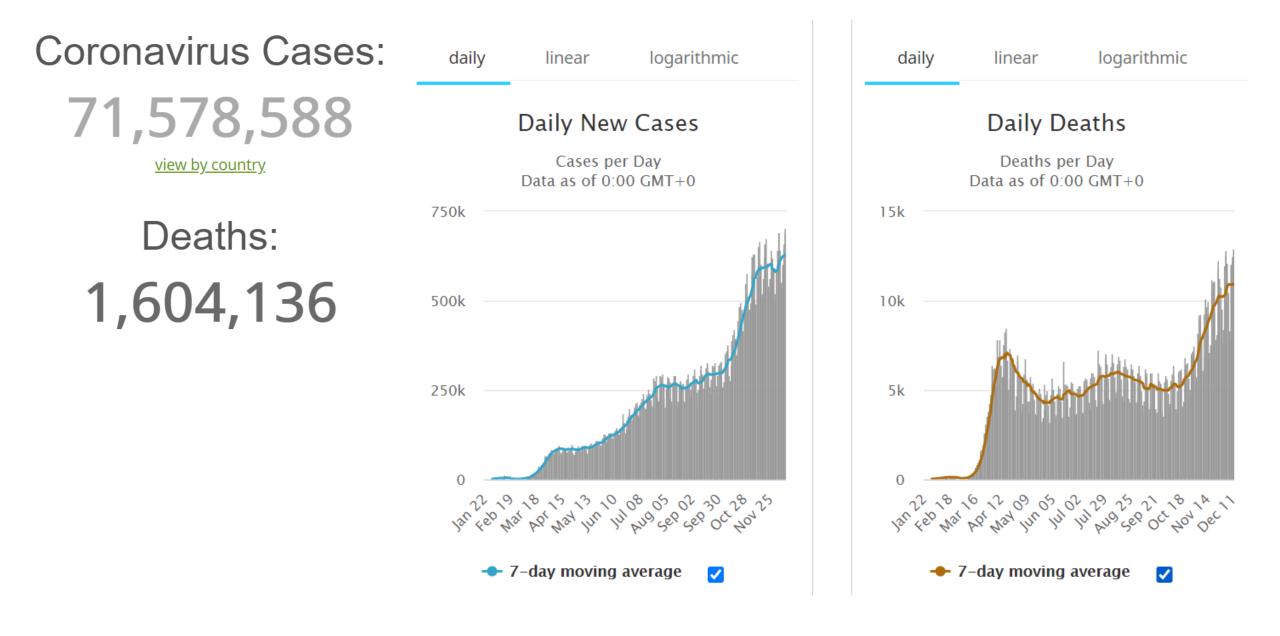


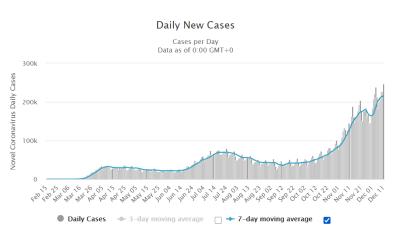
Annual Meeting 2020 12 Dec 2020 Part 2: Co-existing with COVID-19

