Using social media in promoting quality improvement program

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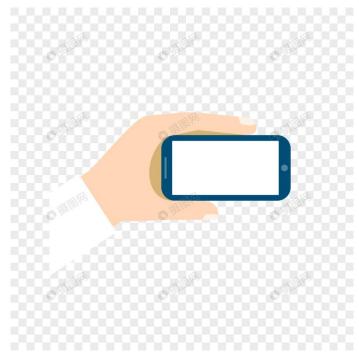
National Taiwan University Hospital, Taipei, Taiwan

Sep. 18, 2019

I declared no conflict of interest.

The clips demonstrated today were sponsored by National Taiwan University Hospital (NTUH).

http://0media.tw/p/ergame/



《報導者》(The Reporter)與零傳媒(Omedia)共同製作非營利網路媒體《報導者》授權轉載 http://Omedia.tw/p/ergame/

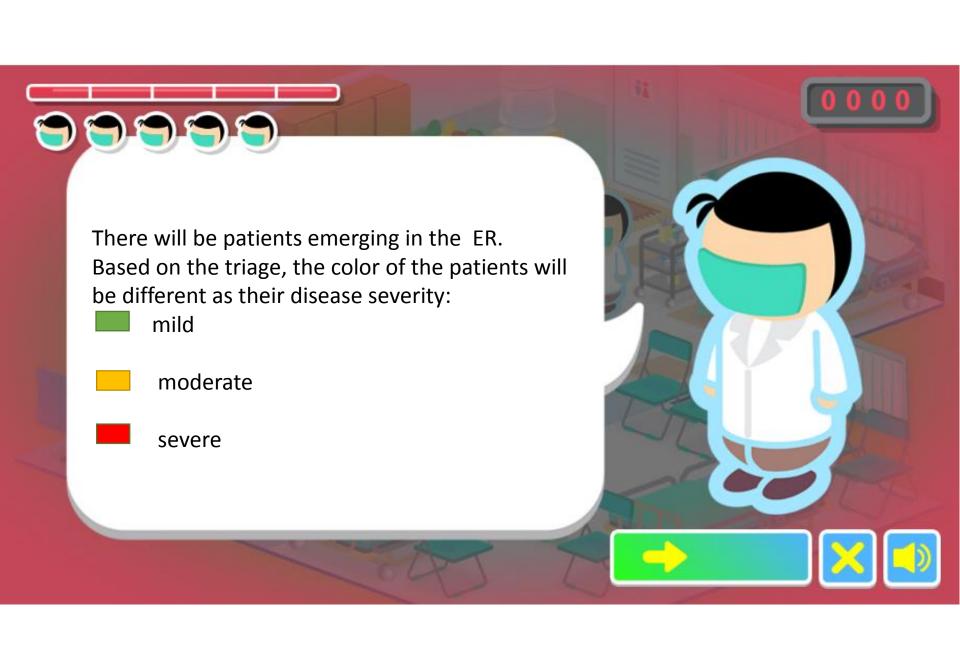


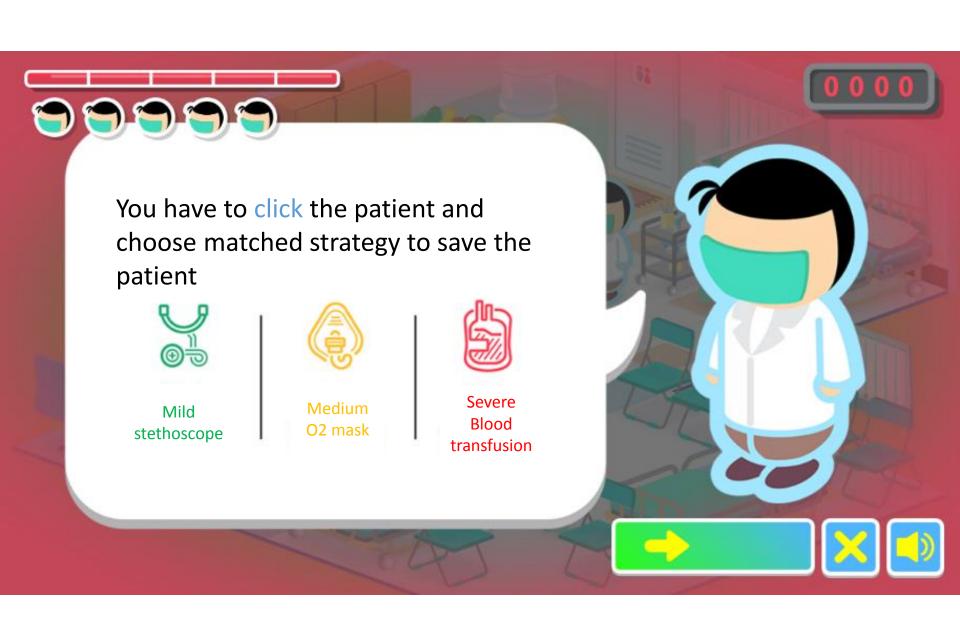
42 %

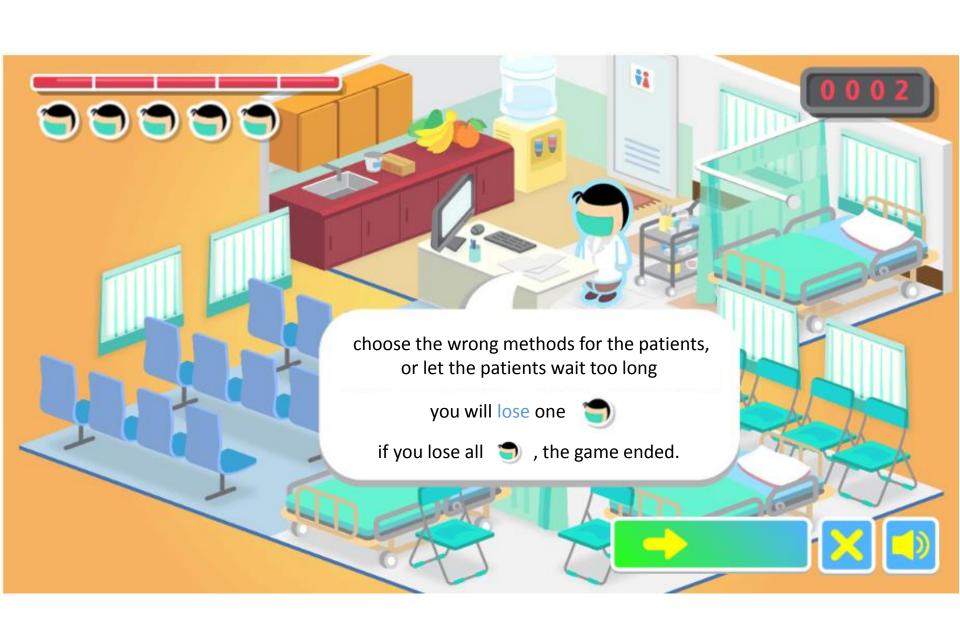
The background of the game is based on a medical center in Taiwan. Facing the clouded emergency room, you are the chosen one to save the ER.

