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
- Malaysia
- Others
Coronavirus Cases: 71,578,588
Deaths: 1,604,136
Co-exiting with COVID-10

Sharing of experience
- Bangladesh
- Hong Kong
- India
- Italy
- Malaysia
- Others
COVID-19 in Bangladesh

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Dhaka, Bangladesh.
COVID-19 in Bangladesh

Reported 1\textsuperscript{st} in 8\textsuperscript{th} March - 3 cases
As in 12 Oct. - 481946
No of death - 6906
**Bangladesh Perspective**

<table>
<thead>
<tr>
<th>Population(^1)</th>
<th>163.65 million</th>
</tr>
</thead>
<tbody>
<tr>
<td>Three most populated cities:</td>
<td></td>
</tr>
<tr>
<td>1. Dhaka</td>
<td>36,054,418</td>
</tr>
<tr>
<td>2. Chattogram</td>
<td>28,423,019</td>
</tr>
<tr>
<td>3. Rajshahi</td>
<td>18,484,858</td>
</tr>
<tr>
<td>Gross Domestic Product (GDP) (2017 – 2018)(^1)</td>
<td>USD 274.1 billion</td>
</tr>
<tr>
<td>GDP per capita (2017 – 2018)(^1)</td>
<td>USD 1675</td>
</tr>
<tr>
<td>Human Development Index (HDI) (2017)(^2)</td>
<td>0.608</td>
</tr>
<tr>
<td>Total number of nephrologists</td>
<td>260 (&lt;1.0/PMP)</td>
</tr>
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## ESRD-Bangladesh Perspective

<table>
<thead>
<tr>
<th></th>
<th>2018 – 2019 Values</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Incidence of ESRD</strong></td>
<td>244.4 pmp (per million population)</td>
</tr>
<tr>
<td><strong>Prevalence of ESRD</strong></td>
<td>305.5 pmp</td>
</tr>
<tr>
<td><strong>Total number of patients in dialysis</strong></td>
<td>19123 (116.8 pmp)</td>
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<tr>
<td><strong>Number of patients in hemodialysis</strong></td>
<td>18500 (113 pmp)</td>
</tr>
<tr>
<td><strong>Number of patients in peritoneal dialysis (CAPD)</strong></td>
<td>623 (3.8 pmp)</td>
</tr>
<tr>
<td><strong>Number of renal transplantations per year</strong></td>
<td>187 (1.1 pmp)</td>
</tr>
</tbody>
</table>
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 - May 20 – 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
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 US$18.00 whereas in private dialysis centers the cost varies from US$ 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)
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.

Outpatient 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.
## Cost of RRT Modalities at KF

<table>
<thead>
<tr>
<th>Mode of</th>
<th>Cost in Private Hospital</th>
<th>Cost in K.F</th>
</tr>
</thead>
<tbody>
<tr>
<td>HD/pt/yr</td>
<td>Taka 3,64,000 – 4,68,000 (US$4,550 - 5,850)</td>
<td>Taka 1,63,200 (US$ 1920.00)</td>
</tr>
<tr>
<td>LRT/pt</td>
<td>Taka 3,74,960 – 8,00,000 (US$ 4,687-10,000)</td>
<td>Taka 2,60,000 (US$ 3058.00)</td>
</tr>
<tr>
<td>CAPD/pt/yr</td>
<td>Taka 4,80,000 (US$ 6000)</td>
<td>Taka 4,00,000 (US$ 5000)</td>
</tr>
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</table>
Benefit to Patients by KF (2005-2018)

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