Co-exiting with COVID-10

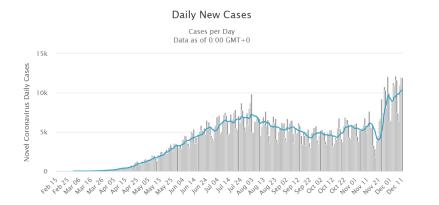
Sharing of experience

- Bangladesh
- Hong Kong
- India
- Italy
- Malysia
- Others

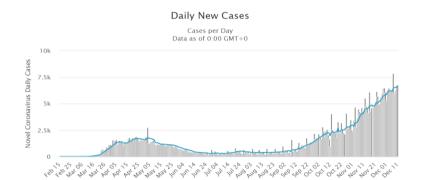




Daily New Cases in Mexico



Daily New Cases in Canada

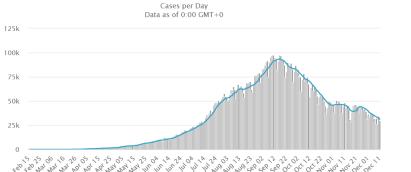


Daily New Cases in India

ů

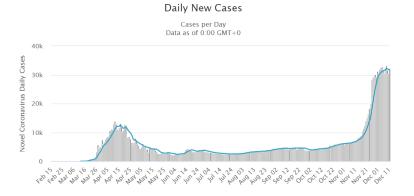
Daily New Cases in Italy

Daily New Cases

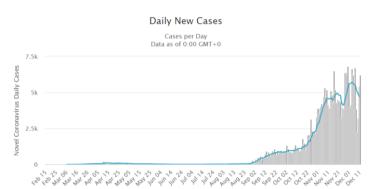


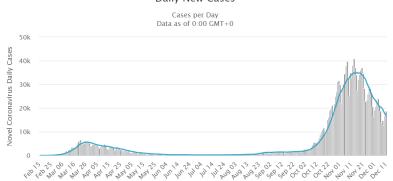
Daily New Cases

Daily New Cases in Turkey

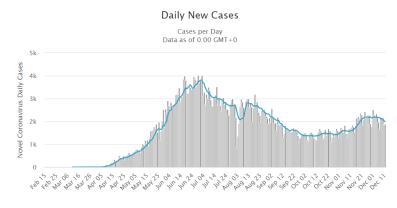


Daily New Cases in Hungary

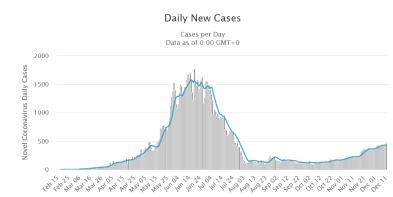




Daily New Cases in Bangladesh

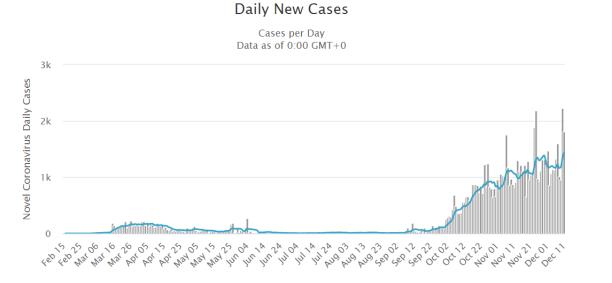


Daily New Cases in Egypt

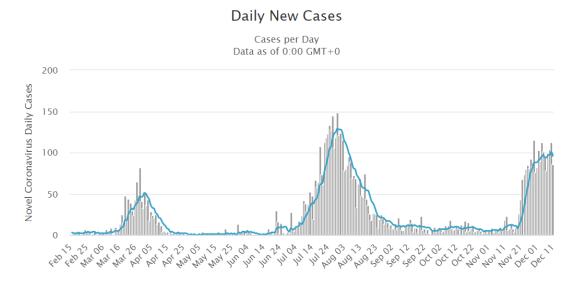


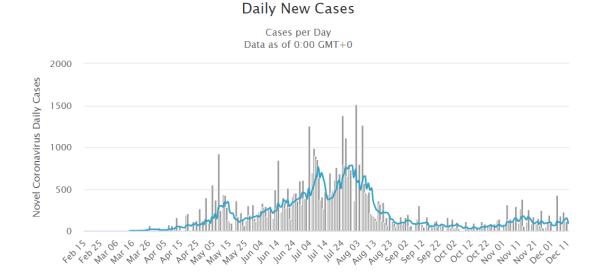
Daily New Cases in Malaysia

Daily New Cases in Ghana

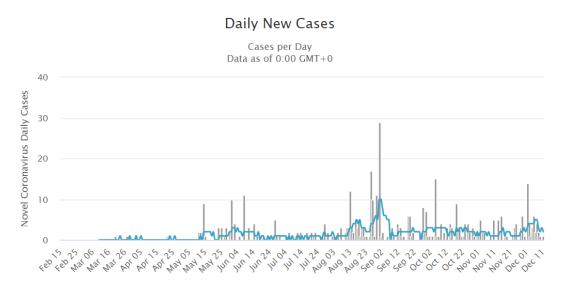


Daily New Cases in China, Hong Kong SAR





Daily New Cases in Bhutan



Co-exiting with COVID-10

Sharing of experience

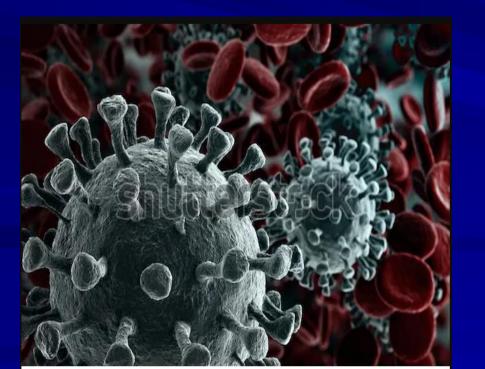
- Bangladesh
- Hong Kong
- India
- Italy
- Malaysia
- Others

COVID-19 in Bangladesh

Prof. Dr. Harun-Ur-Rashid PhD, FCPS, FRCP Founder President, Kidney Foundation. Dhaka, Bangladesh.

COVID-19 in Bangladesh

Reported 1st in 8th March - 3 cases
As in 12 Oct.- 481946
No of death - 6906





Bangladesh Perspective

Population ¹	163.65 million
Three most populated cities:	1. Dhaka -36,054,418
	2. Chattogram - 28,423,019
	3. Rajshahi -18,484,858
Gross Domestic Product	USD 274.1 billion
(GDP) (2017 – 2018) ¹	
GDP per capita (2017 – 2018) ¹	USD 1675
Human Development Index	0.608
(HDI) (2017) ²	
Total number of nephrologists	260 (<1.0/PMP)

ESRD-Bangladesh Perspective

Incidence of ESRD	2018 – 244.4 pmp (per million population)
Prevalence of ESRD	2018 – 305.5 pmp
Total number of patients in dialysis	2018 – 19123 (116.8pmp)
Number of patients in hemodialysis	2018 – 18500 (113 pmp)
Number of patients in peritoneal dialysis (CAPD)	2018 – 623 (3.8 pmp)
Number of renal transplantations per year	2018 – 187 (1.1 pmp)

ESRD care in Bangladesh

In 2018, about 10,421 new patients were on RRT (63.6 PMP)

Of them

- : 10000 on HD (61.1 PMP)
 - : 234 on CAPD (1.4 PMP)
 - : 187 Transplanted (1.14 PMP)

More than 80% had no access to dialysis or transplant because of lack of manpower and facility .

