

SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES AND TECHNOLOGY

Thiruvananthapuram – 695011, India



WORK RECORD

Name : DR MRITHYUNJAYA V KALMATH

Course : MCh

Discipline : CARDIOVASCULAR AND THORACIC SURGERY

Year of Study : Jan 2012 – Dec 2014

CERTIFICATE

I hereby certify that I have performed / assisted all the procedures listed in the work record.

Place: Thiruvananthapuram

Signature :

Date: Oct 2014

Name : DR Mrithyunjaya V Kalmath

FORWARDED

The above candidate has satisfactorily carried out the minimum required procedures

Place: Thiruvananthapuram

Signature :

Date: Oct 2014

Name : (Prof. Jayakumar K)

Head of the department

Department of CVTS

SCTIMST, Thiruvananthapuram

PROCEDURES PERFORMED

PROCEDURE	NUMBER OF CASES
MINISTERNOTOMY ASD CLOSURE	1
ASD CLOSURE	6
VSD CLOSURE	1
MVR	1
PE DRAINAGE	3
PD INSERTION	10

PROCEDURES ASSISTED

ADULT CARDIAC SURGERY

PROCEDURE	NUMBER OF CASES
CABG	140
OPCAB	5
CABG + LV PLICATION	7
CABG + LAD / RCA ENDARTERECTOMY	3
CABG + CEA	1
REDO CABG	1
AVR + CABG	7
MVR + CABG	6
DVR + CABG	1
CABG + MV REPAIR	3
LA MYXOMA EXCISION + CABG	1
LA MYXOMA EXCISION	2
SUPRACORONARY ASC AO REPLACEMENT	3
AVR + SC ASC AO REPLACEMENT + CABG	1
MODIFIED BENTALL'S PROCEDURE	8
MODIFIED BENTALL'S PROCEDURE+CABG	1
AVR	24
AVR + MV REPAIR	4
AVR + AORTOPLASTY	2
AVR + CRT	1

PROCEDURES ASSISTED

ADULT CARDIAC SURGERY

PROCEDURE	NUMBER OF CASES
AVR + SAM EXCISION	1
SAM EXCISION	1
SEPTAL MYECTOMY + MVR	1
MVR	26
MVR + TVA	5
MVR + SPLENECTOMY	1
MV REPAIR	8
ASD CLOSURE + MV REPAIR	2
DVR	7
DVR + TVA	4
ASD CLOSURE	4
ASD CLOSURE + TVA	2
THORACOTOMY ASD CLOSURE	1
DOUBLE PATCH REPAIR (SV ASD)	4
WARDEN'S PROCEDURE	1
ASD CLOSURE + LUPV TO LAA ANASTAMOSIS	1

PROCEDURES ASSISTED

CONGENITAL HEART SURGERY

PROCEDURE	NUMBER OF CASES
MINI STERNOTOMY ASD CLOSURE	4
ASD CLOSURE	8
ASD DEVICE RETREVAL	3
DOUBLE PATCH REPAIR (SV ASD)	1
WARDEN'S PROCEDURE	3
ASD CLOSURE + PULMONARY VALVOTOMY + MPA PLASTY	1
ASD CLOSURE + MV REPAIR	1
VSD CLOSURE	17
VSD CLOSURE + AV REPAIR	2
VSD CLOSURE + MV REPAIR	1
ICR (TOF)	14
ICR + PA PLASTY	6
ICR + TV REPAIR	1
ICR (DORV)	1
DOUBLE PATCH REPAIR (CAVCD)	3
ASO	6
ASO + VSD CLOSURE	2
ASO +TAPVC REPAIR	1
SENNING'S PROCEDURE	1
BROM'S AORTOPLASTY	1

PROCEDURES ASSISTED

CONGENITAL HEART SURGERY

PROCEDURE	NUMBER OF CASES
TCPC	5
LCA TRANSLOCATION	1
LCA TRANSLOCATION + KAY'S MV ANNULOPLASTY	1
TAPVC REPAIR	12
TAPVC REPAIR + BT SHUNT	1
TAPVC REPAIR + BDG	1
TAPVC REPAIR + WARDEN'S PROCEDURE	2
COA REPAIR	7
COA REPAIR + PA BAND	1
PA BANDING	7
BDG	7
RMBTS	3
RMBTS + PDA STENT REMOVAL FROM DTA	1
MV REPAIR	1
EXCISION OF SAM	1
ATRIAL SEPTECTOMY	1
PDA LIGATION	2

PROCEDURES ASSISTED
THORACIC AND VASCULAR SURGERY

PROCEDURE	NUMBER OF CASES
LOBECTOMY	1
AORTOBIFEMORAL BYPASS	1
TYPE V - TAAA REPAIR	1
IRAAA	1

MISCELLANEOUS PROCEDURE

PROCEDURE	NUMBER OF CASES
DSC	17
EPICARDIAL PPI LEAD PLACEMENT	3
PE DRAINAGE	5
TRACHEOSTOMY	2
DIAPHRAGMATIC PLICATION	1
EXPL LAPAROTOMY + ILEO COLIC RES + JEJUNO TRANS ANASTAMOSIS	1
EXPL LAPAROTOMY + RESECTION AND END TO END ANASTAMOSIS OF ILEUM	1
PMMC FLAP REPAIR FOR DSWI	1
HOMOGRAFT HARVESTING AND TRIMMING	10
STERNAL WIRE REMOVAL	1
WOUND DEBRIDEMENT AND SUTURING	11
RE EXPLORATIONS FOR BLEEDING	8

PAPER PRESENTATION

1. IACTSCON 2014 - The 60th Annual National Conference of the
Indian Association of Cardiovascular and Thoracic Surgeons

**“MEET THE EXPERTS – CASE SCENARIOS ON SPECTRUM OF
CO EXISTING TRICUSPID VALVE DISEASE”**

2. IACTS MID TERM CME 2014 QUIZ – **2nd PRIZE**

CASES PERFORMED

LIST OF OPEN HEART CASES PERFORMED

S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SUPERVISED BY
1	████	████████████████	5	F	14-Nov-2013	ACHD, OS ASD, NO PAH, GOOD LV, SR	MINI STERNOTOMY + TPP CLOSURE OF OS ASD	DR. SABARINATH MENON
2	████	████████████████	4	M	10-Dec-2013	ACHD, SP VSD, MILD AR, GOOD LV, SR	GP CLOSURE OF SP VSD	DR. SABARINATH MENON
3	████	████	9	M	26-Dec-2013	ACHD, OS ASD, GOOD LV, SR	TPP CLOSURE OF OS ASD	DR. THOMAS MATHEW
4	████	████████████████	10	F	27-Dec-2013	ACHD, OS ASD, GD LV, SR	DIRECT CLOSURE OF OS ASD	DR. SABARINATH MENON
5	████	████████████████	4	M	3-Feb-2014	ACHD, POST ASD, PFO, GD LV, SR	TPP CLOSURE OF POSTERIOR ASD + DIRECT CLOSURE OF PFO	DR. THOMAS MATHEW
6	████	████████████████	15	F	24-Feb-2014	ACHD, OS ASD, MILD PAH, GOOD LV, SR	TPP CLOSURE OF OS ASD	DR. SABARINATH MENON
7	████	████████████████	3	F	27-Mar-2014	ACHD, OS ASD, MILD PAH, GDLV, SR	TPP CLOSURE OF OS ASD	DR. THOMAS MATHEW
8	████	████████████████	28	F	24-Apr-2014	ACHD, OS ASD, MILD PAH, GD LV, SR	DIRECT CLOSURE OF OS ASD	DR. BINEESH KR
9	████	████████████████	25	F	17-Jul-2014	RHD, SEV MS, SEV MR, MILD PAH, GOOD LV, SR	MVR# 25 CHVP + PMLP	DR. VARGHESE T.PANICKER

CASES ASSISTED

S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
1	██████	██████████	51	F	10-Jan-2012	CAD,TVD,GOOD LV,REC NSTEMI, LT SUB CLAVIAN A STENOSIS,B/L CAROTID DISEASE, PVOD, SR,HTN	CABGX5GRAFTS [RSVG-LAD, PRECRUX RCA, D1, OM2, OM3]	DR. PRAVEEN VARMA P.K.
2	██████	██████████	47	M	12-Jan-2012	CAD, OLD IWMI, TVD, MILD MR, SEVERE LV DYSFN, SR, HTN.	CABG X 3 GRAFTS (LIMA-LAD, RSVG-MAJOR OM & RPDA)	DR. PRAVEEN VARMA P.K.
3	██████	██████████	70	M	16-Jan-2012	CAD, TVD, OLD ACS(1987), GOOD LV, SR, B/L SFA OCC	CABGX5 GRAFTS (LIMA-LAD, RSVG-D1, D2, PDA, PLB)	DR. JAYAKUMAR K
4	██████	██████████	49	F	27-Jan-2012	CAD, TVD, OLD AWTMI, SR, DM, DLP	CABG X 3GRAFTS (LIMA-LAD,RSVG-MID RCA,OM1)	DR. PRAVEEN VARMA P.K.
5	██████	██████████	66	M	31-Jan-2012	CAD, LMCA, TVD, GOOD LV, SR, DM, HTN	CABG X 4 GARAFTS (LIMA-LAD, RSVG-MAJ DIAGONAL, TERM OM, PDA)	DR. PRAVEEN VARMA P.K.
6	██████	██████████	65	M	1-Feb-2012	CAD, TVD, MILD LV DYSFN, SR, DM, HTN	CABG X 3 GRAFTS (LIMA-LAD, RSVG-MAJOR OM, PDA) + PDA ENDARTERECTOMY	DR. PRAVEEN VARMA P.K.
7	██████	██████████	53	M	2-Feb-2012	CAD, LMCA, DVD, SEVERE LV DYSFN, SR, HTN	CABG X 3 GRAFTS (LIMA-LAD, RSVG-MAJ OM, RI)	DR. JAYAKUMAR K
8	██████	██████████	63	M	2-Feb-2012	CAD, TVD, OLD IWMI, GOOD LV, SR, DM, DLP	CABG X 4 GRAFTS [LIMA TO LAD, RSVG TO D2, MAJOR OM AND PDA]	DR. JAYAKUMAR K
9	██████	██████████	65	M	3-Feb-2012	CAD, TVD, GOOD LV, SR, DM WITH NEUROPATHY	CABG X 3 GRAFTS (LIMA-LAD, RSVG-D2, PDA)	DR. PRAVEEN VARMA P.K.
10	██████	██████████	56	M	3-Feb-2012	CAD, TVD, SILENT IWMI, MOD-SEV MR, SEV PAH, GOOD LV, SR	MVR#27 SJM + CABG X 3 GRAFTS, (RSVG-MAJ OM, MAJ DIAG, RPDA)	DR. VIVEK V. PILLAI
11	██████	██████████	59	M	6-Feb-2012	CAD, TVD, OLD AWTMI, MOD LV DYSFN, SR, DM, DLP	CABG X 3 GRAFTS (LIMA-LAD, RSVG-OM3, PDA)	DR. PRAVEEN VARMA P.K.
12	██████	██████████	55	M	7-Feb-2012	CAD,TVD,OLD AWTMI,MOD LV DYSFN,SR,DM,HTN	CABG X 3 GRAFTS (LIMA-LAD, RSVG-RI,OM2) + LV PLICATION	DR. PRAVEEN VARMA P.K.

S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
13	██████	██████████ █	66	M	17-Feb-2012	CAD, TVD, GD LV, SR, DM, HTN	CABG X 3 GRAFTS (LIMA-LAD, RSVG-LPLB,RI)	DR. VIVEK V. PILLAI
14	██████	██████████	47	M	22-Feb-2012	ACHD, OS ASD, CAD, TVD, OLD IWMI, FAIR LV, SR, DM, HTN, DLP	CABG X 3 GRAFTS (LIMA-LAD, RSVG-AC MARGINAL-RPDA, TERMINAL OM)	DR. PRAVEEN VARMA P.K.
15	██████	██████████ ██████	69	M	23-Feb-2012	CAD, TVD, OLD ACS (2010,11), GD LV, SR, DM, HTN, DLP	CABG X 4 GRAFTS (LIMA-LAD, RSVG-RI, TERM OM, PDA)	DR. PRAVEEN VARMA P.K.
16	██████	██████████	72	M	27-Feb-2012	CAD, LMCA, TVD, OLD ACS, GD LV, SR, DM, HTN, DLP	CABG X 4 GRAFTS (RSVG-LAD, D1, MAJ OM, RPDA)	DR. JAYAKUMAR K
17	██████	██████████	49	M	29-Feb-2012	CAD, SVD, GD LV, SR, DM, HTN, AORTO BIFEMORAL BYPASS (PAOD), RENAL CALCULI	OPCAB (LIMA-LAD)	DR. JAYAKUMAR K
18	██████	██████████	4	M	4-May-2012	CCHD, TOF, GD PA ANATOMY, SR	ICR + MPA PLASTY	DR. THOMAS MATHEW
19	██████	██████████	5	M	7-May-2012	ACHD, OS ASD, SEVERE VALVAR PS, GOOD PA, SR	TPP CLOSURE OF OS ASD + PULMONARY VALVOTOMY + MPA PLASTY.	DR. THOMAS MATHEW
20	██████	██████████	12	F	21-May-2012	ACHD, OS ASD, SR	MINISTERNOTOMY + TPP CLOSURE OF OS ASD	SABARINATH MENON (DR.)
21	██████	██████████	9	M	21-May-2012	ACHD, SP VSD, RCC PROLAPSE, MVP OF AML, MILD MR/ AR, NO PAH, SR	TRANS PA GORE TEX PATCH CLOSURE OF SP VSD	DR. BINEESH K.R.
22	██████	██████████	65	M	1-Jun-2012	RHD, SEVERE CALCIFIC MS, MILD MR, MILD PAH, CAD, SVD, GOOD LV, AF, HTN, DM, RENAL DYSF	MVR #25 PM + CABG X 1 GRAFT [RSVG TO D2]	DR. VIVEK V. PILLAI
23	██████	██████████	53	M	4-Jun-2012	CAD, TVD, OLD IWMI(06), OLD LWMI(10), REC ACS, SEV LVD, SR, B/L POVD	CABGX4 GRAFTS (LIMA-LAD, RSVG-RCA, MAJ OM, DIAG)	DR. PRAVEEN VARMA P.K.

S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
24	██████	██████	48	M	6-Jun-2012	CAD,LMCA+TVD,GD LV,HTN,SR	CABG X 6 GRAFTS (LIMA-LAD, RSVG-RI, DIAG, OM2, PDA, AM)	DR. JAYAKUMAR K
25	██████	██████████	39	M	14-Jun-2012	RHD,P/BMV(99),SEV MS,MLD MR,MOD AR,MOD PAH, ASD,AF	MVR # 27 CHVP, AVR # 19 CHVP, DIRECT CLOSURE OF POST BMV DEFECT	DR. PRAVEEN VARMA P.K.
26	██████	██████████	63	M	19-Jun-2012	CAD,TVD,GOOD LV,SR,DLP	CABG X 3 GRAFTS (LIMA-LAD, RSVG-MAJ OM,PDA)	DR. PRAVEEN VARMA P.K.
27	██████	██████████	7	F	13-Jul-2012	ACHD, OS ASD, ATTEMPTED ASD DEVICE CLOSURE, SR,	MINI STERNITOMY + DIRECT CLOSURE OF OS ASD	DR.GOPINATH P.
28	██████	██████	5	F	27-Jul-2012	CCHD,TOF,INF & VALV PS, CONFL PA, ADD MM VSD, PDA, SR, NC	ICR+TAP+ MONOCUSP RECON OF RVOT+ LPA PLASTY, DC OF MM VSD, PDA LIGATION	DR.THOMAS MATHEW
29	██████	██████████	8	F	27-Jul-2012	ACHD,MULTIPLE ASD,SR	TPP CLOSURE OF OS ASD	DR.THOMAS MATHEW
30	██████	██████	4	F	2-Aug-2012	ACHD OS ASD,ATTEMPTED ASD DC,UNSTABLE DEVICE	ASD DEVICE RETREVAL + TPP CLOSURE OF OS ASD	SABARINATH MENON (DR.)
31	██████	██████████	59	M	3-Sep-2012	CAD,TVD, GD LV, SR, HYPOTHYROID,RH ARTHRITIS	CABG X 5 GRAFTS (LIMA-LAD. RSVG-D1,OM1,OM2,PDA)	DR. JAYAKUMAR K
32	██████	██████████	36	F	5-Sep-2012	ACHD, OS ASD, SR	TANNED PERICARDIAL PATCH CLOSURE OF ASD	DR.BINEESH K.R.
33	██████	██████████	59	M	5-Sep-2012	CAD,SVD,OLD AWMI,GD LV,SR	OP CAB (LIMA-LAD,RSVG-D2)	DR. JAYAKUMAR K
34	██████	██████	42	M	13-Sep-2012	RHD, SEV MS. MOD MR, MLD PAH, GD LV, SR, NC, 1° AVBB	MVR# 27SJM WITH PARTIAL PRESERV OF BOTH AML/PML	DR. VIVEK V. PILLAI
35	██████	██████████	59	M	13-Sep-2012	CAD,TVD,OLD AWMI,REC IWMI,MOD LVD,MOD MR/TR,MOD PAH,SR	CABG X 5 GRAFTS (LIMA-LAD, RSVG-MAJ D, MAJ OM,TERM OM,PRE CRUCX RCA)	DR. JAYAKUMAR K
36	██████	██████	38	M	17-Sep-2012	S/P AVR#21 SJ(2002), SEV AR, S/P REDO AVR#25 CHVP (2005), PV DEH, SEV AR,DIL LV, GDLV, SR	RE-REDO AVR#25CHVP	DR. PRAVEEN VARMA P.K.

S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
37	██████	██████████	56	M	19-Sep-2012	CAD,TVD,GOOD LV,SR,DM,HTN,RENAL CALCULI	CABG X 4 GRAFTS (LIMA-LAD, RSVG-OM,LPDA,DISTAL LAD)	DR. PRAVEEN VARMA P.K.
38	██████	██████████	45	M	5-Oct-2012	RHD,SEV CAL MS,MILD MR, MOD TR, MILD PAH,CAD,DVD,FAIR BV FUNCTION, AF	MVR#25 SJM + CABG X 1 GRAFTS (RSVG-RPDA)	DR. VARGHESE T.PANICKER
39	██████	██████████	66	F	10-Oct-2012	RHD, SEV MS / AS, MOD AR, MILD MR, SEV TR, SEV PAH, AF NC	DVR (AVR#17 SJR + MVR#23 SJM WITH PARTIAL PMLP) + TV ANNULOPLASTY (MC3 RING #28)	DR. PRAVEEN VARMA P.K.
40	██████	██████████	66	F	19-Oct-2012	CAD,TVD,ODL MI, GD LV,SR,DM,HTN,DLP	CABG X 4 GRAFTS (LIMA-LAD,RSVG-D1,OM2,PDA)	DR. JAYAKUMAR K
41	██████	██████████	48	F	2-Nov-2012	RHD,P/BMV,SEV MS,SEV TR,MILD PAH,MILD MR,FAIR LV,AF,NC	MVR#25 CHVP,PARTIAL PMLP,LAAE (TRANS SEPTAL) +BICUSPIDISATION OF TV	DR. VARGHESE T.PANICKER
42	██████	██████████	66	M	5-Nov-2012	CAD,TVD,OLD ACS,GOOD LV,SR,DM,HTN,DLP,DIABETIC NEUROPATHY	CABG X 4 GRAFTS (LIMA-LAD, RSVG-D1,MAJ OM,PRECRUX RCA)	DR. VIVEK V. PILLAI
43	██████	██████████	53	M	5-Nov-2012	RHD,SEV AR,MILD AS,GOOD LV,SR,NC	AVR #23 CHVP	DR. VARGHESE T.PANICKER
44	██████	██████████	76	M	6-Nov-2012	SEV CALC AS, MILD AR, GOOD LV SYST FN, DIL LV, LV DIAST DYSFN, HTN, MILD CAD,SR	AVR # 23 PM	DR. PRAVEEN VARMA P.K.
45	██████	██████████	65	M	6-Nov-2012	MVP,SEV MR,DIL LV,GD LV, AF, MILD CAD,OLD PTB,BULLAE RUL	MVR # 29 CHVP, PMLP, PLICATION OF RT UPPER LOBE BULLAE	DR. PRAVEEN VARMA P.K.
46	██████	██████████	48	M	8-Nov-2012	LA MYXOMA,SEV LV INFLOW OBSTRUCTION,SVD,GOOD LV,SR	EXCISION OF LA MYXOMA + CABG X 1 GRAFT (LIMA-LAD)	DR. PRAVEEN VARMA P.K.
47	██████	██████████	43	F	08-Nov-2012	RHD, SEV MS, SEV MR, MILD PAH, GOOD LV, SR, NC	MVR#25 SJM WITH PMLP	DR. VARGHESE T.PANICKER
48	██████	██████████	61	F	23-Nov-2012	MVP,SEV MR,MOD PAH,GD LV,SR,NC	MVR#25 CHVP+PMLP	DR. VIVEK V. PILLAI

