

EXPERT ADVICE - ETHICAL TREATMENT



NU Hospitals Rajajinagar & Padmanabhanagar,
Bengaluru are accredited with NABH, NABL & NABH
Nursing Excellence Certification

NU Fertility
FEQH & ISAR
Accredited



Nephro-Uro Fertility Specialists



Economic Times Award
Best Urology Hospital in India



NU (South) Padmanabhanagar



NU Shivamogga



NU HOSPITALS

Urinary, Kidney Care, Fertility & Transplant Center



NU FERTILITY
DISCOVERING PARENTHOOD



KM NU HOSPITALS
EXPERT ADVICE - ETHICAL TREATMENT



NU (West) Rajajinagar



KM NU Ambur

Karnataka: **Bengaluru** - Padmanabhanagar & Rajajinagar, **Shivamogga** | Tamilnadu: **Ambur** | Maldives: **Malé**

Infrastructure, Manpower, Technology & Other Resources - Guidelines

Dr. Prasanna Venkatesh M.K
Sr. Consultant Paediatric Urologist,
Robotic Surgeon & Managing Director

Disclosures - None

Infrastructure

List of Legal requirements

- Registration under Nursing Home Act/ Medical Establishment Act
- Bio-medical Waste Management Licenses
- Authorization of HCO by PCB - MOU with Vendor
- NOC from Fire Department
- Building Completion Licenses
- Lift licenses for each lift
- DG Set Approval for Commissioning

List of Legal requirements

- Medical Gases Licenses/ Explosives Act
- Clinical Establishments Act Registration (if applicable)
- MoU / agreement with outsourced human resource agencies as per labor laws
- Electricity rules
- Provident fund/ESI Act
- GST
- PAN
- No objection certificate under Pollution Control Act (Air/Water)
- Wireless operation certificate from Indian P&T

Dialysis Service Complex

2	Dialysis Service Complex
2.1	Dialysis station shall be designed to provide adequate space area and safe treatment as well as to ensure the privacy of patients. The area shall not be less than 6 square meters to accommodate a bed or chair, the dialysis equipment and emergency equipment if needed.
2.2	Separate hemodialysis area shall be designated solely for use of Hepatitis B patients. Current understanding for Indian set-up is that for HCV infected patients also isolation is required.
2.3	Nursing station shall be located in an area that allows adequate surveillance of patients on hemodialysis machines. It shall also be the releasing area for post-hemodialysis patients.
2.4	There shall be storage area for sterile instrument/supplies and other materials.
2.5	There shall be work area that contains a work counter, hand washing sink, storage cabinets
2.6	There shall be designated water treatment area and toilet facility for the staff/patients with urinal, water closet, and lavatory.
2.7	There shall be a designated area for CAPD training for patient and her/his family member.

Annexure 1

Minimum space for hemodialysis centre shall be as follows

S.no.	Area	Minimum requirement
Registration Area		
1.	Reception Area	30 sq mtrs
2.	Waiting Area	
	Public Utilities	
Treatment Room		
3.	Bed Space	80 sq mtrs
4.	Procedure Room	
5.	Staff Changing Room	
6.	Dirty Utility	
7.	Clean Utility/Store	
8.	Dialyzer cleaning area	
9.	Toilet	
10.	Store Room	
11.	CAPD training area	
12	Store &Pharmacy	20 sq mtrs

Annexure 1

Minimum space for hemodialysis centre shall be as follows

Administrative Department		
13.	Accounts Office	20 sq mtrs
14.	Medical Records	
Water treatment Area		
15	RO Plant	20 sq mtrs
16	Water Pump	
Generator Area		
17.	Generator	5 sq mtrs

Support Services

- Registration/Help desk and Billing
- CSSD / Sterilization Area
- Linen management
- Waste Management Services
- Medical Gas / UPS / Power Back Up
- Ambulance services
- Adequate Storage / IT Support
- Fire Safety Devices



View of naturally lit Dialysis Hall



Isolation Dialysis





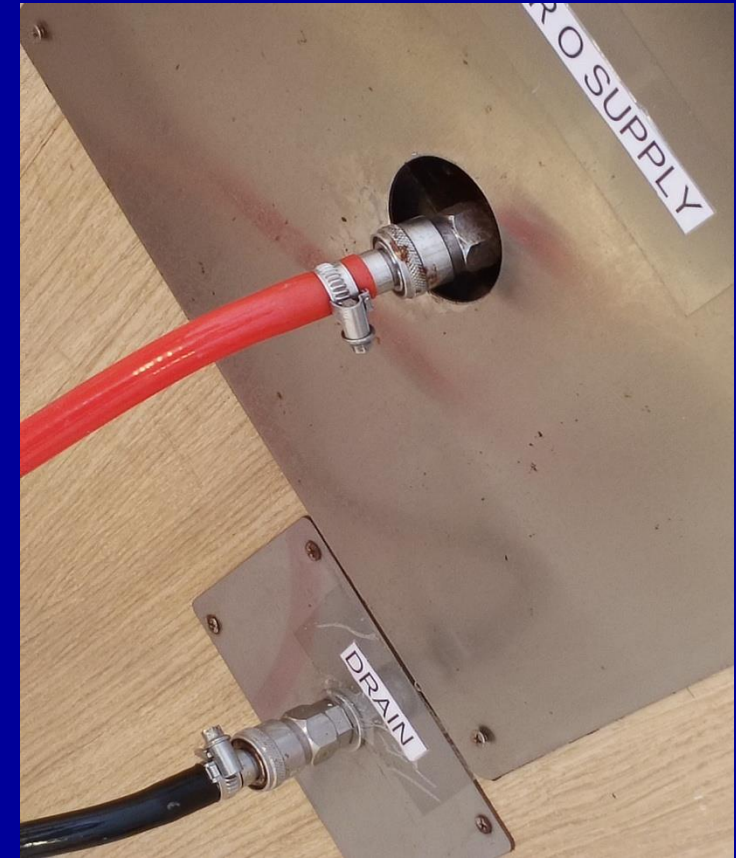




Single Use Dialyzer



View of PEX Pipe (Cross Linked Polyethylene) with quick release connectors fitted.



