





WHO Global Patient Safety Network Webinar

- Patient safety implications during the COVID-19 pandemic - Sharing experiences from European Region

14:00-15:20 CEST, Friday, 22 May 2020 on WebEx

The experience from Greece

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WHO checklist to ensure hospitals in European Region are ready for COVID-19 patients

D6-04-2020

A Hospital Readiness Checklist developed by WHO/Europe is helping hospital managers and emergency planners ensure a rapid and effective response to the COVID-19 outbreak.

Designated hospitals in Armenia, Georgia, Kyrgyzstan, Montenegro, the Republic of Moldova, Tajikistan and Uzbekistan have taken advantage of the tool and the accompanying technical support from WHO/Europe.

The step-by-step list helps hospitals review systems, resources and protocols, and outlines specific actions to strengthen their responsiveness to COVID-19. Some of the elements in the checklist include:



WHX Working towards hospital readiness for COVID-19

- surge capacity the ability of a hospital to expand beyond its normal capacity and to meet an increased demand for clinical care;
- adapted human resource management to ensure adequate health-care staff capacity;
- accurate and timely communication to ensure informed decision-making, effective collaboration, public awareness and trust;
- an operational infection prevention and control programme to minimize the risk of transmission of health care
 associated infection to patients, hospital staff and visitors;
- an efficient and accurate triage system and management strategy to ensure adequate treatment of COVID-19 patients:
- the ability of the health workforce to recognize and immediately report suspected cases as the cornerstone of hospital-based surveillance of COVID-19.





Surge capacity

 the ability of a hospital to expand beyond its normal capacity and to meet an increased demand for clinical care









Surge capacity

- National pandemic plan revised Jan 2020
- 28 January 2020
 - One month before 1st case
- 13 Dedicated COVID-19 hospitals
 - 7major prefectures
 - Eventually 45/131 cared for pts







- Surge capacity Operational IPC program, triage
 - Multiple exercises / simulations across hospitals





6 Feb 2020, Larissa

- Surge capacity ensure adequate health-care staff capacity (? trained, fear factor)
 - ↑ staff by 4150 HCW
 - MDs 495, RNs 2085, other 1570
 - Permanent appointments offered to all temporary RNs & 942 MDs



1ry care COVID network

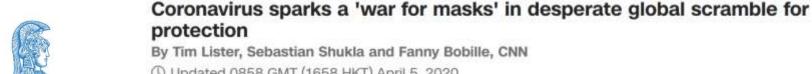


- Surge capacity –PPEs ("the war of the masks")
 - ↑ PPE stockpile, strict demand management
 - No stop-over special flights to procure PPE, ↑ prices
 - Solidarity was an issue



World











- Surge capacity HCW safety issues
 - FFP2 (N95) vs. FFP3 (N99) masks, gloves, gowns, goggles **European Centre for Disease**
 - 3D printing -> face shields
 - No shortages
 - 0.2% of HCW/hospital staff (+)

Mental, financial support













- Dual capacity systems
- Surge capacity ICU beds
 - Dedicated COVID ICUs converting process
 - 5.2 ICU beds / 100,000 at start of pandemic
 - ↑ to 9.4 ICU beds / 100,000 at end of April 2020
 - converting, private sector, military, ↑ step down units





- Surge capacity-ICU beds
 - Strict lockdown > 2.6/100,000 ICU beds used
 - Target 11.1 ICU beds / 100,000 population
 - by end of 2020



2 new ICU wards, 15 May 2020 Papageorgiou Hospital Greece

Surge capacity-testing

- Testing capacity, from 800/d -> \uparrow to 10,000/d
 - Avg 3000/d now
- Prioritized according to ECDC guidance
 - Reagent issues
 - Severe disease, Hospitalized, High-risk pts, HCWs





- Surge capacity-testing
 - Now broader testing to
 - all symptomatic, asymptomatic w criteria-outbreak response, sentinel
 - Mobile 250 500 mobile units in entire country
 - Ab-seroepidemiology
 - Left over, blood-donors, prospective, special populations





- Surge capacity-management strategy to ensure adequate Rx of COVID-19 patients
 - Approval of Rx algorithm by scientific advisory committee (n=26)
 - Moderate to severe dz, emphasis on high-risk groups
 - Distant digital prescription for home therapy





COVID-19 Treatment

Natl Med Agency approval, strict regulation of trials

- Hydroxychloroquine +/- Azithro, guidance
- Remdesivir- clinical trial, early access
- Others
 - LOP/RIT, colchicine, Immune modulation -> anti-IL6,Convalescent plasma
 - Other trials, colchicine, anti-IL1, SOLIDARITY etc