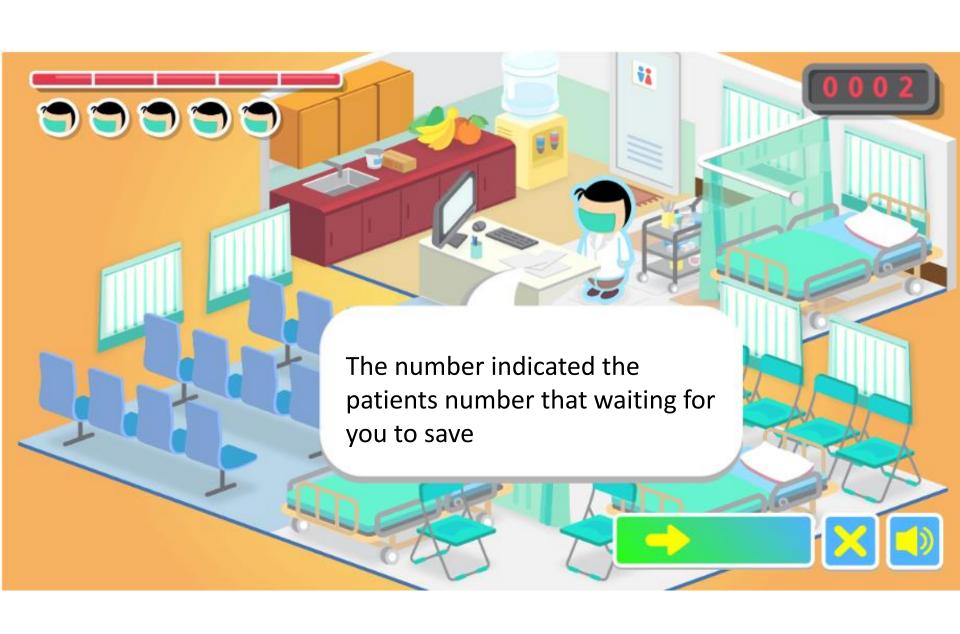
Are you ready?