S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
49	██████	██████████	55	M	23-Nov-2012	CAD,TVD,OLD AWWMI,OLD IWMI,SEV LVD,DM,HTN,SR	CABG X 5 GRAFTS (LIMA-LAD, RSVG-D1,OM1,OM3,RPDA)	DR. JAYAKUMAR K
50	██████	██████████	66	M	27-Nov-2012	CAD, LMCA+TVD, GD LV, REC ACS, HTN, DLP, SR	CABG X 6 GRAFTS (LIMA-LAD, RSVG-D1,D2,OM1,OM2,RPDA), D1 PIGGY BACKED TO OM1	DR. JAYAKUMAR K
51	██████	██████████	71	M	29-Nov-2012	CAD,TVD,GD LV,SR,HTN,RT RENAL ARTERY STENOSIS,B/L ICA STENOSIS, SR	CABG X 5 GRAFTS (LIMA-LAD,RSVG-D1,RI,OM,PDA)	DR. JAYAKUMAR K
52	██████	██████████	62	F	29-Nov-2012	CAD,TVD,GD LV,SR,DM,HTN	CABNG X 5 GRAFTS (LIMA- LAD, RSVG-MAJ DIAG, BOTH BRANCHES OF MAJ OM, RPDA)	DR. JAYAKUMAR K
53	██████	██████████	59	F	30-Nov-2012	CAD,TVD,GD LV,SR(APCS), HTN,DLP,HYPOTHYROID	CABG X 4 GRAFTS (LIMA -LAD, RSVG -MAJ DIAG,MAJ OM, RPDA)	DR. JAYAKUMAR K
54	██████	██████████	4	F	18-Jan-2013	CCHD,TOF,GOOD PA,SR	ICR+TAP+MONOCUSP RECONSTRUCTION OF RVOT	DR. SABARINATH MENON
55	██████	██████████	2	M	18-Jan-2013	CCHD, TOF, SEVERE VALVULAR PS DYSPLASTIC PV, CONFL PA,SR	ICR + TAP + MONOCUSP RECONSTRUCTION OF RVOT	DR. SABARINATH MENON
56	██████	██████████	3	F	22-Jan-2013	CCHD,TOF,INF PS, LPA ORIGIN STENOSIS, CONFL PA, OS ASD,SR	ICR + MPA & LPA PLASTY + DIRECT CLOSURE OF OS ASD	DR. THOMAS MATHEW
57	██████	██████████	6	M	28-Jan-2013	ACHD, SP VSD,MOD AR, GOOD LV, SR	VSD CLOSURE AND AV VALVE REPAIR(TRUSSLER REPAIR)	DR. SABARINATH MENON
58	██████	██████████	9	M	29-Jan-2013	CCHD, TA, DTGA, SEV PS, P/BDG + LSVC LIG + PDA INTER (06)	RESTERNOTOMY + EC FENEST (4MM) FONTAN WITH 19MM PTFE	DR. BAIJU S.DHARAN
59	██████	██████████	21	M	1-Feb-2013	ACHD, PAVCD, CLEFT AML, MOD MR, MILD PAH, BAV, SR	TPP CLOSURE OF OP ASD + CLEFT AML REPAIR	DR. THOMAS MATHEW
60	██████	██████████	1	F	7-Feb-2013	ACHD,DORV INLET VSD WITH SA EXTENSION, SEV PAH, PDA, SR	PA BAND # 28 MM + ATRIAL SEPTECTOMY + PDA INTERRUPTION	DR. SABARINATH MENON

S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
61	██████	██████████	1	F	8-Feb-2013	ACHD,DORV INLET VSD, SEV PAH, PDA, SR, P/PA BAND 28 MM + ATRIAL SEPTECTOMY + PDA INT	PA BAND TIGHTENING TO 25 MM+STENTED STERNUM	DR. SABARINATH MENON
62	██████	██████████ █	4	M	8-Feb-2013	ACHD, SV ASD, PFO, PDA, PAPVC OF RUPV AND RMPV TO SVC RA JN, MILD PAH, SR	WARDEN'S PROCEDURE + PFO CLOSURE + PDA INTERRUPTION	DR. SABARINATH MENON
63	██████	██████████	1	F	9-Feb-2013	S/P PA BANDING + ATRIAL SEPTECTOMY, STENT STERNUM	DELAYED STERNAL CLOSURE	DR. SABARINATH MENON
64	██████	██████████	0	M	11-Feb-2013	ACHD, SA VSD, SEV PAH,GD LV, SR	TPP CLOSURE OF SA VSD	DR. THOMAS MATHEW
65	██████	██████████	2	M	13-Feb-2013	ACHD, SA VSD, SEV PAH, GD LV, LSV, SR	GP CLOSURE OF SA VSD	DR. SABARINATH MENON
66	██████	██████████ ██████	1	M	14-Feb-2013	S/P SC-TAPVC REPAIR + RSVC- LAA ANAST, STENTED STERNUM	DELAYED STERNAL CLOSURE	DR. SABARINATH MENON
67	██████	██████████	2	M	18-Feb-2013	CCHD,TOF,GOOD PA, UNICUSPID PV, SR	TRANS RA PA ICR	DR. SABARINATH MENON
68	██████	██████████	13	F	19-Feb-2013	ACHD, SEV SUPRAVALVULAR AS, TRIV AR, SR	BROM'S AORTOPLASTY	DR. BAIJU S.DHARAN
69	██████	██████████	10	M	21-Feb-2013	CCHD, TA, VSD, SEV PS, S/P BDG, SR	RESTERNOTOMY + FENESTRATED EXTRACARDIAC FONTAN WITH 22MM PTFE TUBE GRAFT AND 4.5 MM FENESTRATION	DR. SABARINATH MENON
70	██████	██████████	2	M	22-Feb-2013	S/P ASO FOR DORV, SP VSD	DSC	DR. SABARINATH MENON
71	██████	██████████ ██████	0	M	4-Mar-2013	CCHD, DTGA, MUSC VSD, REST ASD, GOOD LV, PAH, SR	ASO + VSD CLOSURE + PFO OPEN + STENTED STERNUM	DR. BAIJU S.DHARAN
72	██████	██████████	0	M	5-Mar-2013	CCHD, TOF, CONF PA, B/L SVC, RT ARCH, SR, NC, H/O SPELLS	ICR + SHORT TAP + BPP AUGMENTATION OF ANTERIOR LEAFLET OF BICUSPID PULM VALVE + PFO OPEN+STERNUM STENTED	DR. BAIJU S.DHARAN

S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
73	██████	██████████ ██████████	0	M	6-Mar-2013	CCHD, DTGA, MUSC VSD, REST ASD, SR, S/P ASO + VSD CLOSURE +PFO OPEN + STENTED STERNUM	DELYED STERNAL CLOSURE	DR. SABARINATH MENON
74	██████	██████████	21	F	7-Mar-2013	ACHD,OS ASD,GD LV, SR, ATTEMPTED ASD DEVICE CLOSURE, DEVICE EMB TO RV	ASD DEVICE RETREVAL + DIRECT CLOSURE OF OS ASD	DR. THOMAS MATHEW
75	██████	██████████	0	M	7-Mar-2013	ICR + SHORT TAP + BPP AUG OF ANT LEAFLET OF BICUSPID PV + PFO OPEN + STERNUM STENTED	DELYED STERNAL CLOSURE	DR. THOMAS MATHEW
76	██████	██████████	3	F	11-Mar-2013	ACHD,ALCAPA,MOD MR,MOD LVD,SEV PAH,SR	LCA TRANSLOCATION + KAY'S MV ANNULOPLASTY (COMMISSURAL)	DR. BAIJU S.DHARAN
77	██████	██████████	13	F	11-Mar-2013	SA VSD,SEV INF PS, SR	TRANS RA ICR + PV INSPECTION	DR. THOMAS MATHEW
78	██████	██████████	4	F	14-Mar-2013	CCHD, TOF, S/P ICR, SEV INF STENOSIS, MOD-SEV PR, MILD RV DYSFUNCTION,PFO,SR	RESTERNOTOMY + INFUNDIBULAR RESECTION + REPAIR OF RT LEAFLET OF PV + RVOT PATCH	DR. BAIJU S.DHARAN
79	██████	██████████	1	F	16-Mar-2013	CCHD, DTGA, IVS, PDA, S/P ASO, STENTED STERNUM	DELYED STERNAL CLOSURE	DR. THOMAS MATHEW
80	██████	██████████	2	F	18-Mar-2013	ACHD,OS ASD, SA VSD, MOD PAH, GD LV, SR	TPP CLOSURE OF OS ASD AND SA VSD	DR. THOMAS MATHEW
81	██████	██████████ ██████████	0	M	19-Mar-2013	CCHD, DTGA, MUSC VSD, REST ASD, S/P ASO + BPP CLOSURE OF VSD + PFO OPEN WITH RESI VSD	RESTERNOTOMY + VSD CLOSURE	DR. BAIJU S.DHARAN
82	██████	██████████	2	F	20-Mar-2013	ACHD, S/P TPP CLOSURE OF SA VSD AND OS ASD, RESI VSD, SR	RESTERNOTOMY+ RESIDUAL VSD CLOSURE + STENTED STERNUM	DR. BAIJU S.DHARAN
83	██████	██████████	6	M	20-Mar-2013	ACHD, PAVCD, B/L SVC, S/P TPP CLOSURE OF ASD + MV REPAIR, RESIDUAL CLEFT AML, SEV MR,	RESTERNOTOMY + CLEFT AML REPAIR	DR. BAIJU S.DHARAN

S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
84	██████	██████████	2	F	21-Mar-2013	ACHD, S/P TPP CLOSURE OF SA VSD / OS ASD, S/P RESI VSD CLOSURE, STENTED STERNUM, SR	DELYED STERNAL CLOSURE	DR. THOMAS MATHEW
85	██████	██████████	9	F	21-Mar-2013	ACHD,OS ASD,MILD PAH,S/P ATTEMPTED DEVICE CLOSURE	MINISTERNOTOMY + TPP CLOSURE OF OS ASD	DR. SABARINATH MENON
86	██████	██████████	0	M	25-Mar-2013	CCHD,DTGA,MUSC VSD,REST ASD, P/ASO + VSD CLOSURE	TRACHEOSTOMY	DR. THOMAS MATHEW
87	██████	██████████	2	M	25-Mar-2013	CCHD, TOF, SEV INFUNDIBULAR AND SUPRA VALVAR PS, GOOD PA, OS ASD, SR, NC	TRANS RA-PA ICR + DIRECT CLOSURE OF OS ASD	DR. BAIJU S.DHARAN
88	██████	██████████	5	M	26-Mar-2013	ACHD, OS ASD, B/L SVC, SR	TPP CLOSURE OF OS ASD	DR.GEORGE J VALOORAN
89	██████	██████████	0	F	28-Mar-2013	CCHD, TOF, SEV PS, CONF PA, RT ARCH, PDA, NC, S/P PDA STENT, STENT MIGRATION TO AA	MODIFIED MELBOURNE SHUNT + LAPAROTOMY AND STENT RETREVAL	DR. BAIJU S.DHARAN
90	██████	██████████	0	M	31-Mar-2013	OBSTRUCTED INFRACARDIAC TAPVC, OSASD, PDA, SEV PAH, SR	TAPVC REPAIR (PRIMARY SUTURELESS) + STENTED STERNUM	DR. BAIJU S.DHARAN
91	██████	██████████	47	F	1-Apr-2013	CAD, TVD,FAIR LV, AWMI, DLP,SR	CABG X 4 GRAFTS (LIMA-LAD, RSVG-D1, OM3, RPDA)	DR. JAYAKUMAR K
92	██████	██████████	38	F	1-Apr-2013	ACHD,OS ASD,MOD PAH, GOOD LV,SR	TPP CLOSURE OF OS ASD	DR. JAYAKUMAR K
93	██████	██████████	67	F	8-Apr-2013	CAD, OLD AWMI, TVD, GDLV, SR, DLP, H/O TIA, VV	CABG X 4 GRAFTS (LIMA-LAD, RSVG-MAJ D, AMPDA, LPLB)	DR. JAYAKUMAR K
94	██████	██████████	68	M	9-Apr-2013	CAD, TVD, SEV AR, ASC AORTIC ANEURYSM, GD LV, SR, OLD CVA, DM, HTN,	MOD BENTALL'S PROCEDURE (AVR#23 CHVP + #24 ALBO GRAFT) + CABG X 4 GRAFTS LIMA-LAD, RSVG - MAJ D, MAJ OM,PDA)	DR. JAYAKUMAR K
95	██████	██████████	57	M	10-Apr-2013	CAD, MILD LMCA+DVD, GDLV, SR	CABG X 2 GRAFTS (LIMA-LAD,RSVG-MAJ OM)	DR. JAYAKUMAR K

S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
96	██████	██████ ██████	59	M	12-Apr-2013	CAD, TVD, OLD IWMI, GDLV, SR, HTN	CABG X 4 GRAFTS (LIMA-LAD, RSVG- D3, MIDDLE BRANCH OF MAJ OM, PDA)	DR. JAYAKUMAR K
97	██████	██████████████	61	M	15-Apr-2013	CAD, TVD, OLD IWMI, S/P PCI- LCX, SEV MR, SEV LVD, SR, PVOD	CABG X 3 GRAFTS (LIMA-LAD, RSVG- MAJ OM, PDA) +MV REPAIR (#28 SADDLE RING)	DR. PRAVEEN VARMA P.K.
98	██████	██████████████ ██████	64	M	16-Apr-2013	CAD, TVD, REC ACS,SEV AS, FAIR LV, SR, DM, HTN, DLP	CABG X 3 GRAFTS (LIMA-LAD, RSVG- OM4, PDA, LAD + AVR#21PM	DR. PRAVEEN VARMA P.K.
99	██████	██████	69	M	17-Apr-2013	CAD, LMCA+TVD, GD LV, 1ST DEG AVB, MILD AR,TRI AS, SR	CABG X 3 GRAFTS (LIMA-LAD, RSVG- OM2, PDA)	DR. JAYAKUMAR K
100	██████	██████████████	10	M	17-Apr-2013	RHD, FLAIL AML, SEV MR, MOD MS, FLAIL AML, MOD TR, SEV PAH, GD LV, SR	MV REPAIR (CHORDAL TRANSPOSITION A2-P2, #26 RIGID SADDLE RING)	DR. VIVEK V. PILLAI
101	██████	██████████████	53	F	18-Apr-2013	CAD,TVD,S/P CABG (O7),GDLV, SR, HTN, DM, DLP	REDO CABG X 4 GRAFTS (RSVG-LAD, OM1,OM2,PLB) OM1 PIGGYBACKED TO OM2	DR. JAYAKUMAR K
102	██████	██████████████	50	M	29-Apr-2013	CAD,DVD,RHD,S/PCMV,RE SEV MS,MOD MR,MILD PAH,GDLV, AF,SEZURE DISOR,HTN,B/L VV	MVR # 23 SJM + CABG X 2 GRAFTS (RSVG-TERM OM,PDA)	DR. PRAVEEN VARMA P.K.
103	██████	██████████████	29	F	30-Apr-2013	TYPE A AORTIC DISSECTION, SEV AR, GOOD LV, SR	SUPRACORONARY ASC AORTIC REPLACEMENT AND RESUSP OF AV	DR. JAYAKUMAR K
104	██████	██████████████ ██████	69	M	2-May-2013	CAD,TVD,OLD ACS,RECENT IWMI,GDLV,SR,DM,HTN	CABG X 5 GRAFTS (LIMA-LAD, RSVG - MAJ DIAG, OM1, MAJ OM,PDA)	DR. JAYAKUMAR K
105	██████	██████████████	66	M	3-May-2013	CAD,LMCA+TVD, GDLV,SR,DM,HTN	CABG X 5 GRAFTS (LIMA-LAD, RSVG- D1,D2,OM2,RPDA) LAD ENDARTERECTOMY DONE	DR. PRAVEEN VARMA P.K.
106	██████	██████████████	47	F	7-May-2013	CAD, DVD, FAIR LV, SR, DM, HTN, DLP	CABG X 2 GRAFTS (LIMA-LAD, RSVG-D1, MAJ OM)	DR. PRAVEEN VARMA P.K.

S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
107	██████	██████████	52	M	8-May-2013	RHD, SEV CAL AS, MOD AR, MILD MR, GDLV, SR, NC	AVR # 19 CHVP	DR. VARGHESE T.PANICKER
108	██████	██████████	52	F	8-May-2013	RHD,S/P PTMC(2007),SEV REMS,MOD MR, LA CLOT,MOD PAH,GOOD LV/RV FN,NC,AF	MVR# 25 SJM + PMLP + LA CLOT REMOVAL	DR. VARGHESE T.PANICKER
109	██████	██████████	66	M	9-May-2013	CAD, OLD IWMI, S/P PCI, FAIR LV, SEV MR, IW ANEURYSM, SR	MVR#29 SJM	DR. PRAVEEN VARMA P.K.
110	██████	██████████	52	M	10-May-2013	CLEFT AML, SEV MR, OS ASD, GD LV/RV,AF, NC,VV, HCV +VE	TRANS RA CLEFT AML REPAIR + DIRECT CLOSURE OF OS ASD	DR. VARGHESE T.PANICKER
111	██████	██████████	47	M	16-May-2013	ASPERGILLOMA LT LOWER LOBE	LEFT LOWER LOBECTOMY	DR. UNNIKRISHNAN.M
112	██████	██████████	52	M	17-May-2013	ACHD, OSASD, MOD TR, MILD MR, SEV PAH, GD LV, AF, NC	TPP CLOSURE OF OS ASD, DEVEGA'S TV ANNULOPLASTY	DR. VARGHESE T.PANICKER
113	██████	██████████ ██████	57	M	27-May-2013	CAD,TVD,GDLV,SR,HTN, RT ICA STENOSIS	CABG X 4 GRAFTS (LIMA-LAD,RSVG-MAJ DIAG,TERMINAL OM,RPDA)	DR. PRAVEEN VARMA P.K.
114	██████	██████████	61	F	27-May-2013	SEV AS,MILD MR,GD LV,SR,HT,NC	AVR # 19 PM	DR. VIVEK V. PILLAI
115	██████	██████████	25	M	28-May-2013	MARFAN'S SYNDROME, ANNULOARTIC ECTASIA, SEV AR, DIL LV, MILD LVD, S/P COA STENT, TRIV MR, MILD TR, SEV PAH, OS ASD, SR WITH 1 AVB, OLD CVA	MODIFIED BENTALL'S PROCEDURE (AVR#25 CHVP AND #26 ALBOGRAFT)	DR. JAYAKUMAR K
116	██████	██████████	58	M	29-May-2013	CAD,TVD,GDLV,SR,DM,HTN,DLP	CABG X 5 GRAFTS (LIMA-LAD, RSVG-D1,MAJ OM,RPDA,RPLB)	DR. JAYAKUMAR K
117	██████	██████████	15	M	29-May-2013	ACHD,SV ASD,GOOD RV,SR	DOUBLE PATCH REPAIR	DR. VARGHESE T.PANICKER
118	██████	██████████	63	M	30-May-2013	CAD, LMCA+TVD, GDLV, SR, HTN, DLP	CABG X 4 GRAFTS (LIMA-LAD, RSVG-D1,RI,PDA)	DR. JAYAKUMAR K

S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
119	██████	██████████	33	M	31-May-2013	ACHD, OS ASD, PAPVC OF LUPV, MOD PAH, SR	TPP CLOSURE OF OS ASD + PAPVC REROUTING (LUPV-LAA)	DR. VARGHESE T.PANICKER
120	██████	██████████	57	M	31-May-2013	CAD, TVD, OLD IWMI, GD LV, SR, DLP	CABG X 5 GRAFTS (LIMA-LAD, RSVG- RI, BOTH BR OF OM,PDA)	DR. JAYAKUMAR K
121	██████	██████████	64	M	3-Jun-2013	BAV, SEV CAL AS, MILD AR, GDLV, SR, NC	AVR # 21 PM	DR. VARGHESE T.PANICKER
122	██████	██████████	47	M	3-Jun-2013	CAD, TVD, GD LV, SR, HTN	CABG X 5 GRAFTS (LIMA-LAD, RSVG- D1,D2,RI,DISTAL RCA)	DR. JAYAKUMAR K
123	██████	██████████	45	M	4-Jun-2013	RHD, SEV AR, MODERATE AS, MILD MR, GOOD LV, SR, NC	AVR # 23 CHVP	DR. VARGHESE T.PANICKER
124	██████	██████████	67	M	5-Jun-2013	CAD, TVD, GDLV, SR, DM, HTN, VV	CABG X 4 GRAFTS (LIMA - LAD, RSVG - MAJ D, OM2, DISTAL RCA)	DR. JAYAKUMAR K
125	██████	██████████	60	M	5-Jun-2013	CAD, LMCA+TVD, GDLV, SR, HTN, DLP	CABG X 4 GRAFTS (LIMA - LAD, RSVG - D1, RI, MAJ OM)	DR. JAYAKUMAR K
126	██████	██████████	39	F	6-Jun-2013	RHD, SEV MS, S/P PTMC, SEV MR, MILD MS, SEV PAH, FAIR LV	MVR #23 CHVP + PARTIAL PMLP + DIRECT CLOSURE OF OS ASD	DR. BINEESH K. R.
127	██████	██████████	50	M	6-Jun-2013	CAD, TVD, FAIR LV, SR, DLP	CABG X 3 GRAFTS (LIMA-LAD, RSVG - OM3, PDA)	DR. PRAVEEN VARMA P.K.
128	██████	██████████	43	F	7-Jun-2013	RHD,SEV AR, MILD AS, MOD MS, MILD PAH, FAIR LV, SR,NC	AVR # 23 CHVP + OMV (AL COMMISSUROTOMY)	DR. VARGHESE T.PANICKER
129	██████	██████████	52	M	8-Jun-2013	HOCM, SEV LVOTO, P2 PROLAPSE, MOD MR, S,/P ASA, SEV PULM EDEMA, GD LV, SR, NC	SEPTAL MYECTOMY + MVR#27 SJM	DR. PRAVEEN VARMA P.K.
130	██████	██████████	48	M	10-Jun-2013	CAD, TVD, REC ACS, GD LV, SR, DLP, HCV+	CABG X 4 GRAFTS (LIMA-LAD, RSVG- D1, RI, MAJ OM)	DR. JAYAKUMAR K
131	██████	██████████	59	M	12-Jun-2013	CAD, P/PTCA TO RCA (2006), LMCA+TVD, GDLV, SR, DM, HTN	CABG X 4 GRAFTS (LIMA-LAD, RSVG - D2, MAJ OM, PDA)	DR. PRAVEEN VARMA P.K.

