Keeping chealth Safe in the time of COVID19

EHRSS CYBER SECURITY AWARENESS SEMINAR 2020-08-12

LESSON LEARN FROM COVID-19

Impact of COVID-19

Global

20M confirmed 740K deaths Contagious

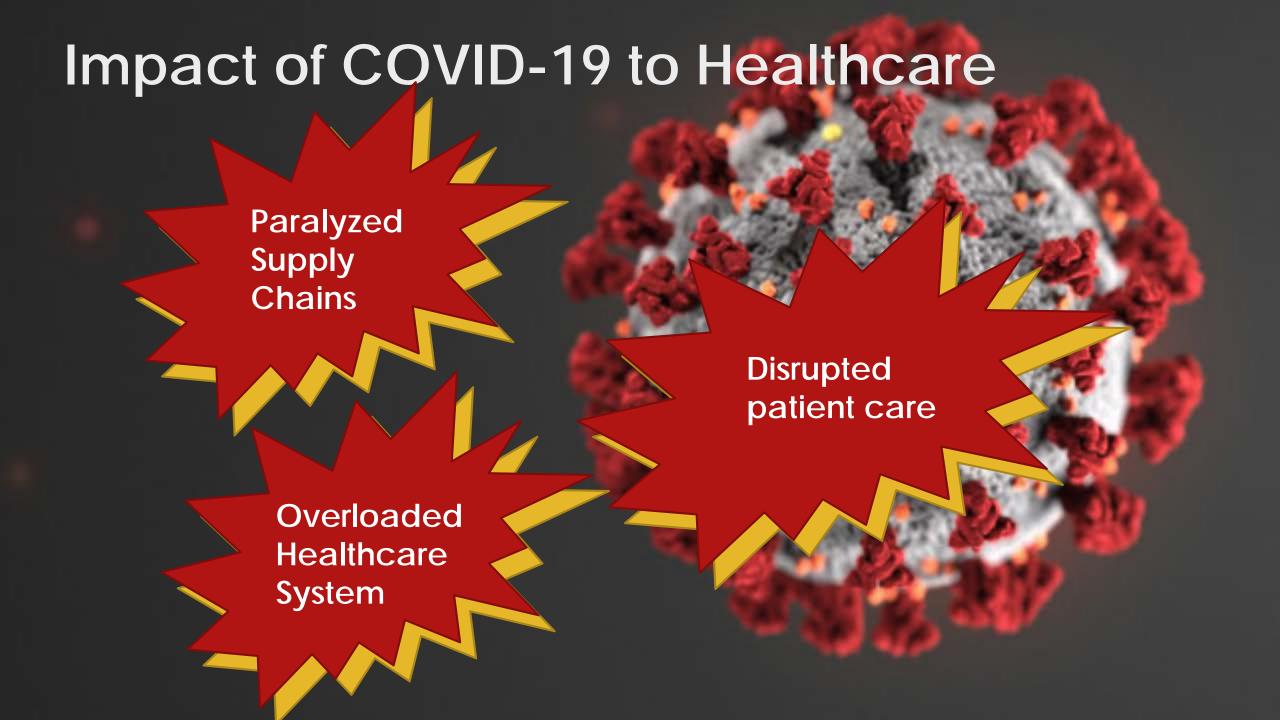
213 countries In 6 months Disruptive

Enduring

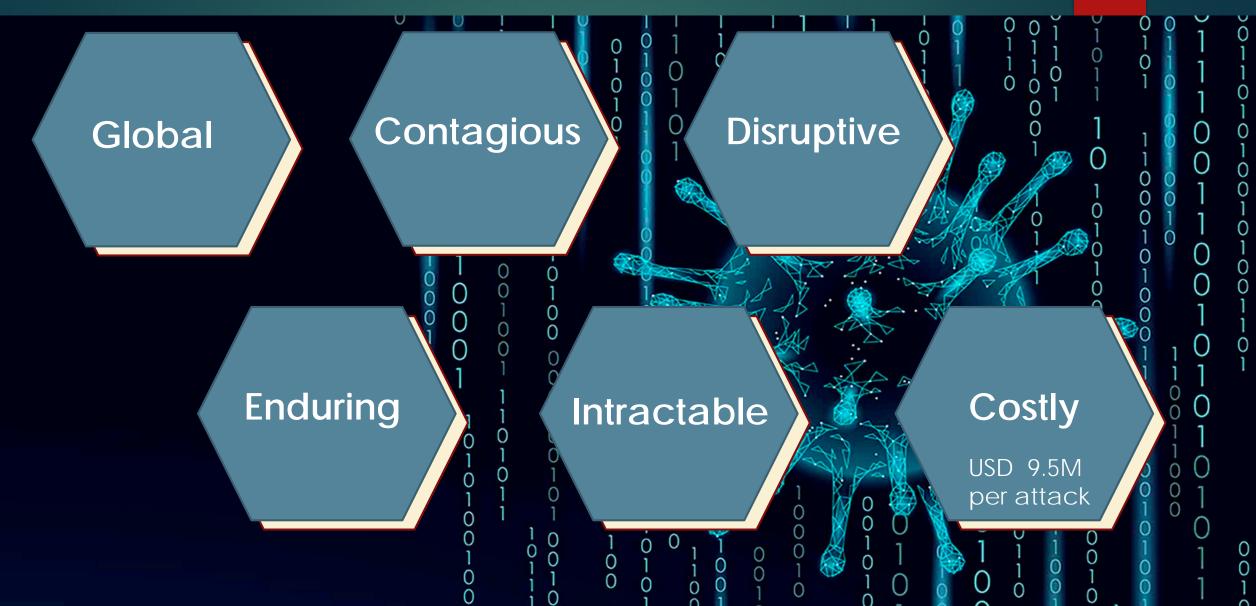
Intractable

Costly

USD 15.8 Trillion



Cyber Threats are equality devastating



Impact of Cyber Attacks to business



Opportunistic threats during time of COVID19

Cyber attack increased by 200+ % targeting even Healthcare sectors

Coronas virus malware / scams increased by 400% world wide

New risk exposure due to Remote Access, Work-From-Home arrangement

Covid-19 scams have become more targeted, sophisticated as pandemic rages

- The study singled out more than 125,000 malicious sites globally out of more than 600,000 domains that on, report says