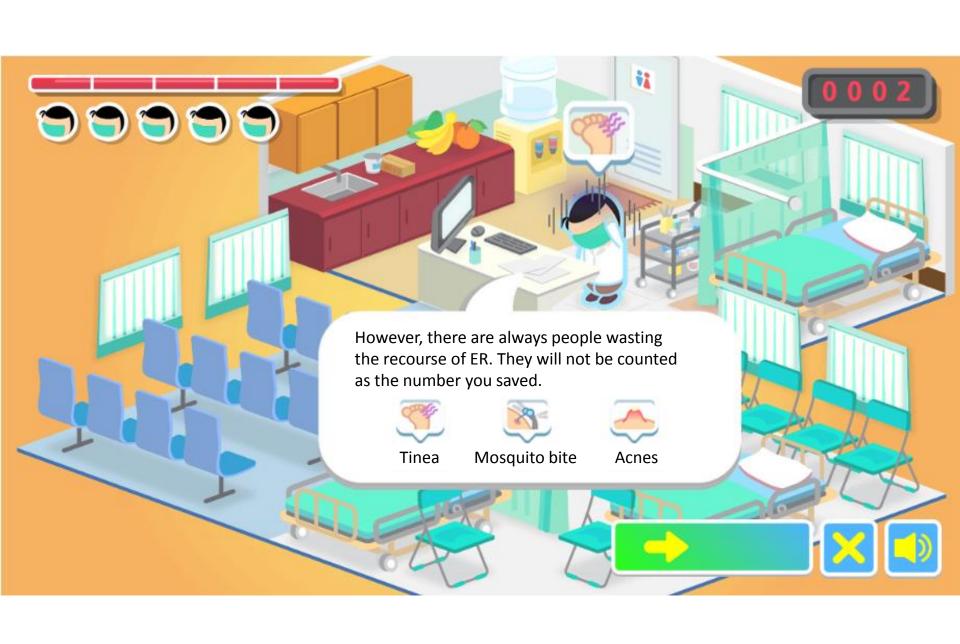


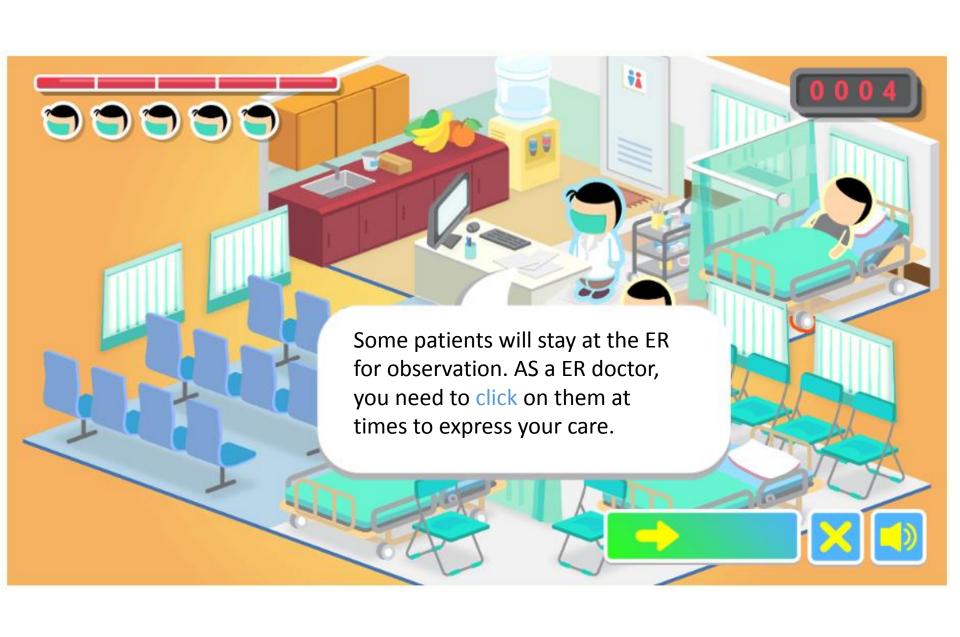






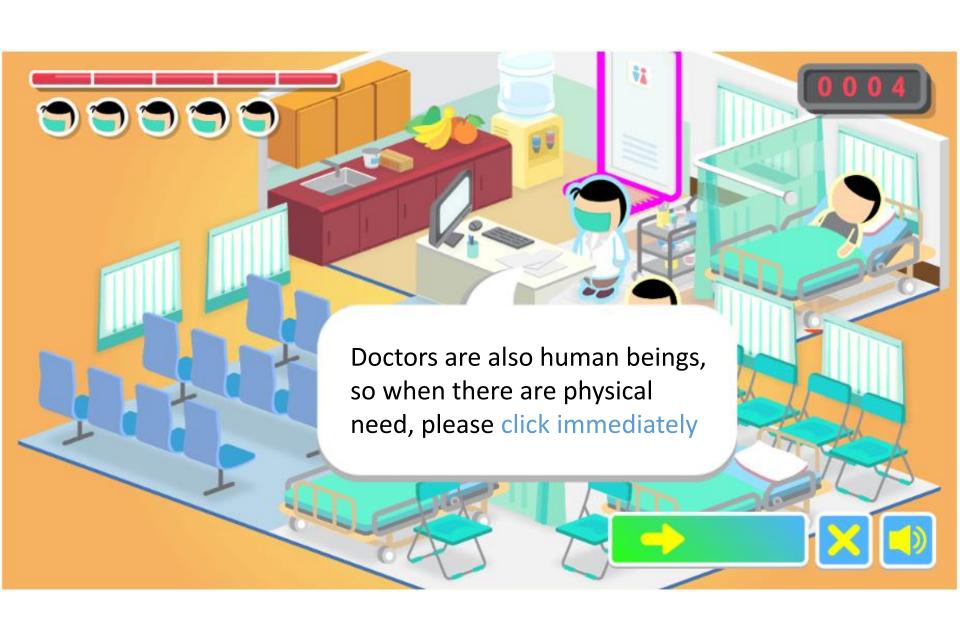


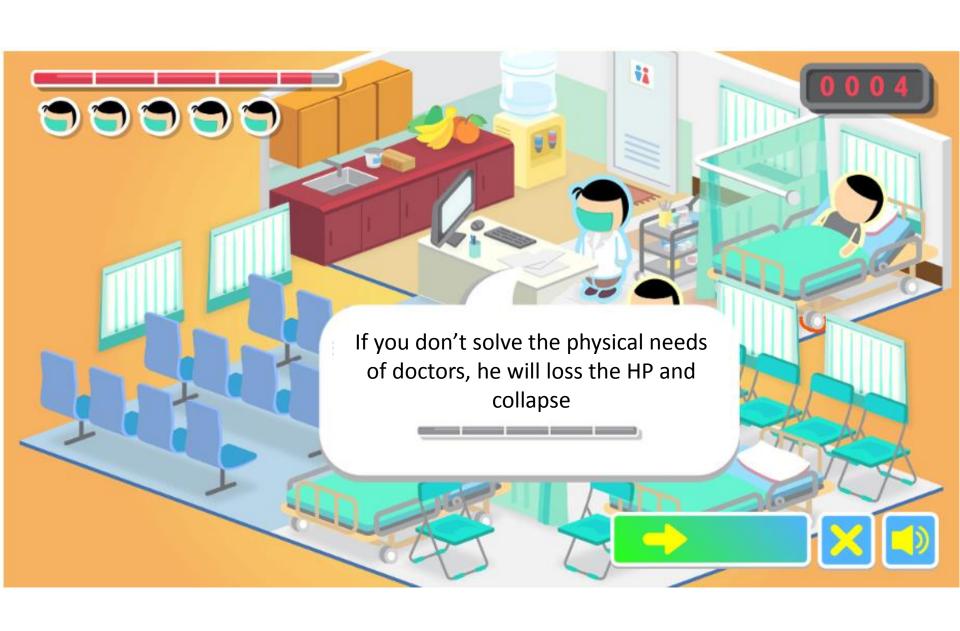














Using social media in promoting quality improvement program

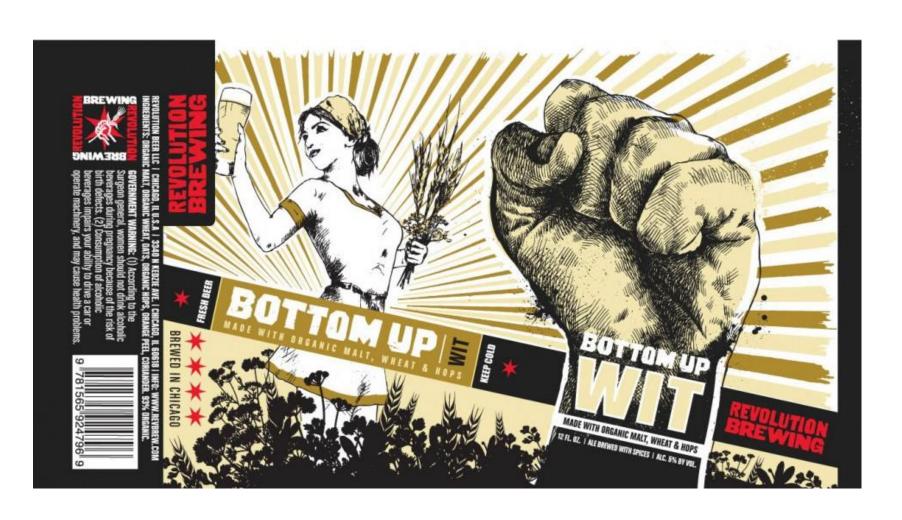
Dr. Sung-Ching Pan

Department of Internal Medicine, Section of Infectious Disease

National Taiwan University Hospital, Taipei, Taiwan

Sep. 18, 2019

大凡物不得其平則鳴















7人小病要往会診验,部分大夥院会診常觉觉一床難求。 超至咨判的



Why is hand hygiene is important?

Health care-associated infections

10%

1 in 10 patients get an infection while receiving care.

Surgical site infections

50%

More than 50% of surgical site infections can be antibiotic-resistant

Impact of infection prevention and control

30%

Effective infection prevention and control reduces health care-associated infections by at least 30%.

How did we promote hand hygiene?