Kidney Foundation, Bangladesh



COVID-19 infection in HD

No of patients studied in KF - 415
No of pts. screened for COVID -196
Duration of study-May20 –Oct 20
No of COVID infection -24 (5.7%)
No died - 7 (29%)

COVID-19 infection in Transplant patients

Total no of patients followed up -1043
 Total no of COVID infection - 31(2.9%)
 No of patients died -7(22.6%)
 Cause of death: AKI-3,ARDS-02,CVA-02

No of COVID infection in CAPD

Total no of patient studied - 80
Duration of Study-March to Oct,2020
No of patients with COVID infection-6(7.5%)
No died - 4
Cause of death : ARDS-02,AMI-01,Stroke-01

Overview of Dialysis Unit in Kidney Foundation



A patient with maintenance Dialysis and a nurse



ESRD care in Kidney Foundation No HD bed:110, No of pts. on HD: 800-1000

Low cost dialysis treatment without compromising the quality.

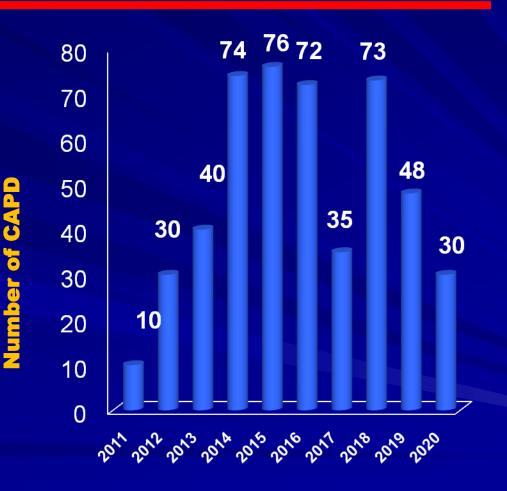
- The cost of one dialysis session in KF is U\$\$18.00 whereas in private dialysis centers the cost varies from US\$ 40.00 – 58.00.
- Performed more than 3.5 lac (3,60,616) dialysis sessions at reduced cost for last 16 yrs.
- The total amount of money thus saved for patients over the last 16 years was 93.18 crores taka (US\$ 10.50 million)

Transplantation at Kidney Foundation Hospital

- From September 2006 to September 2020, 505 renal transplantation was successfully performed.
- The overall expenditure of surgery and postoperative care is only US \$ 3,058.00.
- Out patient consultation fee for transplant patients is only Taka US\$ 1.2 and the investigation cost is reduced to 30% and is free for poor patients.

CAPD in Kidney Foundation

CAPD was started on September 2011 as a form of home dialysis and there are now 489 patients till Sept 2020.



Duration in years

Cost of RRT Modalities at KF

Mode of	Cost in Private Hospital	Cost in K.F
HD/pt/yr	Taka 3,64,000 – 4,68,000	Taka 1,63,200 (US\$
	(US\$4,550 - 5,850)	1920.00)
LRT/pt	Taka 3,74,960 – 8,00,000	Taka 2,60,000 (US\$
	(US\$ 4,687-10,000)	3058.00)
CAPD/pt/yr	Taka 4,80,000	Taka 4,00,000 (US\$ 5000)
	(US\$ 6000)	

HD - Haemodialysis, LRT- Live related transplant CAPD – Continuous Ambulatory Peritoneal Dialysis

Benefit Given to Patients by KF (2005-2018)

Benefit to patients: Taka 110.00 crore (13.7 million US dollar)

Summary

Kidney Foundation is now the largest Non profit hospital for treatment of kidney disease, dialysis and renal transplant in Bangladesh.

It is also conducting training for nurses, doctors and conducting research in cooperation with Royal London Hospital, Weyne State University, USA and Anam University Hospital, Korea.