- Coronavirus phishing scams have become more targeted and potent have been tracked and analysed

Phishing Alert: COVID-19: New confirmed cases in your city

Report Phishing Email to ITSC Guide to Handle Phishing Email

Here is how the phishing email looks.

From: COVID-19: New confirmed cases in your city

Sent: 17 Mar 2019 (Tue) 9:47AM

Subject: COVID-19: New confirmed cases in your city

We have provided an updated Global News document.

March 17, 2020

COVID-19 Update



COVID-19 Alert: New cases confirmed in your city... Read on

新型口罩騙案?過百人中招!解構網 苦主:防不勝防



LESSON LEARN from COVID-19

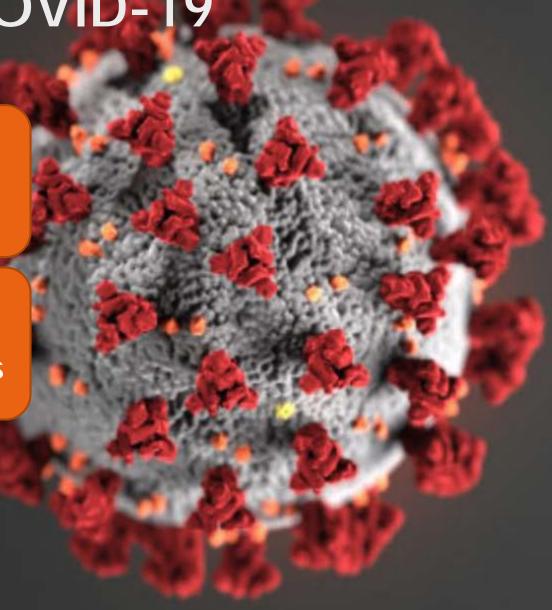
It can strike at anytime

Be vigilant, be prepared

Adapt fast sweeping change

Individual behavior matters

Hopefully, the worst is over.....