System change



Reminders in the workplace



Training and education



Institutional safety climate



Evaluation and feedback









Reminders in the workplace

4. Reminders in the Workplace						
Question	Answer	Score	WHO improvement tools			
4.1 Are the following posters (or locally produce	→ Guide to Implementation II.4					
4.1a Poster explaining the indications for hand hygiene	Not displayed	0	Your 5 Moments for Hand Hygiene (Poster)			
	Displayed in some wards/treatment areas	15				
Choose one answer	Displayed in most wards/treatment areas	20				
	Displayed in all wards/treatment areas	25				
4.1b Poster explaining the correct use of handrub	Not displayed	0	→ How to Handrub (Poster)			
	Displayed in some wards/treatment areas	5				
Choose one answer	Displayed in most wards/treatment areas	10				
	Displayed in all wards/treatment areas	15				
4.1c Poster explaining correct hand- washing technique	Not displayed	0	→ How to Handwash (Poster)			
	Displayed in some wards/treatment areas	5	1			
Choose one answer	Displayed in most wards/treatment areas	7.5	1			
	Displayed at every sink in all wards/treatment areas	10	1			
4.2 How frequently does a systematic audit of all posters for evidence of damage occur, with replacement as required?	Never	0	→ Guide to Implementation II.4			
	At least annually	10				
Choose one answer	Every 2-3 months	15				
4.3 Is hand hygiene promotion undertaken by displaying and regularly updating posters other than those mentioned above?	No	0	→ Guide to Implementation II.4			
	Yes	10				
4.4	No	0	→ Hand Hygiene: When and How Leaflet			
Are hand hygiene information leaflets	Yes	10	→ Guide to Implementation II.4			

How did we promote hand hygiene?



System change



Reminders in the workplace



Training and education



Institutional safety climate

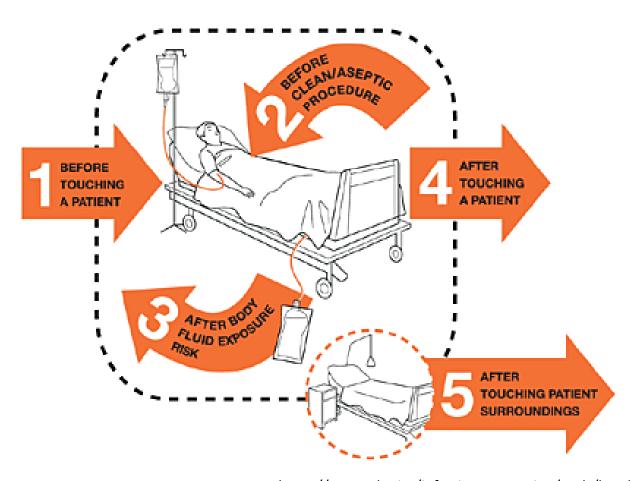


Evaluation and feedback





What's the main idea?



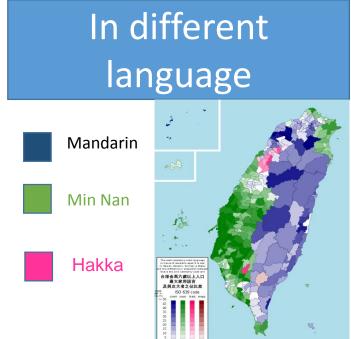
Who is the target audience (TA):

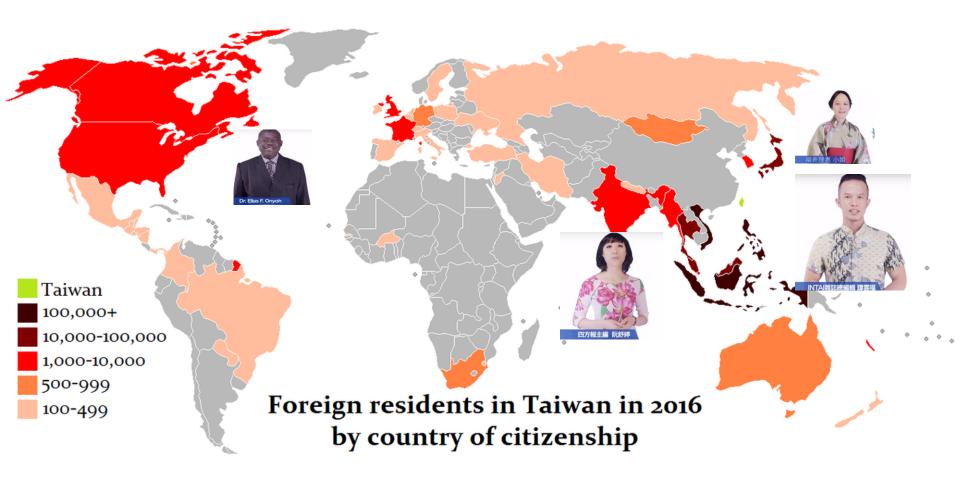
 Healthcare workers in National Taiwan University Hospital (NTUH)

Patients

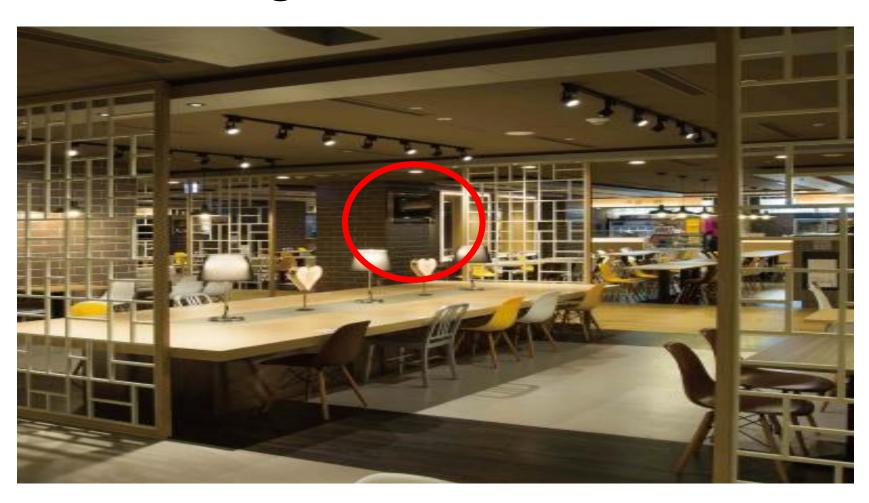
Family

Care givers in different language

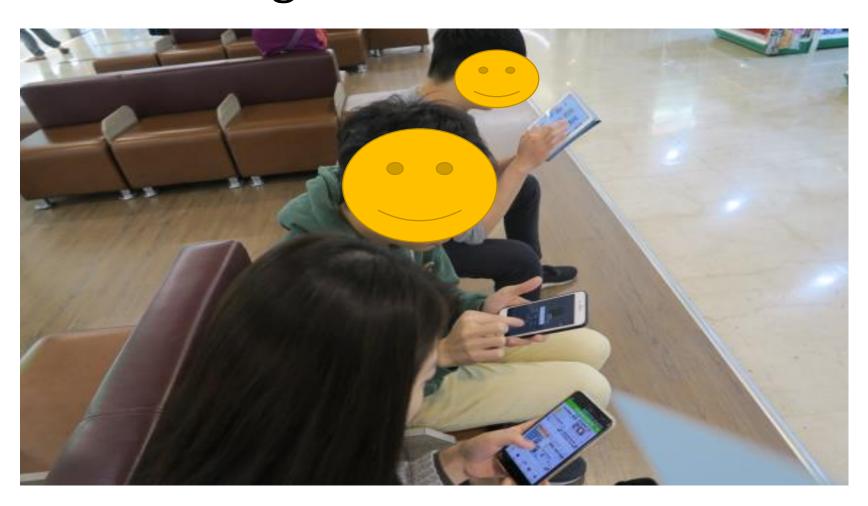




Where can our audience receive the message?



