overseas university or independent college recognized by the Ministry of Education and having performed in public health related work for at least 3 years, thereby, supporting documents are required.
 - The scope and duration of the "public health credit" referred to in subparagraph 2, the "medical or public health related department, school, college or program" referred to in subparagraph 3 and the "public health related work" referred to in subparagraph 3 of the previous paragraph shall be determined by the central competent authority.

Public Health Specialists Act Promulgation date: June 3, 2020

- Article 8. Public health specialists practice business shall base on one of the following manners, except for supporting between or among institutions and sites.
 - 1. Employed by a medical, healthcare or long-term care institution, public health specialist office or other institutions or sites approved by the competent authority.
 - 2. Employed by an institution (site) other than the previous subparagraph that should staff with a public health specialist in accordance with the law.
 - After accumulated practice for 2 years or longer in the locations prescribed under the previous paragraph, a public health specialist may file an application with the municipal or county (city) competent authority to establish a public health specialist office alone or together with other public health specialists. However, if the public health specialist has practiced public health businesses before the implementation of this Act, the actual service period may be combined with calculation of aforementioned period.
 - The responsible public health specialist of a public health specialist office shall be its applicant, responsible for the supervising the business activities of the office.
 - The use and change of names of public health specialists under the preceding second paragraph, the conditions and procedure for the approvals of establishment applications, issuance or cancellation of approvals, fee schedules, restrictions on advertising contents and other compliance matters shall be established by the central competent authority.

Public Health Specialists Act Promulgation date: June 3, 2020

- Article 13. Public health specialists shall practice the following businesses:
 - 1. Planning, promotion or evaluation of environmental health risks and proposals for the community and site.
 - 2. Planning, promotion or evaluation of disease investigations and prevention proposals for the community and site.
 - 3. Planning, promotion or evaluation of public health status investigations and health promotion proposals for the community and site.
 - 4. Planning, promotion or evaluation of food safety risk investigations and quality management proposals in the community and site.
 - 5. Other public health affairs recognized by the central competent authority.

Promulgation date: June 3, 2020

- Should any of the following events concerning the business activities under the previous paragraph occur, it shall not be subject to the restrictions of this Act:
- 1. Practice by medical staff or other professional and technical staff which is affiliated with their business activities.
- 2. Execution by government authorities (institutions) or mandated or subsidized by government authorities (institutions).
- 3. Execution by schools, institutions, corporations or organizations in accordance with research projects.
- 4. Execution by military authorities or affiliated medical institutions in consideration of national defense security affairs.
- Practicing businesses by public health specialists under the first paragraph shall not involve any medical act, except if the public health specialist is simultaneously qualified as medical staff.

Public Health Specialists Act Promulgation date: June 3, 2020

- Article 14. In case of emergency or major public health incident, the competent authority may designate public health specialists to carry out the activities under the first paragraph of the previous Article. Public health specialists shall not refuse thereto without justification.
 - The costs or losses incurred by public health specialists in carrying out the designated activities under the previous paragraph shall be compensated by the competent authority. The rules about qualifications and procedure for seeking compensation, the approval of the scope of costs or losses, the manner of compensation and other relevant matters shall be determined by the central competent authority.



衛生福利部自 2003 年 SARS 過後,即著 手推動公共衛生師立法工作,惟因其定位、 業務範疇、專業排他性及應考資格等問題, 始終未能順利於立法院進行審議。本次公 衛師法草案歷經多方討論及公聽會後,終 於本(109)年4月23日獲行政院審查 通過送請立法院審議,立法院於今(15) 日三讀通過「公共衛生師法」,為台灣公 共衛生發展之重要里程碑。



TO VOVOVOVO

亞洲首立公衛師

亞洲首立公衛師

唐

管護薬衛一起上! 子護台灣人民健康

#2020年通過

守護台灣人民健康

亞洲首立公衛師 邁向世界一大步

GERENESSES.

調播藥

起上

#我是公衛/

四周百立公司相 #2020年講員

2台灣公衛安全統

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全台灣公衛安全網

亞洲第一公衛師法 邁向全球公衛大國

立院通過公衛師法

台灣公衛史一大步

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全台灣公衛安全

12

200

2020-5-15

公衛師立法

保障全民健康











Singapore, Dr. Yik-Ying Teo

Is a New Normal needed for Public Health Education during and after COVID-19?

>>>>>>>>>





Is a New Normal needed for Public Health Education during and after COVID-19?