Same Lesson applies to Cyber threats

It can strike at anytime

Be vigilant, be prepared

Adapt fast sweeping change

Individual behavior matters

Cyber threats / computer viruses evolves constantly – the worst has yet to come!

Roles of EHRSS during Pandemic

eHRSS Participation

Data as at: 10-Aug-2020

1,334,463

Patient Registration

47,232

Healthcare Professionals

1,986

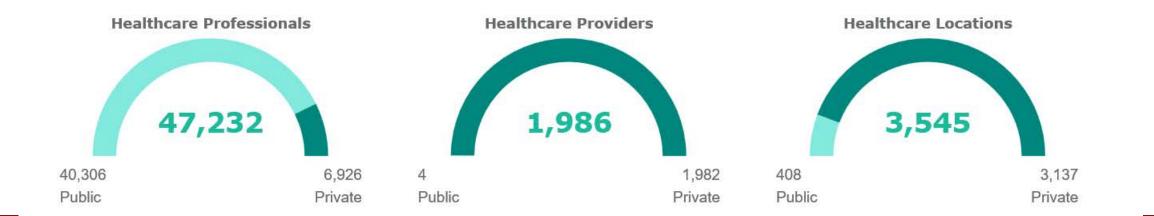
Healthcare Providers

3,545

Healthcare Locations







Roles of EHRSS during Pandemic



"Patients participating in our Community Interim Medication Refill Scheme (CIMRS) pilot are those with chronic illnesses who require long term medication. The outbreak of the Coronavirus Disease 2019 (COVID-19) has unexpectedly disrupted their scheduled follow-up and medication refill at the Hospital Authority (HA).

With the objective to bridge this service gap leveraging community resources and inspired by the use of the Electronic Health Record Sharing System (eHRSS), we and our collaborators sparked off this pilot scheme with the aim to contribute to the continuity of care for patients at the community level, as well as to help release precious resources in the public healthcare sector at this critical time to fight against the pandemic."

【和牛b的成長日記】BB成長日記|疫症下的QE新生嬰兒黃膽

| 私家醫院跟進服務公院收費





評價正面 或擴服務範圍

他指,計劃可加快病人接受治療時間,病人可在約十四日內完成模具,

受放射治療。計劃獲得病人正面回應,並會因疫情情況,視乎未來會否推出

有病人家屬稱受惠於計劃,病人能夠以同等價錢獲得服 務,毋須延遲治療。李小姐表示,母親患有乳癌,癌細胞

排與私家醫院醫生見面及做模具,四月中接受放

助,更只需支付在醫管局治療的同等價

及乳癌的公私營合作計劃。

格,對計劃持正面態度。

Oh 爸媽 - ohpama.com

3月11日 ⋅ 🕝

合資格參加計劃嘅新生兒,可享呢個低收費!