Where can our audience receive the message?



Where can they receive the message?



Social media

3.5 billion people are using social media

3.6 hours people used social media daily

90%
interactions happen within 3%
influencers

Key opinion leaders (KOL)

Mega influencer

Micro influencer

Nano influencer

KOL in luxury brand



Micro influencer

Nano influencer

KOL in the hospitals

66 thousands followers in 2019

Mega influencer

酷勒客-Clerk的路障 生活 @roadblockaclerk

Micro influencer

Nano influencer



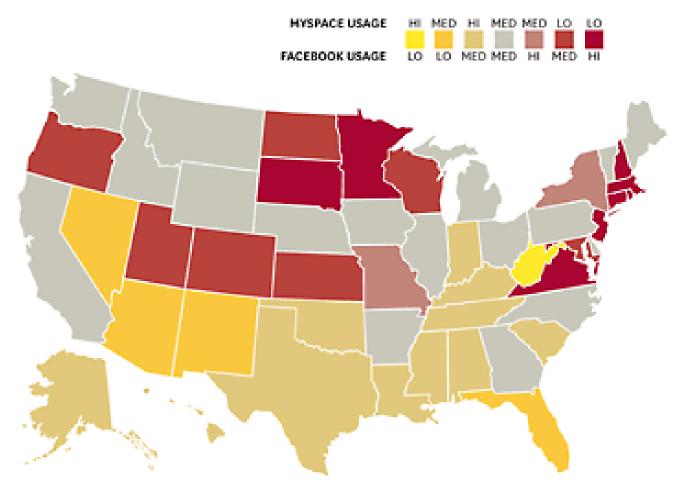


WORLD MAP OF SOCIAL NETWORKS

July 2014



Which social media?



https://hbr.org/2010/03/a-social-media-map-for-marketers

Facebook Users globally

 1.2_{billion} registered users

350 million

Daily uploaded photos

4.7 billion
Daily shared items

Facebook users in Asia

[20	113年3	ΒFs	ceho	k利	用者数】
120	//o 4- 0	лг	1CEDU	ויידי אכ	m n w. i

				前月比增加率	対人口割合	popula	ti∩n
国名	users	前月ユーザ数	前月比增加数	(%)	(%)	population	
インド	63,868,420	62,310,720	1,557,700	2.5	5.1	1,258,400,000]
インドネシア	48,134,060	47,862,420	271.640	0.6	19.7	244,800,000]
フィリビン	30,579,620	29,995,300	584,320		31.7	96,500,000] _
タイ	18,668,740	18,330,880	337,860	1.8	20.1		
日本	13,531,220	13,427,340	103,880	0.8	10.7	126,400,000	
マレーシア	13,369,980	13,188,100	181,880	1.4	45.6	29,300,000	<u>l</u> I
台湾	13,205,960	12,955,500	250,460	1.9	56.7	23,290,000	
ベトナム	13,187,540	11,539,200	1,648,340	14.3	14.7	99,700,000	-
パキスタン	8,624,460	8,265,100	359,360	4.3	4.8	180,000,	
大韓民国(韓国)	8,268,960	8,121,340	147,620	1.8	17.0	48,600,000	
香港特別行政区(香港)	3,854,360	3,728,620	125,740	3.4	53.7	7,173,000	
バングラデシュ	3,671,440	3,307,280	364,160	11.0	2.4	152,400,000	
シンガポール	2,715,560	2,679,020	36,540	1.4	51.2	5,300,000	1 -
ネバール	2,064,340	1,917,560	146,780	7.7	6.7	31,000,000	1
スリランカ	1,573,260	1,541,420	31,840	2.1	7.4	21,200,000	1
カンボジア	767,900	745,180	22,720	3.0	5.3	14,500,000	1
モンゴル国	594,300	555,040	39,260	7.1	21.2	2,800,000	1
中華人民共和国(中国)	577,780	574,500	3,280	0.6	0.0	1,353,600,000	1
アフガニスタン	463,200	435,660	27,540	6.3	1.4	33,400,000	1
ラオス	281,120	266,520	14,600	5.5	4.4	6,400,000	1
マカオ特別行政区(マカオ)	245,740	241,600	4,140	1.7	43.7	562,900	1
プルネイ	215,300	218,620	-3,320	-1.5	53.8	400,000]
モルディブ	136,040	139,720	-3,680	-2.6	45.3	300,000]
プータン	85,180	82,360	2,820	3.4	10.6	800,000]

user No. 1: India

Highest ratio: Taiwan

How to calculate your effect:



Engagement

Likes + Comments + Shares



Engagement Rate

People who liked, commented, shared, or clicked on your post / people who saw your post (post reach)

Example:

