

**DEPARTMENT OF UROLOGY  
AND RENAL  
TRANSPLANTATION**

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## History

- A 19 yr old female, student of Engineering referred with ESRD for renal transplantation from Kareemnagar.
- Investigated for loss of appetite, breathlessness on exertion and fatigue
- Menstrual history-normal
- HT,not diabetic
- No H/o recurrent UTI in the childhood(VUR)
- No family history of RF

## Gen/Phy.examination

- Thin built,anemic,no jaundice
- Ht:5 feet,wt.37kgs.
- Otherwise unremarkable
- Rt.jugular cath.present
- Mother-donor

Name	HLA Phenotypes (class I)							
	A Locus		B Locus		C Locus		Others	
K. Sreeja	3	11	35	--	Cw4	--	Bw4	Bw6
K. Sree Lakshmi	11	33	35	--	Cw4	Cw7	Bw4	Bw6

Date: 29/12/201 HLA 50% match

**LYMPHOCYTE CROSS MATCH TEST:** -Cross matching of patient serum ;  
**NEGATIVE** with donors lymphocytes (% of lysed cells **3%** Score **1**)

**Basic Renal Disease:** Chronic glomerulo nephritis.

**USG:** - Rt Kidney 44 x 22mm.

Lt Kidney 51 x 31mm.

Bilateral small kidneys with grade –III Renal parenchymal changes.

Bilateral mild to moderate pleural effusions.

Mild to moderate ascites.

**MDCT SCAN:-** Right kidney: 3.8cm (19/12/2017)  
Left kidney: 4.4cm  
Bilateral small kidneys.  
Mild ascites.

**Vascular Access:** Jugular,

**MCUG:-** W N L

**GFR:-** 11.56ml/min.

**Urine Out put:-** AROUND 300 ML

**HB Vaccine:-** 1 st dose  
2 nd dose

**Viral markers:** HIV, HBS AG, HCV --Negative.

**20/12/2017**

**Anti CMV- IgM Antibodies :-** Nonreactive [0.14], NA.

**Anti CMV- IgG Antibodies :-** Reactive [150.7], NA.

**25/12/2017**

**EBV (VCA) IgG:-** 77.50 {<8.0 U/mL}

**EBV (VCA) IgM:-** 1.64 {<8.0 U/MI}

**BLEEDING & CLOTTING TIME:**

Bleeding Time - 2 MINUTS 00 SECONDS

Clotting Time - 4 MINUTS 00 SECONDS

**PROTHROMBIN TIME / PT :-** 15 SECONDS

INR :- 1.11

**CBP (10/1/2018)**

HAEMOGLOBIN 7.7 gm% 12.0 - 15.0gr

TOTAL COUNT 9,100/cu.mm 4000 - 10000

NEUTROPHILS 65% 40 - 80 %

LYMPHOCYTES	:	27 %	20 - 40 %
EOSINOPHILS	:	04 %	1 - 6 %
MONOCYTES	:	04 %	2 - 10%
BASOPHILS	:	0 %	0 - 2 %
PLATELET COUNT	:	2.15 Lakhs / Cu.mm	1.5 – 4.1 Lakhs / Cu.mm
SMEAR	:	NORMOCYTIC/ NORMOCHROMIC ANEMIA.	
<b>FBS :-</b>	:	93 mg/dl	70 - 110mg.dl

### **LIPID PROFILE (18/12/2017)**

Total Cholesterol	:	204 mg/dl	130 - 250 mg/dl
Triglycerides	:	98 mg/dl	30 -150 mg/dl
HDL Cholesterol	:	46.3 mg/dl	30 - 70 mg/dl
LDL Cholesterol	:	124.7 mg/dl	50 - 160 mg/dl
VLDL	:	19.6 mg/dl	12 - 40 mg/dl

### **LFT**

Total Bilurubin	:	0.74 mg/dl	0.2 - 1.0 mg/dl
Direct Bilurubin	:	0.28 mg/dl	0.0 - 0.3 mg/dl
SGOT (AST)	:	30 IU/L	Male : upto 37, Female:upto30
SGPT (ALT)	:	24 IU/L	Male : upto 40, Female:upto30
ALKALINE PHOSPHATE	:	311 IU/L	upto :280
<b>TOTAL PROTEINS</b>	:	<b>5.6 gm/dl</b>	<b>6.4 - 8.3 gm/dl</b>
ALBUMIN	:	3.4 gm/dl	3.8 - 5.4 gm/dl