YY Teo Professor, Dean Saw Swee Hock School of Public Health

Turning Discovery into Healthier Communities

What are the value propositions for a Public Health Education

- Broad-based education in multiple disciplines
 - Epidemiology, Biostatistics, Communication, Health Promotion, Health Economics and Priority Setting, Sociology, Ethics, Technology and Engineering, etc.
- To network (global, national, NGOs, civil societies, industry)
- Learn about health policies and programmes
 - Advocacy, policy setting
 - DIME (Design, Implementation, Monitoring, Evaluation)
 - SAFE (Sustainable, Adequate, Fair, Efficient)

Historical and Contemporary Perspectives



Learning from the past



Contemporary issues and impact on health

Changing Technology









Hand production to steam-engine machines, mainly textile (Factory system) Steel, chemical, petroleum, automotive mass production (telephone, light bulb, internal combustion engine)

Digital technology (PC, internet, ICT)

1980s-present

Integration of digital technologies in humans and society (robotics, Al, nanotech, IoT, autonomous vehicles)

Present-?

1760s-1830s

1850s-1914

5/49

Contemporary issues and impact on health

- Changing Technology
- Geopolitical Shifts



Contemporary issues and impact on health

Changing Technology

Asit K. Biswas Cecilia Tortajada - Editors

- **Geopolitical Shifts**
- **Climate Change**



Education during COVID-19



- Saw Swee Hock School of Public Health
- Complete closures, (staggered) reopening, & hybrid
- Online and WiFi
- Surveillance with active testing
- Safe management measures: temperature screening, social distancing, face masks/shields
- Disinfection and cleaning protocols
- Limitation of activities

Resource rich versus resource poor!

Stev Swee Hock School of Public Health	
	COVID-19 Science Report: Exit Strategies Appendix – Safe Reopening of Schools NUS Saw Swee Hock School of Public Health As at 5 June 2020

Equity versus Equality



Saw Swee Hock School of Public Health

- Equality: more of an input-driven concept
- Equity: more of an outcome-driven concept

Vaccine programs

- Providing equal access
- Ensuring equitable uptake in safe and responsible manner

However, equity and equality in health goes beyond providing for citizens and residents



Global Health Context



- Contextual differences in strategy implementation:
 - Historical (e.g. SARS, MERS, H1N1, etc.)
 - Social and cultural (e.g. trust, community-spirited)
 - Capacity and capability (testing, tracing, isolation, treatment)
 - Economic (e.g. fiscal measures to protect livelihoods)
 - Political (i.e. long-term outlook vs. short-term impact)

Understanding the context is vital in Public Health Education!

Case-Based Education in Public Health



Saw Swee Hock School of Public Health

 Public health policies about design, advocacy and implementation – education must go beyond theories



Suggested Citation: Lewis RF, Yap CH J (2019) Case Study: Sugar-Sweetened Beverages Tax in Thailand. Saw Swee Hock School of Public Health. National University of Singapore. Suggested Citation: Lewis RF, Yap CH J (2019) Case Study: Heated Tobacco Products – IQOS in Japan. Saw Swee Hock School of Public Health. National University of Singapore Suggested Citation: Lewis RF, Yap CH J (2019) Case Study: Tobacco Plain Packaging in Australia, Saw Swee Hock School of Public Health. National University of Singapore

Global Classroom Education



- Collaboration across multiple countries and institutions
- Leverage on video conferencing technology to connect participants from different sites
- Opportunity to learn what each country is doing around a public health topic (e.g. sugar or tobacco control)



Global Health Capacity Building: Some Realities

- **Overseas scholarships for outstanding candidates**
 - Deep knowledge transfer
 - Culminates in formal, accredited certification
 - Usually benefits small number of candidates
 - Problem of brain drain, high rates of re-settlement post-tenure
- Local short- or Executive courses
 - Usually benefits larger number of participants, cost-efficient design
 - Little risk of brain drain
 - Topical or disciplinary focus tends to be res Need to move bey
 - No formal accreditation or cerm.
 - Courses attended typically capr University applications

opics

learning and accreditation

Fundamentals of Public Health



Saw Swee Hock School of Public Health

- 1. Evidence-based public policies
- 2. Focused on **Prevention**, and of **Systems Thinking**
- 3. Focused on "DIME" and "SAFE"
 - **DIME** = Design, Implementation, Monitoring, Evaluation
 - **SAFE** = Sustainable, Adequate, Fair, Efficient
- 4. Cross-disciplinary, systems-level thinking, outcomes driven

Evidence generation and		Modeling and impact		Monitoring and	
synthesis (data collection,		analysis of disease		evaluation (including	
meta-analyses,		burden or interventional		economic) of policies,	
systematic reviews)		programmes		and programmes	
	Health communication, promotion and media engagement		Health systems evaluation and healthcare priority setting		
For Discussion



- Global Public Health education always faced with inequality and implementation barriers, how to reduce inequity?
- Focus on DIME and SAFE means cross-sectoral leaders & policy makers need training in Implementation Science
- Moving to a new model of Public Health Education, focusing on academic-governmental collaborations and casebased learning

Turning Discovery into Healthier Communities



Saw Swee Hock School of Public Health

Thank you!

ephtyy@nus.edu.sg