S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
132	████	██████████	56	M	12-Jun-2013	CAD, TVD, REC ACS, GDLV, SR, DM	CABG X 5 GRAFTS (LIMA-LAD, RSVG - D1, BOTH BR OF MAJ OM, PDA)	DR. JAYAKUMAR K
133	████	██████████	60	M	14-Jun-2013	CAD, TVD, OLD IWMI, GDLV, SR, HTN, DLP	CABG X 4 GRAFTS (LIMA-LAD, RSVG-OM1,OM2, PRE CRUX RCA)	DR. JAYAKUMAR K
134	████	██████████	70	M	17-Jun-2013	CAD, DVD, GD LV, SR, DM, HTN, DLP	CABG X 4 GRAFTS (LIMA-LAD, RSVG-D1, LPDA,LPLB)	DR. JAYAKUMAR K
135	████	██████████	54	M	17-Jun-2013	ACHD, OS ASD, SEV PAH, MOD TR, GD LV, PAROX AF, NC	TPP CLOSURE OF OS ASD + PARTIAL DEVEGAS	DR. VARGHESE T.PANICKER
136	████	██████████	58	M	18-Jun-2013	MVP, AML PROLAPSE,A3 CHORDAL RUPTURE, SEV MR,MOD PAH,GOOD LV FN,NC,AF	MVR#31SJM+PMLP	DR. VIVEK V. PILLAI
137	████	██████	64	M	18-Jun-2013	CAD, TVD, REC ACS, GD LV, SR, HTN, DLP	CABG X 4 GRAFTS (LIMA-LAD, RSVG-OM1,OM2,PDA)	DR. JAYAKUMAR K
138	████	██████████	68	F	19-Jun-2013	CAD, TVD, GDLV, SR, HTN, DM, DLP	CABG X 4 GRAFTS (LIMA-LAD, RSVG-D1, MAJ OM, PDA)	DR. VIVEK V. PILLAI
139	████	██████	73	M	20-Jun-2013	CAD, TVD, GDLV, SR, HTN	CABG X 5 GRAFTS (LIMA-LAD, RSVG-D1, OM1, OM2, RPLB)	DR. JAYAKUMAR K
140	████	██████████	18	M	21-Jun-2013	ACHD, OS ASD, MILD PAH, GD LV, SR	TPP CLOSURE OF OSASD	DR. JAYAKUMAR K
141	████	██████	51	M	21-Jun-2013	CAD, LMCA+TVD, GD LV, SR, DM, HTN, DLP, DIABETIC RETINOPATHY	CABG X 5 GRAFTS (LIMA-LAD, RSVG-RI, OM1,AM,RCA)	DR. JAYAKUMAR K
142	████	██████████	75	M	24-Jun-2013	CAD, TVD, SEVCAL AS, MILD AR, MILD MS, GDLV, SR, DM	AVR # 19 PM MAGNA + CABG X 4 GRAFTS (RSVG -LAD,MAJ D,MAJ OM, 2ND PLB)	DR. JAYAKUMAR K
143	████	██████████	59	F	24-Jun-2013	ACHD, SV ASD,PAPVC, TINY PFO, GD LV, SR, BRONCHIAL ASTHMA	DOUBBLE PATCH REPAIR	DR. BINEESH K. R.

S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
144	██████	██████	15	M	26-Jun-2013	SEV CAL AS, MOD AR, SAM, MILD MR, MOLD PAH, GD LV, S/P PDA LIGATION, CLEF TLIP (OPTD)	AVR # 17 SJR + SAM EXCISION	DR. VIVEK V. PILLAI
145	██████	██████	57	M	28-Jun-2013	CAD, LMCA+TV D, PLMI, MILD MR /AR, GD LV, SR, DM, HTN	CABG X 3 GRAFTS (LIMA-LAD, RSVG-D1,OM1)	DR. VIVEK V. PILLAI
146	██████	██████████	55	F	3-Jul-2013	CAD, TVD, REC ACS, SEV LVD, SR, DM	CABG X 4 GRAFTS (LIMA-LAD, RSVG - D1, MAJ OM, PDA) + LINEAR LV PLICATION	DR. JAYAKUMAR K
147	██████	██████████	59	M	3-Jul-2013	CAD, UA, SVD, CRITIAL LAD DISEASE, FAILED PCA, ASPRIN ALLERY	OP CAB X 2 GRAFTS (LIMA-LAD, RSVG - D1)	DR. JAYAKUMAR K
148	██████	██████████	68	M	4-Jul-2013	CAD, TVD, MILD LVD, SR, DM, HTN, PARKINSONISM	CABG X 6 GRAFTS (LIMA-LAD, RSVG - MAJ D, RI, OM1, OM2, PDA)	DR. JAYAKUMAR K
149	██████	██████████	65	M	5-Jul-2013	SEV CAL AS, MILD AR, GDLV, SR, NC	AVR#21PM MAGNA	DR. VIVEK V. PILLAI
150	██████	██████████	68	M	5-Jul-2013	S/P CABG WITH SINUS	STERNAL WIRE REMOVAL	DR. JAYAKUMAR K
151	██████	██████	36	F	8-Jul-2013	RHD, (S/P CMV 98), SEV RE MS, MOD PAH, GDLV, SR	MVR # 27 SJM	DR. VIVEK V. PILLAI
152	██████	██████████	55	M	9-Jul-2013	CAD, TVD, REC IWMI, GDLV, SR, HTN, DLP	OP CAB X 2 GRAFTS (LIMA-LAD, RSVG - PDA)	DR. JAYAKUMAR K
153	██████	██████████	31	M	9-Jul-2013	ACHD, OS ASD,GD LV,SEV PAH, SR	TPP CLOSURE OF OS ASD	DR. JAYAKUMAR K
154	██████	██████████	63	F	10-Jul-2013	CAD, LMCA+TV D, GD LV, SR, HTN, DM, DLP, H/O STROKE	CABG X 4 GRAFTS (LIMA - LAD, RSVG - MAJ OM, MAJ DIAG, PDA)	DR. JAYAKUMAR K
155	██████	██████████	71	F	11-Jul-2013	CAD, TVD, GDLV, SR, HTN, DLP	CABG X 5 GRAFTS (LIMA-LAD, RSVG-D2, RI LATERAL BRANCH, TERMINAL OM, PDA)	DR. JAYAKUMAR K

S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
156	██████	██████████ ██████	47	M	12-Jul-2013	RHD, SEV MR, PML PROLAPSE (P3), MILD PAH, MILD CAD, GOOD LV, SR	MV REPAIR (P3 QUADRANGULAR RESECTION WITH P1, P2 CLEFT CLOSURE + #25 TAYLOR RING ANNULOPLASTY)	DR. VARGHESE T.PANICKER
157	██████	██████████	67	M	12-Jul-2013	CAD, TVD, OLD AWMI, REC ACS, FAIR LV, SR, HTN, DM, DLP	CABG X 5 GRAFTS (LIMA-LAD, RSVG-MAJ D, RI, MAJ OM, PDA)	DR. JAYAKUMAR K
158	██████	██████████ ██████	58	M	22-Jul-2013	CAD, TVD, OLD AWMI, S/P PTCA TO LAD, GD LV, SR, POVD, HTN, DLP	CABG X 5 GRAFTS (LIMA-LAD, RSVG - RI, OM3, LPLB, DISTAL LAD) + (RSVG-AM, DISTAL RCA)	DR. VARGHESE T.PANICKER
159	██████	██████████	61	F	23-Jul-2013	RHD,SEV MS, MOD MR, SEV TR, ORG TVD, MOD PAH, GD LV, AF, NC, DM	MVR#25SJM + TVA(#30 MC3 RING)	DR. VARGHESE T.PANICKER
160	██████	██████████	46	M	24-Jul-2013	CAD, LMCA+DVD, OLD AWMI, S/P PTCA TO LAD&RCA, SEV LVD, SR	CABG X 3 GRAFTS (LIMA-LAD, RSVG - D1, OM2)	DR. PRAVEEN VARMA P.K.
161	██████	██████████	60	M	25-Jul-2013	CAD, TVD, GD LV, SR, COPD, INGUINAL HERNIA LT, HYDROCELE RT	CABG X 5 GRAFTS (LIMA-LAD, RSVG-OM3, OM4, RPDA, RPLB)	DR. JAYAKUMAR K
162	██████	██████████	63	M	26-Jul-2013	CAD, LMCA+TVD, GD LV, SR, DM, IBS,VV B/L	CABG X 5 GRAFTS (LIMA-LAD, RSVG-RI, OM1, BOTH BR OF RPDA)	DR. JAYAKUMAR K
163	██████	██████████	48	F	29-Jul-2013	LA MYXOMA, GOOD LV, SR, NC, DM	EXCISION OF LA MYXOMA WITH TPP CLOSURE OF IAS DEFECT	DR. VARGHESE T.PANICKER
164	██████	██████████ ██████	53	M	2-Aug-2013	CAD, TVD, REC ACS, GD LV,SR, DM	CABG X 4 GRAFTS (LIMA-LAD, RSVG-MAJ OM, TERM OM, RCA)	DR. JAYAKUMAR K
165	██████	██████████	33	M	5-Aug-2013	RHD,SEV MR,MOD MS,MOD TR,SEV PAH,ANEURYS LA,GDLV,SR	MVR # 31 MHVP + TVA # 32 CE RING	DR. VIVEK V. PILLAI
166	██████	██████████	60	F	5-Aug-2013	CAD, TVD, GDL V, SR, HTN	CABG X 3 GRAFTS (LIMA-LAD, RSVG - D1, OM1)	DR. PRAVEEN VARMA P.K.

S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
167	██████	██████	53	M	7-Aug-2013	CAD, TVD, OLD ACS, SEV LVD, MILD PAH, SR, LBBB, DM, HTN, DLP	CABG X 5 GRAFTS (LIMA-LAD, RSVG-MAJ D, OM1, MAJ OM, RPLB) + PFO CLOSURE + PPI	DR. JAYAKUMAR K
168	██████	██████	78	M	8-Aug-2013	CAD, TVD, OLD ACS, MOD LVD, SR, DM	CABG X 5 GRAFT (LIMA-LAD, RSVG-D1, OM1, RPDA, RPLB)	DR. JAYAKUMAR K
169	██████	██████	69	M	12-Aug-2013	CAD, TVD, REC ACS, MOD LVD, SR, DM, AC BRONCHITIS, RENAL DYSFN	CABG X 5 GRAFTS (LIMA- DISTAL LAD, RSVG-RI, OM1, RPDA, RPLB)	DR. JAYAKUMAR K
170	██████	██████	65	M	14-Aug-2013	CAD, TVD, GD LV, SR, DM, HTN	CABG X 4 GRAFTS (LIMA-LAD, RSVG - MED & LAT BR OF MAJ OM, RPDA)	DR. JAYAKUMAR K
171	██████	██████	69	M	15-Aug-2013	CAD, TVD, S/P CABG, AC MESENTERIC ISCHEMIA	EXPL LAPAROTOMY+RESECTION OF DISTAL JEJUNUM, ILEUM, CAECUM & ASC COLON WITH JEJUNO TRANS ANASTAMOSIS	DR. VIVEK V. PILLAI
172	██████	██████	57	M	16-Aug-2013	CAD, TVD, OLD ACS, FAIR LV, SR, DLP	CABG X 3 GRAFTS (LIMA-LAD, RSVG-OM1,PDA)	DR. PRAVEEN VARMA P.K.
173	██████	██████	66	M	19-Aug-2013	CAD, TVD, GD LV, SR, HTN	CABG X 6 GRAFTS (LIMA-LAD, RSVG - D1, D2, MAJ OM, TERM OM, RPDA)	DR. VIVEK V. PILLAI
174	██████	██████	62	M	19-Aug-2013	CAD, TVD, REC ACS, GD LV, SR, DM, HTN	CABG X 5 GRAFTS (LIMA-LAD, RSVG - D1, RI, TERM OM, RPDA)	DR. JAYAKUMAR K
175	██████	██████	49	M	20-Aug-2013	CAD, TVD, REC AWTMI, SEV LVD, SR, DM, HTN	CABG X 3 GRAFTS(LIMA-LAD, RSVG-RI, RPDA) + LINEAR LV PLICATION	DR. JAYAKUMAR K
176	██████	██████	54	M	21-Aug-2013	CAD, TVD, GD LV, SR, HTN, DLP	CABG X 5 GRAFTS (LIMA-LAD, RSVG - D2, D3, MAJ OM, DIST RCA)	DR. JAYAKUMAR K
177	██████	██████	62	M	22-Aug-2013	CAD, TVD, GD LV, SR, DM, DLP	CABG 5 GRAFTS (LIMA-LAD, RSVG-D2, MAJ DIAG, MAJ OM, PDA)	DR. JAYAKUMAR K

S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
178			61	F	22-Aug-2013	BAV, SEV AS, MOD AR, GDLV, SR	AVR#17 CHVP	DR. VARGHESE T.PANICKER
179			49	F	23-Aug-2013	CAD, TVD, GD LV, FLAIL AML, TETHERED PML, SEV MR, MOD PAH, SR, DM, HTN, DLP	CABG X 3 GRAFTS (RSVG - LAD, OM2, PDA) + MVR#26 SEP WITH TCP (MIKKI'S TECHNIQUE)	DR. VIVEK V. PILLAI
180			75	M	27-Aug-2013	CAD, TVD, GD LV, SR, DM, HTN, BPH (S/P TURP) WITH STRICTURE URETHRA	CABG X 5 GRAFTS (LIMA-LAD, RSVG-D1, MAJ OM, TERM OM, PDA)	DR. JAYAKUMAR K
181			60	M	27-Aug-2013	CAD, TVD, REC ACS, GD LV, SR, DM	CABG X 6 GRAFTS (LIMA-LAD, RSVG -D1, RI, OM1, TERM OM & PDA)	DR. JAYAKUMAR K
182			29	F	27-Aug-2013	MARFAN'S SYNDROME, TYPE A AO DISS, SEV AR, DIL LV, BI VENT DYSF, SR, G6PD DEFFICIANCY	BENTALL'S PROCEDURE (AVR#25 CHVP, #26 ALBO GRAFT)	DR. JAYAKUMAR K
183			65	M	29-Aug-2013	CAD, TVD, GD LV, SR, HTN, DLP	CABG X 4 GRAFTS (LIMA-LAD, RSVG - OM1, TERM OM, PDA)	DR. JAYAKUMAR K
184			40	M	29-Aug-2013	CAD, LMCA + TVD, GD LV, SR, DLP, HTN	CABG X 5 GRAFTS (LIMA-LAD, RSVG-D1, MAJ OM, TERM OM, DISTAL RCA)	DR. JAYAKUMAR K
185			66	M	30-Aug-2013	CAD, TVD, REC ACS, GD LV, SR, DM, DLP	CABG X 5 GRAFTS (LIMA-LAD, RSVG - D1, MAJ OM, OM2, PDA)	DR. JAYAKUMAR K
186			54	M	2-Sep-2013	CAD, TVD, GD LV, SR	CABG X 4 GRAFTS (LIMA-LAD, RSVG-D1, MAJ OM, PDA)	DR. JAYAKUMAR K
187			66	M	3-Sep-2013	BAV, SEV CAL AS, DILATED ASC AORTA, CAD, SVD, GOOD LV, SR, HTN	AVR#23 PM+ SUPRACORONARY ASC AORTIC REPLACEMENT + CABG X 1 GRAFT (RSVG - PDA)	DR. PRAVEEN VARMA P.K.
188			54	M	4-Sep-2013	CAD, TVD, GD LV, SR, DM, DLP	CABG X 5 GRAFTS (LIMA-LAD, RSVG-RI, OM1, AM PDA, PRE CRUX RCA)	DR. JAYAKUMAR K

S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
189	██████	██████████	60	M	6-Sep-2013	CAD, SVD, REC AWMI, GD LV, SR, HTN, RENAL DYSFUNCTION	OP CAB X 2 GRAFTS (LIMA-LAD, RSVG-D1)	DR. JAYAKUMAR K
190	██████	██████████	64	M	10-Sep-2013	CAD,LMCA+ TVD,MOD LVD/MR, MILD RVD, SR, DM, HTN,	CABG X 5 GRAFTS (LIMA-LAD, RSVG-D1, RI, MAJ OM, RPDA)	DR. JAYAKUMAR K
191	██████	██████████	49	M	11-Sep-2013	CAD, TVD, GD LV, SR, DM, DLP	CABG X 7 GRAFTS (LIMA-LAD, RSVG-D1, D2, OM1, OM2, AM, RCA)	DR. JAYAKUMAR K
192	██████	██████████	18	M	11-Sep-2013	RHD, SEV MS/ MR, MOD PAH, SR	MVR#25 SJM + PMLP	DR. VARGHESE T.PANICKER
193	██████	██████████	65	M	12-Sep-2013	CAD, TVD, REC IWMI, GD LV, SR, DM, HTN, DLP	CABG X 5 GRAFTS (LIMA-LAD, RSVG-D2, MAJ OM, DIST RCA,RPLB)	DR. JAYAKUMAR K
194	██████	██████████ █	68	M	12-Sep-2013	CAD, TVD, MILD AS/AR, GD LV, SR, DM, HTN, DLP, B/L VV	CABG X 4 GRAFTS (LIMA-LAD, RSVG-D1, MAJ OM, PDA)	DR. JAYAKUMAR K
195	██████	██████████	33	F	13-Sep-2013	ACHD, OS ASD, PAPVC OF RUPV, MILD PAH, GD LV, SR	WARDENS PROCEDURE	DR. JAYAKUMAR K
196	██████	██████████	67	M	18-Sep-2013	CAD, TVD, OLD AWMI, MILD LVD, SR, HTN, DLP, BPH, CHRONIC MAXILLARY SINISITIS (OPTD)	CABG X 5 GRAFTS (LIMA-LAD, RSVG-D2, OM2, OM3, RPDA)	DR. JAYAKUMAR K
197	██████	██████████	47	M	19-Sep-2013	CAD, TVD, REC IWMI, MOD LVD, SR, HTN	CABG X 5 GRAFTS (LIMA-LAD, RSVG-D1, OM1, OM2, RPDA)	DR. JAYAKUMAR K
198	██████	██████████	74	M	26-Sep-2013	CAD, TVD, OLD IWMI, MILD LVD, SR, HTN	CABG X 5 GRAFTS (LIMA-LAD, RSVG-D2,RI, OM1, PDA)	DR. JAYAKUMAR K
199	██████	██████████	68	M	26-Sep-2013	CAD, DVD, GD LV, SR, HTN, DLP	CABG X 4 GRAFTS (LIMA-LAD, RSVG-D1, PDA1,PDA2)	DR. JAYAKUMAR K
200	██████	██████████ ██████	58	M	27-Sep-2013	CAD, DVD, OLD IWMI, REC AWMI, MILD-MOD LVD, SR, HTN	CABG X 4 GRAFTS (LIMA-LAD, RSVG-MAJ D, MAJ OM, PDA)	DR. JAYAKUMAR K
201	██████	██████████	48	M	1-Oct-2013	RHD,MOD MR,MOD AR,MOD TR,MOD PAH,AF,NC,DM	DVR (MV # 29 SJM,AV # 25 SJM) + BICUSPIDISATION OF TV.	DR. VARGHESE T.PANICKER