About PEX Pipe

- Cross-linked polyethylene (PEX) tubing is a form of polyethylene with cross-links. The piping material has a smooth inner surface and is a non carcinogenic material, fit for use to supply water in area where water quality should be top priority, like ICU, Dialysis etc.
- The product offers several advantages over copper, PVC, and galvanized steel plumbing pipes. PEX is flexible and easier to install than a rigid pipe, and it offers high heat-resistance and long-term durability
- For hemodialysis machines port, 316 stainless steel connectors are used which are crimped on the tube and NOT glued like on PVC, In the derivation points, the pipe's inner wall is almost 10 times less rough than PVC pipes, making it difficult for bacteria to stick to the pipe.
- The PEX loops are assembled with pipes of smaller diameter than those of PVC, which guarantee high speed of water circulation at all points, especially in the loop return and is also has high chemical resistance when compared to PVC.

Close view of QRS Connectors & Outlet Drain



Single Room with attached provision for Dialysis



View of RO Plant



View of Sand, Activated Carbon & Resin filters



View of Micron Filters & Booster Pump

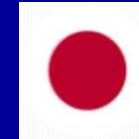


Water Softener Plant





Competition Landscape



KEY FEATURES	RENALYX	FRESENIUS	BAXTER	BBRAUN	NIPRO	NIKKISO
MACHINE TYPE/CONFIG	HD	HD	HD	HD	HD	HD
TELE NEPHROLOGY	BUILT-IN	NA	NA	NA	NA	NA
REMOTE MONITORING	BUILT-IN	NA	NA	NA	NA	NA
AVG COST OF CONSUMABLES	LOW	HIGH	HIGH	HIGH	HIGH	HIGH
PRICING	COMPETITIVE	COMPETITIVE	HIGH	HIGH	COMPETITIVE	HIGH
LIFETIME COSTS	COMPETITIVE	HIGH	MEDIUM	HIGH	HIGH	HIGH



RENALYX - RxT17

Renalyx brings you India's first's hemodialysis machine offering smart dialysis with remote monitoring and clinical connectivity.



Smart hemodialysis machine with remote monitoring capability. Comes with a nephrology information system (NIS). The application includes a clinical renal electronic medical record (EMR) and a complete renal care management system in a dialysis center.



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NU HOSPITALS



NU HOSPITALS
Urinary & Kidney Care - Transplant Center

TREAT- RxT17

- Smartconnected dialysis machine with remote monitoring
- Tele-Nephrology enabled
- Reduce water usage by 80%
- Bundled with NIS software
- Designed for low resource setting (rural/home)
- Easy to use one touch dialysis operation
- Personalized dialysis profile (patent pending)
- UID enabled patient EMR on cloud
- Custom features for specific countries like India, Africa, etc.
- Unique ID (Aadhar in India) enabled patient identity
- Renalyx Rxt17 is CE certified and R&D ISO 13485 certified by TUV



**Nephrology Information System &
Smart Dialysis Machine**

Renalyx – Rx T17 - Technical Specifications

Renalyx

Dimensions	542 X 840 X 1730 mm
Weight	80 Kgs
Power Supply	230 V AC 50Hz adaptable
Electrical Protection Class	Class 1, Type B
Current Consumption	Maximum 7 Amps
Energy Consumption for Rinse, Preparation & Dialysis	2.6 kwh
Energy Consumption for Disinfection	0.9 Kwh
Battery - Sealed and Maintenance free	12V, 7.2 Ah
Blood Flow	60 ml/min to 400 ml/min
Dialysate Flow	300 ml/min, 500 ml/min, 700 ml/min
Trans membrane Pressure	100 mmHg to +500 mmHg
Dialyzer outlet pressure	400 mmHg to + 330 mmHg
Ultrafiltration (UF) Rate	0 – 4,000 mL/ hr
Blood Leak Detector	Optical sensor
Arterial pressure (Postpump)	+ 100 to + 300 mmHg
Venous pressure	+ 50 to + 150 mmHg
Air bubble detector	Detects Air bubble larger than 10 µL
Heparin pump syringe size	10 ml, 20 ml
Connectivity	Wireless, Bluetooth
Tele Nephrology	Remote Monitoring of Dialysis

Manpower Requirements

3	A Qualified Nephrologist, having DM or DNB in nephrology or its equivalent degree shall be the head of the centre. In areas where there is no Qualified Nephrologist, a certified trained dialysis physician (as per local law and regulation) shall be the head of the centre.
3.1	The centre shall have qualified and/or trained medical staff as per the scope of service provided and the medical care shall be provided as per the requirements of professional and regulatory bodies.
3.2	The centre shall have qualified and/or trained nursing staff as per the scope of service provided and the nursing care shall be provided as per the requirements of professional and regulatory bodies.
3.3	The support/paramedical staff shall be qualified and/or trained as per the scope of services provided, and as per the requirement of the respective professional or regulatory bodies.
3.4	For every staff (including contractual staff), there shall be personal record containing the appointment order, documentary evidence of qualification and/or training (and professional registration where applicable).
3.5	Periodic skill enhancement/updation/refresher training shall be provided for all categories of the staff as relevant to their job profile, as prescribed by professional bodies and as per local law/regulations.