## RFT

UREA	: 37.4 mg/dl	10 - 50 mg/dl
CREATININE	: 4.0 mg/dl	0.6 - 1.5 mg/dl
URIC ACID	: 4.4 mg/dl	2.4 - 5.7 mg/dl
CALCIUM	: 9.1 mg/dl	8.5 - 11.0 mg/dl
PHOSPHORUS	: 3.3 mg/dl	2.4 - 5.5 mg/dl
SODIUM	: 141 mmol/L	135 - 155 mmol/L
POTASSIUM	: 2.9 mmol/L	3.5 - 5.5 mmol/L
CHLORIDE	: 101 mmol/L	98 - 109 mmol/L



## CUE

COLOUR : PALE YELLOW  
APPEARANCE : CLEAR  
REACTION : ACIDIC  
SP. GRAVITY : 1.010  
ALBUMIN : +++  
SUGAR : NIL  
BILE SALTS : ABSENT  
BILE PIGMENTS : NEGATIVE  
PUS CELLS : 5 - 6  
EPITHELIAL CELLS : 4 - 5  
RED BLOOD CELLS : NIL  
CRYSTALS : NIL  
CASTS : NIL

AMORPHOUS DEPOSITS : ABSENT

OTHERS : NIL

**T3 , T4 , TSH (19/12/2017)**

T3	: 0.80 ng /ml #	0.87 -- 1.87 ng /ml #
T4	: 10.54 micro g/dl	6.32 - 12.23 micro g/dl
TSH	: 3.18 micro g/dl	0.34 - 5.36 micro g/dl

HbsAg,HCV,HIV:Non Reactive

**IRON STUDIES (23/12/2017)**

2D ECHO:- wnl

**CKMB ( 21/12/2017)**

CK – MB	: 12 U/L	0 - 24 U/L
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**TROPONIN (21/12/2017)**

TROPONIN-1 :NEGATIVE

**Treatment given:**

- 1. INJ. Magnex Forte 1.5 gm IV BD (fever)**
- 2. T. Lasix 60 mg BD**
- 3. T. Zytamin 2.5 mg OD**
- 4. Arkamine 0.1 mg BD**
- 5. Shelkal 500 mg OD**
- 6. INJ. Erythropoietin 4000 D after every dialysis.**
- 7. T. Nicardia Retard 10 mg TiD**
- 8. Salt intake <2 gm/day**

**psychiatrist Consult:- NO ISSUES**

**Dental Consult:- NO ISSUES**

**UPPER GI ENDOSCOPY:- Normal**

**Cardiology Consult**

**:- FIT FOR SURGERY**

**pelvic Doppler**

**:- \*Normal study of bilateral iliac vessels.  
For clinical correlation.**

**Anaesthesia Fitness** :- **NO ISSUES**

**Gynaecology consult** :- **NO ISSUES**

**Legal Consult** :- **NO ISSUES**

## Donor-mother

- Age-43 yrs
- **WEIGHT** : 90 Kg                      **HEIGHT** : 155 cm  
**BMI** : 40
- NO HISTORY OF DIABETIES ,HYPERTENSION,  
CARDIAC DISEASE
- NO PREVIOUS SURGICAL HISTORTY
- NOT USING ANY MEDICATIONS
- **BLOOD GROUP:** O POSITIVE (+VE)

**USG :-** Rt Kidney 92 x 44mm.  
Lt Kidney 87 x 37mm.

Mild to moderate fatty liver.  
Normal appearance of kidneys.

**Ct Renal Angio Report :-**

BILATERAL SINGLE RENAL ARTERIES ARE NORMAL IN CALIBRE.  
Bilateral single renal veins.  
Both kidneys are normal in size and attenuation.  
Right simple ovarian cyst.

**GFR** :- Total GFR (ml/min): 85.01

Left kidney : Adequate renal cortical function and unobstructed drainage.  
Right kidney : Adequate renal cortical function and unobstructed drainage.