S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
202	██████	██████████	38	M	1-Oct-2013	RHD, P/CMV,SEV MS,MOD AS/AR, ,SEV TS/TR,MILD PAH,GD LV,AF	DVR +TVA (MVR 27 SJM+AVR 21 CHVP +TVA WITH 30 MC3 RING	DR. PRAVEEN VARMA P.K.
203	██████	██████████	62	F	3-Oct-2013	RHD,S/P CMV,SEV REMS,MILD MR,MILD PAH,AF,NC	MVR#27 PM+PMLP	DR.GEORGE J VALOORAN
204	██████	██████████	64	M	3-Oct-2013	CAD,TVD,GD LV,SR,DM,HTN	CABG X 5GRAFTS (LIMA-LAD, RSVG- D1, RI, PDA, 2ND PLB)	DR. JAYAKUMAR K
205	██████	██████████	44	F	4-Oct-2013	ACHD,SVASD,PAPVC,MILD PAH,LSVC,GDLV,SR	DOUBBLE PATCH REPAIR	DR. VIVEK V. PILLAI
206	██████	██████████ ██████████	61	M	17-Oct-2013	SEV CAL AS, MILD PAH, CAD, SVD (RCA), RWMA, HTN , SR	AVR#21 PM MAGNA+ CABG X 1 GRAFT (RSVG-PDA)	DR. VIVEK V. PILLAI
207	██████	██████████	62	F	18-Oct-2013	SAM ,SEV LVOTO,MILD AR/MR, SEV PAH,GDLV,S/P PPI	SAM EXCISION	DR. VARGHESE T.PANICKER
208	██████	██████████ ██████████ ██████████	70	M	18-Oct-2013	CAD, TVD, GD LV, SR, DM, HTN, OLD CVA, B/L V.V	CABG X 4 GRAFTS (LIMA-LAD, RSVG- OM3,LPDA, RPLB)	DR. PRAVEEN VARMA P.K.
209	██████	██████████	61	M	21-Oct-2013	SEV AS, MILD AR, GD LV, SR	AVR # 21 PM MAGNA	DR. PRAVEEN VARMA P.K.
210	██████	██████████ ██████████	73	F	22-Oct-2013	CAD, TVD, MILD MR, MILD PAH, MOD LVD, SR, DM, HTN	CABG X 4 GRAFTS (LIMA-LAD, RSVG- D2, TERM OM, PDA)	DR. JAYAKUMAR K
211	██████	██████████	69	M	23-Oct-2013	CAD, TVD, GD LV, SR, DM, HTN, DLP	CABG X 3 GRAFTS (LIMA-LAD, RSVG- MAJ OM, PDA)	DR. PRAVEEN VARMA P.K.
212	██████	██████████	58	M	24-Oct-2013	CAD,TVD,GD LV, SR, HTN, DLP, EX SOMKER	CABG X5 GRAFTS, LIMA TO LAD, RSVG TO D2, D3, MAJ OM, RCA	DR. JAYAKUMAR K
213	██████	██████████	13	M	25-Oct-2013	RHD, SEV MR, MILD AR, MILD PAH, GD LV, SR	MVR # 27 CHVP + PMLP	DR. PRAVEEN VARMA P.K.
214	██████	██████████	54	M	28-Oct-2013	CAD, TVD, GD LV, B/L SVC, SR, HTN, DLP	CABG X 5 GRAFTS (LIMA-LAD, RSVG- D1, OM1, OM2, DIST RCA)	DR. JAYAKUMAR K

S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
215	██████	██████████████	62	M	29-Oct-2013	CAD, TVD, GD LV, SR	CABG X 5 GRAFTS (LIMA-LAD, RSVG-MAJ D, OM1, OM2, RPDA)	DR. JAYAKUMAR K
216	██████	██████████████	59	M	30-Oct-2013	CAD, LMCA+TVD, GD LV, SR, HTN	CABG X 5 GRAFTS (LIMA-LAD, RSVG-D1, RI, RPDA, RPLB)	DR. JAYAKUMAR K
217	██████	██████████████	74	F	31-Oct-2013	BAV, SEV CAL AS, GD LV, SR, NC	AVR # 19 PM	DR. PRAVEEN VARMA P.K.
218	██████	██████████████	64	M	31-Oct-2013	CAD, LMCA+DVD, LAD DISS, GD LV, SR, RBBB, DM, HTN, COPD	CABG X 3 GRAFTS (RSVG-LAD, D2, MAJ OM)	DR. PRAVEEN VARMA P.K.
219	██████	██████████████	0	F	1-Nov-2013	D TGA,VSD,C TAPVC,REG LV	ASO + TAPVC REPAIR	DR. BAIJU S.DHARAN
220	██████	██████████████	1	M	4-Nov-2013	SV(RV), SEV PAH, DOUBBLE INLET VENTRICLE, PFO, SR	PA BANDING UP TO 28 MM	DR. SABARINATH MENON
221	██████	██████████████	0	F	6-Nov-2013	S/P ASO + TAPVC REPAIR	DSC	DR. SABARINATH MENON
222	██████	██████████████ ██████	1	M	8-Nov-2013	DORV,SAVSD,SEV PAH, GDLV,SR,SINGLE FUNCT KIDNEY	ICR + MV INSPECTION + PFO OPEN	DR. SABARINATH MENON
223	██████	██████████████	0	F	11-Nov-2013	SC TAPVC,SEV PAH,ASD,MILD RV DYSFUNCTION	PRI SUTURELESS REP OF TAPVC + PFO OPEN + STERNUM STENTED	DR. SABARINATH MENON
224	██████	██████████████	0	F	12-Nov-2013	S/P TAPVC REPAIR FOR SC TAPVC, SEV PAH, ASD, MILD RV DYSFN	DSC	DR. THOMAS MATHEW
225	██████	██████████████	1	F	13-Nov-2013	DORV, VSD, SEV PS, S/P BDG, B/L CHYLOTHORAX, LT DIAPH PALSY	LT DIAPHRAGMATIC PPLICATION	DR. SABARINATH MENON
226	██████	██████████████ ██████████████	5	F	14-Nov-2013	ACHD, OS ASD, NO PAH, GOOD LV, SR	MINI STERNOTOMY + TPP CLOSURE OF OS ASD	DR. MRITHYUNJAYA V KALMATH
227	██████	██████████████	1	M	15-Nov-2013	CCHD, SA, DC,CA, SV, DTGA,SEV PS, GD LV, FUNCTIONING RMBTS, DESATURATION	BDG	DR. THOMAS MATHEW

S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
228	██████	██████████	0	M	16-Nov-2013	CCHD, P/IC-TAPVC REPAIR WITH ACUTE INTESTINAL OBSTRUCTION	EXPL LAPROTOMY + RESECTION OF ILEAL STRICTURE & EEA	DR. SABARINATH MENON
229	██████	██████████	0	M	16-Nov-2013	CCHD,OBST C-TAPVC, HYPO LPV, SEV PAH, MOD RVD,SR, S/P TAPVC REPAIR	DSC	DR. SABARINATH MENON
230	██████	██████████ ██████████	2	M	18-Nov-2013	CCHD, TOF, CONFL GOOD PA, SR, NC, HYPOSPADIASIS, SEIZURE DISORDER	TRANS RA-PA ICR+ MPA PLASTY+PFO OPEN	
231	██████	██████████	1	M	18-Nov-2013	CCHD, C TGA, SP VSD, HYPOPLASTIC LT AVV AND RV, SR, S/P BAS	PA BANDING # 25MM	DR. SABARINATH MENON
232	██████	██████████	0	F	19-Nov-2013	ACHD, CAVCD (RASTELLI B), MILD AVVR, SEV PAH, LSV, DOWN	DOUBBLE PATCH REPAIR	DR. THOMAS MATHEW
233	██████	██████████	1	M	19-Nov-2013	CCHD, CTGA, SP VSD, HYPOPL LT AVV AND RV, SEV PAH, S/P BAS, S/P PA BAND # 25 MM	ATRIAL SEPTECTOMY	DR. SABARINATH MENON
234	██████	██████████	10	F	20-Nov-2013	CCHD, SV(LV), SEV PS, S/P BDG(2006), LT DIAPH PLICATION(2013)	EXTRA CARDIAC FENESTRATED FONTAN (#22 MM PTFE YUBE GRAFT AND 4 MM FENESTRATION)	DR. BAIJU S.DHARAN
235	██████	██████████	0	M	21-Nov-2013	CCHD, SC TAPVC, OS ASD, SEV PAH, MOD RV DYSFN, SR	PRIMARY SUTUIRELESS REPAIR + PFO OPEN	DR. BAIJU S.DHARAN
236	██████	██████████	8	F	25-Nov-2013	ACHD, MULT OS ASD, UNROOFED CS, LSV, GOOD LV, SR	TPP CLOSURE OF OS ASD + LSV TO RAA ANASTAMOSIS	DR. SABARINATH MENON
237	██████	██████████	7	F	26-Nov-2013	CCHD, TA, REST VSD, SEV PS, S/P BDG, FAIR PA, FAIR LV FUNCTION, PUL AV FISTULA,SR	EXTRA CARDIAC FENESTRATED FONTAN WITH 20 MM PTFE TUBE GRAFT AND 4 MM FENESTRATION	DR. BAIJU S.DHARAN
238	██████	██████████ ██████████	2	M	27-Nov-2013	ACHD, OS ASD, GOOD LV, SR	MINI STERNOTOMY + TPP CLOSURE OF OS ASD	DR. SABARINATH MENON

S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
239	██████	██████████	0	M	28-Nov-2013	OBSTRUCTED CARDIAC TAPVC, OS ASD, MOD PAH, SR	CS CUT BACK + LLPV PLASTY WITH BPP, PFO OPEN	DR. BAIJU S.DHARAN
240	██████	██████████	0	M	29-Nov-2013	CAVCD (RASTELLI A), PARACHUTE MITRAL VALVE, HYPOPL MITRAL ANNULUS, MILD AVVR, SEV PAH, PARTIALLY URCS, L SVC, GD LV, SR	DOUBBLE PATCH REPAIR	DR. BAIJU S.DHARAN
241	██████	██████████	6	M	2-Dec-2013	CCHD, DORV, SA VSD, SEV VALV & INF PA, S/P LMBTS + PDA LIGATION(2009), LPA ORIGIN STENOSIS, RT ARCH, GOOD LV, SR	REDO STERNOTOMY + LMBTS TAKEDOWN + ICR + TAP + MONOCUSP RECONSTRUCTION OF RVOT, PFO OPEN	DR. BAIJU S.DHARAN
242	██████	██████████	5	M	3-Dec-2013	ACHD, OS ASD, GD LV, SR	TPP CLOSURE OF OS ASD	DR. SABARINATH MENON
243	██████	██████████	2	F	3-Dec-2013	SS, DC, DORV, INFLOW VSD, SMALL ASD, SEV PS, LPA STENOSIS, GD LV, SR	BDG + ATRIAL SEPTECTOMY + LPA PLASTY WITH BPP UP TO HILUM	DR. THOMAS MATHEW
244	██████	██████████	2	M	5-Dec-2013	CCHD, DORV, SP VSD, MILD PS, SEV PAH, GD LV, SR	ASO + VSD CLOSURE, PFO OPEN	DR. BAIJU S.DHARAN
245	██████	██████████	0	M	6-Dec-2013	CCHD, CARDIAC TAPVC, SEV PAH, SMALL ASD, SR	TAPVC REPAIR (RE ROUTING THE PVS TO LA THROUGH THE ASD)	DR. BAIJU S.DHARAN
246	██████	██████████	2	M	9-Dec-2013	CCHD, TOF, GD CONFLUANT PA, RT ARCH, SR	ICR + TAP + MONOCUSP RECONSTRUCTION OF RVOT	DR. THOMAS MATHEW
247	██████	██████████	4	M	10-Dec-2013	ACHD, SP VSD, MILD AR, GD LV, SR	GP CLOSURE OF SP VSD	DR. MV KALMATH
248	██████	██████████	52	M	12-Dec-2013	CAD, TVD, REC ACS, MOD LVD, MILD MR, MILD PAH, SR, DM, HTN, DLP, BA, PVOD, OLD CVA	CABG X 4 GRAFTS (LIMA-LAD, RSVG - OM1, OM3, PDA)	DR. JAYAKUMAR K
249	██████	██████████	0	M	13-Dec-2013	CONGENITAL AS, PRESUBCLAVIAN COA, SA VSD, PDA, S/P BAV, GOOD LV, RT ABBERRANT SCA, B/L SVC, SR	RESECTION AND END TO END ANASTOMOSIS OF COA + PDA DIVISION	DR. BAIJU S.DHARAN

S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
250	██████	██████████	0	M	17-Dec-2013	ACHD, POST SCA COA, BAV, MOD LVD, SR	LT POST LAT THORACOTOMY + REEA	DR. BAIJU S.DHARAN
251	██████	██████████	1	M	17-Dec-2013	CCHD, DTGA, S/P BAS, B/L GROIN HEMATOMA, RT GROIN ABSCESS OPTD, REG LV, DYN LVOTO, SR	SENNINGS PROCEDURE	DR. BAIJU S.DHARAN
252	██████	██████████	0	M	18-Dec-2013	CCHD, DTGA, IVS, POST BAS, REGRESSED LV, 1LCX 2R, SR	ASO + STENTED STERNUM	DR. BAIJU S.DHARAN
253	██████	██████████	21	F	19-Dec-2013	SA VSD, SEV INF PS, GD LV, SR	TRANS RA ICR	DR. SABARINATH MENON
254	██████	██████████	0	M	20-Dec-2013	S/P ASO, STENTED STERNUM	DSC	DR. SABARINATH MENON
255	██████	██████████ ██████████	0	M	20-Dec-2013	CCHD, TA, TRUNCUS ARTERIOSUS TYPE -1, LARGE INFLOW VSD, MULTI ASD, SEV PAH, B/L SVC, SINGLE CORONARY, SR	B/L PA BAND USING 4 MM PTFE TUBE	DR. BAIJU S.DHARAN
256	██████	██████████ ██████████	0	M	23-Dec-2013	CCHD, DTGA, LARGE INFLOW VSD, MULT ASD, HYPOPLASTIC RV, STRADDLING TV, 1L2RCX, SR	ATRIAL SEPTECTOMY + PA BANDING # 22 MM	DR. BAIJU S.DHARAN
257	██████	██████████ ██████	0	M	24-Dec-2013	CCHD, PA, MA, LARGE VSD, ASD, PDA, DUCT DEP PULM CIRC, CONFL PAS, LPA STENOSIS, SR	BDG + LPA PLASTY + ATRIAL SEPTECTOMY	DR. BAIJU S.DHARAN
258	██████	██████████	9	M	26-Dec-2013	ACHD, OS ASD, GOOD LV, SR	TPP CLOSURE OF OS ASD	DR. MRITHYUNJAYA V KALMATH
259	██████	██████████	0	F	26-Dec-2013	ACHD, DC VSD, SEV PAH, GOOD LV, SR	TPP CLOSURE OF DC VSD	DR. THOMAS MATHEW
260	██████	██████████ ██████████	0	M	26-Dec-2013	S/P ATRIAL SEPTECTOMY + PA BANDING # 22 MM	DSC	DR. SABARINATH MENON

S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
261	██████	██████████	0	F	27-Dec-2013	DORV, LARGE INFLOW VSD AMOUNTING TO SV, SEV PAH, SEV POST SCA COA, MILD ARCH HYPOPLASIA, SR	RESECTION AND EXTENDED END TO END ANASTAMOSIS, PA BANDING # 22 MM	DR. BAIJU S.DHARAN
262	██████	██████████	0	F	28-Dec-2013	DORV, SV(LV), DILV, PA, LARGE ASD, PDA, SR	RMBTS # 3MM PTFE GRAFT	DR. SABARINATH MENON
263	██████	██████████	1	F	30-Dec-2013	DORV, LARGE MUSC VSD, UNRESTRICTIVE ASD, HYPOPL LV AND MV, SEV PAH, SR	PA BAND # 27 MM	DR. BAIJU S.DHARAN
264	██████	██████████	7	F	2-Jan-2014	SV ASD,IVC TYPE,PAPVC,GD LV, SR	TPP CLOSURE- IVC TYPE OF SV ASD	DR. THOMAS MATHEW
265	██████	██████████	0	F	3-Jan-2014	ACHD, SEV POST SUB CLAV COA, ASD, SEV PAH, GD LV, SR	RESECTION AND END TO END ANASTAMOSIS	DR. THOMAS MATHEW
266	██████	██████████	16	M	6-Jan-2014	CCHD, TOF, CCHD, TOF, GOOD PA ANATOMY, SR, GOOD PA ANATOMY, SR	ICR + SHORT TAP +MONOCUSP RECONSTRUCTION OF RVOT	DR. THOMAS MATHEW
267	██████	██████████	2	M	6-Jan-2014	ACHD, SV ASD, PAPVC OF RUPV, B/L SVC, GD LV, SR	DOUBLE PATCH REPAIR (ASD CLOSURE + PAPVC REROUTING)	DR. THOMAS MATHEW
268	██████	██████████	12	F	7-Jan-2014	ACHD, SUB AO MEMB, SEV AS, MOD AR, SEV LVD, MOD TR/PAH, MOD RVD,S/P PDA LIGATION, SR	EXCISION OF SUB AORTIC MEMBRANE	DR. THOMAS MATHEW
269	██████	██████████	1	F	8-Jan-2014	SA VSD, SEV PAH, B/L SVC, SR	GP CLOSURE OF SA VSD	DR. SABARINATH MENON
270	██████	██████████	3	M	9-Jan-2014	ACHD, SV ASD, PAPVC OF RUPV, GD LV, SR	WARDEN'S PROCEDURE	DR. SABARINATH MENON
271	██████	██████████	0	F	9-Jan-2014	CCHD, SC TAPVC, UNRESTRICTIVE ASD, MILD PAH, SR	PRIMRY SUTURELESS REPAIR OF TAPVC + WARDENS PROCEDURE	DR. BAIJU S.DHARAN

S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
272	██████	██████████████████	1	M	13-Jan-2014	CCHD, SC TAPVC, UNREST ASD, MILD PAH, SR	PRIMARY SUTURELESS REPAIR OF TAPVC	DR. THOMAS MATHEW
273	██████	██████████████	0	M	16-Jan-2014	CCHD, DTGA, IVS, OSASD, PRESERVED LV, 1L 2RCX, SR	ASO + STENTED STERNUM	DR. BAIJU S.DHARAN
274	██████	██████████████	1	M	17-Jan-2014	SA VSD, SEV INF PS, GD PA, NC, SR	TRANS RA ICR	DR. THOMAS MATHEW
275	██████	██████████████	0	M	17-Jan-2014	S/P ASO WITH STERNAL STENTING FOR DTGA	DSC	DR. SABARINATH MENON
276	██████	██████████████████	0	F	18-Jan-2014	ACHD, BAV, POST SCA COA, MILD ARCH HYPOPLASIA, SEV LVDY, SEV PAH, MILD RVD, SR	COA REPAIR+ PDA INTRUPPTION	DR. THOMAS MATHEW
277	██████	██████████████	3	M	21-Jan-2014	CCHD, TOF, BPV, MILD INF PS, GD PA ANAT, MOD PAH, GD LV, SR	TRANS RA ICR (GP CLOSURE OF VSD + INFUNDIBULAR RESECTION)	DR. BAIJU S.DHARAN
278	██████	██████████████	1	M	22-Jan-2014	CCHD, TOF, SEV VALVAR AND INFUNDIBULAR PS, CONFLUANT PA ANAT, LPA ORIGIN STEN, SR	ICR + TAP + MONOCUSP RECONSTRUCTION OF RVOT + LPA PLASTY	DR. THOMAS MATHEW
279	██████	██████████████████	0	M	23-Jan-2014	CCHD, OBSTRUCTED SC TAPVC, RESTRICTIVE ASD, SEV PAH, SR	PRIMARY SUTURELESS REPAIR OF TAPVC + PFO OPEN	DR. BAIJU S.DHARAN
280	██████	██████████████	4	M	3-Feb-2014	ACHD, POST ASD, PFO, GD LV, SR	TPP CLOSURE OF POSTERIOR ASD + DIRECT CLOSURE OF PFO	DR. MRITHYUNJAYA V KALMATH
281	██████	██████████████████	2	M	3-Feb-2014	CCHD, TA SEV PS ASD B/L SVC SR	B/L BDG	DR. THOMAS MATHEW
282	██████	██████████████	1	M	4-Feb-2014	CCHD, SC TAPVC, UNRESTRICTIVE ASD, MILD PAH, SR	MODIFIED PRIMARY SUTURELESS REPAIR OF TAPVC	DR. BAIJU S.DHARAN
283	██████	██████████████████ ██████████	3	M	5-Feb-2014	CCHD, TOF (MAL ALIGNED SA VSD + SEV INF STEN), GD PA ANAT, SR	ICR + RVOT PATCH + MPA PLASTY	DR. SABARINATH MENON
284	██████	██████████████████ ██████████	0	M	6-Feb-2014	CCHD, OBSTRUCTED MIXED TAPVC, RESTRICTIVE OS ASD, SEV PAH, SR	CORONARY SINUS CUT BACK + LAA TO VERTICAL VEIN ANASTAMOSIS + PFO OPEN	DR. BAIJU S.DHARAN