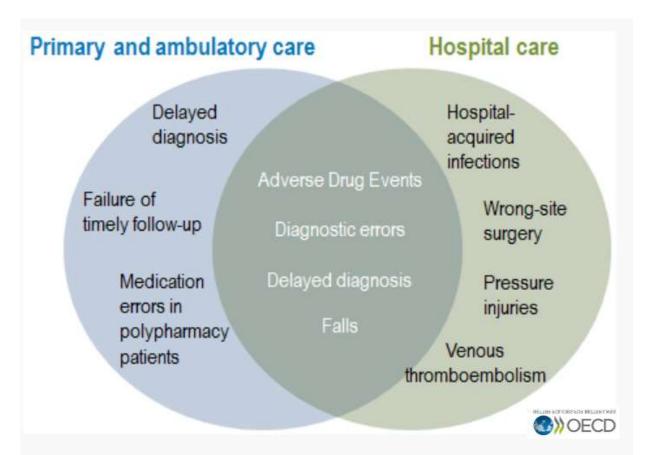
MEDS, stockpile

- National Medicinal Organization Dr Fillipou
 - Procurement of chloroquine before "hard data"
 - Early access programs, eg remdesivir
 - Other drugs w potential to treat at an early stage
 - Trial regulatory procedures





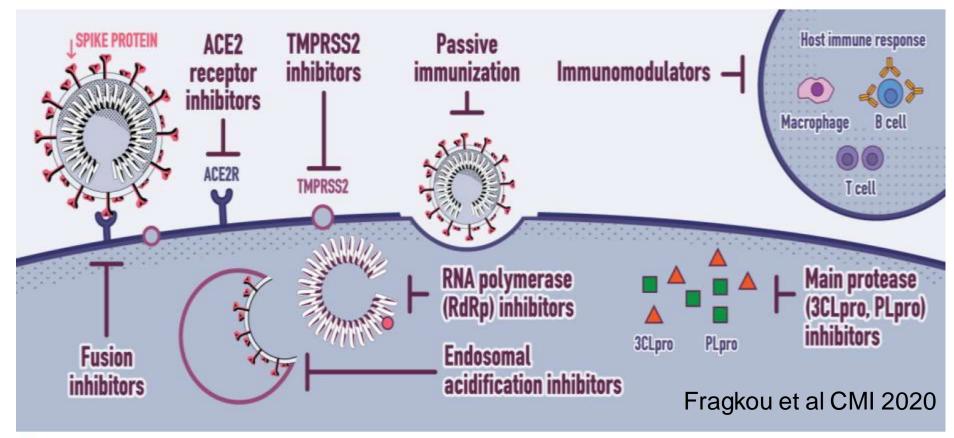
MEDS, Pharmacovigilance issues, f/u, elderly







Patient safety & Therapy multiple targets - unknown effect early on ethical dilemmas of placebo trials







Trials, trials,

Science

WHO begins mega trial of 4 promising drugs to cure Covid-19

Prashasti Awasthi | Mumbai | Updated on March 24, 2020 | Published on March 24, 2020



The World Health
Organization (WHO) has
initiated a global mega
trial of the four most
promising drugs that may
cure the novel coronavirus.

The four treatment arms will be

- Remdesivir
- Chloroquine and hydroxychloroquine
- Ritonavir + lopinavir
- Ritonavir + lopinavir + interferon beta

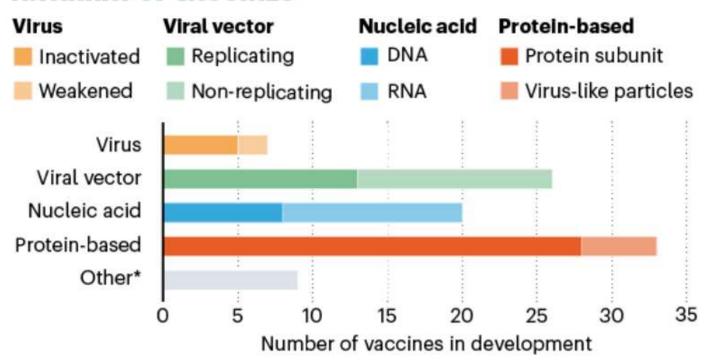




Vaccines - when?

Joint procurement, conspiracy theories, 2009 H1N1 failure

AN ARRAY OF VACCINES



^{*} Other efforts include testing whether existing vaccines against poliovirus or tuberculosis could help to fight SARS-CoV-2 by eliciting a general immune response (rather than specific adaptive immunity), or whether certain immune cells could be genetically modified to target the virus.