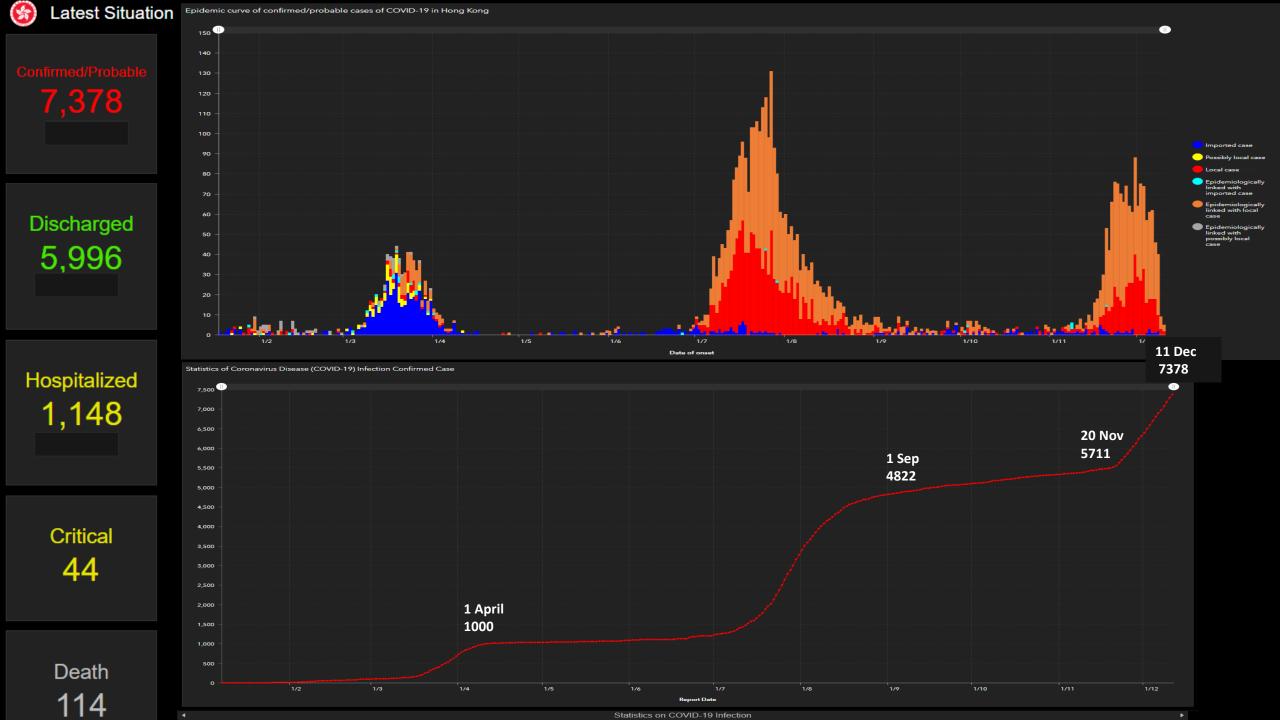
Co-exiting with COVID-10

Sharing of experience

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- Others

Co-Existing with COVID-19 Hong Kong Experience

Preparedness Response Renal patients HKKF/HKSN Activities for patients



Preparedness

- SARS 2003 1755 cases, 299 death (17%)
 386 healthcare workers, 8 death
- **Comprehensive response plan** (government, hospital) • Preparedness **Negative pressure isolation beds:** 1200+ in 15 hospitals 3 months **PPE Stocking: Healthcare staff:** Infection control training Fit test for N95 Culture: Wearing Mask Hand hygiene

Rapid Response

Response Emergency alert state - 1 Jan 2020
 All potential risks patient isolated.
 All confirmed cases admitted into Infection Control wards

Early detection, isolation, treatment of case

No complete lock down. Scale-up and down closure.

Patient on Renal replacement therapy

- 11,000 patients under public sector (90%)
 - Peritoneal dialysis (CAPD, APD)4552 (44%)– Home therapyHaemodialysis2003 (19%)– Hospital, centre, HomeTransplant3766 (36%)– Home
- Only small number of patients are exposed to COVID with hospital visit.
- May be 13-15 patients confirmed COVID-19 (To be confirmed). Three deaths.
 - 2 small clusters of case (public, private)
 - NO staff infected from caring COVID patients
 - Very tight infection control measure

Universal precaution

- Surgical Mask 100% of time
- Hand hygiene
- Social distancing
- Segregation if have symptom / isolation

– Staff protection

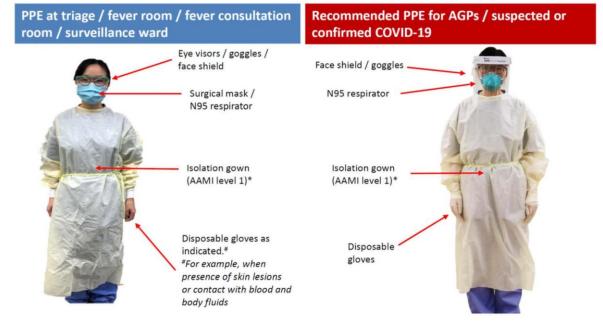
Universal precaution Appropriate PPE for the risk and work nature





size: 190W x 575Hmm

Personal Protective Equipment (PPE)



*AAMI level 3 isolation gown can be considered when splashing is anticipated. Alternatively, a waterproof apron on top of the AAMI level 1 isolation gown is also acceptable.

Shoe covers are not recommended.

58

新界東聯網使用之N95呼吸器 N95 Respirators in NTEC





PPE stock

Surgical masks68,000,000N956,500,000Face shield10,700,000Gown8,500,000

7 March 2020

Hong Kong Kidney Foundation, Hong Kong Society of Nephrology & Hong Kong Association of Renal Nurses set up the COVID-19 Hong Kong Kidney Patient Support Fund and Program

to support patients facing difficult and financial burden to obtain surgical masks.