S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
285	██████	██████████	3	F	7-Feb-2014	CCHD TA, PA, PDA, SR	BDG + CONFL PLASTY + PDA LIG	DR. SABARINATH MENON
286	██████	██████████	0	M	10-Feb-2014	ACHD, BAV, SEV POST SCA COA, MILD MR, PFO, GOOD LV FN, SR	RESECTION AND END TO END ANASTAMOSIS	DR. BAIJU S.DHARAN
287	██████	██████████	1	M	11-Feb-2014	ACHD, LARGE SA VSD, SMALL ASD, SEV PAH, GD LV, SR	GP CLOSURE OF SA VSD	DR. BAIJU S.DHARAN
288	██████	██████████	0	M	13-Feb-2014	CCHD, DTGA, IVS, OS ASD, LA/LV OVERLOAD, 1LCX 2R, MAPCA, SR	ASO + MAPCA LIGATION + STENTED STERNUM	DR. BAIJU S.DHARAN
289	██████	██████████	0	M	14-Feb-2014	SP/ASO WITH STENTED STERNUM	DSC	DR. SABARINATH MENON
290	██████	██████████	3	M	17-Feb-2014	CCHD, SC TAPVC, SEV VALVULAR PS, GD LV, SR	TAPVC REPAIR (REROUTING OF PVS TO LA THROUGH ASD + WARDENS PROCEDURE) + PUL VALVOTOMY	DR. SABARINATH MENON
291	██████	██████████	0	M	17-Feb-2014	S/P ASO, VSD CLOSURE, CHB	PPI IMPLANTATION	DR. SABARINATH MENON
292	██████	██████████	15	F	24-Feb-2014	OS ASD, MILD PAH, GD LV, SR	TPP CLOSURE OF OS ASD	DR. MV KALMATH
293	██████	██████████	10	F	25-Feb-2014	ACHD, OSASD, GD LV, SR	DIRECT CLOSURE OF OS ASD	DR. SABARINATH MENON
294	██████	██████████	0	M	26-Feb-2014	CCHD, OBS SC TAPVC, OS ASD, MOD PAH, GD LV, SR	PRIMARY SUTURELESS REPAIR OF TAPVC + PFO OPEN	DR. BAIJU S.DHARAN
295	██████	██████████	0	M	28-Feb-2014	CCHD, DTGA, IVS, LARGE ASD, REGRESSING LV, 1L 2RCX	ASO + STENTED STERNUM	DR. BAIJU S.DHARAN
296	██████	██████████	0	M	3-Mar-2014	ACHD, SEV POST SCA COA, MILD ARCH HYPOPLASIA, MILD MR, SEV LV DYSFUNCTION, SR	RESECTION AND EXTENDED END TO END ANASTAMOSIS	DR. BAIJU S.DHARAN
297	██████	██████████	0	M	5-Mar-2014	ACHD, MALALIGNED SA VSD, MILD PS, SEV PAH, SR, NOONAN'S SYNDROME	TPP CLOSURE OF SA VSD	DR. THOMAS MATHEW
298	██████	██████████	1	M	6-Mar-2014	ACHD, SP VSD, NO PAH, SR	TPP CLOSURE OF SP VSD	DR. THOMAS MATHEW

S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
299	██████	██████	1	M	6-Mar-2014	CCCHD, SS, DC, CTGA, HYPOPLASTIC LT AVV, SEV PS, CONF PA ANAT, SR	BDG	DR. THOMAS MATHEW
300	██████	██████	1	F	7-Mar-2014	ACHD, LARGE SA VSD, SEV PAH, GD LV, SR	TPP CLOSURE OF SA VSD	DR. THOMAS MATHEW
301	██████	██████	4	M	7-Mar-2014	ACHD, MALALIGNED SA VSD, SEV PAH, MILD INF PS, MOD TR, GD LV, SR	TPP CLOSURE OF SA VSD + INFUNDIBULAR RESECTION + TV REPAIR (AS COMMISSUROPLASTY)	DR. THOMAS MATHEW
302	██████	██████	0	F	8-Mar-2014			DR. THOMAS MATHEW
303	██████	██████	0	F	9-Mar-2014	CCHD, SV OF RV MORPH (DTGA, HYPOPLASTIC LV), SC TAPVC, B/L SVC, DUCT DEPENDENT PULM CIRC, SR	PRIMARY SUTURELESS REPAIR OF SC TAPVC, B/L BDG	DR. THOMAS MATHEW
304	██████	██████	0	F	10-Mar-2014	S/P TAPVC REPAIR + BDG, STENTED STERNUM	DSC	DR. THOMAS MATHEW
305	██████	██████	0	M	12-Mar-2014	ACHD, CAVCD (RASTELLI TYPE A), MOD MR, SEV PAH, GD LV	DOUBBLE PATCH REPAIR + MV ANNULOPLASTY	DR. BAIJU S.DHARAN
306	██████	██████	5	F	13-Mar-2014	ACHD, OS ASD, PAPVC OF RUPV TO SVC RA JN, MOD VALV PS, SR	WARDEN'S PROCEDURE + CLOSED PULMONARY VALVOTOMY	DR. SABARINATH MENON
307	██████	██████████ █	0	M	14-Mar-2014	CCHD, TA TYPE 1B, STECHED OPEN PFO, GD PA ANATOMY, SR	BDG + ATRIAL SEPTECTOMY	DR. SABARINATH MENON
308	██████	██████	0	F	16-Mar-2014	CCHD, SV(LV), UNBALANCED AVCD, PA, OBSTRUCTED SC TAPVC, DUCT DEPENDENT PBF, FAIR PA ANATOMY, MOD AR, SR	PRIMARY SUTURELESS REPAIR OF TAPVC + RMBTS 3MM PTFE TUBE GRAFT	DR. SABARINATH MENON
309	██████	██████████	6	F	17-Mar-2014	ACHD, OS ASD, MILD PAH, SR	TPP CLOSURE OF OS ASD	DR. MOHAMMED IDHREES.
310	██████	██████████	3	F	19-Mar-2014	ACHD, SA VSD, NO PAH, GD LV, SR	GP CLOSURE OF SA VSD	DR. SABARINATH MENON

311			1	F	20-Mar-2014	ACHD, SA VSD, SEV PAH, SR	TPP CLOSURE OF SA VSD	DR. THOMAS MATHEW
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S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
312			0	F	24-Mar-2014	LARGE MUSC VSD, SEV PAH, SR	TPP CLOSURE OF SA VSD	DR. THOMAS MATHEW
313			0	F	25-Mar-2014	ACHD,LARGE SA VSD, SMALL ASD, MVP, MILD-MOD MR,SEV PAH,SR	GP CLOSURE OF SA VSD + MV ANNULOPLASTY	DR. SABARINATH MENON
314			10	M	26-Mar-2014	S/P ICR+TAP+MONOCUSP RECON OF RVOT WITH PE	SUBXIPHOID DRAINAGE OF PE	DR. SABARINATH MENON
315			3	F	27-Mar-2014	OS ASD, MILD PAH, GD LV, SR	TPP CLOSURE OF OS ASD	DR. MV KALMATH
316			2	F	27-Mar-2014	CHB WITH NARROW QRS ESCAPE, DIALATED LV	EPICARDIAL VVI PACING LEAD PLACEMENT + PG IMPLANTATION	DR. THOMAS MATHEW
317			0	F	28-Mar-2014	ACHD, SA VSD, SEV PAH, PFO, SR	GP CLOSURE OF SA VSD + PFO MADE RESTRICTIVE	DR. SABARINATH MENON
318			0	M	28-Mar-2014	S/P RMBT SHUNT + ATRIAL SEPTECTOMY	DSC	DR. SABARINATH MENON
319			0	M	31-Mar-2014	CCHD, D-TGA,IVS, S/P BAS, PRESERVED LV, ILCX 2R, SR	ASO + STENTED STERNUM	DR. BAIJU S.DHARAN
320			59	M	1-Apr-2014	RHD, P/CMV,SEVERE MS, MODERATE MR, GOOD LV, AF,NC	MVR#23 CHVP	DR. VARGHESE T.PANICKER
321			37	F	1-Apr-2014	SV ASD, PAPVC OF RUPV TO SVC-RA JN, MILD PAH, GOOD LV, SR	DOUBBLE PATCH REPAIR (ASD CLOSURE + PAPVC REROUTING)	DR. BINEESH K.R.
322			58	M	2-Apr-2014	SEV CAL AS, MOD AR, MILD MR, MILD MS, GDLV, SR, NC	AVR # 21 CHVP	DR. VARGHESE T.PANICKER
323			66	M	3-Apr-2014	CAD, LMCA+TV D, REC ACS (IWMI), GOOD LV, SR	CABG X 5 GRAFTS (LIMA-LAD, RSVG- D1, RI, MAJ OM, DIST RCA)	DR. JAYAKUMAR K

324	██████	██████████	42	F	4-Apr-2014	CAD, OLD MI, DVD, GD LV, ATTEMPTED PCI TO RCA WITH DISSECTION OF DISTAL RCA, SR, HTN, DM, DLP	CABG X 3 GRAFTS (LIMA-LAD, RSVG- PDA, 2ND PLB)	DR. JAYAKUMAR K
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S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
325	██████	██████████ ██████████	63	M	7-Apr-2014	CAD ,TVD, FAIR LV, SR,DM, HTN	CABGX 5GRAFTS, (LIMA-LAD, RSVG- D1,BOTH BR OF MAJ OM,DIST RCA)	DR. JAYAKUMAR K
326	██████	██████████ ██████████	39	M	9-Apr-2014	CLEFT AML,SEV MR,SEV PAH,FAIR LV, SR,HYPOTHYROIDISM	MV REPAIR (A1 CLEFTCLOSURE, ATRIFICIAL CHORDAE TO NEO COMMISURE + ANNULOPLASTY #28 SADDLE RING)	DR. VARGHESE T.PANICKER
327	██████	██████████	72	F	11-Apr-2014	CABG TVD GOOD LV SR DM HTN	CABGX 5GRAFTS, (LIMA-LAD, RSVG- D1, MAJ OM, LPDA, LPLB)	DR. JAYAKUMAR K
328	██████	██████████	60	F	14-Apr-2014	RHD,SEV CAL AS,MOD AR,MOD LVD,SEV PAH,MILD MR,SR,NC	AVR#21 PM	DR. VARGHESE T.PANICKER
329	██████	██████████	72	M	16-Apr-2014	CAD,SVD,SEV CAL AS,GD LV,SR, HTN,CA THYROID OPTD, BPH S/P TURP,OLD CVA	AVR # 21PM+ CABG X 2 GRAFTS (RSVG TO LAD,D1)	DR. VARGHESE T.PANICKER
330	██████	██████████	41	M	21-Apr-2014	RHD, SEV MS, MOD MR, MOD PAH, GDLV, SR, NC	MVR # 25 CHVP WITH PARTIAL PMLP + LA CLOT EXTRACTION AND LAA EXCLUSION	DR. VARGHESE T.PANICKER
331	██████	██████████	44	M	21-Apr-2014	RHD,SEV MR,SEV AR,SEV PAH,SR,FAIR LV, NC	DVR AV#25 CHVP,MV#29CHVP	DR. PRAVEEN VARMA P.K.
332	██████	██████████	39	M	22-Apr-2014	RHD,SEV CAL MS,MOD MR,MILD AR, MOD PAH,OLD CVA,GDLV,SR	MVR #CHVP 27 WITH PARTIAL PMLP	DR. PRAVEEN VARMA P.K.
333	██████	██████████	63	F	23-Apr-2014	CAD,TVD,GDLV,SR,DM,HTN,DLP	CABG X 4 GRAFTS (LIMA TO LAD,RSVG TO D2,TER OM,DIS RCA)	DR. JAYAKUMAR K
334	██████	██████████	59	M	24-Apr-2014	RHD, SEV AS/AR, FAIR LV, SR, NC	AVR # 23 CHVP	DR. PRAVEEN VARMA P.K.

335	██████	██████	16	F	25-Apr-2014	ACHD, OS ASD,GDLV,SR	TPP CLOSURE OF OS ASD (RIGHT THORACOTOMY)	DR. VARGHESE T.PANICKER
336	██████	██████	58	M	28-Apr-2014	CAD,TVD,MOD MR,GDLV,SR	CABGX 4 GRAFT(LIMA- LAD, RSVG-DIAG, RAMUS, LPLB)	DR. PRAVEEN VARMA P.K.

S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
337	██████	██████	56	F	29-Apr-2014	RHD,SEV MS, MOD MR, MILD AR, MILD PAH,AF, NC	MVR # 25 CHVP + PMLP	DR. VARGHESE T.PANICKER
338	██████	██████	60	M	30-Apr-2014	BAV, SEV CAL AS, MILD AR, GDLV, SR, DM, HTN	AVR#19 PM	DR. BINEESH K.R.
339	██████	██████	60	M	2-May-2014	SEV CAL AS MOD AR GDLV SR NC	AVR # 21 PM	DR. VARGHESE T.PANICKER
340	██████	██████	43	F	5-May-2014	RHD,SEV CAL MS,MILD MR,MOD TR,ORG TVD,RVD,MOD PAH,GDLV,SR,NC	MVR#27CHVP+PMLP	DR. PRAVEEN VARMA P.K.
341	██████	██████	50	M	6-May-2014	MVP,SEV MR,SEV CALCIFIC MITRAL ANNULUS, GDLV, SR,NC,AVNRT(ABLATED)	MV REPAIR (P1,P2 CLEFT REPAIR+ 31TAILOR RING ANNULOPLASTY)	DR. PRAVEEN VARMA P.K.
342	██████	██████	36	M	7-May-2014	MARFANS SYNDROME, ANNULO AORTIC ECTASIA, ASC AORTIC DISSECTION, SEV AR, GDLV, SR	MODIFIED BENTALLS PROCEDURE (AVR# 27 CHVP, # 28 ALBO GRAFT)	DR. JAYAKUMAR K
343	██████	██████	54	M	8-May-2014	SEV CAL AS, MOD AR, GOOD LV, SR, DM, NC	AVR#21 CHVP	DR. BINEESH K.R.
344	██████	██████	53	F	9-May-2014	RHD,SEV MS,MOD MR,MILD AR,GDLV,MOD- SEV PAH,SR,NC	MVR #23 CHVP+PML	DR. BINEESH K.R.
345	██████	██████	74	M	10-May-2014	CAD,REC AWMI,,NSTEMI,LMCA+TVD,CHF(TREATED)FAIR LV,SR,DM,HTN,	CABGX 4 GRAFTS, RSVG-LAD,D1,MAJ OM,PDA	DR. VIVEK V. PILLAI

346	████	████	32	F	11-May-2014	IE OF MV,SEV MR,SEV PAH,GOOD LV,RV DYSFUNCTION,SR,S/P RIGHT FEMORAL EMBOLCTOMY	MVR# 25 CHVP+ PMLP+ LAPOROTOMY AND SPLENECTOMY	DR. VIVEK V. PILLAI
347	████	██████████	60	F	12-May-2014	CAD,TVD,GDLV,SR,DM,HTN,DLP,B/L ICA STENOSIS,H/O CVA-RIGHT HEMIPLEGIA	CABG X 5 GRAFTS(LIMA- LAD, RSVG TO D1,OM1,OM2,RPDA)	DR. JAYAKUMAR K

S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
348	████	██████████ ████	65	M	13-May-2014	CAD, TVD, CONC LVH, GDLV, HTN, DM, SR, COPD	CABG X 6 GRAFTS,(LIMA-LAD, RSVG- D1, OM1, OM2, RPDA & RPLB)	DR. JAYAKUMAR K
349	████	██████████	60	F	15-May-2014	CAD,TVD,GDLV,SR,DM,HTN	CABG X 4 GRAFTS(LIMA TO LAD,RSVG TO D1,RPDA,RPLB)	DR. JAYAKUMAR K
350	████	██████████ ██████████	58	F	16-May-2014	ALCAPA, MILD MR, GDLV, SR	LCA TRANSLOCATION WITH VEIN GRAFT INTERPOSITION	DR. JAYAKUMAR K
351	████	██████████	61	M	19-May-2014	ANNULOARTIC ECTASIA,SEV AR, CAD,SVD,GDLV,SR, DM,HTN,DLP	MOD BENTALLS PROCEDURE (AVR #27 CHVP+ 28 ALBOGRAFT) + CABG X 2 GR (LIMA- LAD, RSVG TO D1)	DR. JAYAKUMAR K
352	████	██████████ ██████████	67	M	20-May-2014	CAD TVD GDLV SR DM HTN DLP	CABGX 4GRAFTS, (LIMA-LAD,RSVG- RI,MAJ OM,PDA)	DR. PRAVEEN VARMA P.K.
353	████	██████████	66	M	21-May-2014	CAD, LMCA+TVD, OLD AWTMI, LVD, SR, DM,HTN,DLP	CABGX4 GRAFTS, (LIMA-LAD, RSVG- RI, OM & RPLB)	DR. PRAVEEN VARMA P.K.
354	████	██████████	39	M	22-May-2014	MVP (P2 PROLAPSE), SEV MR, MOD PAH, FAIR LV, PAROX AF	MV REPAIR (P2 TRI RESECTION + #35 TAYLOR RING NNULOPLASTY)	DR. PRAVEEN VARMA P.K.
355	████	██████████	54	M	23-May-2014	CAD, TVD, AWTMI, SEV LVD, SR, DM, VV B/L, COPD	CABG X 3 GRAFTS LIMA- LAD, RSVG- OM4 AND DISTAL RCA	DR. PRAVEEN VARMA P.K.
356	████	██████████ ████	51	M	26-May-2014	CAD TVD GDLV SR DM	CABG X6 GRAFTS (LIMA - LAD, RSVG - D1, RI, OM1, OM2, RPDA)	DR. JAYAKUMAR K

357	██████	██████████ ██████	65	M	26-May-2014	BAV SEV CAL AS MILD AR SEV LVD MOD PAH SR NC	AVR #21 PM	DR. VIVEK V. PILLAI
358	██████	██████████	57	M	27-May-2014	CA,,DVD, NSTEMI (DEC 13), IWMI (2005), SR, DM, HTN, DLP	CABG X 3 GRAFTS LIMA-LAD , RSVG TO MAJ DIAGONAL AND RPDA	DR. VIVEK V. PILLAI
359	██████	██████████ ██████	58	M	28-May-2014	CAD,TVD,OLD AW&IWMI,SEV LVD,MILD MR,DM,SR	CBGX5 GRFTS,LIMA-LAD,RSVG- OM1,TERM OM,DISTL RCA,RI +LV PLICATION	DR. JAYAKUMAR K

S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
360	██████	██████████	61	M	29-May-2014	CAD,OLD IWMI (1991), REC NSTEMI (DEC 13), GDLV, HTN, DLP, COPD	CABG X 6 GRAFTS (LIMA-LAD, RSVG- MAJ DAIG, BOTH BRANCHES RAMUS, RPLB AND RV BRANCH	DR. VIVEK V. PILLAI
361	██████	██████████	76	M	30-May-2014	CAD,TVD,GDLV,S/P PCI TO RCA WITH DISSECTION ,LMCA,DM,SR	CABGX 7 GRAFTS, (LIMA-LAD,RSVG- DISTAL LAD,D1,RI,OM1,OM3,RPDA)	DR. JAYAKUMAR K
362	██████	██████████	74	M	2-Jun-2014	CAD,TVD,GDLV,SR,DM,HTN, DLP,VV B/L LL	CABG X 3 GRAFTS, (LIMA-LAD, RSVG TO MAJ OM AND RPDA)	DR. PRAVEEN VARMA P.K.
363	██████	██████████	44	F	3-Jun-2014	RHD, SEV CAL AS, MILD MS, GDLV, MOD PAH, SR	AVR#19SJR + OMV	DR. PRAVEEN VARMA P.K.
364	██████	██████████	69	F	4-Jun-2014	RHD,S/P CMV(1992),S/P B/L FEM EMBOLECTOMY(1990),SEV RE MS,MOD TR,MILD MR,GDLV,SR	MVR #23 CHVP + TVA # 28 MC3 RING	DR. PRAVEEN VARMA P.K.
365	██████	██████████	60	M	5-Jun-2014	CAD,REC MI,REC ANGINA,TVD,MOD LVD,SR	CABGX 5GRAFTS, (LIMA-LAD, RSVG- D2,MAJ OM,TERM OM,RPDA	DR. PRAVEEN VARMA P.K.
366	██████	██████████ ██████	73	M	6-Jun-2014	CAD,TVD,REC ACS,FAIR LV,SR	CABG X 4 GRAFTS (LIMA-LAD; RSVG- D1,OM1,LPDA)	DR. JAYAKUMAR K
367	██████	██████████	30	M	15-Jun-2014	STANFORD TYPE A AORTIC DISS, SEV AR(RCC PROLAPSE), GDLV,SR,MARFANS SYNDROME	SUPRACORONARY ASC AO REPLACEMENT (24 DACRON GRAFT)+ RESUSP OF AV	DR. JAYAKUMAR K

368	██████	██████	48	F	16-Jun-2014	RHD,SEV CAL MS,MOD MR,MILD MR,,GDLV,SR,DM	MVR #25 CHVP	DR. VARGHESE T.PANICKER
369	██████	██████████	68	M	16-Jun-2014	CAD,TVD,GDLV,SR,DM,HTN,DLP	CABG X 3 GRAFTS(LIMA-LD,RSVG-D1,PDA)	DR. JAYAKUMAR K
370	██████	██████	45	M	17-Jun-2014	CAD,TVD,GDLV,SR,DM,HTN,DLP	CABG X 4 GRAFTS, (LIMA-LAD. RSVG-OM,TERM OM,PDA)(OM PIGGYBACKED TO TERM OM)	DR. VIVEK V. PILLAI
371	██████	██████	71	F	18-Jun-2014	BAV, SEV CAL AS, MOD MR, GD LV, SR, NC, DM, HTN	AVR#21PM	DR. VARGHESE T.PANICKER

S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
372	██████	██████████	65	F	18-Jun-2014	CAD,TVD,GDLV,SR,DM,HTN	CABGX 5 GRAFTS, (LIMA-LAD, RSVG-D1,OM,DISTAL RCA)	DR. JAYAKUMAR K
373	██████	██████████	40	M	19-Jun-2014	OS ASD, SEV MR, MILD TR, FAIR LV, SR, NC	TPP CLOSURE OF OS ASD + MV REPAIR WITH 28 SADDLE RING	DR. PRAVEEN VARMA P.K.
374	██████	██████████	73	M	19-Jun-2014	SEV CAL AS,MOD -SEV AR MOD LVD,PAROXYSMAL AF,NC	AVR#21PM	DR. BINEESH K.R.
375	██████	██████████	24	M	20-Jun-2014	RHD, SEV AS, MOD AR, MOD MS, GD LV, SR	AVR#23CHVP + OMV (B/L COMMISSUROTOMY)	DR. PRAVEEN VARMA P.K.
376	██████	██████████	54	M	23-Jun-2014	CAD,TVD,GDLV,SR,DM	CABGX 4 GRAFTS,LIMA-LAD,RSVG-OM1,TERM OM,RPDA	DR. VIVEK V. PILLAI
377	██████	██████████	50	M	23-Jun-2014	CAD,TVD,REC AMI,GDLV,SR,DM	CABGX 6 GRAFTS (LIMA-LAD, RSVG-D1,MAJ OM,TERM OM,RCA,RPDA)	DR. JAYAKUMAR K
378	██████	██████████	53	M	25-Jun-2014	CAD,TVD,GD LV, SR, DM, HTN,HCV +VE	CABG X 5 GRAFTS, (LIMA-LAD; RSVG-LAD,D1,MAJOR OM, RPDA)	DR. VIVEK V. PILLAI
379	██████	██████████	51	M	26-Jun-2014	CAD, TVD, REC AWWMI, RWMA, SEV LVD, DM, HTN, DLP	CABGX 6 GRAFTS (LIMA-LAD, RSVG-BOTH BR OF D, MAJ OM, TERM OM & RPDA) + LV PICATION	DR. JAYAKUMAR K

380	████	██████████	53	M	27-Jun-2014	CAD,TVD,GDLV,SR,DM,HTN	CABG X 5 GRAFTS (LIMA-LAD, RSVG-D1,D2,OM,PDA)	DR. JAYAKUMAR K
381	████	██████████	64	M	27-Jun-2014	SEV CAL AS,MILD AR,MILD MR, GDLV,MOD PAH,CHB	AVR # 23 PM +CABG X 1 GRAFT(RSVG- RI)	DR. VARGHESE T.PANICKER
382	████	██████████	64	F	30-Jun-2014	CAD,TVD,GD LV,SR,DLP	CABG X 4 GRAFTS (LIMA-LAD, RSVG-OM1, PDA,PLB)	DR. JAYAKUMAR K
383	████	██████████	65	M	30-Jun-2014	SEV CAL AS,GDLV,MILD PAH,MILD-MOD MR,SR,NC.	AVR # 19 PM	DR. PRAVEEN VARMA P.K.
384	████	██████████	56	F	1-Jul-2014	RHD, S/P BMV, SEV MR, MOD MS, MILD PAH, AF, NC	MVR#25 CHVP + PMLP	DR. PRAVEEN VARMA P.K.