**HB Vaccine** :-

**Viral markers** :- HIV, HBS AG, HCV --Negative.

**20/12/2017**

**Anti CMV- IgM Antibodies :-** Nonreactive [0.48]

**Anti CMV- IgG Antibodies :-** Reactive [>250.0]

**25/12/2017**

**EBV (VCA) IgG** : 48.87 (<8.0 U/MI)

**EBV (VCA) IgM** : 2.61 (<8.0 U/MI)

**Latest Reports:-** LFT, CUE, RFT, HB, Urea, CMV, CBP

**BLEEDING & CLOTTING TIME:**

Bleeding Time - 2 MINUTS 00 SECONDS

Clotting Time - 4 MINUTS 00 SECONDS

**CBP (18/12/2018)**

HAEMOGLOBIN	: 10.9 gm%	12.0 - 15.0gr
TOTAL COUNT	: 9,400/cu.mm	4000 - 10000
NEUTROPHILS	: 62%	40 - 80 %
LYMPHOCYTES	: 32 %	20 - 40 %
EOSINOPHILS	: 03 %	1 -6 %
MONOCYTES	: 03 %	2 - 10%
EOSINOPHILS	: 03 %	1 -6 %

**Latest Reports:- LFT, CUE, RFT,HB, Urea, CMV, CBP**

**BLEEDING & CLOTTING TIME:**

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TOTAL COUNT	: 9,400/cu.mm	4000	- 10000
NEUTROPHILS	: 62%	40	- 80 %
LYMPHOCYTES	: 32 %	20	- 40 %
EOSINOPHILS	: 03 %	1	- 6 %
MONOCYTES	: 03 %	2	- 10%
EOSINOPHILS	: 03 %	1	- 6 %
MONOCYTES	: 03 %	2	- 10%
BASOPHILS	; 0 %	0	- 2 %
PLATELET COUNT	: 4.38 Lakhs / Cu.mm		1.5 – 4.1 Lakhs / Cu.mm
SMEAR	: NORMOCYTIC/ NORMOCHROMIC ANEMIA.		
FBS :-	: 99 mg/dl	70	- 110mg.dl



## LIPID PROFILE (18/12/2017)

Total Cholesterol	:	215 mg/dl	130 - 250 mg/dl
Triglycerides	:	98 mg/dl	30 - 150 mg/dl
HDL Cholesterol	:	48.8 mg/dl	30 - 70 mg/dl
LDL Cholesterol	:	124.2 mg/dl	50 - 160 mg/dl
VLDL	:	19.6 mg/dl	12 - 40 mg/dl

### LFT

Total Bilurubin	:	0.92 mg/dl	0.2 - 1.0 mg/dl
Direct Bilurubin	:	0.47 mg/dl	0.0 - 0.3 mg/dl
SGOT (AST)	:	24 IU/L	Male : upto 37, Female:upto30
SGPT (ALT)	:	16 IU/L	Male : upto 40, Female:upto30
ALKALINE PHOSPHATE	:	160 IU/L	upto :280
TOTAL PROTEINS	:	7.1 gm/dl	6.4 - 8.3 gm/dl
ALBUMIN	:	4.2 gm/dl	3.8 - 5.4 gm/dl
A/G RATIO	:	1.45	

### RFT

UREA	:	12 mg/dl	10 - 50 mg/dl
CREATININE	:	0.7 mg/dl	0.6 - 1.5 mg/dl
URIC ACID	:	4.7 mg/dl	2.4 - 5.7 mg/dl
CALCIUM	:	10.9 mg/dl	8.5 - 11.0 mg/dl
PHOSPHORUS	:	3.2 mg/dl	2.4 - 5.5 mg/dl

SODIUM	:	147 mmol/L	135 - 155 mmol/L
POTASSIUM	:	4.7 mmol/L	3.5 - 5.5 mmol/L
CHLORIDE	:	108 mmol/L	98 - 109 mmol/L

### CUE

COLOUR	:	PALE YELLOW
APPEARANCE	:	CLEAR
REACTION	:	ACIDIC
SP. GRAVITY	:	1.010
ALBUMIN	:	NIL
SUGAR	:	NIL
BILE SALTS	:	ABSENT
BILE PIGMENTS	:	NEGATIVE
PUS CELLS	:	2 - 4
EPITHELIAL CELLS	:	2 - 3
RED BLOOD CELLS	:	NIL
CRYSTALS	:	NIL
CASTS	:	NIL

AMORPHOUS DEPOSITS : ABSENT

OTHERS : NIL

**T3, T4, TSH (19/12/2017)**

T3	: 0.77 ng/ml	0.87 -- 1.87 ng/ml
T4	: 11.15 micro g/dl	6.32 - 12.23 micro g/dl
TSH	: 2.98 micro g/dl	0.34 - 5.36 micro g/dl

HbsAg,HCV,HIV : Non Reactive.