US\$128,280 was raised with the strong support from our partners and pharmaceutical companies,

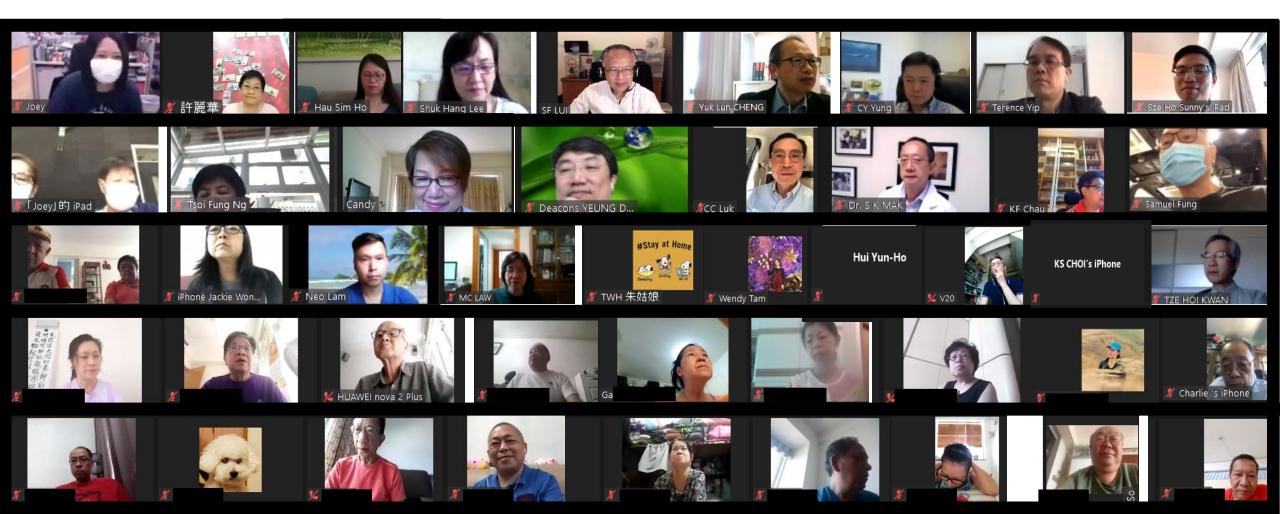
enable the project to purchase **300,000 surgical masks,** to provide each of the **11,000 patients on renal replacement therapy** under Hospital Authority (public sector) and at charitable centres with **25 surgical masks**.





8 August 2020 Together we fight COVID-19

Online Forum – Sharing, discussion and mutual support, attended by 108 patients and healthcare professionals Organisers: Hong Kong Kidney Foundation, Hong Kong Society of Nephrology Hong Kong Association of Renal Nurses, Alliance of Renal Patient Mutual Help Association



Co-exiting with COVID-10

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TAMILNAD KIDNEY RESEARCH FOUNDATION[®]

... helping the underprivileged with kidney ailments

DATION







Co-existing with COVID-19 India

Latha A Kumaraswami Managing Trustee TANKER Foundation, India IFKF Secretary & Treasurer Member WKD Steering Committee

COVID-19 in India-Numbers and policies



R



- Laboratory confirmed 1st COVID-19 positive was reported on January 30th in Kerala, India.
- Lockdown in India since 24th March 2020.
- Since 1st May loosening of lockdown dependent on risk zones profiled as –Red (Hotspot), Orange and Green with containment areas.
- Surveillance through SARI(Severe Acute Respiratory Infection) and ILS(Immediate Life Support) throughout the country to monitor outbreaks for identifying areas.
- Slow opening of essential Industries and work place to balance health and economics keeping social distancing and use masks and maintain air flow.



COVID Care in India – Strategies



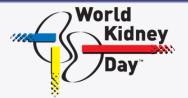


- Designated COVID hospitals in cities and demarcated sections in smaller public health facilities at district level.
- Fever clinics to protect the facilities from being overburdened.
- Separate quarantine facilities for people migrating from within and outside the country.
- Community mobilization through education for home quarantine for suspected or at risk people.
- Availability of specialist desk for advise for physicians to manage and support patients at primary care level.



India statistics as of 10th Dec'20:





- In India, 9.72 Million people infected so far.
- 0.14 Million people died due to COVID-19
- Peak infection time was Jul-Oct. Initial lockdown phase helped us to prepare adequately for hospitalization, procurement of PPE's, Ventilators, etc

(AN ACAT

TANKER Foundation







helping the underprivileged with kidney ailments

- TANKER Foundation since 1993 helping the underprivilleged with kidney ailments.
- TANKER is supported by well-wishers and non-profit organization
- ✤ 11 Dialysis Centers in Tamilnadu, India
- TANKER has provided 369,769 (0.36 Million) free and subsidized dialysis for 1774 patients across 11 dialysis center.
- TANKER reached out to 0.18 people through 1279 Awareness Programmes
- TANKER awards research papers in Nephrology and Service annually



COVID-19 @ TANKER (Till Nov'20)