S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
385	████	██████████	55	M	1-Jul-2014	CAD,TVD,SEV LVD,SR,DM,HYPOTHYROID	CABG X 5 GRAFTS (LIMA-LAD, RSVG-DIS LAD, D1, MAJ OM, PDA)	DR. VIVEK V. PILLAI
386	████	██████████	29	M	2-Jul-2014	RHD,SEV MR,MOD MS, MOD TR,MOD PAH,GOOD LV, AF	MVR#25CHVP + PMLP	DR. PRAVEEN VARMA P.K.
387	████	██████████	83	M	2-Jul-2014	CAD,TVD,GD LV,SR	CABG X4 GRAFTS, (RSVG-LAD, MAJ.DIAGONAL,RPDA & RPLB)	DR. PRAVEEN VARMA P.K.
388	████	██████████	53	F	3-Jul-2014	SEV CAL AS,MILD AR,GDLV,SR,NC,DM	AVR # 19 SJR	DR. PRAVEEN VARMA P.K.
389	████	██████████	62	M	4-Jul-2014	BAV, SEV AS, MILD AR,GD LV,SR,NC.	AVR#21PM	DR. BINEESH K.R.
390	████	██████████	68	F	4-Jul-2014	CAD,TVD,GDLV,SR,DM,HTN,OBESITY,DLP,HYPOTHYROID	CABG X 4 GRAFTS (LIMA LAD , RSVG-D1,MAJ OM,RPLB)	DR. PRAVEEN VARMA P.K.
391	████	██████████	58	F	7-Jul-2014	RHD,S/P CMV,S/P BMV,SEV REMS,MILD AR,MOD PAH,SR,GDLV,NC	MVR (# 25 CHVP) + PMLP	DR. VARGHESE T.PANICKER

392	██████	██████████ █	51	M	7-Jul-2014	CAD,TVD,GDLV,SR,HTN,DLP	CABG X 5 GRAFT, (LIMA-LAD, RSVG-D1,RI,OM,PDA)	DR. JAYAKUMAR K
393	██████	██████████	15	M	8-Jul-2014	RHD,SEV MR,MOD AR,SEV TR,SEV PH,WPWS,S/P RFA,GDLV	DVR (MVR#25CHVP, AVR#19 CHVP) +BICUSP OF TV + ABALATION OF ACCESSORYPATHWAY	DR. VARGHESE T.PANICKER
394	██████	██████████	66	M	9-Jul-2014	MARFANS SYNDROME,SEV AR, MOD AS,ASC AO ANEURYSM,DIL LV,MILD LVD,SR,NC,BA.	MODIFIED BENTALLS PROCEDURE (AVR # 25 PM + 26 MM ALBOGRAFT)	DR. JAYAKUMAR K
395	██████	██████████	65	F	10-Jul-2014	LA MYXOMA,MILD LV INFLOW OBSTRUCTION,GOOD LV,SR,DM,HTN,NC	EXCISION OF LA MYXOMA	DR. VARGHESE T.PANICKER

S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
396	██████	██████████	48	M	11-Jul-2014	CAD,TVD,GDLV,SR,DM.	CABGX 4 GRAFTS, (LIMA-LAD, RSVG-D1, MAJ OM,PDA)	DR. VIVEK V. PILLAI
397	██████	██████████	53	M	14-Jul-2014	MVP,FLAIL P2,SEV MR,DIL.LV,GDLV,SR,NC	MV REPAIR (P2 TRIANGULAR RESECTION +TAYLOR # 27 RING)	DR. VARGHESE T.PANICKER
398	██████	██████████	61	M	14-Jul-2014	CADTVD,GDLV,SR,DM,HTN,HYPOT HYROIDISM	CABGX 5 GRAFTS, (LIMA-LAD, RSVG-MAJ OM,AM,PLB,OM2)	DR. JAYAKUMAR K
399	██████	██████████	31	M	15-Jul-2014	RHD,S/P CMV(1999)SEV MS,MILD MR,MILD AR,GOOD LV,SR	MVR#25 SJM	DR. VIVEK V. PILLAI
400	██████	██████████	55	F	16-Jul-2014	DIL ASC AORTA ROOT,MOD AR,DIL LV,GDLV,SR	MODIFIED BENTALLS PROCEDURE (19 CHVP + 22 ALBO GRAFT)	DR. JAYAKUMAR K
401	██████	██████████	22	M	17-Jul-2014	IE MITRAL VALVE,AML PERFORATION,SEV MR,MVP,SR	MVR#27CHVP +PMLP + TVA (# 30 MC3 RING)	DR. VARGHESE T.PANICKER
402	██████	██████████	25	F	17-Jul-2014	RHD, SEV MS/MR, MILD PAH, SR	MVR# 25 CHVP + PMLP	DR. MV KALMATH

403	██████	██████████████	47	M	18-Jul-2014	RHD,MOD MS,SEV MR,MOD-SEV AS,MILD AR,SEV PAH,GDLV,SR	DVR (MVR # 25 CHVP & AVR # 21 CHVP) + CABG X 2 GRAFTS (RSVG-LAD & MAJ. DIAGONAL)	DR. VARGHESE T.PANICKER
405	██████	██████████████ ██████████	56	M	18-Jul-2014	CAD,TVD,MILD LVD,SR,HTN	CABGX5 GRAFTS (LIMA-LAD, RSVG-MAJ DIAG, MAJ OM, TERM OM,RI,) + LV LINEAR PLICATION	DR. JAYAKUMAR K
406	██████	██████████ ██████████	51	M	21-Jul-2014	CAD,DVD,GDLV,DLP,SR	CABGX 3 GRAFT(LIMA-LAD, RSVG-DIAGONAL, PDA)	DR. PRAVEEN VARMA P.K.
407	██████	██████████	51	F	21-Jul-2014	RHD,SEV RE MS,S/P BMV,SEV AS,MOD TR,SEV PAH,GDLV,SR	DVR (AVR# 19 CHVP +MVR #25 CHVP)	DR. VARGHESE T.PANICKER
408	██████	██████████████	51	M	22-Jul-2014	BAV,CAD,TVD,, SEV MS, GDLV, DM, HTN, SR,	AVR #21 CHVP + CABG X 2 GRAFTS (LIMA-LAD, RSVG- RPLB) EXTENSIVE LAD ENDARTERECTOMY	DR. PRAVEEN VARMA P.K.

S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
409	██████	██████████████ ██████████	63	M	23-Jul-2014	CAD,TVD,MOD LVD,SR	CABGX 3 GRAFTS, (LIMA-LAD, RSVG-D, RI)	DR. PRAVEEN VARMA P.K.
410	██████	██████████	51	F	24-Jul-2014	RHD,SEV MS,,SEV AS, MOD AR,MILD TR, AF,NC	DVR (AVR#19CHVP+ MVR#25CHVP)+ PMLP+ LAEE	DR. VARGHESE T.PANICKER
411	██████	██████████████	55	M	25-Jul-2014	CAD, TVD, OLD ACS, FAIR LV, SR, HTN, FOOT DROP LEFT	CABG X 7 GRAFTS (LIMA-LAD, RSVG-D1,D2,OM2,OM3, PDA & PLB	DR. VIVEK V. PILLAI
412	██████	██████████████ ██████████	55	M	29-Jul-2014	CAD,DVD,SEV MR,GDLV,SR	CABG X 2 GRAFTS (RSVG-OM2,RCA) + MV REP (# 28 SJM SADDLE RING)	DR. VARGHESE T.PANICKER
413	██████	██████████	45	M	30-Jul-2014	CAD, TVD, GDLV, RWMA, SR	CABGX 3 GRAFTS, (LIMA-LAD, RSVG-TERM OM AND RPDA	DR. VIVEK V. PILLAI
414	██████	██████████████ ██████████	61	M	31-Jul-2014	CAD,TVD,GDLV,SR,DM	CABGX 4 GRAFT, (LIMA-LAD, RSVG-MAJ OM,LPDA.RI)	DR. JAYAKUMAR K
415	██████	██████████	25	F	31-Jul-2014	S/P MVR FOR SEV MS, MOD PE	PE DRAINAGE	DR. BINEESH K.R.

416	████	████████	52	F	31-Jul-2014	RHD/S/P CMV,SEV AR,MOD AS,MOD MS,MILD MR,S/P CMV,GDLV,NC,AF	DVR (AVR19 CHVP+MVR 25CHVP)	DR. VARGHESE T.PANICKER
417	████	████	37	F	1-Aug-2014	ALCAPA,S/P ASD CLOSURE ,SEV MR,GDLV,AF	REDO STERNOTOMY + LCA TRASLOCATION WITH VEIN GRAFT INTERPOSITION + MVR (# 29 SJM)	DR. JAYAKUMAR K
418	████	████	54	M	4-Aug-2014	CAD,DVD,RHD,SEV MS,S/P CMV, BMV, MOD MR,MOD PAH,AF	MVR#27 CHVP + CABG X 1 GRAFT (RSVG-D1)	DR. VIVEK V. PILLAI
419	████	████████	32	M	5-Aug-2014	RHD SEV MR MOD MS MILD AR MOD PAH SR	MVR #25CHVP	DR. VARGHESE T.PANICKER
420	████	████████	57	M	6-Aug-2014	DIL CARDIOMYOPATHY,RESTR P2, SEV MR,MILD AR,FAIR LV,AF	MV REPAIR (30#SADDLE RING)	DR. PRAVEEN VARMA P.K.

S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
421	████	████	56	M	7-Aug-2014	CAD REC STEMI TVD SR DM HTN DLP EX SMOKER	CABGX 4 GRAFT (LIMA-LAD, RSVG-D1,MAJ OM,PRE CRUX RCA)	DR. JAYAKUMAR K
422	████	████████	68	M	8-Aug-2014	SEV AS,MOD AR,GDLV,SR,NC	AVR # 21 PM	DR. BINEESH K.R.
423	████	████████	45	F	11-Aug-2014	SEV AR,MOD LVD,LBB,SR,NC,B/L RENAL ARTERY STENOSIS,DM	AVR # 19 SJR + LV LEADPLACEMENT FOR CRT.	DR. PRAVEEN VARMA P.K.
424	████	████	62	M	12-Aug-2014	CAD,TVD,GDLV,DM,HTN,SR	CABG X 3 GRAFTS, (LIMA-LAD, RSVG-RI,D) + LV PLICATION	DR. PRAVEEN VARMA P.K.
425	████	████████ █	66	M	13-Aug-2014	CAD,DVD, SEV CAL AS, MOD AR, GOOD LV, SR	AVR#21 PM + CABG X 3GRAFTS (LIMA-LAD, RSVG-D1, MAJ OM)	DR. PRAVEEN VARMA P.K.
426	████	████████	43	M	14-Aug-2014	CAD,TVD,S/P PTCA TO OM,MILD MR,FAIR LV,HTN,DM,DLP,SR	CABG X 4 GRAFTS (LIMA - LAD, RSVG-DISTAL RCA,D1,MAJOR OM)	DR. PRAVEEN VARMA P.K.

427	██████	██████	45	M	18-Aug-2014	RHD,SEV MR,MOD MS,DIL LV,SEV PAH,AF,NC	MVR#31 CHVP+PMLP	DR. BINEESH K.R.
428	██████	██████████	53	F	19-Aug-2014	RHD, S/P CMV(1991), SEV CAL RE MS, MILD MR/TR/PAH, GD LV, SR	MVR#23 CHVP + PMLP	DR. VARGHESE T.PANICKER
429	██████	██████████	55	M	20-Aug-2014	CAD, TVD, FAIR LV, SR, DM, HTN, DLP, RENAL DYSFN	CABG X 5 GR (LIMA- LAD, RSVG-D1,OM2,TERM OM, DIST RCA)	DR. JAYAKUMAR K
430	██████	██████	52	F	21-Aug-2014	RHD,SEV CAL MS,MOD MR,MILD PAH,GDLV,SR,NC,HTN	MVR # 25 CHVP+ PMLP	DR. VARGHESE T.PANICKER
431	██████	██████████	43	M	22-Aug-2014	BAV, SEV CAL AS, SEV AR, SEVERE LV DYSFUNCTION, MOD PAH, SR	MODIFIED BENTAL PROCEDURE (AVR# 25 CHVP + 28 ALBOGRAFT)	DR. JAYAKUMAR K
432	██████	██████	16	F	22-Aug-2014	RHD, S/P BMV, SEV MS, MOD TR, SEV PAH, GDLV, SR	MVR# 23 CHVP + PARTIAL PMLP	DR. BINEESH K.R.
433	██████	██████	41	F	25-Aug-2014	RHD,SEV MS,SEV AS,S/P CMV,GD LV,MOD PAH,AF,NC.	DVR(AVR # 17 SJR, MVR # 25CHVP)	DR. PRAVEEN VARMA P.K.

S.NO	H.NO	NAME	AGE	SEX	DOS	DIAGNOSIS	PROCEDURE	SURGEON
434	██████	██████████	67	M	26-Aug-2014	CAD,TVD,SEV MR,FAIR LV,SR,DM,COPD	CABG X 4 GRAFT (LIMA- LAD , RSVG - D1,OM4, RPDA) + # 30 SADDLE RING+ MOD ALFERI	DR. PRAVEEN VARMA P.K.
435	██████	██████████	66	F	27-Aug-2014	BAV, SEV CAL AS, GOOD LV, CONC LVH, SR, HTN, NC	AVR# 19 PM MAGNA	DR. PRAVEEN VARMA P.K.
436	██████	██████████	54	F	28-Aug-2014	CAD,TVD,GDLV,SR,DM,DLP	CABG X 4 GRAFTS (LIMA-LAD, RSVG-D1,MAJ OM,RPDA)	DR. JAYAKUMAR K
437	██████	██████	39	M	28-Aug-2014	BAV, SEV AR, MILD AS, DIL LV, DIL ASC AORTA, GOOD LV, SR, NC	AVR# 27 CHVP + AORTOPLASTY	DR. VARGHESE T.PANICKER
438	██████	██████████	42	M	1-Sep-2014	CAD,TVD,LMCA(80%),DLP,GDLV,SR,	CABGX 4 GRAFTS (LIMA-LAD,RSVG-OM1,OM2,PDA	DR. VIVEK V. PILLAI

439	██████	██████████	54	M	2-Sep-2014	CAD,TVD,MOD LVD,SR,DM	CABGX 4 GRAFTS (LIMA-LAD, RSVG-PDA,MAJ OM,DIAG,	DR. JAYAKUMAR K
440	██████	██████████	72	F	3-Sep-2014	RHD, SEV AS, MILD AR, MOD MS, MILD MR, AF	AVR #19 PM + MITRAL ANNULOPLASTY # 27 TARP	DR. VARGHESE T.PANICKER
441	██████	██████████████████	52	M	4-Sep-2014	CAD,TVD,GDLV,SR,DM,HTN,DLP	CABG X 5 GRAFTS (LIMA-LAD, RSVG-D2,OM1,PDA,RPLB)	DR. JAYAKUMAR K

INTERESTING CASES

INTERESTING CASES

- MARFAN'S SYNDROME WITH ANNULO AORTIC ECTASIA – MODIFIED BENTALL'S PROCEDURE
- ADULT ALCAPA - LCA TRANSLOCATION WITH VEIN GRAFT INTERPOSITION
- QUADRICUSPID AORTIC VALVE, SEV LV DYSFUNCTION DUE TO LBBB & INTERVENTRICULAR DYSYNCHRONY - AVR WITH CRT
- BAV, SEV CAL AS, CAD, DVD – EXTENSIVE LAD ENDARTERECTOMY WITH ONLAY PATCH REPAIR + AORTIC VALVE REPLACEMENT
- CAD, TVD, OLD AWMI, LV APICAL ANEURYSM, MOD MR, MOD PAH, SR - DOR PROCEDURE + CABG X 5 GRAFTS
- TYPE A - INTERRUPTED AORTIC ARCH – ARCH RECONSTRUCTION
- TYPE III AORTOP WINDOW – TRANS AORTIC AP WINDOW REPAIR USING ePTFE GRAFT
- SACCULAR THORACO-ABDOMINAL AORTIC ANEURYSM (TYPE V) - INCLUSION ANEURYSMORRHAPHY
- INFRA RENAL ABDOMINAL AORTIC ANEURYSM

BENTALL OPERATION FOR ANNULO AORTIC ECTASIA

IN MARFANS SYNDROME

DIAGNOSIS: MARFAN'S SYNDROME, ANNULO AORTIC ECTASIA, SEV AR, DIL LV, MILD LVD, S/P COA STENTING, SEV PAH, OS ASD, SR WITH 1 AVB, AVNRT, OLD CVA (RECOVERED)

PROCEDURE: MODIFIED BENTALL'S PROCEDURE (AVR#25 CHVP AND #26 ALBOGRAFT)

HISTORY: 24 years old shopkeeper from Assam presented with H/o H/o DOE FC II AND Palpitation since 4years, started as FC- II now progressed to FC- III. H/o Atypical Lt sided chest pain occasionally. No h/o syncope / pre-syncope. No H/o ACS / CCF. No H/o ALI. H/o CVA (Lt Hemiparesis) 12 years back with complete neurologic recovery. No h/o DM / HTN / DLP. H/o CoA stenting done on 26/4/2013 at SCT. Elder brother is also a Marfan's syndrome with h/o aortic surgery 6 years back.

PHYSICAL EXAMINATION:

GE: No pallor, icterus, clubbing, cyanosis, LN, Pedal oedema.

PR: 82/min, Regular. Water hammer pulse+, Peripheral pulses palpable

BP: 150/40 mmHg. JVP: Not raised.

CVS: Hyper dynamic precordium. Apex beat Lt 6 th ICS in anterior axillary line. No Palpable P2. No thrill. S1, S2 normally heard. Grade 3/6 EDM at Aortic area.

Peripheral signs of AR Present: Corrigan's pulse, Hill's sign, De Musset's sign, Quincke's sign, Duroziez's sign, Traube's sign, Lincoln's sign.

RS: AEBE, Clear. Abdomen: No hepatosplenomegaly. CNS: NAD

INVESTIGATIONS:

Blood Investigations: Normal

CXR: CTR 0.68, Bone and Soft tissue shadows normal. LV apex. Dilated Ascending aorta. Left arch. Stent in situ in DTA.

ECG: SR. HR 78/min. 1' AVB, LAE, LV vol overload+, LVH+, QRS Axis + 45 deg.