下載《Oh爸媽》App,瀏覽更多家庭、育兒資訊 http://bit.ly/ 2BtlKiQ

爸媽必睇《Ohpama》Instagram,追蹤我們@http://bit.ly/ igohpama



OHPAMA.COM

【和牛b的成長日記】BB成長日記 | 疫症下的QE新生嬰兒黃 膽 | 私家醫院跟進服務公院收費

☆ 讚好



↔ 分享



19 次分享

鄭志堅又诱霖,內部曾商討將大腿癌或 到 鄉館較規範化手術亦輔介亞私院,惟 涉及手術質素、病人跟進等複雜考慮。

癌出現腦轉移致自理能力變差,不能說完 疫情下更要等多1、2周,能轉介至私 整句子。按公院排期本在4月15日才能見 「沒病人不願意」。惟因是試行計劃,故

服務中央委員會主席鄭志 若病情穩定且有迫切需要,加上14日無外 次私院醫生,候診流程遠比公院快和創

且只挑资擦释短的病 人。但他笑言疫情下 因「不能不做」・結

·· 233人獲放射紓緩%



港怡、養和、漫會(圖) 及聖德肋撒等4個 指公私營協作計劃擴大 [及加入放射治療服務;左 E小姐。 (區慧盈攝



集中抗疫暫停非緊急服性)計劃,出現骨或腦轉移癌症的病人,介,母親恐要長期受苦,「過程中見了 3.終原有的協作造影計劃 遊史,可到港怡、養和、浸會或聖德肋撤 適,但只需付公院價錢。」 【格癌症病人·截至周日 等4間私院進行治療。

位病人接受放射診斷造影檢查服務。

公院系統原

日至24日間完成 不會設受惠名額上 她指,因放射治 病人,都會盡量 療需時做模具和 轉介。 (10 10 05 05 10) 設計方案・若無輔



公私營協作 分流癌症患者

至其他癌症病人・要 视平疫情發展。®

Public Private Partnership Programmes introduced during COVID-19



District Health Center

【專訪】葵青康健中心多元「外展」服務 社區抗疫減 輕醫院負擔

2020-05-17 08:37



周奕希指·新冠肺炎疫情在地區擴散·康健中心服務隨即多元化。 本港昨日沒有新冠肺炎確診個案。疫情持續多月·市民對健康意識迅即提高·亦帶動地區康健中心轉型。主理裝青康健中心的裝青安全社區及健康城市協會主席周奕希接受《星島日報》專訪時指·該中心以往主要關注長者的健康情況·惟在年初爆發疫症後·中心將服務範疇聚焦區內街坊·包括派發口罩·以及安排職員拍片進行網上健康講座等·讓居民在家中亦能掌握抗疫資訊·而未來將增聘人手讓服務更趨多元化·翼減低醫院內醫護的負擔及壓力。

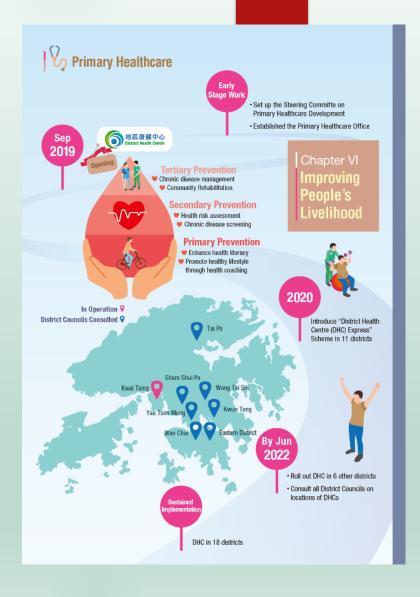
港府近年大力推動基層醫療·全港首問地區康健中心的「葵青康健中心」· 由葵青安全社區及健康城市協會中標營運·並於去年十月起投入服務·該會 主席周爽希指·營運初期主要服務區內長者·預防慢性疾病。 周奕希: 教導居民防疫知識

周奕希稱·該中心在新冠肺炎爆發後·年初時曾一度需要關閉·重啟後職員 隨即思考能夠為居民提供的服務·最後決定「走出去」支援社區·並開展了 一連串多元化服務。

他憶述,當時因應區內部分街坊情緒緊張,經常留在家中,不會與人交談。 個別長者更不欲外出購物,疑似有抑鬱症狀,中心收到不少求助電話,因此 開展外展服務,除在區內擺站外,更會前往有肺炎確診個案的大廈支援,除 派發口罩外,亦會教導居民防疫知識。