Technology

• MASIMO - Patient Safety Net





Qikwell - Check in & Out Appointment System

The screenshot displays the Qikwell web application interface for managing appointments. The top navigation bar includes the Qikwell logo, a search bar, and a user profile icon labeled 'Pavit'. The main section is titled 'Appointments' and shows the date 'Fri - 22 Mar, 2019'. A summary bar at the top of the appointments section displays various counts: 36 APPTS., 5 CHECK IN, 3 CANCELLED, 28 CHECK OUT, 0 NO SHOW, 0 PARALLEL, 0 IN PROCEDURES, and 6 REPORTS COMPLETED.

On the left, there is a 'Filter by:' section with a dropdown menu set to 'NU Hospitals (South...)' and a search bar containing 'Urology'. Below this is a 'Filter' button. A list of checkboxes on the left allows for filtering by status: All (checked), New Patients, Walk-ins, Except Walk-ins, Checked in, Checked out, Parallel Booking, Cancelled, Rejected, No Show, Not Checked in, Not Checked out, and Prepaid.

The main list of appointments includes the following entries:

- Mr. Mr Gangadharan** (Urology, Consultation, Notes:)
ID: 90618
Status: Walkin, Checked in
Time: 4:08 PM, Check in: 4:03 PM, Wait time: 23 MINS
- Mr. Govind Raj** (Urology, Consultation, Notes:)
ID: 121997
Status: New, Walkin, Checked in
Time: 4:14 PM, Check in: 4:06 PM, Wait time: 17 MINS
- Aleem** (Urology, Consultation, Notes:)
ID: 65488
Status: Walkin, Checked in
Time: 4:26 PM, Check in: 4:12 PM, Wait time: 5 MINS
- Mr. Tapan** (Dr. Venkatesh Krishnamoorthy, New Patient Consultation, Notes:)
ID: 121983
Status: New, Checked in

On the right side, the 'Doctors' section lists available doctors and their specialties:

- Radiology** (Rs.750+) - Radiologist - OUT
- Urology** - Urologist - OUT
- Dr. Maneesh Sinha** (Andrologist, Endourologist, Pediatric Urologist, Transplant Surgeon, Uro Oncologist, Urogynaecologist, Urologist)
- Dr. Jayashri** (Rs.750+) - Urogynaecologist - OUT
- Dr. Prasanna Venkatesh. M. K** (Rs.750+) - Pediatric Urologist
- Dr. Kumar Prabhu. M** (Rs.750+) (Andrologist, Endourologist, Pediatric Urologist, Transplant Surgeon, Uro Oncologist)
- Dr. Venkatesh Krishnamoorthy** (Rs.500)

TDMS

Therapy Monitor V2.0												
File Extras Card View Help												
Show All sessions of today Current patient group: All Patients FRESENIUS MEDICAL CARE												
Selected sessions												
	Name	Pre Weight	UF	BCM	Prescription	Download	Progress	Blood Pressure	Post Weight	Finish	Efficiency	Reports
	G, ARUN	48.8/49.5			HD				--/--			
	RAVI, KAPOOR	55.9/53.5			HD				54.4/2.0			
	BABU, RAO	52.3/52.5			HD				51.4/1.4			
	madan kumar...	51.4/48.0			HD				--/--			
	Mallaiah, K	53.4/50.2			HD			15:50	--/--			
	Subramanian, ...	87.0/85.0			HD			16:15	--/--			
	HEBBAR, YAS...	42.0/39.0			HD			16:30	--/--			
	Rajendran, N	64.7/63.5			HD			16:44	--/--			
	KALE, GOWDA	41.3/39.5			HD				--/--			
	NIRMALA, S	51.8/49.0			HD			16:28	--/--			
	Meera, BR	73.5/70.0			HD			17:17	--/--			
	THIMMARAYA...	59.2/58.0			HD				55.7/4.0			
	JAYA, BAHATUR	82.1/79.0			HD				79.3/3.3			
	john, sequeira	84.0/82.5			HD				81.5/3.0			
	HANUMAIHA, T	63.6/60.5			HD				59.5/4.6			
	RAJESH, R	43.2/40.0			HD				41.2/2.5			



CCTV - Hand Hygiene





NEPHROLOGY INFORMATION SYSTEM

On-premise, Cloud-based
Dialysis Center Management
Software

Our Nephrology Information System (NIS) is a comprehensive web-based Dialysis Center Management Software precisely developed to provide you with a one-stop solution to all your clinical & dialysis management needs.

The NIS seamlessly integrates the renal EMR data, real time clinical dialysis sessions, administration and management information. This enables efficient dialysis center management, outstanding quality renal care delivery and a resultant high patient satisfaction score.



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NU HOSPITALS



NU HOSPITALS
Urinary & Kidney Care - Transplant Center



Nephrology Information System

A one stop solution for renal care !