100 unique users engaged with a given post and 1000 users saw the post

Engaged users = 100

Engagement rate = 10%

Traditional method



Engagement rate 0.6%

24,000 official website subscribers



Engagement rate 0.9%

9,967 group e-mail sent

Social Media

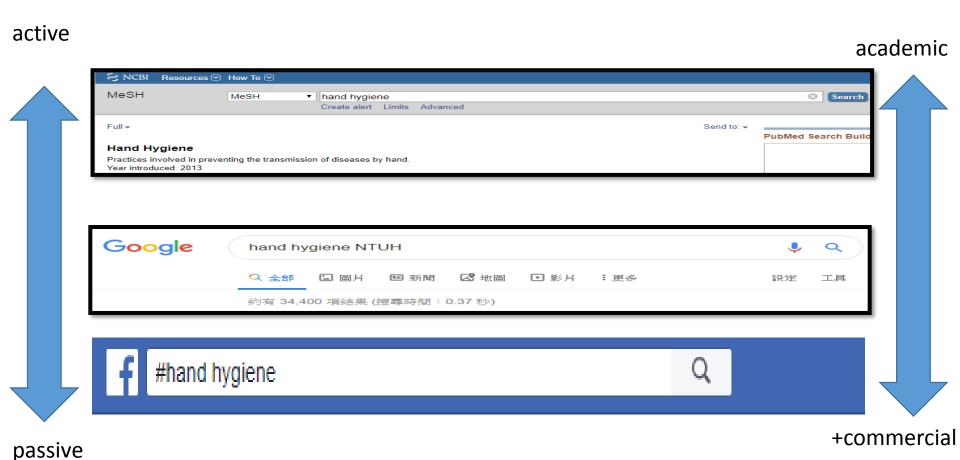


Engagement rate



13,080 followers

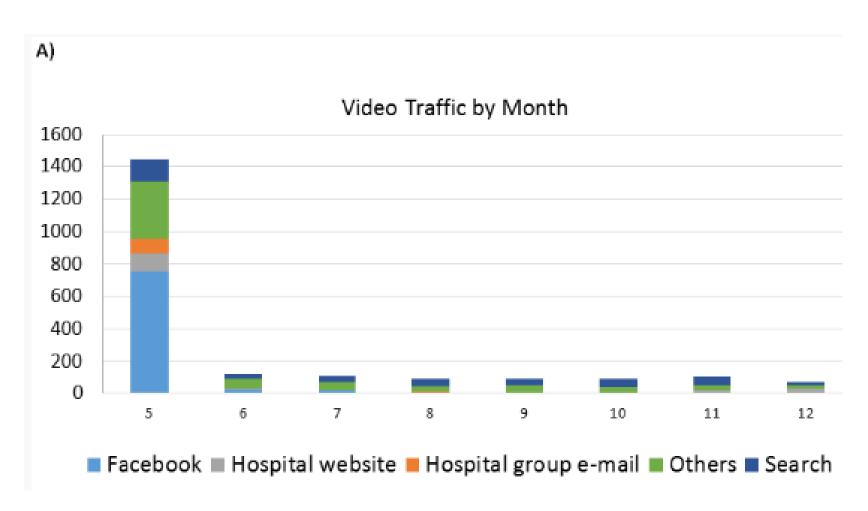
Facebook algorithm: #hashtag



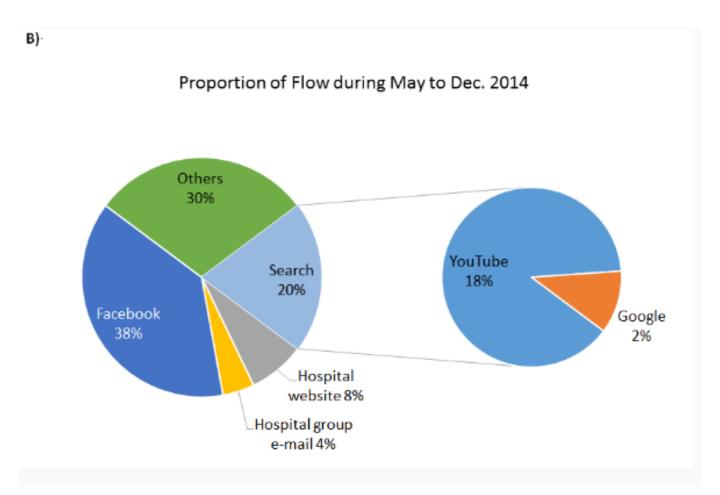
#Search #Highlight



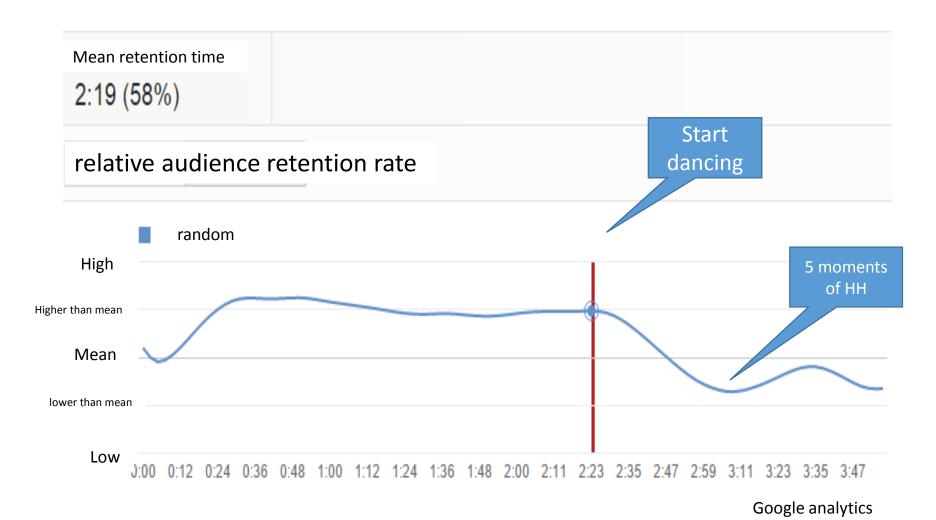
Facebook algorithm: Story bumping



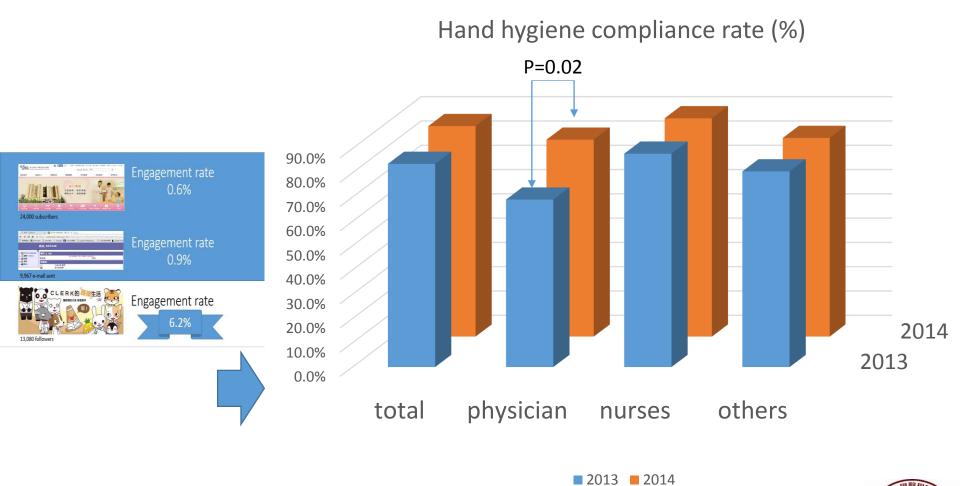
Searchable



Google analytics for YouTube relative audience retention rate



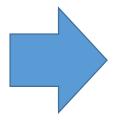
Performance





AIDA model

- Attention
- Interest
- Desire
- Action



Attention/awareness

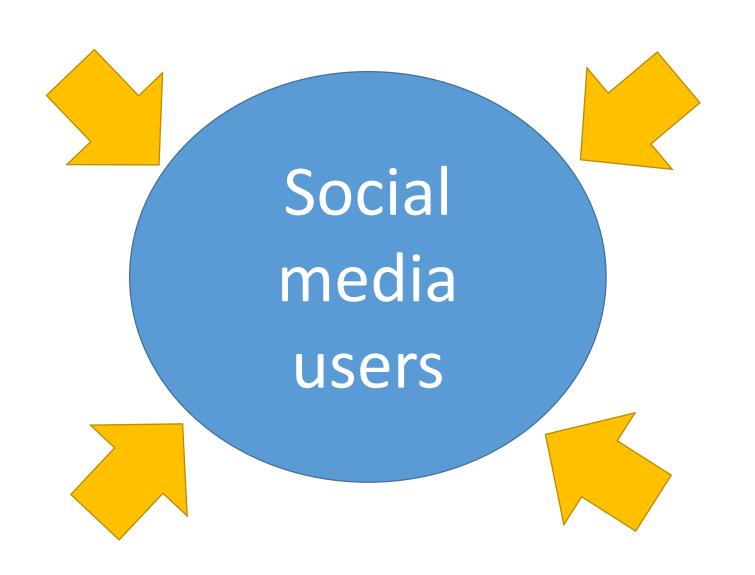
Interest

Search

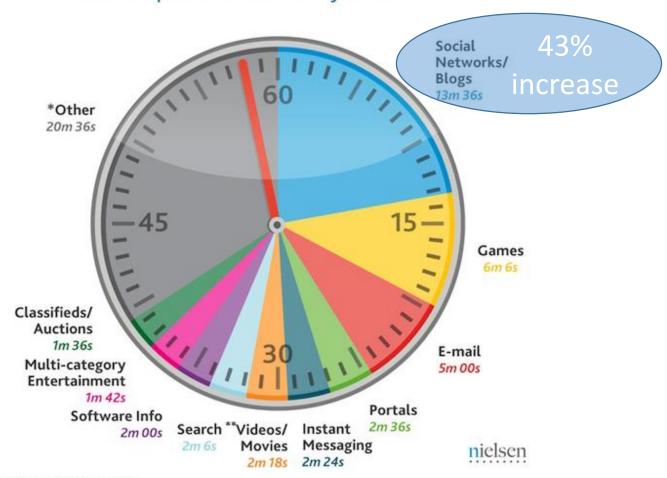
Share

Action

Elias st Elmo Lewis 1908



If all U.S. Internet time were condensed into one hour, how much time would be spent in the most heavily used sectors?



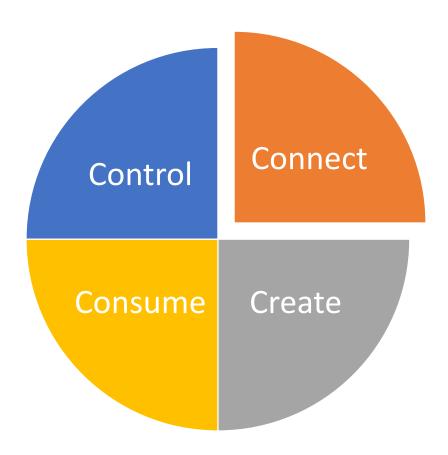
Source: Nielsen NetView. June 2010

^{*}Other refers to 74 remaining online categories visited from PC/laptops