ECHO: LV 76/51, LA/Ao- 28/65, EF 45%, Dilated LV, Fair LV function. AV- Trileaflet mobile, Annulo aortic ectasia, aortic annulus 32 mm, AR 4+, TR 2+, RVSP 33+RA, Peak gradient across CoA stent 30. No VSD/PDA

CT Angiogram: Annuloaortic ectasia. Normal coronaries. Aorta at the level of annulus 7.8 x6.5 cm. Distal Asc Aorta 3.2 cm and Aortic arch- 3 cm. DTA- 2.6 cm. DTA at diaphragm- 2 cm.

SURGICAL FINDINGS: Cardiomegaly present, Dilated LV, Fair LV function. Aortic valve Trileaflet and thin. Dilated aortic annulus (35 mm). Sev AR. Dilated and aneurysmal sinuses (NCC>>LCC/RCC). Dilated and thinned ascending Aorta measuring approximately 8 x 7 cm. Distal asc aorta and arch normal.

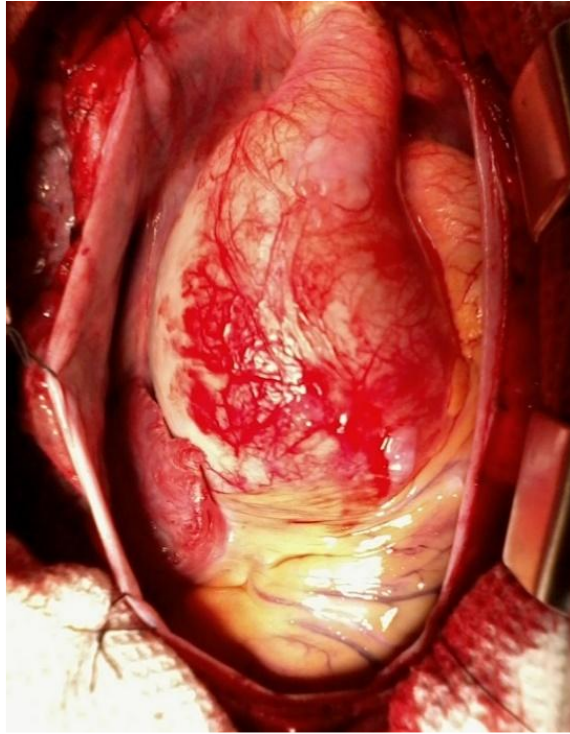
Aorto – RA Cannulation CPB time: 126 mins. ACC time :98 mins.

PROCEDURE: Standard midline sternotomy. Aorto-RA bypass. LV vented through RSPV. Aorta cross clamped. Aorta transacted, Complete diastolic arrest of the heart attained with tepid Ostial blood cardioplegia. Aneurysmal aortic sinuses excised and Coronary buttons harvested. Aortic valve excised and the root replaced using a valve graft conduit prepared using 27 CHVP and 28 mm Albograft. Valve movements checked. Both coronary buttons anastomosed to the conduit. Distal anastomosis of the graft to the Aorta performed using 4-0 prolene and Felt interposition. Aorta de-aired through the graft and Aortic cross clamp released. Heart picked up in SR with good rate. Came off bypass with adrenaline 0.05 mics/kg/min. Hemostasis

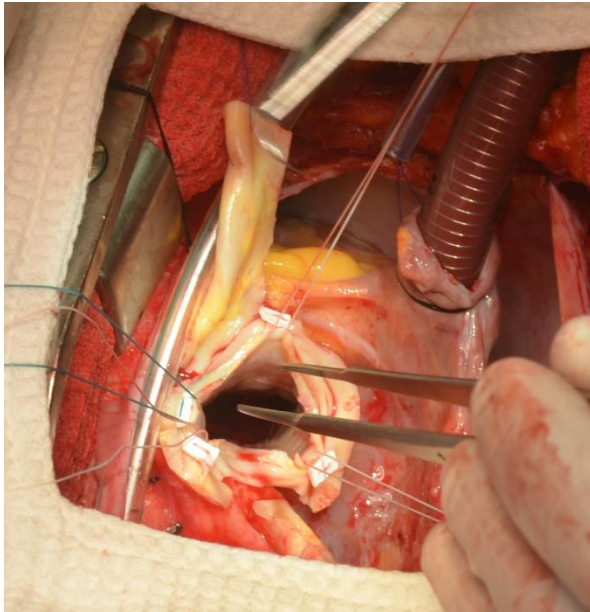
COURSE IN HOSPITAL: Uneventful

Pre discharge ECHO: PV grad-18/9, No AR, Trivial PE, Mild LV dysfunction.

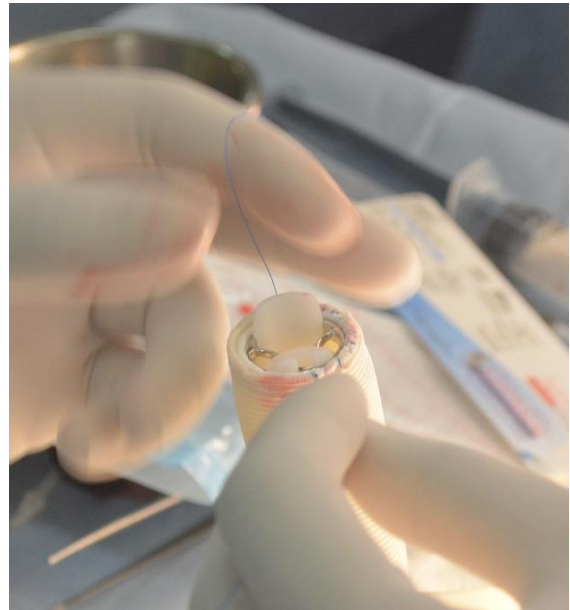
MODIFIED BENTALL'S PROCEDURE



**ANNULO AORTIC ECTASIA – DILATED AORTIC ROOT
WITH NORMAL DISTAL AORTA**

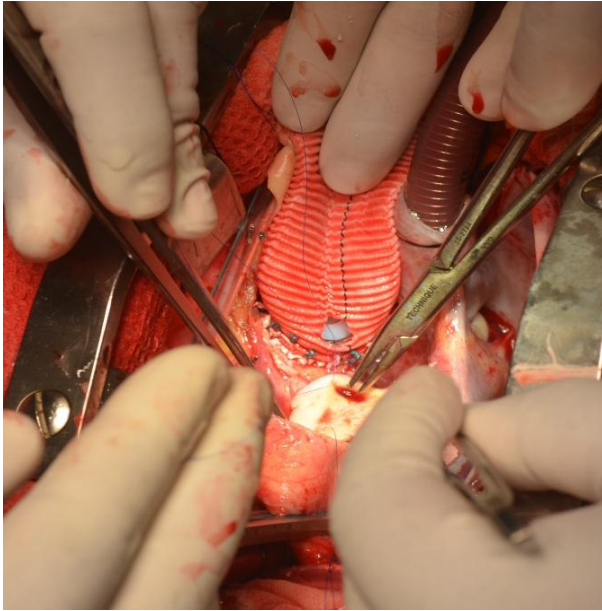


AORTIC VALVE STITCHES

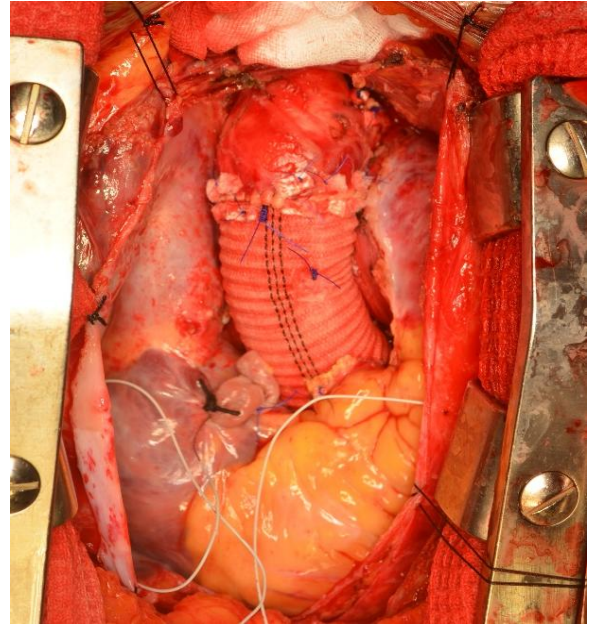


VALVE GRAFT CONDUIT

MODIFIED BENTALL'S PROCEDURE



CORONARY BUTTON ANASTAMOSIS



COMPLETED PROCEDURE



POST OP IMAGES SHOWING NEO ASC AORTA & STENTED COA SEGMENT

LCA TRANSLOCATION WITH VEIN GRAFT INTERPOSITION FOR ADULT ALCAPA

DIAGNOSIS: ALCAPA, MILD MR, GOOD LV FUNCTION, SR

PROCEDURE: LCA TRANSLOCATION WITH VEIN GRAFT INTERPOSITION

HISTORY: A 58 year old lady, a home maker from Tirunelveli with no known comorbidities, presented with c/o progressive DOE x 8 months. No h/o orthopnoea / PND. No h/o angina / syncope / pre-syncope. No H/o Claudication / CVA / TIA / Seizure / BA. No H/s/o CCF. No significant past and family history. No h/o drug allergy.

PHYSICAL EXAMINATION: GC fair. Afebrile. PR: 80/min, regular, Normal volume pulse. BP: 126/80mmHg. RR: 18 / Min, JVP: Normal. No cyanosis / icterus / clubbing / oedema / pallor / LN pathy. CVS-Precordium normal. AI at 5th ICS in MCL. S1 S2 (+). No murmur, RS: AEBE, clear. P/A: Soft, No organomegaly, CNS- WNL. Allen's test (-). Carotid bruit (-). PVOD (-). Varicose vein (-).

INVESTIGATIONS:

Blood Inv: Within normal limits

CXR: CTR-52%, Normal apex, Normal BVM, Lung fields clear. No PAH / PVH

ECG: SR 74 / Min, PR: 150 ms, QRS: 116 ms, Left axis deviation, No evidence of LA / LV volume overload

ECHO: LV- 53/34, EF- 64%, LA/Ao- 38/34, Septum- 15/9, MR- 2+, Good LV function, No RWMA, Mild global hypokinesia, No AR, LCA not seen from LCC, RCA arising from RCC, Prominent septal collaterals. Increased echogenicity of papillary muscles,

SURGICAL FINDINGS:

Sternum normal. Mild PE. Mild Cardiomegaly present. RCA from RCC is dilated (measures approx. 1 cm in diameter) and tortuous. Dilated and tortuous epicardial collaterals. Short LMCA arising from posterior facing sinus of MPA. No scars

CPB DATA & MYOCARDIAL PROTECTION:

Membrane oxygenator and Roller pump.

Aortic cannula: 24Fr Edwards, Venous cannula: 36 / 46 Fr cannula

CPB time: 112 mins, ACC time: 85 mins.

Tepid blood antegrade aortic root cardioplegia, topical cooling with ice slush, core cooling to 30.0 degrees, aortic root vent.

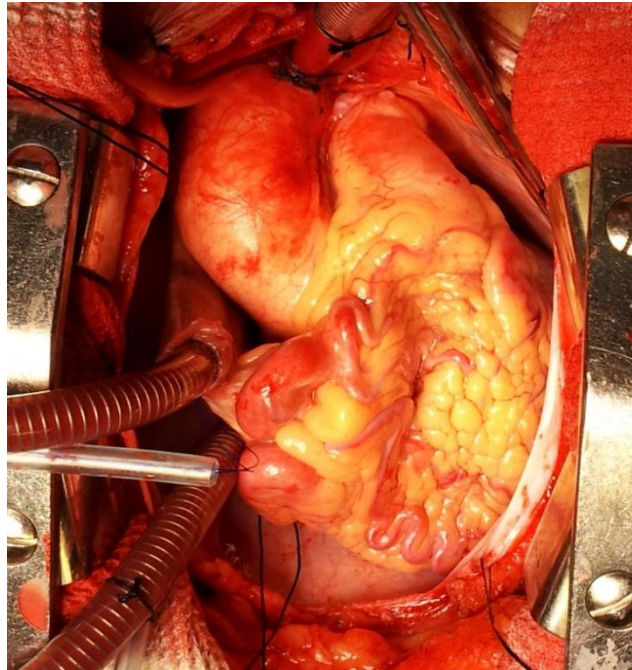
PROCEDURE

Primary midline sternotomy. Minimal thymus dissection. Pericardium opened and well created. Patient heparinised. Went on CPB with Aorto RA cannulation and Cooled to 30 degrees. Aorta cross clamped. Aortic root cardioplegia administered. Topical cold ice slush placed. Heart arrested in diastole. PA opened LT coronary button harvested. LMCA mobilised till its bifurcation but still the length was inadequate to be directly trans located. RSVG was anastomosed to the coronary button to augment the length. Cross clamp released. Rewarming started. Heart picked up in Sinus rhythm with good rate. Side biting clamp applied to Aorta and proximal anastomosis of RSVG to left coronary button was done to Aorta. Came off bypass in stages. Heparin reversal with protamine. Decannulation. Hemostasis attained. Drains placed and sternum closed in layers. Patient shifted to ICU with stable hemodynamic with supports of Adrenaline 0.02Mics / Kg / Min.

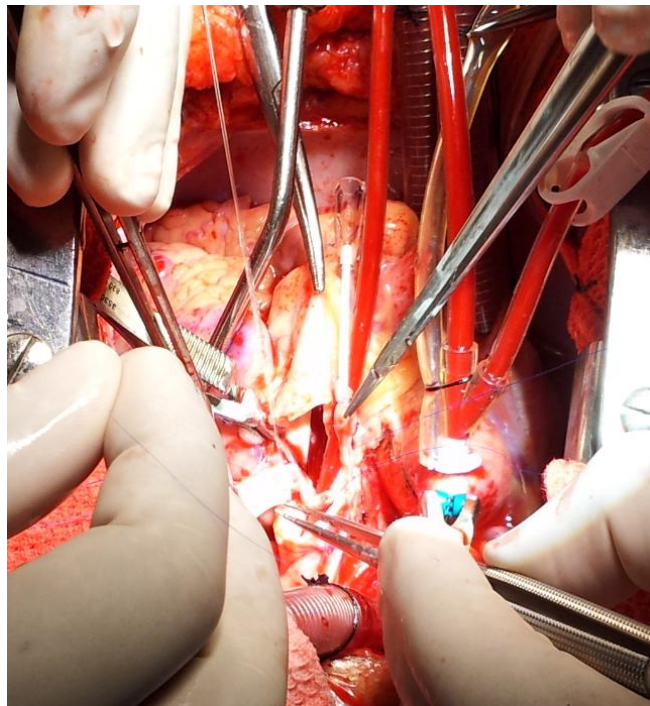
COURSE IN HOSPITAL: uneventful

Predischarge ECHO: Good LV function, No RWMA. Laminar flow in both proximal coronaries, Mild MR

LCA TRANSLOCATION WITH VEIN GRAFT INTERPOSITION



PROMINENT RCA AND EPICARDIAL COLLATERALS



VEIN GRAFT BEING ANASTOMOSED TO CORONARY BUTTON

LCA TRANSLOCATION WITH VEIN GRAFT INTERPOSITION



POST OP CT SHOWING COURSE OF VEIN GRAFT



3D RECONSTRUCTION SHOWING SHORT LMCA & COURSE OF THE VEIN GRAFT

QUADRICUSPID AORTIC VALVE, LBBB WITH INTER AND INTRA
VENTRICULAR DYSYNCHRONY AND LV DYSFUNCTION

DIAGNOSIS: QAV, SEV AR, MOD LVD, SR, LBBB, INTER & INTRA VENTRICULAR DYSYNCHRONY, NC, B/L RENAL ARTERY STENOSIS, DM

PROCEDURE: AVR # 19 SJR + LV LEAD PLACEMENT FOR CRT.

HISTORY: A 45 years old female, known case of DM and B/L renal artery stenosis, presented with c/o DOE/FC-II x 1 year. No h/o orthopnoea / PND. No h/o angina / syncope / pre-syncope. No H/o Claudication / CVA / TIA / Seizure / BA. No H/s/o CCF. H/o LSCS twice. No significant family history. No h/o drug allergy.

PHYSICAL EXAMINATION: GC fair. Afebrile.

PR: 84/min, regular, Water hammer pulse+, Peripheral pulses palpable

BP: 150/60mmHg Rt arm supine. RR: 20 / Min, JVP: Normal.

No cyanosis / icterus / clubbing / oedema / pallor / LNpathy.

CVS-Precordium hyperdynamic. AI at 6th ICS, 2 cm lateral in MCL. S1 S2 (+). 3/6 EDM and 2/6 ESM in Aortic area.

Peripheral signs of AR Present: Corrigan's pulse, Hill's sign, De Musset's sign, Quincke's sign, Duroziez's sign, Traube's sign, Lincoln's sign.

RS: AEBE, clear. P/A: Soft, No organomegaly, CNS- WNL.

INVESTIGATIONS:

Blood Inv: Within normal limits. CXR: CTR- 0.60, Prominent BVM

ECG: SR at 77/min, PR 170ms, QRS 160ms, LBBB, LAD

ECHO: LV- 63/50, LA/AO- 40/25, EF- 39%, Septum- 9/10, No RWMA, Global LV hypokinesia, Intra and Interventricular dysynchrony. MR- 1-2+, AR- 3-4+, AR PHT 340.

Aortic valve Quadricuspid, Aortic annulus- 19mm, RVSP- 17 + RA, TV- Normal

CAG: LMCA- Normal. LAD- No flow limiting lesion. LCx- Non-dominant and normal.

RCA- Dominant and normal

SURGICAL FINDINGS:

Cardiomegaly (+). Moderate pericardial effusion, Mod- Sev LVD due to inter and intra ventricular dysynchrony. Aorta-Normal. PA -soft.

Aortic valve: Quadricuspid valve, no thickening or calcification. Incomplete coaptation of leaflets leading to severe AR.

CPB and MYOCARDIAL PROTECTION DATA:

Roller pump, membrane oxygenator, crystalloid prime. Heparin -Protamine chemistry.

Cardioplegia: Retrograde and antegrade tepid blood ostial cardioplegia

Topical ice slush. Core cooling to 29 degrees centigrade.

Cannulae: Aortic # 24 Fr, single two stage cannula 32x40 Fr

Vents: LV vent via RSPV. Aortic root vent. CPB time: 104 minutes; ACC -76 minutes

PROCEDURE:

Primary midline sternotomy. Minimal thymus dissection. Pericardium opened and cradled. Patient heparinised. Went on CPB with Aorto RA cannulation. LV vented through RSPV vent. Retrograde CP cannula inserted. Cooled to 29 degrees. Aorta cross clamped. Retrograde cardioplegia given. Heart arrested in diastole. Oblique aortotomy made and ostial plegia given. Aortic valve excised. Permanent epicardial lead placed on the posterolateral aspect of LV and fixed with 5 0 prolene. Aortic valve sized to # 19 SJR and seated using 15 Pledged everting 2-0 Ticron sutures.

Aortotomy closed with 4-0 prolene in 2 layers. Heart deaired and cross clamp removed.

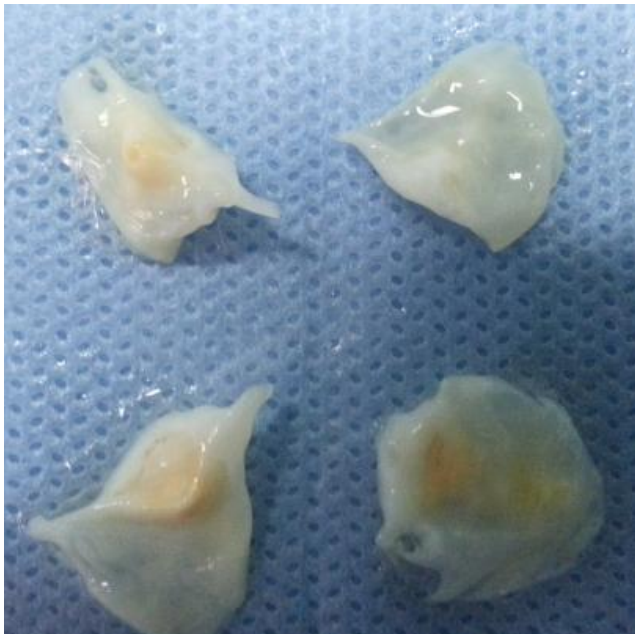
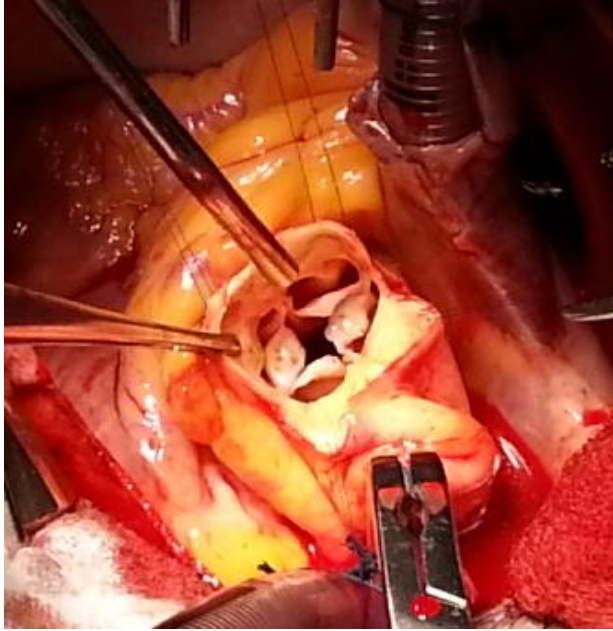
Root vented. Heart picked up in sinus rhythm with support of Adr 0.02 Mics / Kg / Min.