For Admin

Automated patient,
staff & doctor scheduling

Administration dashboard

Customized reports



For Management

Seamless Integration
with HIS or HMS

Billing module

Supply chain integration

Customized reports



For Doctor

Remote monitoring of
dialysis sessions

Clinical data dashboard

Custom Reports

Custom enabled renal
EMR for CKD, Dialysis
& Transplantation



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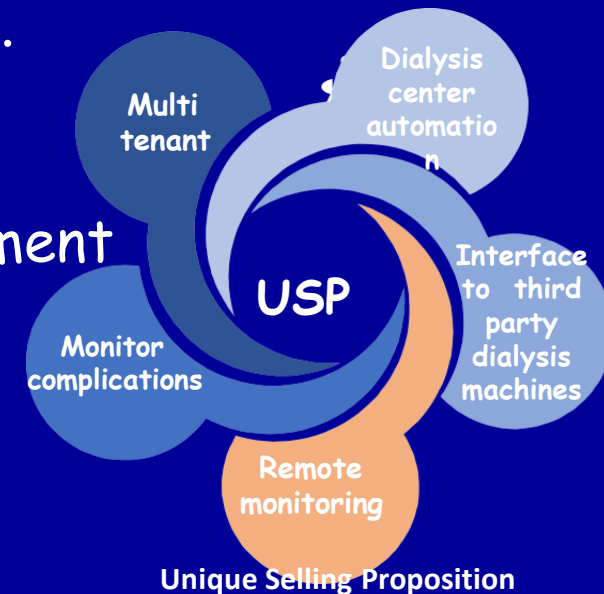
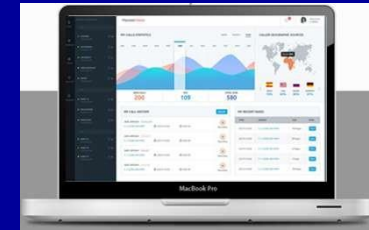


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Nephrology Information System (NIS)

- Web based workflow automation software
- Tele-Nephrology enabled
- EMR, administration and remote monitoring
- Dashboards - admin, technician & nephrologist
- Billing (Tally) & inventory integrated
- HMS modules integration: billing, inventory, etc.
- Works with 3rd party machines
- Clinical analytics
- ML to achieve personalized and precision treatment
- Easy adaptation to Peritoneal Dialysis (PD)
- Preventive & predictive machine maintenance

Nephrology Information System



Renalyx Telenephrology Platform

- RTP is a cloud based comprehensive web management system that automates dialysis workflows, auditing and report generation while monitoring dialysis centre's key performance metrics like Machine utilization, Machine maintenance and Staffing and consumables
- RTP can scale dialysis centers helping administrators to reduce operating costs and seamlessly integrate HIS modules like billing, inventory and e-prescription.
- Remote monitoring with the connected machines.
- Nephrologists can do a tele consultation through this platform.

Prescription Entering Module for Doctors

ⓧ (no subject) - pharmacy@nuhosp
ⓧ hmis.nuhospitals.com/Eximius/Co
+

← → ↺ ⓘ Not secure | hmis.nuhospitals.com/Eximius/Consulting/Consulting_WB.aspx#
☆ T ⋮

Prescription

PRN : 71658 Mr. ASHWATNARAYANA P N
Age/Sex: 81Yrs/Male
Visit: OP/59 Dt. 28/03/2019 10:19
Dr. Ramakrishnan S

Prescribed from NU HOSPITALS Approved Close

Add New Drug		Favorite	Past Prescription	Allergies	Product Details	Product Monogram
MOLECULES	BRAND NAME	FREQUENCY	DURATION	ROUTE	INSTRUCTION	STOPQTY
LACTITOL	LOOZ FIBRE 90GM	1 Doser At Nigh	Daily	Oral	Type Instruction	☐ 1
Trimethoprim + Sulphamethoxa	SEPTRAN TAB	0-0-1	Daily	Oral	Type Instruction	☐ 1
Recombinant Human Erythropoi	WEPOX 2000 IU INJ	2000 Units Onci	Till Review	SC	Type Instruction	☐ 1
Ferrous Ascorbate + Folic Acid	OROFER XT TAB	0-1-0	Daily	Oral	Type Instruction	☐ 1
Isosorbide Dinitrate	SORBITRATE 5 Mg TAB	1 Tablet SOS If	SOS	Sublingual	Type Instruction	☐ 1
Trimetazidine Hydrochloride	FLAVEDON MR TAB 35MG	1-0-1	Daily	Oral	Type Instruction	☐ 1
Search Generic Name	Search Brand Name				Type Instruction	☐ 1

Diagnosis: DIABETES MELLITUS - HYPERTENSION - CHRONIC KIDNEY DISEASE - RECURRENT URIANRY TRACT INFECTION - ISCHEMIC HEART DISEASE

Remarks: REVIEW 4 WEEKS LATER
 Save & Approve
Preview

Follow-up After: Week/s

Prescribed elsewhere

Add New Drug		Product Details		Product Monogram			
MOLECULES	BRAND NAME	FREQUENCY	DURATION	ROUTE NAME	INSTRUCTION	STOP	QTY
Clopidogrel,Aspirin	CLOPITAB-A CAP	0-1-0	Daily	Oral	Type Instruction	☐	1
Atorvastatin	TONACT FILM-COATED TAB 40mg	0-0-1	Daily	Oral	Type Instruction	☐	1
Isosorbide Dinitrate,Hydralazine	ISOLAZINE FILM-COATED TAB	1-0-1	Daily	Oral	Type Instruction	☐	1
Search Generic Name	Search Brand Name				Type Instruction	☐	1