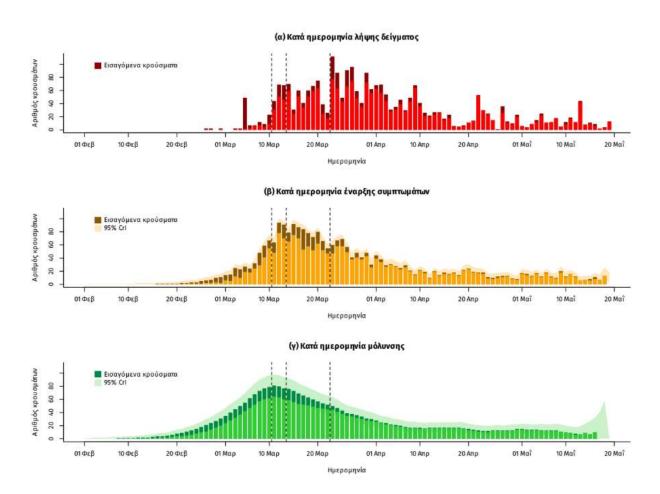
Vaccines - when? Landscape 15 May 2020, WHO

Platform	Type of candidate vaccine	Developer	Coronavirus target	Current stage of clinical evaluation/regulatory status- Coronavirus candidate	Same platform for non-Coronavirus candidates
Non- Replicating Viral Vector	Adenovirus Type 5 Vector	CanSino Biological Inc./Beijing Institute of Biotechnology	SARS-CoV2	Phase 2	Ebola
RNA	LNP- encapsulated mRNA	Moderna/NIAID	SARS-CoV2	Phase 2 (IND accepted) Phase 1 NCT04283461	multiple candidates
Inactivated	Inactivated	Wuhan Institute of Biological Products/Sinopharm	SARS-CoV2	Phase 1/2 ChiCTR2000031809	
Inactivated	Inactivated	Beijing Institute of Biological Products/Sinopharm	SARS-CoV2	Phase 1/2 ChiCTR2000032459	
Inactivated	Inactivated + alum	Sinovac	SARS-CoV2	Phase 1/2 NCT04352608	SARS
Non- Replicating Viral Vector	ChAdOx1	University of Oxford	SARS-CoV2	Phase 1/2 NCT04324606	MERS, influenza, TB, Chikungunya, Zika, MenB, plague
RNA	3 LNP-mRNAs	BioNTech/Fosun Pharma/Pfizer	SARS-CoV2	Phase 1/2 2020-001038-36 NCT04368728	
DNA	DNA plasmid vaccine with electroporation	Inovio Pharmaceuticals	SARS-CoV2	Phase 1 NCT04336410	multiple candidates





Surveillance Rt 0.31-19 May 2020







National Public Health Organization = Greek CDC General Secretary of Public Health, MoH

Communication issues

tough to communicate uncertainty, special attention to discrimination, solidarity, press & frontlines can we do it?











Vulnerable population issues tough to address

- Migrants, Roma, homeless others...
 - Guidance, emphasis on protection of high-risk
 - Dealt w small local outbreaks tough issues faced
 - mass testing, free HC provision, quarantine facilities for mild cases, mediators/facilitators, NGOs, local stigma issues
 - Further multi-disciplinary work necessary





Vulnerable population issues

tough to address

- Migrants, Roma, homeless others...
 - Mobile Greek CDC units enormous help







Other sectors...examples have not been evaluated yet

- ↓ access to care, balance issues
 - $-\downarrow$ n of regular med appointments (**chronic dz**), ER visits
 - ↓ n of elective surgeries, oncology Sx never stopped
 - Lockdown, fear
- Unrecognized COVID side effects
 - Neuro, smell, cardiac, kidney failure, ? long-term f/u
 - ? The mental issues projects ongoing HCW, public





Way forward & steps remaining prepare for 2nd wave, improve HC/pt safety

- Full & functional Medical COVID-19 pt registry
 - Digitize entire process, COVID vs entire network
- Improve hospital indices in other pt safety issues
 - MDRO, Nurse to pt ratio, QC/QA, quality CME, MOC not currently in stance
- 1ry Healthcare in distant, non urban areas



Tele-medicine project starts on June 1st



Way forward & steps remaining pt safety

- Immediate plans to create/legislate quality assurance and pt safety agency, MOH
 - Quality improvement, Specific committee, indicators,
 establish national pt safety protocol, digital platform
- Cross-border collaboration w neighbouring countries
 - Shared protocols, Pt safety oriented research





Strong political commitment team work, acknowledgments, many thx to all!

Government

- Minister/Dep Minister of Health, V. Kikilias/ V. Kontozamanis
- Gen Secretaries of Min of Health
 - P Prezerakos, I. Kotsiopoulos, K. Gogosis & teams
- Advisory committee 26 scientists
- Greek CDC (NPHO) Director
 - P. Arkoumaneas, G Panayiotakopoulos, S. Sapounas & teams
- Ntl Med Agency (EOF), Institute for Pharm Research
 - Δ. Filippou & team
- Civil protection, Dep Minister N. Xardalias





Patient safety comes first!

Thank you for your attention!