WORD REMAY ALLIANCE			World Kidn Day					
April -November'20								
Unit Name	No of patients Infected	Recovered	Remarks					
Ambattur	18	15	3 Death					
Vkottam	16	15	One patient Improved Renal Function					
TVK	6	6						
Perungudi	1	1						
Retteri	1	1						
Madurai	3	3						
Vellore	4	3	1					
Total	49	44	Death - 4					
			Improved -1					

- 49 patients were tested positive till Nov'20
- 10 staffs tested positive
- 4 patients died

Challenges



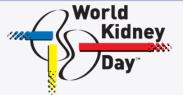


- Education of patients about importance of hand wash/hand sanitization, social-distancing, wearing masks, etc
- Transportation was a challenge due to emergency lockdown both for patients and staff.
- Doctors consultation was not available for other management of patients.
- COVID-19 positive patients were managed by Govt. hospital initially and then managed by TANKER with proper isolation and appropriate PPEs'
- The units were run with less staff (drop by 20-25%) due to initial threat of infection.



Role of TANKER Foundation during COVID





- Continuous education of patient, public, staff, family about safety measures
- Ensured the adequate/appropriate supply of hand sanitizer, face masks/Face sheilds, PPEs', etc to their patients and staffs.
- Awareness through face masks to corporation workers, Police, public, etc
- Provided accommodation, transport facility to their staff.

TAMILNAD KIDNEY RESEARCH FOUNDATION

World Kidney

Day



TANKER Units











helping the underprivileged with kidney ailments









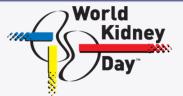




TAMILNAD KIDNEY RESEARCH FOUNDATION









helping the underprivileged with kidney ailments

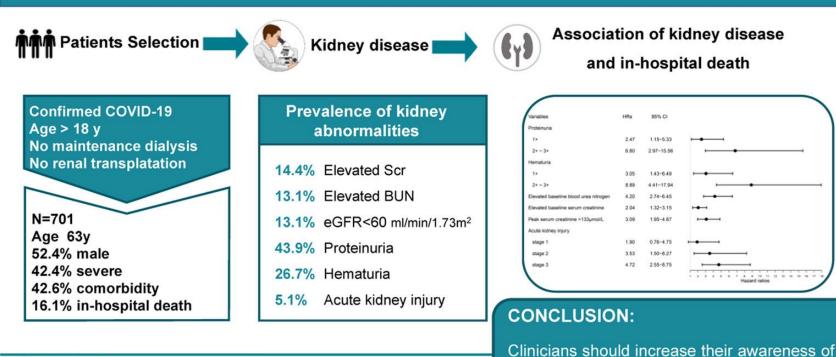
Thank You!!!

Co-exiting with COVID-10

Sharing of experience

- Bangladesh
- Hong Kong
- India
- Italy
- Malaysia
- Others





kidney disease in patients with COVID-19.



Y Cheng et al, 2020

OFFICIAL JOURNAL OF THE INTERNATIONAL SOCIETY OF NEPHROLOGY

Journal of Nephrology (2020) 33:725–736 https://doi.org/10.1007/s40620-020-00794-1

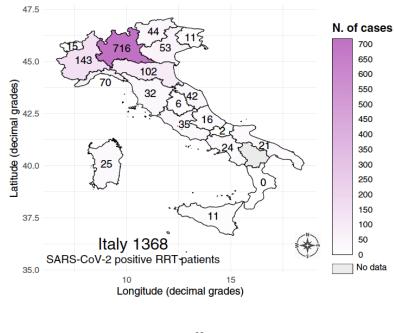
ORIGINAL ARTICLE

Deck for pdates

Exposure to novel coronavirus in patients on renal replacement therapy during the exponential phase of COVID-19 pandemic: survey of the Italian Society of Nephrology

Giuseppe Quintaliani¹ · Gianpaolo Reboldi² · Anteo Di Napoli³ · Maurizio Nordio⁴ · Aurelio Limido⁵ · giorgio Messa⁷ · Giuliano Brunori^{1,8} on behalf of the Italian Society of Nephrology COVID-19

SARS-CoV-2 Postive RRT patients



Region effect p<0.001 Latitude effect p<0.001
 Table 1
 Exposed patients, SARS-CoV-2 positive cases and incidence rate by treatment modality and overall

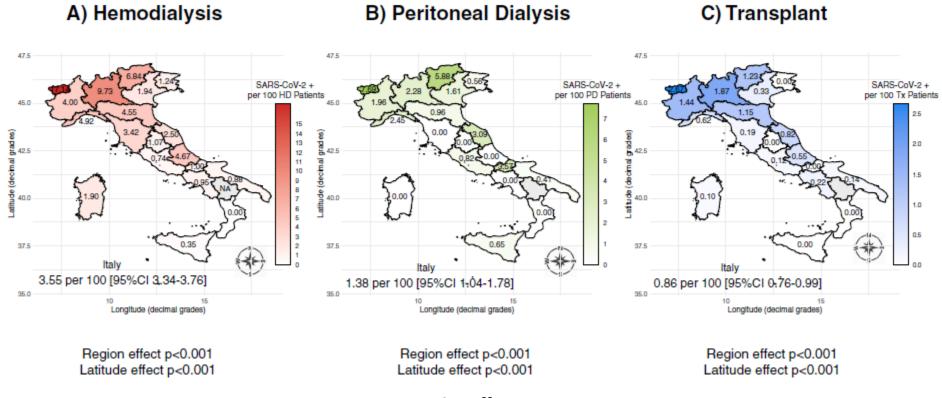
Treatment modality	Exposed patients	SARS-CoV-2 positive cases	IR per 100	95% CI
HD	30,821	1093	3.55	3.34 3.76
PD	4139	57	1.38	1.04 1.78
Tx	25,481	218	0.86	0.75 0.98
RRT	60,441	1368	2.26	2.14 2.39