Drug Interaction Module

Prescribed from NU HOSPITALS

Approved Close

Add New Drug

MOLECULES

Voglibose

Soluble Insulin

Search Generic Name

Metoprolol Tartrate

Clonidine Hydrochloride

Telmisartan

Diltiazem Hydrochloride

Remarks: INFORM URINE CULTURE
FLUID RESTRICTION

Prescribed elsewhere

Add New Drug

MOLECULES

Search Generic Name

Drug Interaction (21) **Allergy (1)**

- PANTOSEC TAB 40mg (pantoprazole/Systemic) vs LASIX TAB 40mg (furosemide/Systemic)
- METOLAR TAB 50mg (metoprolol tartrate/Systemic) vs DILZEM SR TAB 90mg (diltiazem/Systemic)
- METOLAR TAB 50mg (metoprolol tartrate/Systemic) vs ARKAMIN TAB 100mcg (clonidine hydrochloride/Systemic)
- METOLAR TAB 50mg (metoprolol tartrate/Systemic) vs ARKAMIN TAB 100mcg (clonidine hydrochloride/Topical)
- HUMAN MIXTARD SUSP FOR INJ 40IU/1mL (insulin injection, biphasic/Systemic) vs METOLAR TAB 50mg (metoprolol tartrate/Systemic)
- HUMAN MIXTARD SUSP FOR INJ 40IU/1mL (insulin injection, biphasic/Systemic) vs ARKAMIN TAB 100mcg (clonidine hydrochloride/Systemic)
- HUMAN MIXTARD SUSP FOR INJ 40IU/1mL (insulin injection, biphasic/Systemic) vs ARKAMIN TAB 100mcg (clonidine hydrochloride/Topical)

REMARKS

Override and Approve Override and Save Print Interaction Back

Product Monogram

STOPQTY

☐	1
☐	1
☐	1
☐	1
☐	1
☐	1

Save Print

Product Monogram

STOP	QTY
☐	1

Known Allergy Module

Prescribed from NU HOSPITALS Approved Close

Add New Drug

MOLECULES

- Voglibose
- Soluble Insulin
-
- Metoprolol Tartrate
- Clonidine Hydrochloride
- Telmisartan
- Diltiazem Hydrochloride

Remarks: INFORM URINE CULTURE
FLUID RESTRICTION

Prescribed elsewhere

Add New Drug

MOLECULES

Drug Interaction (21) Allergy (1)

▼ Patient may be allergic to the prescribing item, TELMA TAB 80mg.

Allergy history:
The patient has a known history of allergic reaction to Molecule, **enalapril**.
TELMA TAB 80mg contains **telmisartan**, which is cross-sensitive to **enalapril**.

REMARKS

Override and Approve Override and Save Print Interaction Back

Product Monogram

STOP	QTY
☐	1
☐	1
☐	1
☐	1
☐	1
☐	1
☐	1

Save Preview

Product Monogram

STOP	QTY
☐	1

PHARMACY - PRESCRIPTION MODULE

DOB/Age : 01-JAN-38 / 81 Yrs Sex : Male Date : 28-MAR-2019

Rx.

	Frequency	Duration	Route
1) CLOPITAB-A CAP(clopidogrel,aspirin)	0-1-0	Daily	Oral
2) FLAVEDON MR TAB 35MG(Trimetazidine hydrochloride)	1-0-1	Daily	Oral
3) HUMAN MIXTARD 30/70 INJ(Biphasic Isophane Insulin)	0-0-16 units	Daily	SC
Remark:-30 minutes before food			
4) HUMAN MIXTARD 50/50 INJ(Biphasic Isophane Insulin)	32 units-0-0	Daily	SC
Remark:-30 minutes before food			
5) ISOLAZINE FILM-COATED TAB(isosorbide dinitrate,hydralazine hydrochloride)	1-0-1	Daily	Oral
6) LASIX 40 MG TAB(Frusemide)	1 tablet in morning once in 3 days	Till Review	Oral
7) LOOZ FIBRE 90GM(LACTITOL)	1 doser at night	Daily	Oral
8) OROFER XT TAB(Ferrous ascorbate + Folic acid)	0-1-0	Daily	Oral
9) RANTAC 150 MG TAB(Ranitidine hydrochloride)	1-0-0	Daily	Oral
10) ROLITEN OD 4 MG CAP(Tolterodine tartrate Extended Release)	0-0-1	Daily	Oral
11) SEPTRAN TAB(Trimethoprim + Sulphamethoxazole)	0-0-1	Daily	Oral
12) SHELICAL 500 MG TAB(Calcium carbonate + Vitamin D3)	1-0-0	Daily	Oral
13) SORBITRATE 5 mg TAB(Isosorbide dinitrate)	1 tablet SOS if there is chest discomfort	SOS	sublingual
14) TONACT FILM-COATED TAB 40mg(atorvastatin)	0-0-1	Daily	Oral
15) WEPOX 2000 IU INJ(Recombinant Human Erythropoietin alpha)	2000 units once in 2 weeks	Till Review	SC

Morning	Afternoon	Night
1. FLAVEDON MR TAB 35MG - 1 2. HUMAN MIXTARD 50/50 INJ - 32 units 3. ISOLAZINE FILM-COATED TAB - 1 4. RANTAC 150 MG TAB - 1 5. SHELICAL 500 MG TAB - 1	1. CLOPITAB-A CAP - 1 2. OROFER XT TAB - 1	1. FLAVEDON MR TAB 35MG - 1 2. HUMAN MIXTARD 30/70 INJ - 16 units 3. ISOLAZINE FILM-COATED TAB - 1 4. ROLITEN OD 4 MG CAP - 1 5. SEPTRAN TAB - 1 6. TONACT FILM-COATED TAB 40mg - 1

