The National Kidney Foundation 全国肾脏基金会
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Annex A3

RFP No: 20261101

Requirement Specification for Renal Point of Care System (RPOC)

The Objectives of the Renal Point-Of-Care (RPOC) System are as follows:

- To enable the capture of patient information during every dialysis treatment so as to provide a comprehensive medical record of all our patients inclusive of pre & post dialysis treatment parameters, medication ordered and prescribed, clinical notes, session alerts etc.
- To provide online monitoring during the dialysis sessions with the necessary alerts and reminders.
- To provide online access to our patient information by our doctors and clinicians anytime anywhere so as to enable timely intervention of patient treatment.
- To automate the download of clinical data from the dialysis machines during the treatment sessions at periodic intervals to our back-end main Clinical System.
- To enable bi-directional data exchange with external systems via XML data template from NKF.

Renal Point-Of-Care (RPOC) system requirements	Comply Yes/No	Remarks
• The dialysis machine must be equipped with the patient card reader and the ability to transmit dialysis machine readings and settings to and from NKF's selected RPOC System. • Any issue with the dialysis machine card reader must be rectified by vendor as part of machine maintenance.		

• Please submit separate price schedule for each DC.
• Please include clearly:
  • One-Time Cost, including Hardware, Software, and Installation
  • Annual Cost,
  • Annual License (if applicable), including any first X years waiver for new DC.
  • Annual Maintenance, to highlight if is grouped maintenance (single price for all existing and new DCs) or individual maintenance.		

• For existing dialysis centre managed by vendor (eg. Retrofit), all RPOC supporting hardware is required to be replaced with new hardware. This is to minimize disruption to operation due to old hardware that has already been running for 8 years.		
• The system must be able to communicate with the weighing scales used by NKF to capture pre and post weight data. This includes (not limited to) external card reader and accessories (e.g. connection cable). • Based on record, the weighing scale card reader has higher usage (as compared to machine card reader) and is thus prone to damage around the 5th year. This is disruptive to operation. • As such, vendor to quote for the following under One-Time Hardware cost for weighing machine(s) connectivity, • Bundle price for provisioning of hardware (card readers plus cables), including setup, maintenance, and replacement (if required) for 8 years; and to replace Card Reader including accessories on the 5th year (preventive maintenance).		
• Patient cards are essential for RPOC system to function. • As such, Vendor to quote the following under One-Time Hardware cost for patient cards, • Total price for provisioning of patient cards to support 6 patient cards per machine (ie. 6 x No. of machines as total). • Note: If a dialysis centre is informed to have night shift, NKF will request separately.		

Renal Point-Of-Care (RPOC) system requirements	Comply Yes/No	Remarks
• The system must be configurable to allow NKF to customize its own checklists, pre and post dialysis assessments with data validation and mandatory field options. Note this also applies to existing vendors that are currently having limitation to apply mandatory field options.		
• The system must support the entry of Nurses notes (both during dialysis and independently) in the form of a clinical diary.		
• The system must allow NKF to maintain and manage its own master data.		
• The reports produced by the RPOC system must be customisable to our requirements.		
• The system must integrate to Active Directory for the ease of user setup.		
• The system database must only be in Windows Authentication mode, Mixed mode is not allowed (audit requirement).		
• The system shall include any other hardware and/or software components including installation, to achieve full network connection e.g. BSL (Bedside Link), LAN cables, and/or any proprietary connectors.		

• The following will be provided by NKF:
  • Servers with OS and MS SQL database only
  • Nursing station PC with OS only
  • Computer on Wheels (COW) laptop with OS only		

• The system must support our corporate device/software, namely:
  • Windows 10 and 11 and Office 365 application
  • Edge (Chromium) Browser
  • Desktop: CPU i5, Windows 10, 8GB/16GB ram, 512 NVMD
  • COW: CPU i5, Windows 10, 8GB/16GB ram, 256 NVMe/512 NVMe		

• The RPOC system must be able to integrate with existing NKF Clinical System through XML data interface bi-directional,
  • Taking patient data from NKF Clinical System to allow ease of patient card setup.
  • Sending treatment plan, treatment data, clinical diary to NKF Clinical System to allow central storage of patient data.
  • New data point from new machine model (e.g. HDF) to be integrated.		

• The RPOC system data sync interval must be customisable to support real-time, hourly, or predefined intervals as required.		
• The communication protocol must be provided to NKF to enable the transfer of the dialysis machine readings and settings to and from NKF's selected RPOC System.		

• Vendor must be able to provide local application and technical support.
  • To state number of RPOC support staffs in Singapore
  • To state number of RPOC support staffs outside Singapore
  • To state SLA for RPOC support		

• Local application and technical support coverage must be as follows: <u>DC Operating Hours</u> Monday to Saturday From: 0700hrs to 2300hrs (except 2 Nocturnal DCs operate through the night)		