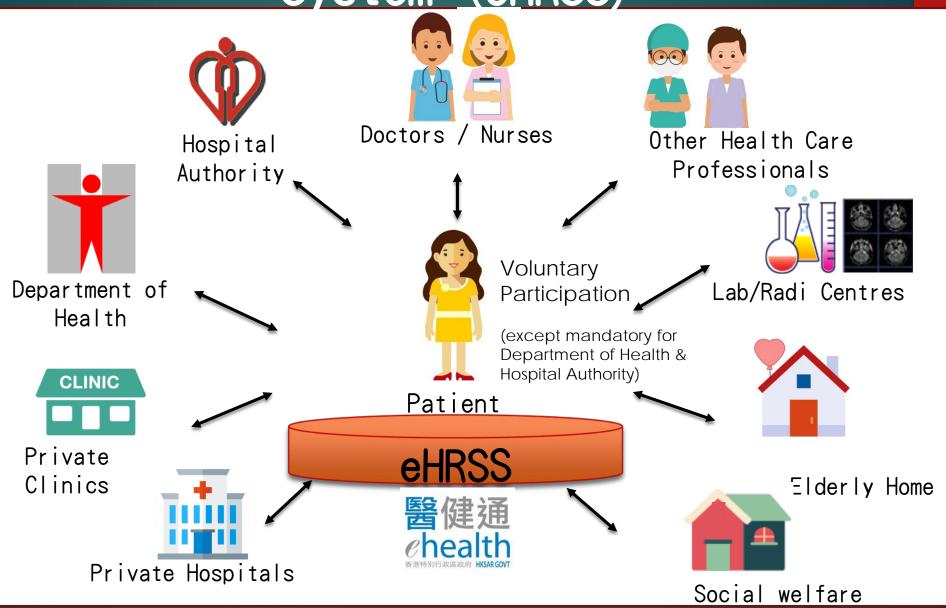


康健中心在區內設攤檔:為居民提供抗疫資訊。



地區為本,公私合營,医社合作

Electronic Health Records Sharing System (eHRSS)



Keeping EHRSS Safe in the time of COVID-19

Protecting Security and Privacy of Personal Data in eHRSS



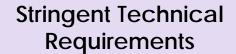
Personal Data (Privacy)
Ordinance (Cap 486) (PDPO)



Electronic Health Record Sharing System Ordinance (Cap 625) (eHRSSO)



Code of Practice for Using Electronic Health Record for Healthcare (COP)





Role-based Access Control



- Obtain consent from HCR
- Need-to-know" & "Patient-Under-Care"