1. LASIX 40 MG TAB - 1 tablet in morning once in 3 days
2. LOOZ FIBRE 90GM - 1 doser at night
3. SORBITRATE 5 mg TAB - 1 tablet SOS if there is chest discomfort
4. WEPOX 2000 IU INJ - 2000 units once in 2 weeks

Diagnosis:

DIABETES MELLITUS - HYPERTENSION - CHRONIC KIDNEY DISEASE - RECURRENT URIANRY TRACT INFECTION - ISCHEMIC HEART DISEASE

Remarks:

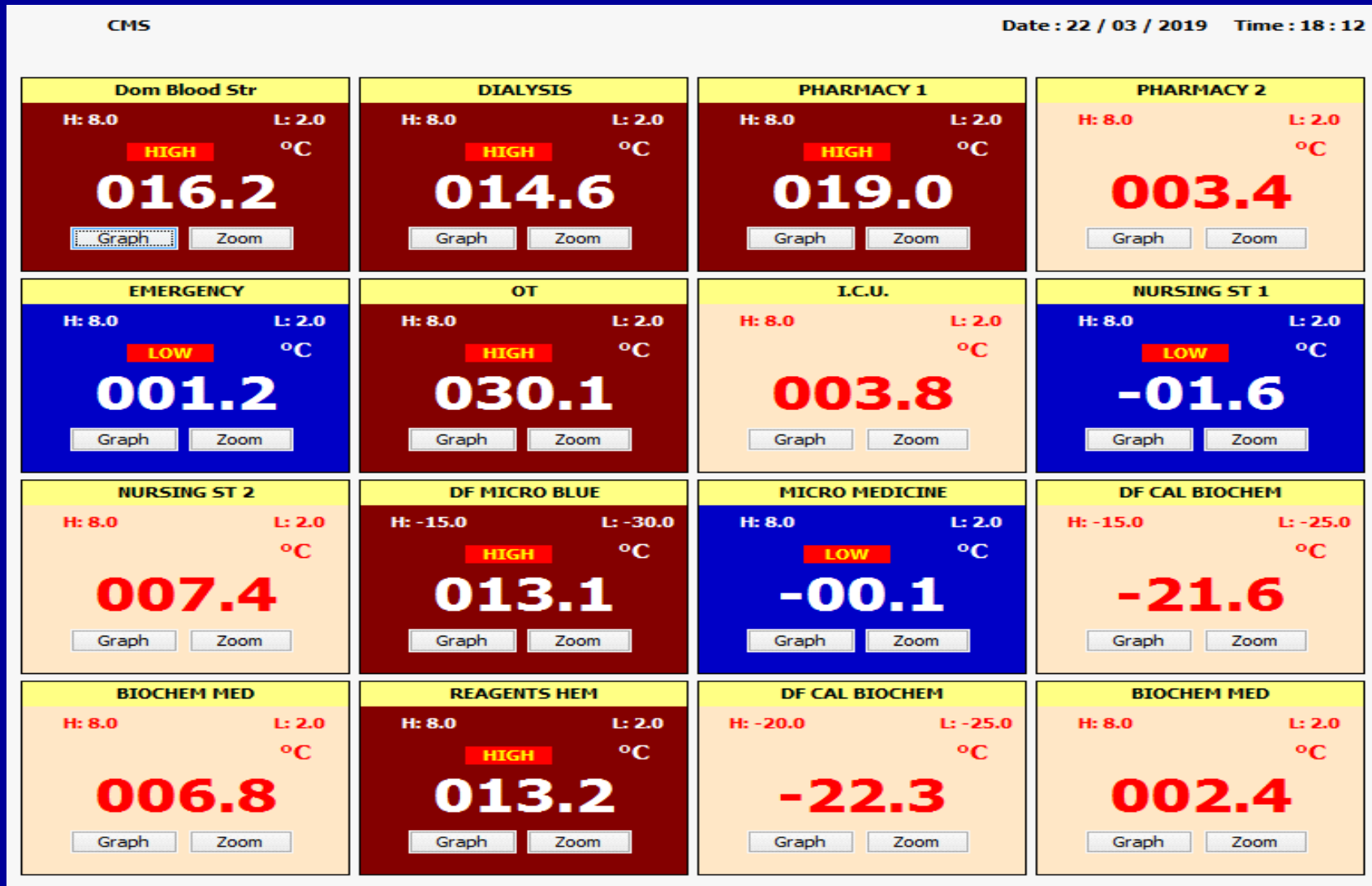
REVIEW 4 WEEKS LATER

Follow-up after:

4-Week/s

Allergies

CMS (Central Monitor System)



