**Proposal for Pradhan Mantri National Dialysis Programme, 2020-21**

The first dialysis unit in Mizoram was started with a single dialysis machine in Civil Hospital Aizawl in 2001. Presently the state is running two dialysis units at 2 district hospitals- 6 bedded dialysis unit at Civil Hospital Aizawl and 2 bedded unit at Lunglei district hospital, which are manned by trained Technicians, Nurses and Medical Officers.

Due to rising number of end stage renal diseases in the state, the out of pocket expenditure on dialysis care is extremely high specially for those coming from districts other than Aizawl and Lunglei. For those coming from far flung areas of the state, the out of pocket expenditure on transportation, house rent, hospital fees and other expenses are catastrophic.

Proposal is made for procurement of Re-processor machine for Civil Hospital Aizawl.

**Reprocessor machine** – This is an automated machine which reprocess dialyser used during manual heamodialysis session, after which the dialyser can be reused upto 8 times. In the absence of reprocessor machine, dialyser has to be purchased for every dialysis session. With the use of this machine, a dialysis patient needs to buy only 2dialyser per month in comparison to 12 dialyser needed for 1 month without reprocessor machine.

Cost of Haemodialysis for 1 patient with and without Re-processor machine is tabulated below for comparision. The total cost of dialysis for 1 patient without reprocessor machine is more than Rs.10 lakhs whereas the total cost of dialysis with reprocessor machine is reduced to half.

The total amount proposed for purchase of reprocessor machine is **Rs.10.84 lakhs**

Cost of Haemodialysis without reprocessor machine for I patient/year

|  |  |  |  |
| --- | --- | --- | --- |
| **Items** | **Rate/unit** | **Quantity required for I week** | **Total Expenditure/year** |
| Catheter | 4500 | 1 | 54000 |
| **F6 Dialyser** | **1120** | **1x3** | **483840** |
| Blood tubing set | 325 | 3 | 46800 |
| Acid bicarb solution | 550 | 3 | 237600 |
| Gloves | 60 | 6 | 51840 |
| Heparin vial | 300 | 3 | 129600 |
| Syringes | 6 | 9 | 7776 |
| **TOTAL** | | | **Rs.1011456** |

Cost of Haemodialysis with re-processor machine for 1 patient /year

|  |  |  |  |
| --- | --- | --- | --- |
| **Items** | **Rate/unit** | **Quantity required for I week** | **Total Expenditure/year** |
| Catheter | 4500 | 1 | 54000 |
| **F6 Dialyser** | **1120** | **2 packs/month** | **26880** |
| Blood tubing set | 325 | 3 | 46800 |
| Acid bicarb solution | 550 | 3 | 237600 |
| Gloves | 60 | 6 | 51840 |
| Heparin vial | 300 | 3 | 129600 |
| Syringes | 6 | 9 | 7776 |
| **TOTAL** | | | **Rs.554496** |

**Present dialysis profile of Mizoram**

|  |  |  |  |
| --- | --- | --- | --- |
| **District** | **Population** | **Number of dialysis machine** | **Human resource** |
| Aizawl | 462622 | 8 | 1 MO, 2 Staff Nurses, 1 Technician |
| Lunglei | 161600 | 4 | 1 MO, 2 Staff Nurses, 1 Technician |
| **Champhai** | **149887** | **Nil** | **Nil** |
| Lawngtlai | 140822 | Nil | Nil |
| Kolasib | 92270 | Nil | Nil |
| Mamit | 95700 | Nil | Nil |
| Serchhip | 70486 | Nil | Nil |
| Siaha | 66478 | Nil | Nil |

**Dialysis report for Mizoram 1st April 2018 - 31st March 2019**

|  |  |  |
| --- | --- | --- |
| **Name of Hospital** | **No of patients** | **No of sessions** |
| Civil Hospital Aizawl | 502 | 3791 |
| District Hospital Lunglei | 143 | 847 |
| **Total** | **645** | **4638** |

**PROPOSED ESTIMATE FOR PROCUREMENT OF RE-PROCESSOR MACHINE FOR CIVIL HOSPITAL AIZAWL**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S/No** | **Item** | **Rate/unit in Rupees** | **Requirement** | **Total** |
| 1 | Re-processor machine | 3.5 lakhs | 2 nos | 7 lakhs |
| 2 | Renalin solution | 16000/10 L | 240 L | 3.84 lakhs |
| **TOTAL PROPOSED AMOUNT** | | | | **Rs.10.84** |