**URINARY PROTEINS (24 HOURS)**

24 HOURS URINARY PROTEIN : 75 mg/day. (< 150mg/day)

24 HOURS URINE VOLUME : 2,200 ml.

**24 HOURS URINE PROTEIN/ CREATININE RATIO**

24 HOURS URINE PROTEIN : 75 mg/day. (< 150mg/day)

24 HOURS URINE CREATININE : 2.90 g/day (1 – 3 gm/day)

RATIO : 25.8

URINE VOLUME : 2,200 ml

**LMP :- 08/11/2018**

**Present Treatment : NOT ON ANY MEDICATIONS-**

**Urology Consult :- NO ISSUES**

**psychiatrist Consult : - NO ISSUES**

**Cardiology Consult :-**

**Anaesthesia Fitness :-**

**Gynaecology consult :-**

**Legal Consult : -**

# Treatment: Renal Transplantation



## Post surgery investigations (sreeja)

### CBP (18/12/2018)

HAEMOGLOBIN	:	9.8 gm%	
TOTAL COUNT	:	14,000/cu.mm	4000 - 10000
NEUTROPHILS	:	87%	40 - 80 %
LYMPHOCYTES	:	10 %	20 - 40 %
EOSINOPHILS	:	01 %	1 - 6 %
MONOCYTES	:	02 %	2 - 10%
BASOPHILS	;	0 %	0 - 2 %
PLATELET COUNT	:	3.60 Lakhs / Cu.mm	1.5 – 4.1 Lakhs / Cu.mm
SMEAR	:	NORMOCYTIC/ NORMOCHROMIC ANEMIA.	

## RFT

<b>UREA</b>	<b>: 31 mg/dl</b>	<b>10 - 50 mg/dl</b>
<b>CREATININE</b>	<b>: 0.5 mg/dl</b>	<b>0.6 - 1.5 mg/dl</b>
<b>URIC ACID</b>	<b>: 3.8 mg/dl</b>	<b>2.4 - 5.7 mg/dl</b>
<b>CALCIUM</b>	<b>: 9.9 mg/dl</b>	<b>8.5 - 11.0 mg/dl</b>
<b>PHOSPHORUS</b>	<b>: 1.5 mg/dl</b>	<b>2.4 - 5.5 mg/dl</b>
<b>SODIUM</b>	<b>: 138 mmol/L</b>	<b>135 - 155 mmol/L</b>
<b>POTASSIUM</b>	<b>: 5.2 mmol/L</b>	<b>3.5 - 5.5 mmol/L</b>
<b>CHLORIDE</b>	<b>: 102 mmol/L</b>	<b>98 - 109 mmol/L</b>

## LFT

Total Bilurubin	: 0.76 mg/dl	0.2 - 1.0 mg/dl
Direct Bilurubin	: 0.43 mg/dl	0.0 - 0.3 mg/dl
SGOT (AST)	: 14 IU/L	Male : upto 37, Female:upto30
SGPT (ALT)	: 65 IU/L	Male : upto 40, Female:upto30
ALKALINE PHOSPHATE	: 140 IU/L	upto :280
<b>TOTAL PROTEINS</b>	: <b>6.2 gm/dl</b>	<b>6.4 - 8.3 gm/dl</b>
ALBUMIN	: 3.9 gm/dl	3.8 - 5.4 gm/dl
A/G RATIO	: 1.7	

## CUE

COLOUR	: PALE YELLOW
APPEARANCE	: CLEAR
REACTION	: ACIDIC
SP. GRAVITY	: 1.010
ALBUMIN	: +
SUGAR	: NIL
BILE SALTS	: ABSENT
BILE PIGMENTS	: NEGATIVE
PUS CELLS	: 2 - 3
EPITHELIAL CELLS	: 3 - 4
RED BLOOD CELLS	: NIL
CRYSTALS	: NIL
CASTS	: NIL



AMORPHOUS DEPOSITS : ABSENT

OTHERS : NIL