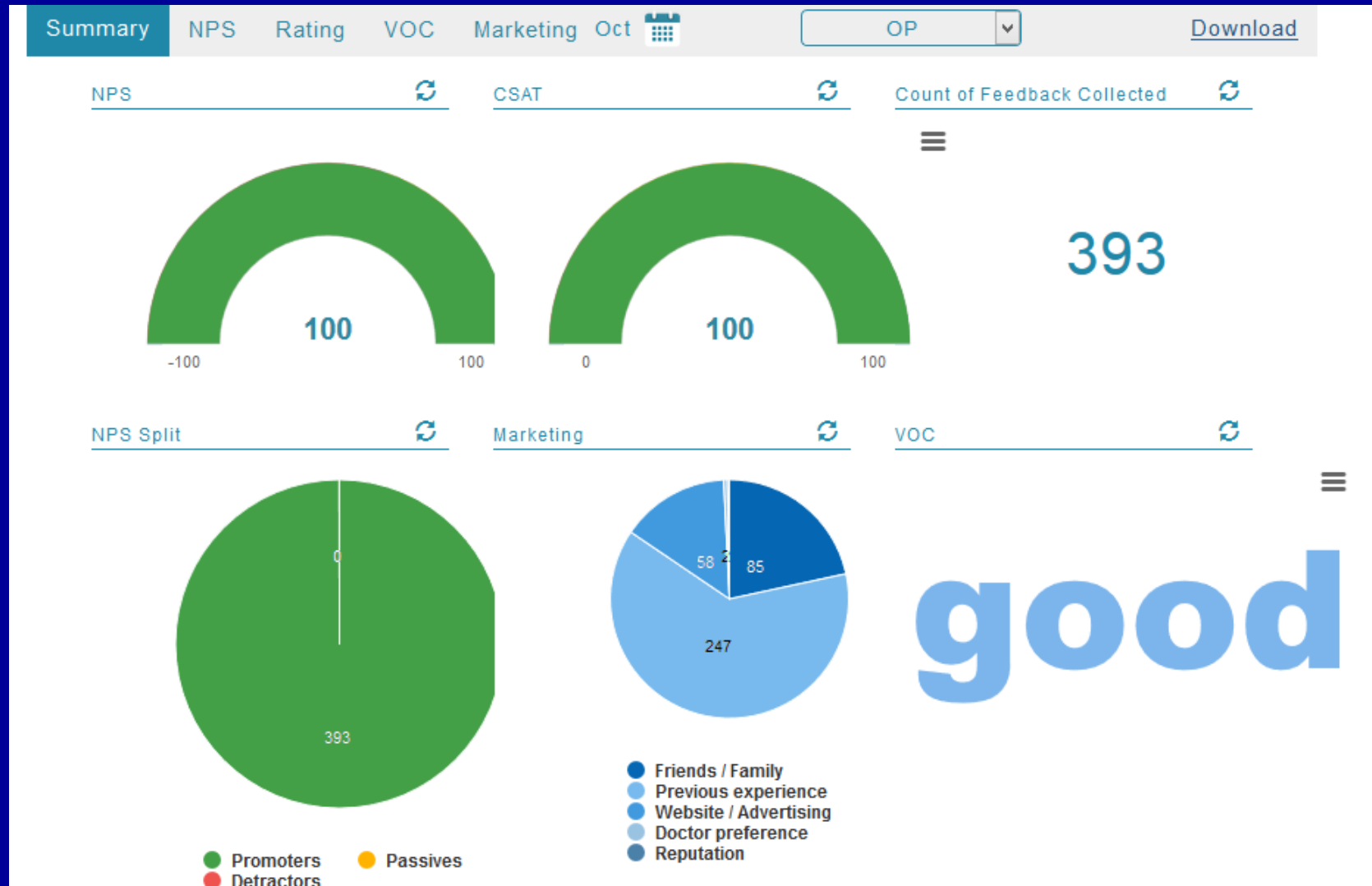
Google Calendar

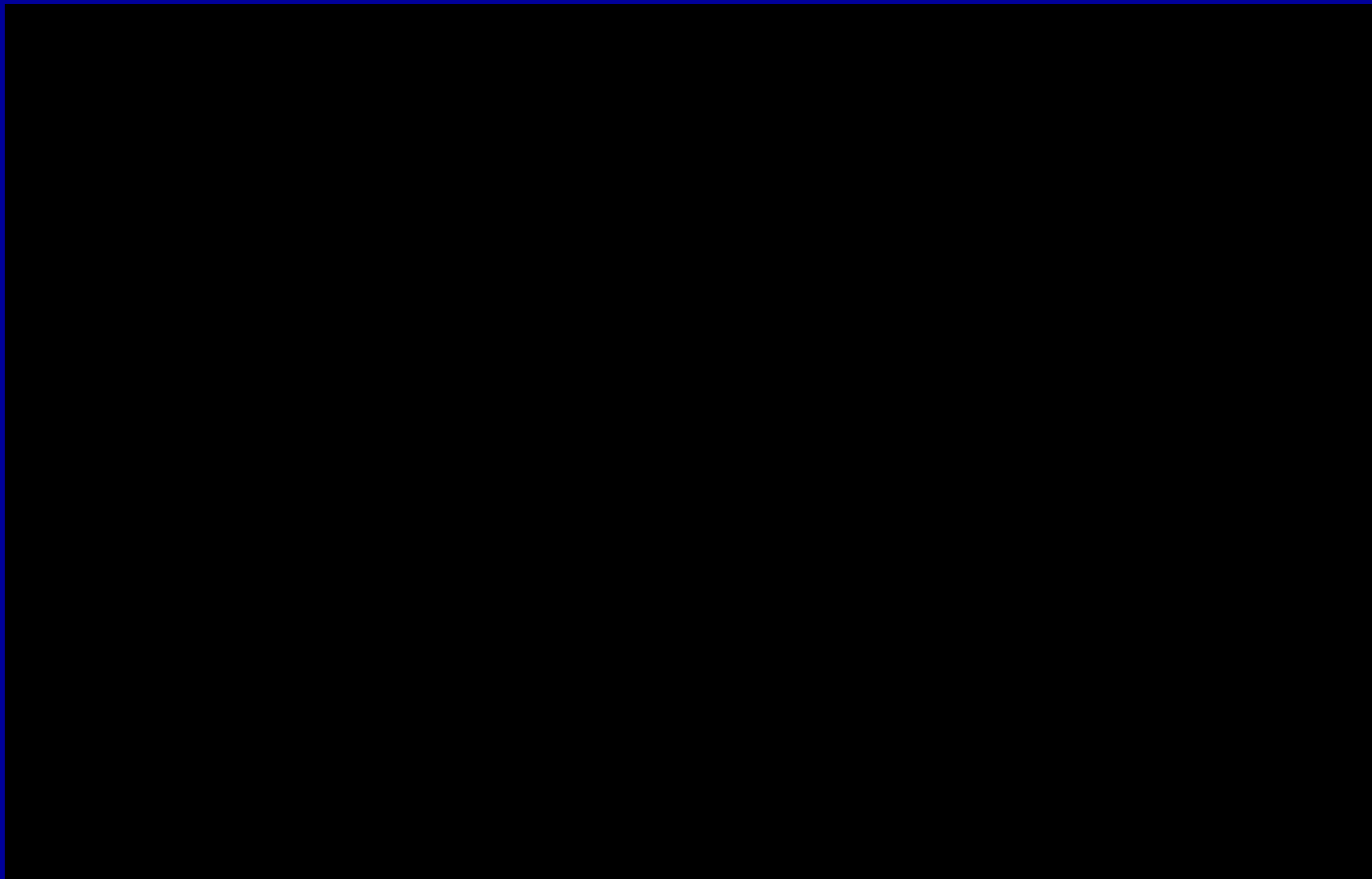
Programmes and schedules are updated in Google calendar throughout the hospital to function effectively (AMC, PMC, schedule of the meetings etc)