HD hemodialysis, *PD* peritoneal dialysis, *Tx* transplant, *RRT* renal replacement therapy, *IR* incidence rate

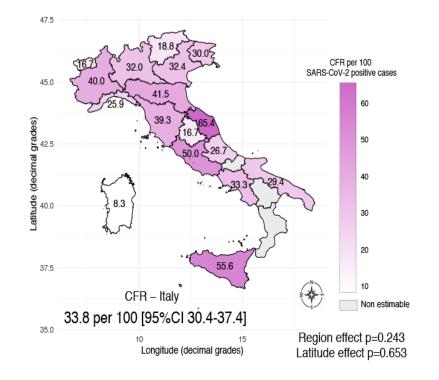
Modality effect p<0.001

- Variabilità regionale dell'incidenza con gradiente Nord-Sud.
- Incidenza molto più alta di COVID-19 nei pazienti in terapia sostitutiva, rispetto alla popolazione generale
- Incidenza più elevata in emodialisi che in dialisi peritoneale e in trapianto.

SARS-CoV-2 Infection Rates by Modality



Macroregion effect p<0.001



Case Fatality Rate per 100 SARS-CoV-2 positive HD Patients

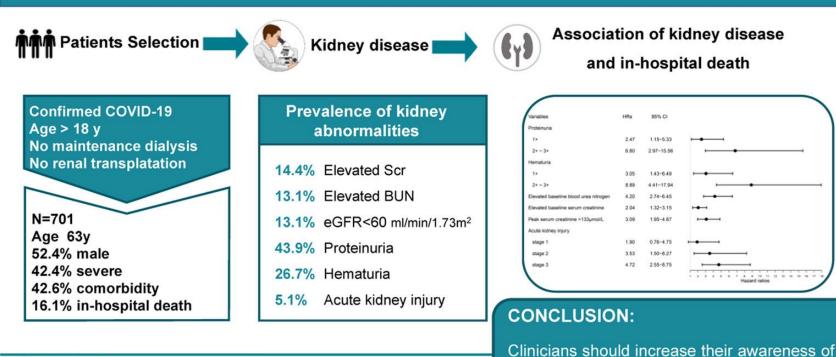
Treatment	SARS-CoV-2 positive patients	Deaths	Fatality rate per 100	95% CI	95% CI	
HD	1093	369	33.76	30.43	37.42	
PD	57	26	45.61	29.80	66.83	
Tx	218	54	24.77	18.61	32.32	
RRT	1368	449	32.82	29.86	36.00	

Mortalità più alta in RRT che nella popolazione generale.

Regioni con almeno 10 decessi

Macroregion effect p=0.648





kidney disease in patients with COVID-19.



Y Cheng et al, 2020

OFFICIAL JOURNAL OF THE INTERNATIONAL SOCIETY OF NEPHROLOGY

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IMPACT OF COVID 19 ON NKFM ACTIVITIES

ZAKI MORAD NKF MALAYSIA



COVID 19 IN MALAYSIA

As up to today :

- Cumulative number of cases 82,246
- Cumulative number of recovered cases 68,084
- Total active cases 13,751 (121 in ICU and 66 on Ventilators)
- Total Number of deaths 411
- New Cases today 1,937

IMPACT OF COVID 19 ON NKFM

- Financial impact
- NKF's HD program
- NKF's Public Education Program
- Collaboration with MoH and other pasrties



FINANCIAL IMPACT ON NKF

- Sign- up of new donors in our DDDP program decreased significantly in 2020
- Donations for existing donors continue to flow –in sustaining our operations
- Expenses in running our HD program has increased significantly
 - use of PPEs, Tests for SARS Covid 2, decontamination of affected centres, allowances for staff working extra hours
- Financial assistance for our HD patients (US\$300,000)



FINANCIAL IMPACT ON NKFM

Th Ministry of Health mandates that all Covid 19 positive patients MUST be admitted to designated public hospitals. This includes Hemodialysis patients who are positive who have to be treated in HD centers in public hospitals. NKF had 6 of its HD patients who were transferred temporarily to Public hospitals

At the peak of the pandemic, the MoH facilities were overwhelmed NKF donated PPEs, HD machines and Portable water treatment machines to government hospitals. It also volunteered it HD staff to assists



HD Practices in NKFM HD centres

- All patients must wear 3 ply face masks & screen for body temperature, sanitise their hands before they are allowed to enter the centre for dialysis treatment.
- Staff working in the centre sanitise their hands and check body temperature before entering centre, and put on the following PPE:
 - 3 Ply face mask
 - Face shield
 - Apron
 - Gloves
- In addition to the above PPE, staff wears gown & head cap when nursing PUI cases in the last shift & single use dialyzers for 2 weeks.