^{**}NetView's Videos/Movies category refers to time spent on video-specific (e.g., YouTube, Bing Videos, Hulu) and movie-related websites (e.g., IMDB, MSN Movies and Netflix) only. It is not a measure of video streaming or inclusive of video streaming on non-video-specific or movie-specific websites (e.g., streamed video on sports or news sites).

Definition:

Web based and mobile tools that allow people to create (consume) content that can be consumed (created) by others and which enables and facilitates connection







- Hide clicks
- Hide all clicks
- Report spam
- Page Unlikes

CASE II



Health care-associated infections

10%

1 in 10 patients get an infection while receiving care.

Surgical site infections

50%

More than 50% of surgical site infections can be antibiotic-resistant.

Impact of infection prevention and control

30%

Effective infection prevention and control reduces health care-associated infections by at least 30%.

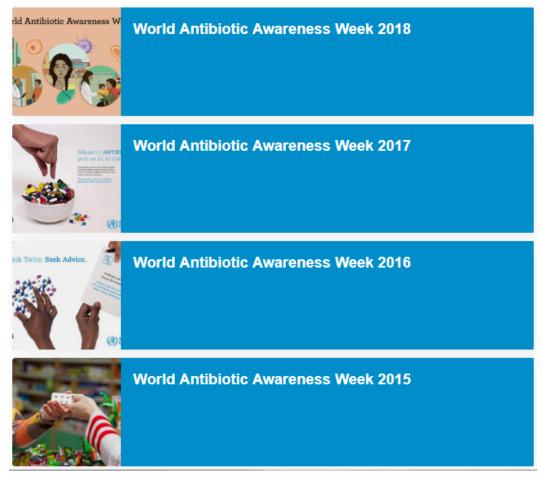
Improve Antibiotic Use to Combat Antibiotic Resistance





Goal: By 2020, reduce inappropriate 50% outpatient antibiotic use by

World antibiotics awareness week



Exhibition: The Magic of Chinese Puppet Theatre



Glove puppet

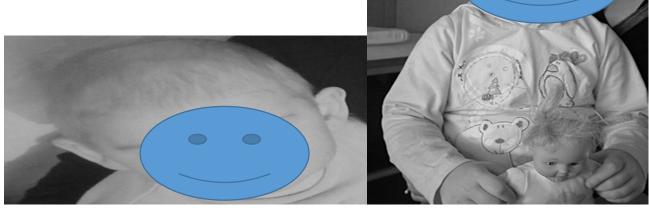


Medical application of Doll/Puppet

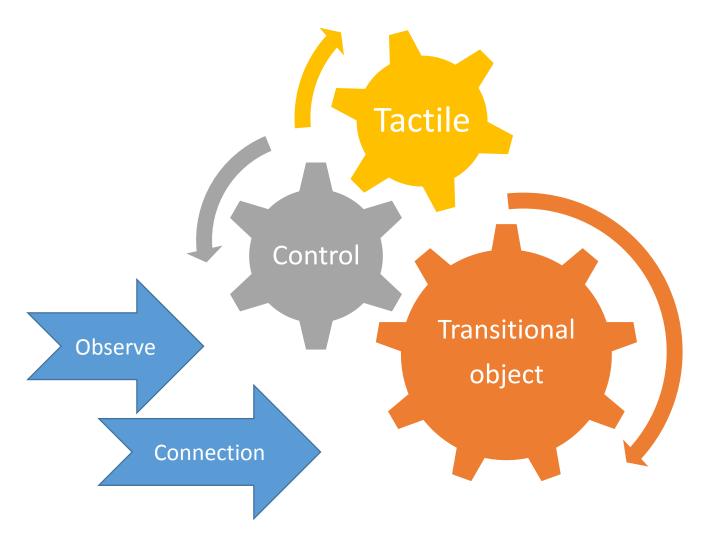
Habitual hair-pulling responsive to doll therapy