The screenshot displays the Google Calendar interface for April 2019. The main calendar grid shows events for each day of the month. The left sidebar includes a 'Create' button, a monthly calendar overview, and a list of 'My calendars' with checkboxes for 'Asma Admin', 'Birthdays', 'PARAMEDICAL STUDENT...', 'RAGHAV BIOMEDICALS M...', 'Reminders', and 'Tasks'. The top navigation bar shows 'Calendar', 'Today', navigation arrows, the month 'April 2019', search, settings, and a 'Month' view selector. The NU HOSPITALS logo is in the top right corner.

MON Apr 1	TUE 2	WED 3	THU 4	FRI 5
10:30am AMBULANCE - MARUTI VAN-INSURANCE Manage Engine Perpetual License, NU Hospital 10:30am Calibration Certificate for Edvego Dialysis Machine 77 more	43 more	CCTV MONITORING 44 more	CCTV MONITORING 45 more	CCTV MONITORING 50 more
8	9	10	11	12
10:30am AMBULANCE - MARUTI VAN-INSURANCE Manage Engine Perpetual License, NU Hospital 10am I-MATIC SOLUTIONS CCTV SURVEILLANCE AMC 43 more	37 more	39 more	34 more	37 more
15	16	17	18	19
10:30am AMBULANCE - MARUTI VAN-INSURANCE Manage Engine Perpetual License, NU Hospital 12:30pm AMC FOR REPROCESSING MACHINE INSTALLED AT DIALYSIS 42 more	36 more	34 more	34 more	37 more
22	23	24	25	26
10:30am AMBULANCE - MARUTI VAN-INSURANCE Manage Engine Perpetual License, NU Hospital 10:30am Dr.LALPATH LABS (P) LTD AGREEMENT 41 more	35 more	CCTV MONITORING 36 more	CCTV MONITORING 38 more	CCTV MONITORING 37 more
29	30	May 1	2	3
10:30am AMBULANCE - MARUTI VAN-INSURANCE Manage Engine Perpetual License, NU Hospital 10am AMC/CMC FOR MOBILE X-RAY- ALLENGERS - RADIOLOGY 38 more	34 more	70 more	CCTV MONITORING 51 more	CCTV MONITORING 48 more

Treat Well- Patients Satisfaction Analysis





Technological Advances in an HD set up

- Single use disposable Dialyzers
- TDMS - Therapy Data Management Systems
- Masimo - Patient care systems
- Online applications Control and treatment patterns
- Renalyx TeleNephrology software

Next Gen Dialysis start-ups Globally



Quanta, UK based company founded in 2008 making advanced home HD machine has raised \$108.3 million in funding over 4 rounds. Latest fund raise was July 2019 for \$48 million - *Machine NOT available in the market*



Outset, US based company founded in 2003 has raised a total of \$373.3 million in funding over 4 rounds. Latest fund raise was on Aug 28, 2018 - *Machine NOT available in the market*



AWAK, a Singapore based company develops wearable dialysis machine has raised a total of \$17.2 million in funding 1 round. Latest fund raise was on Dec 1, 2016 - *Machine NOT available in the market*



NxStage, US based company founded in 1998 raised \$55 million making home dialysis machine was acquire by Fresenius for \$2 billion on Aug 7, 2017 - *First home haemodialysis machine in the market*



Gambro, Swedish company founded in 1964 was acquired by Baxter for \$2.9 billion on Sep 9, 2013



CVS Health, an American retail pharmacy and healthcare company with revenue of \$195 billion started clinical trials of Home dialysis machine in July 2019 by getting dialysis machine developed by DEKA an R&D services company - *Machine NOT available in the market*



Medtronic, Bayer and many more players..... developing dialysis machine - *NOT Successful*



Thank You

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Renalyx Hemodialysis Machine

<https://youtu.be/odH5Ff6K9Lw>

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<https://www.youtube.com/watch?v=odH5Ff6K9Lw>