Change of Working Hours

- The Staff were divided into two teams, working on alternate days from 7.00am 9.00pm.
- The staff were assigned to attend to specific patients/machines in every shift.
- These measures were adopted to minimize the number of patient contacts.
- It was very tiring to work for a long stretch with PPE on.

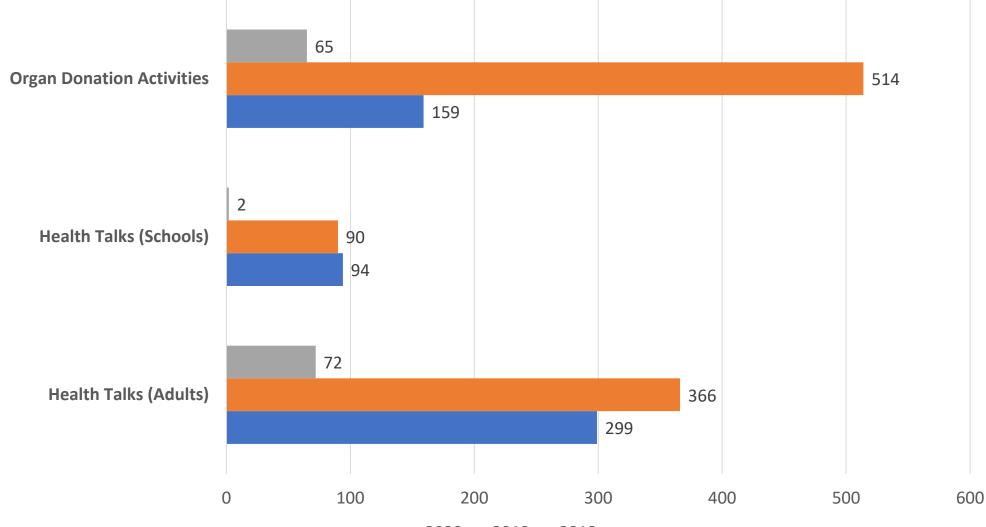


DELAY IN LICENSING OF NEW HD CENTRES

- MCO (Movement Control Order) due to COVID-19 had also affected NKF's development plans.
- NKFM usually opens 2-3 centres a year in areas where facilities are needed
- This year development plans were put on hold as MCO prohibits its staff from travelling to proposed new sites to plan the centre.



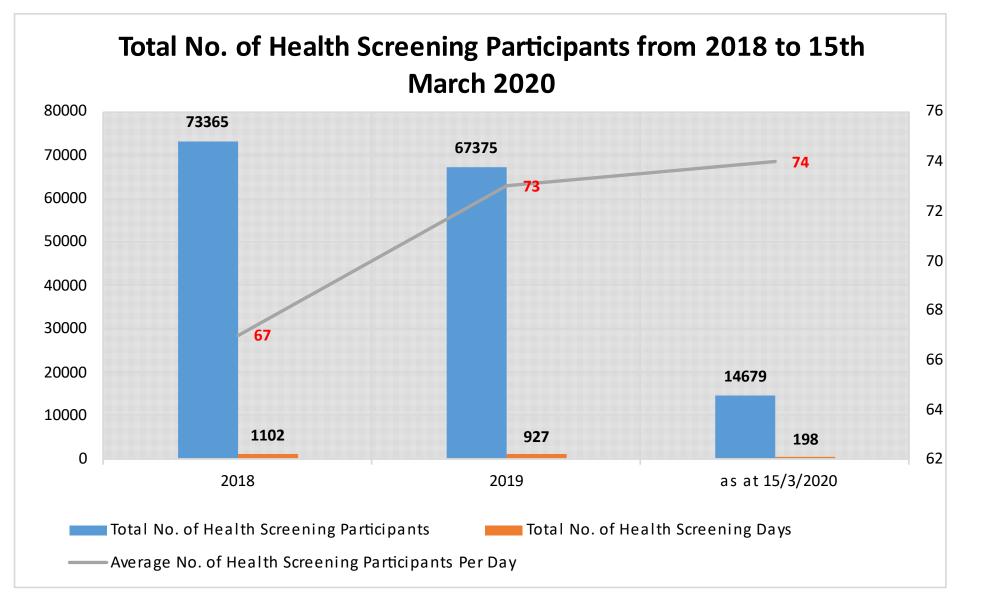
Total Number of Kidney Awareness Activities 2018 - 2020



2020 2019 2018



Mobile Health Screening Activities



The good that came out of this pandemic

- Close collaboration amongst healthcare providers MoH, Private providers, NGOs and community
- Patients and Staff becomes more compliant to SOPs
 No one complaints, everyone willing to sacrifice for the good of the organization.
- Data compilation is more complete
- Greater use of social media

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