Sharing Restriction

Records







2. HCP Voluntary



4. Access patient records on Need-to-know & Patient-under-care basis

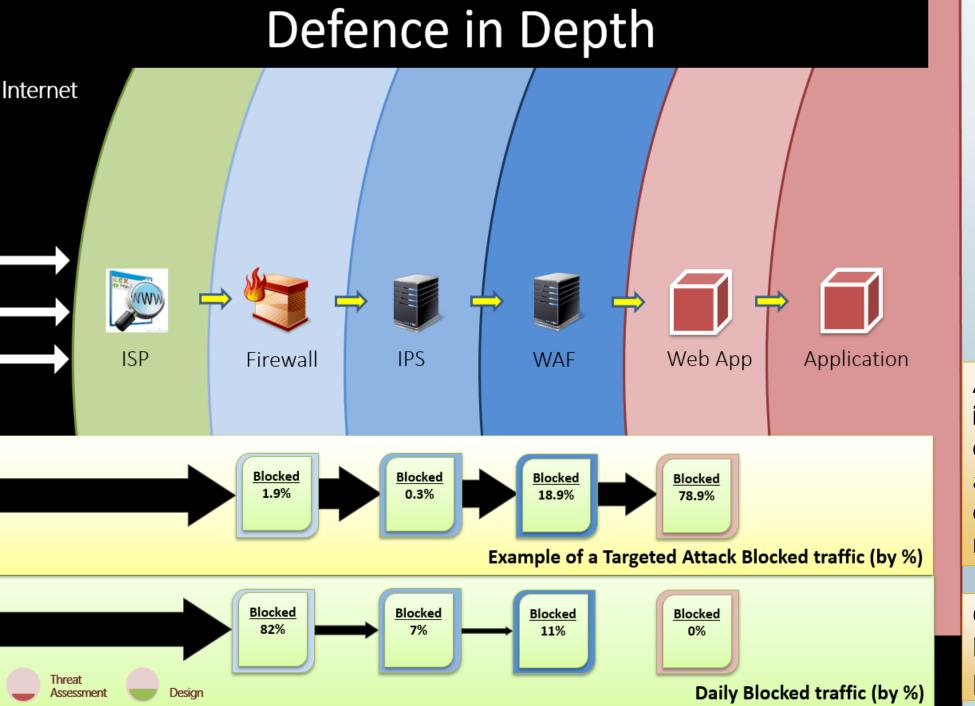
22/11/2017





5. 2FA Logon + Role Based Access Control Health care professional must have valid registration with respective boards or councils







Advanced attacks / insider attacks can only be stopped by application security design and continuous monitoring practices

Ordinary attacks can be blocked by perimeter defenses

Enhance 2FA Using Mobile Phone



Electronic Health Record Sharing System

電子健康紀錄互通系統

User Name 用戶名稱



Important Reminder

- 1. All patient information is strictly confidential
- Only access patient data for providing healthcare purpose
- 3. All access is logged
- 4. Do not share your account / token
- 5. Please change your password regularly

Girman needi

Personal Information Collection Statement

Privacy Policy Statement HERRINGER PRIVATE

HEALTHCARE RECIPIEN

(EQUIDADE PROFESSIONA

重要提示

- 1. 所有病人的資料都必須嚴格保密
- 2. 只可在提供警護服務及有需要時取覽病人的資料
- 3. 每次的取覽均會被記錄
- 4. 切勿與其他人士共用你的帳戶/保安編碼器
- 5. 請定期更改密碼

收集個人資料聲明

私隱政策聲明

OTP has sent to your mobile phone number: 9837 ****. Please input OTP below

One Time Password: TSQA - Submit

Send OTP Again (30s)

Enhance Sharing Consent Management via eHealth Mobile App









Stay Safe when Work From Home

Secure privacy with VPN

Back up your data & test your backup Mindful of where you keep sensitive / work documents

Use strong password + 2FA, Don't share password

Beware of unsecure WiFi / network

Be vigilant when using video conference

Don't share sensitive information on social media

Use Antivirus software

Avoid software of unknown origin

Beware of phishing / Covid19 - scams

Keep your devices / PC updated

Stay Safe with Healthcare IoT



- Evaluate security risk before use
- Avoid upload sensitive data to Cloud (eg. patient id)
- Use strong encryption
- Separate network for IoT
- Don't use same password
- Regularly update firmware

Cyber Security Tips for Healthcare Providers



https://www.ehealth.gov.hk/en/healthcare_provider/cyber_security/index.html

CYBER SAFETY CHECKLIST



Use strong passwords



Keep your software updated

INTERPOL



Manage social media profiles



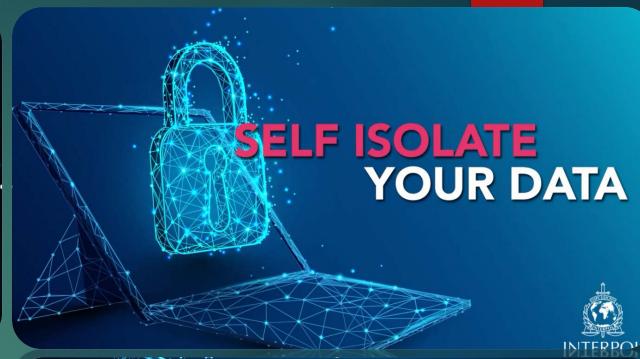
Check privacy and security settings



Avoid opening and delete suspicious emails or attachments

BE VIGILANT . BE SKEPTICAL . BE SAFE















THANK YOU

Stay Safe,
Stay Healthy,
Fight COVID-19 together,
Keep EHRSS safe together!