Individualized doll therapy with children

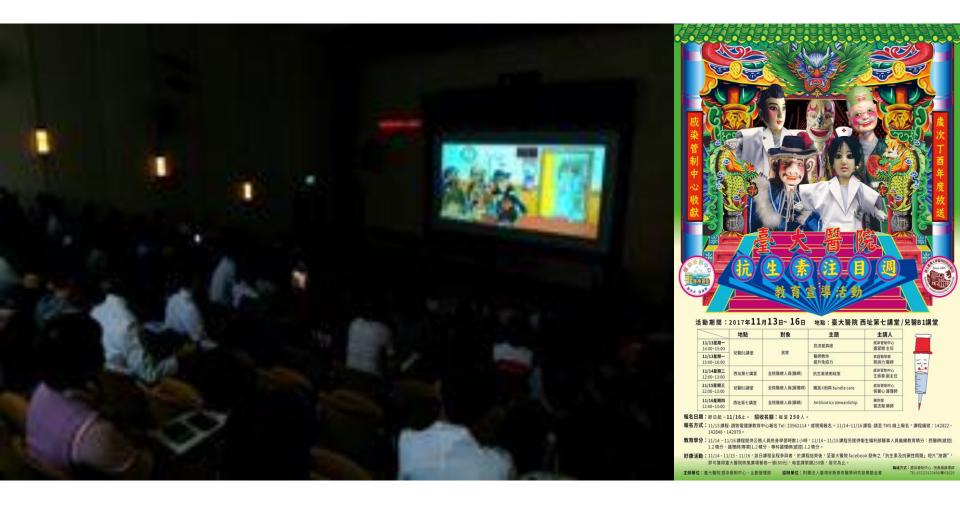
experiencing limb loss.



J Paediatr Child Health. 2009 May;45(5):318-9.
Orthop Nurs. 1996 Nov-Dec;15(6):50-5. Review.



Antibiotics awareness week Nov. 11-14, 2017







lcu醫生陳志金

Page · 49K like this · Blogger

Nov 14, 2017 · ❷ · 註:這是【反串文】 因為實在太多人看不 懂了!所以只好在此聲明! 我是「將錯就錯」,為那些批評 這個牌坊的人,找一個「正向」的解讀,拉回活動的焦點: 「防止抗生素濫用與抗藥性細菌的預防」! 我沒有覺得這牌 坊不好, 也沒有在批評本土文化,...





142 Comments 256 Shares

142 comments

256 shares 2015 20 news release 1 e-news 2017
Antibiotics awareness week
1 influencers
5 TV channels
Google search: 2 page

Crisis management

Honest Honest Honest

Before the Crisis

• Idea stage: information collection (revise + 🚡 🦹)



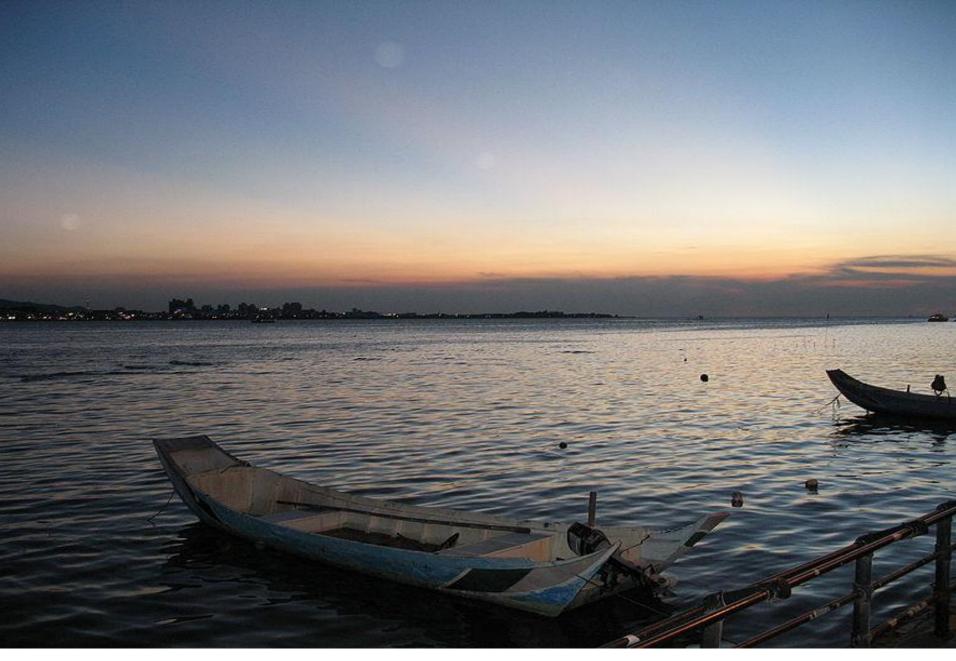
• Design stage: draft, visualize design (revise + continuing)



• Create stage: quality test, premiere, fix problems (revise+ keep



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via Dmcdevit , CC BY-SA 4.0, https://commons.wikimedia.org/w/index.php?curid=3210553





Change your life's destiny

Dream again

Your bottle your design

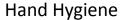


#HandHygiene

#InfectionPrevention

#HealthForAll

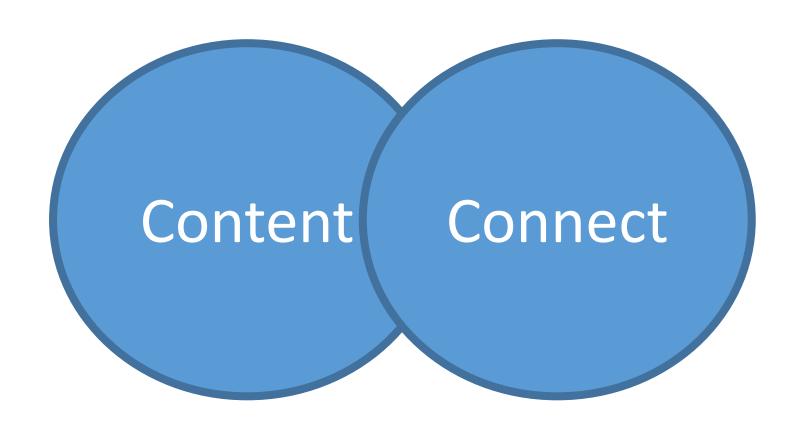






5D
Diagnosis, Drug,
Dose,
De-escalating,
Duration

Save antibiotics to real bacterial infection



Acknowledgement



Q&A

Institutional Safety Climate

HAND HYGIENE PROGRAM IN REAL LIFE:

紅蘿蔔與棍子



Institutional Safety Climate

道之以政,齊之以刑,民免而無恥;道之以德,齊之以禮,有恥且格。

論語為政篇