Pacing wire taken and DDD-BV pacing commenced and paced at 90/min. Came off CPB in stages. Protamine given. Decannulated. Hemostasis secured. Pericardium over the aorta approximated. Drains placed, wound closed in layers. Shifted to ICU for elective ventilation with stable haemodynamics.

Pre discharge ECHO: With DDD BV pacing – Good RV/PV function. Fair LV function, PV Gradient -34/16. Trivial MR, No PE. No significant dysynchrony

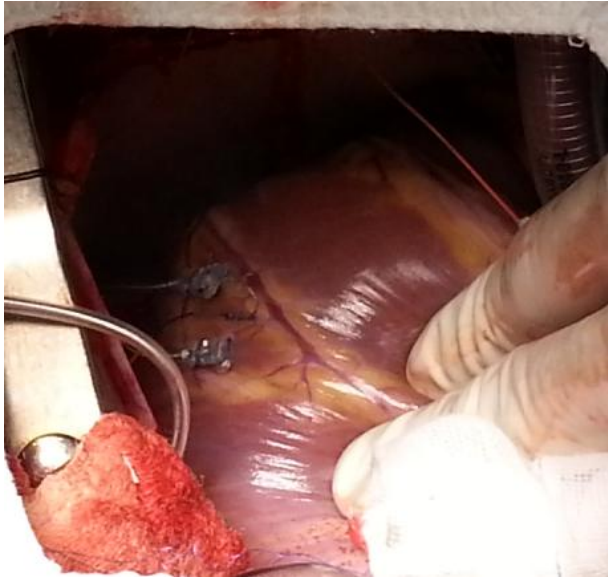
Without pacing - Mod LVD, Interventricular dysynchrony.

QADRICUSPID AORTIC VALVE WITH LBBB (DYSYNCHRONY)

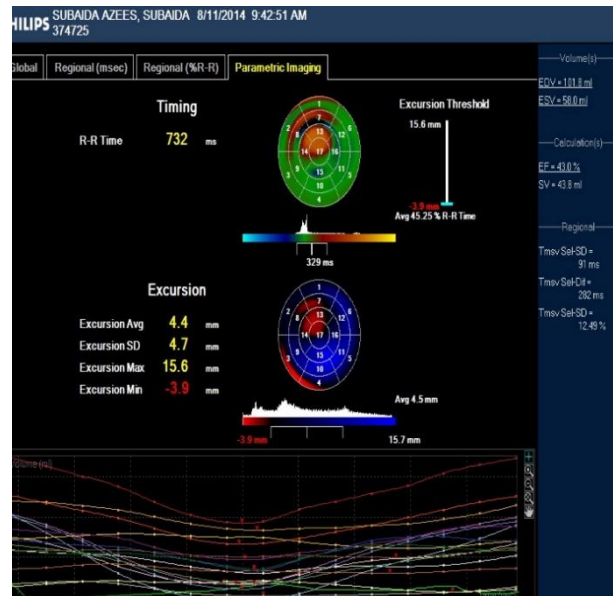


QUDRICUSPID AORTIC VALVE

NORMAL LEAFLET TISSUE



EPICARDIAL LV LEAD – CRT



IV CONDUCTION DELAY

EXTENSIVE LAD ENDARTERECTOMY WITH ONLAY PATCH REPAIR AND AVR

DIAGNOSIS: BAV, CAD, TVD, SEV CALCIFIC AS, GDLV, SR, DM, HTN

PROCEDURE: AVR #21 CHVP + CABG X 2 GRAFTS LIMA-LAD, RSVG- RPLB, WITH EXTENSIVE LAD ENDARTERECTOMY AND ONLAY LIMA PATCH REPAIR

HISTORY: A 51 year old male, KSEB employee from Trivandrum, a known case of DM and HTN on medication for 12 years presented with c/o DOE (FC-II) x 1 month. No h/o orthopnoea / PND. No h/o angina / syncope / pre-syncope. No H/o Claudication / CVA / TIA / Seizure / BA. No H/s/o CCF. No significant family history. No h/o drug allergy, Reformed smoker and consumes alcohol occasionally.

PHYSICAL EXAMINATION: GC fair. Afebrile. PR: 74/min, regular, Low volume, slow rising pulse. BP: 130/80mmHg. RR: 18 / Min, JVP: Normal. No cyanosis / icterus / clubbing / oedema / pallor / LN pathy. CVS-Precordium normal. AI at 5th ICS in MCL. S1 S2 (+). 3/6 ESM (+), RS: AEBE, clear. P/A: Soft, No organomegaly, CNS- WNL. Allen's test (-). Carotid bruit (-). PVOD (-). Varicose vein (-).

INVESTIGATIONS:

Blood Inv: Within normal limits

CXR: CTR- 0.55, Prominent BVM, Ascending aorta mildly prominent.

ECG: SR at 60/min, PR- 160ms, QRS 124 ms, LAD, LVH strain+

ECHO: LV- 47/31, EF- 63%, LA/Ao- 42/31, Septum: 12/10, No RWMA, MR- 1+, TR- 1+, AR- 1+, AS gradient- 95/60, A. Annulus- 22, Aortic valve Bicuspid, calcific and doming, Calcium extending into proximal IVS 5mm below the valve giving appearance of non-obstructive calcified sub-aortic ridge, Good LV function,

CAG: LMCA- Normal. LAD- Type-III, mid LAD shows diffuse 40%, Distal 99%, term LAD small diagonal diffusely diseased. LCx- Non-dominant, mid LCx 20%, OM1, Normal, OM2 small and total occluded mid part. RCA- Dpminant, shows minor irregularities, PLB shows 90% lesion, PDA diffusely diseased.

SURGICAL FINDINGS:

Mild cardiomegaly. Concentric LVH. Good LV function, No scars / RWMA. Mild dilatation of ascending aorta.

Aortic valve: Bicuspid, Leaflets thickened and calcified, calcium extending on to distal IVS. Severe calcific AS, Mild AR, Aortic annulus 21 mm

Great saphenous vein harvested from Left LL, Vein of good quality and calibre.

LIMA: Good quality and calibre with adequate length.

1. LIMA to LAD- Diffusely diseased vessel, complete lumen obliterated by plaque, Endarterectomy done from origin of D1 to apex. Arteriotomy 4 cm long, lumen 2 mm and complete endarterectomy specimen 8.5 cm long. LIMA – LAD anastomosis done using onlay technique, post grafting distal runoff good.
2. RSVG to RPLB -1.25 mm, good calibre, Arteriotomy site healthy, post grafting distal runoff good.

CPB and MYOCARDIAL PROTECTION DATA:

Roller pump, membrane oxygenator, crystalloid prime. Heparin -Protamine chemistry.

Cardioplegia: tepid blood - Induction by root cardioplegia and maintenance direct ostial cardioplegia

Topical ice slush. Core cooling to 28 degrees centigrade.

Cannulae: Aortic - 24 Fr Edwards, RAA - 32 x 40 Fr

Vents: LV vent via RSPV. Aortic root vent.

CPB time: 220 minutes; ACC time - 175 minutes

PROCEDURE:

Primary midline sternotomy. Minimal thymus dissection. Pericardium opened and well created. Patient heparinised. Went on CPB with Aorto RA cannulation, RSPV vent placed and Cooled to 28 degrees. Aorta cross clamped. Aortic root cardioplegia administered. Topical cold ice slush placed. Heart arrested in diastole. Distal venous grafts was anastomosed to RPLB using 7-0 prolene. LAD- Diffusely diseased vessel, complete lumen obliterated by plaque, Endarterectomy done from origin of D1 to apex. Arteriotomy 4 cm long, lumen 2 mm and complete endarterectomy specimen 8.5 cm long. LIMA – LAD anastomosis done using onlay technique with 8-0 prolene. Post grafting distal runoff good.

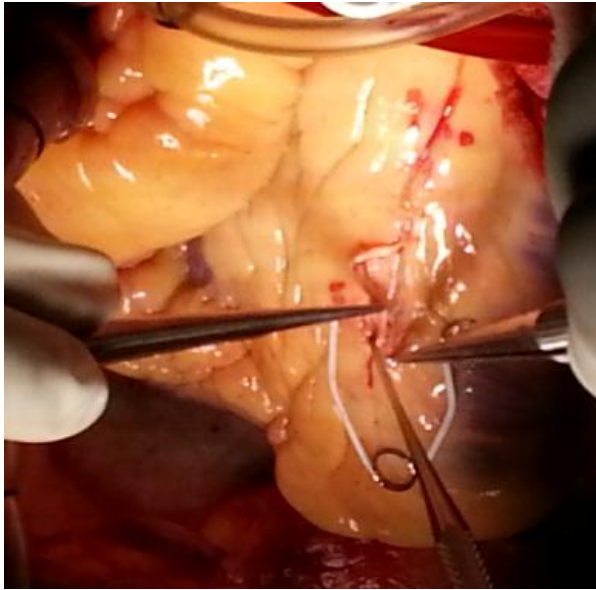
Transverse aortotomy made and ostial cardioplegia given. Aortic valve excised and sized to 21 CHVP and seated using fourteen everted pledgetted 2-0 Ticron sutures with 1/2 circle 12 mm tapering needle and tied. Aortotomy closed with 4-0 prolene in two layers. Heart deaired and cross clamp removed. Heart picked up in sinus rhythm.

Side biting clamp applied to Aorta and proximal anastomosis of RPLB was done. Came off CPB in stages. Protamine given. Decannulated. Hemostasis secured. Drains placed, pacing wire taken and sternum closed in layers. Shifted to ICU for elective ventilation and monitoring with support of Noradrenaline 0.025 Mics / Kg / Min.

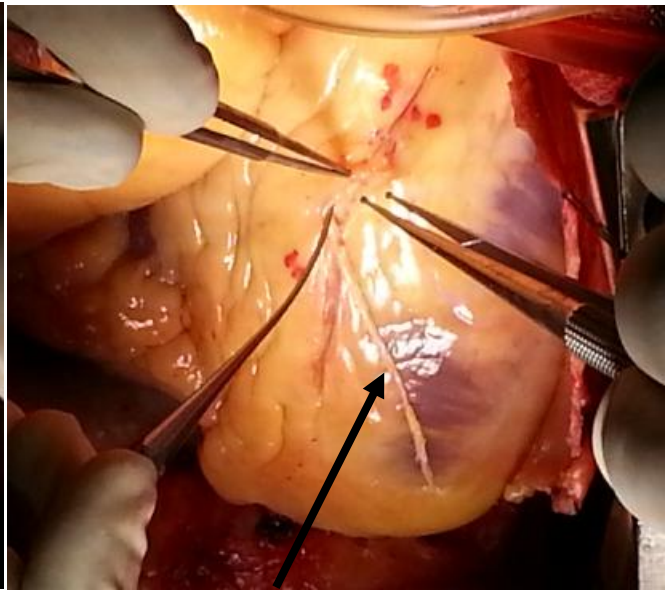
COURSE IN HOSPITAL: Uneventful

Pre discharge ECHO: Good LV/RV/PV function, AV Grad 30/12, Trivial PE

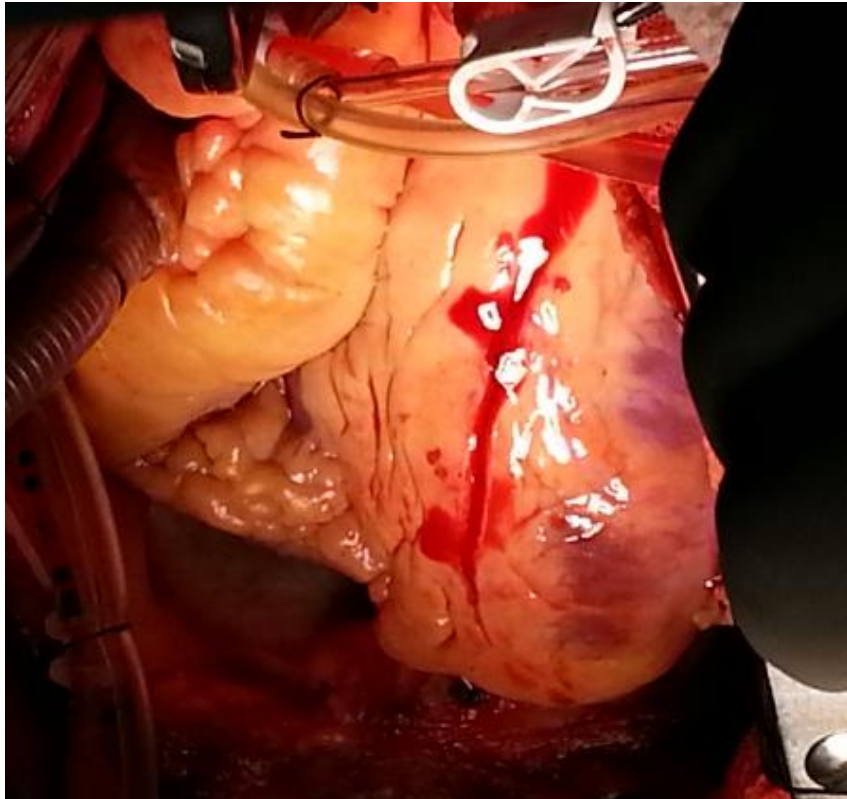
LAD ENDARTERECTOMY



ENDARTERECTOMY PLANE



ENDARTERECTOMY SPECIMEN



**POST ENDARTERECTOMY RETROGRADE CARDIOPLEGIA
SHOWING GOOD BACK BLEEDING
DOR'S PROCEDURE FOR LV APICAL ANEURYSM**

DIAGNOSIS: CAD, TVD, OLD AWMI, LV APICAL ANEURYSM, SEV LV DYSFUNCTION, MOD MR, MOD PAH, SR, DM, HTN, DLP

PROCEDURE: DOR'S PROCEDURE + CABG X 5 GRAFTS

HISTORY: 64 year old male. Presented with h/o DOE-III, started on FC-II progressed to FC- III. No h/o AOE/palpitation/claudication/ cough/PND/orthopnoea. Risk factor of CAD: DM (+), HTN (+), DLP (-), ex-smoker, Family history (+). Past history- H/o ACS in 2005, H/o PPI implant in Feb 2013.

PHYSICAL EXAMINATION: GC fair. Afebrile. PR: 84/min, regular, Normal volume pulse. BP: 120/70mmHg. RR: 18 / Min, JVP: Normal. No cyanosis / icterus / clubbing / oedema / pallor / LN pathy. CVS-Precordium normal. AI at 5th ICS in MCL. S1 S2 (+).

No murmur, RS: AEBE, clear. P/A: Soft, No organomegaly, CNS- WNL. Allen's test (-). Carotid bruit (-). PVOD (-). Varicose vein (-).

INVESTIGATIONS:

Blood inv: Within normal limits

CXR: CTR 0.60, increased BV markings, PPI in place with leads ECG: pacing

ECHO: LV- 56/46, EF- 34%, SF- 16.5%, LA/Ao- 32/31, RWMA mid & distal AW, entire AS, mild & basal IW, Sev hypokinetic, organized thrombus in LV apex, Mod-Sev LVD

CAG: LMCA normal, LAD prox- 50-60%, distal total, Diagonal- D1 & D2 mild ostial disease, LCX mild 70% distal diffusely diseased, RCA chronic total occlusion proximally

SURGICAL FINDINGS:

Sternum normal, Thymus+, innominate vein+. Pericardium normal. Aorta normal, 5x5cm True aneurysm over the LV apex with organized calcified clot. Moderate to severe LV dysfunction. LVEF - 20%, CO=2.3L/min, AL wall severely hypokinetic. Mod MR. No other scars over the LV.

LIMA - LAD size 1mm, arteriotomy healthy, distal flow - good

RSVG - Maj OM - 1.5 mm arteriotomy - healthy, distal flow – good

RSVG - D1 - size 1.5mm, arteriotomy - plaquey, distal flow - good

RSVG - RPDA - size - 1.5mm arteriotomy - healthy, distal flow - good

RSVG - RPLB - size-1.5mm, arteriotomy - healthy, distal flow - good

Post procedure: LV function improved, Left pleura widely open, pericardium open. EF - 60%, improved wall motion over the anterior wall MR 2+.

CPB DATA & MYOCARDIAL PROTECTION:

Membrane oxygenator & roller pump.

Aortic cannula - 24 Fr Edwards, Venous cannulae: Single two stage cannula 34/46.

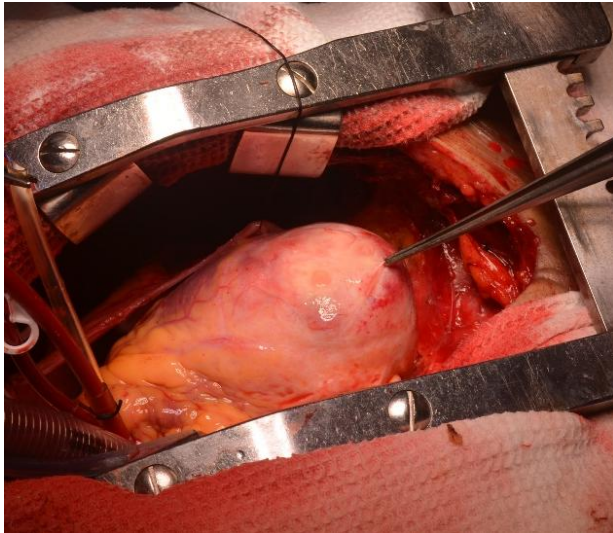
CPB time: 190 Min. ACC time: 108 min.

Tepid blood antegrade aortic root cardioplegia, topical cooling with ice slush, core cooling to 32 deg, aortic root vent. Urine Output on pump-1400 ml.

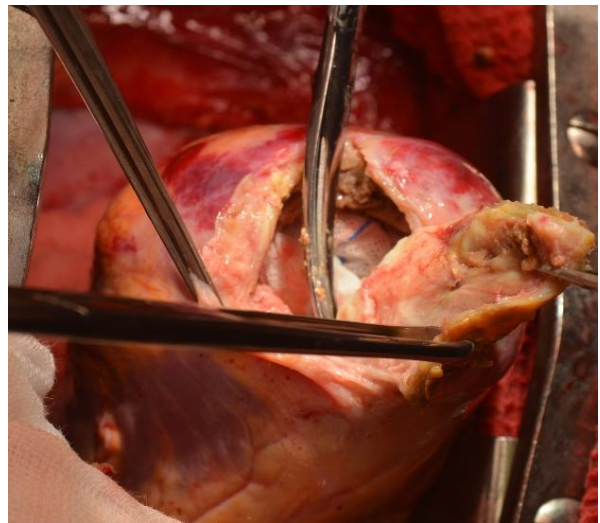
PROCEDURE:

Median sternotomy. Thymus divided. Simultaneously LIMA and RSVG was harvested. Vertical pericardiotomy, Pericardial stays. Heparinization. LIMA divided. Aorto- RA cannulation and went on CPB. Cardioplegia cannula inserted in the aortic root. Aorta cross clamped. Antegrade tepid blood cardioplegia given. Heart arrested in diastole. Distal anastomoses of RSVG - Terminal OM, RPDA, RPLB and D1 done with 7-0 prolene. Soft clamp applied over the grafts. LV aneurysm opened. Apical clot removed. Purse string sutures taken at the margin of dead and viable endocardium towards the healthy endocardial side. PTFE patch fashioned according to the size of the defect created. PTFE patch sutured at the margin including the purse string sutures. The aneurysmal wall closed over the patch in three layers. LIMA - LAD anastomoses done with 7-0 prolene. Aortic cross clamp removed. Heart picked up in sinus rhythm. Side biting clamp applied over the aorta. Proximal anastomoses of RSVG - Aorta done with 6-0 prolene. Grafts de-aired. Clamps over the grafts removed. Came off bypass with stable hemodynamics. Protamine. Decannulation. Haemostasis secured. 2 mediastinal drain and One Left pleural drain placed. Wound closed in layers. Patient shifted to CSICU with stable haemodynamics with inotropic supports of Dobutamine at 5 mics/kg/min and Noradrenalin at 0.1 mics/kg/min.

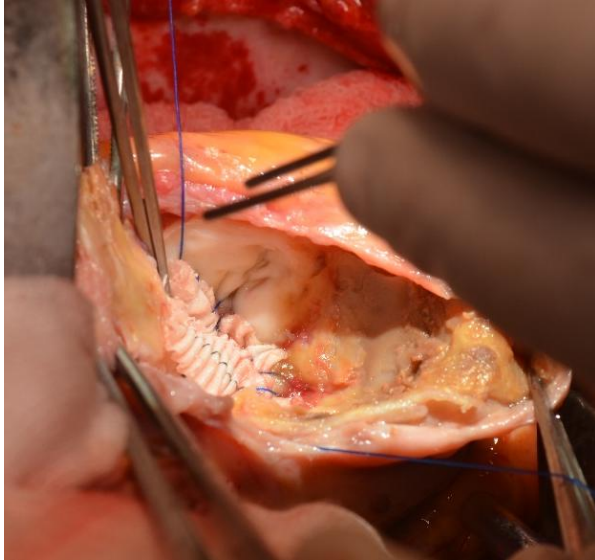
DOR'S PROCEDURE FOR LV ANEURYSM



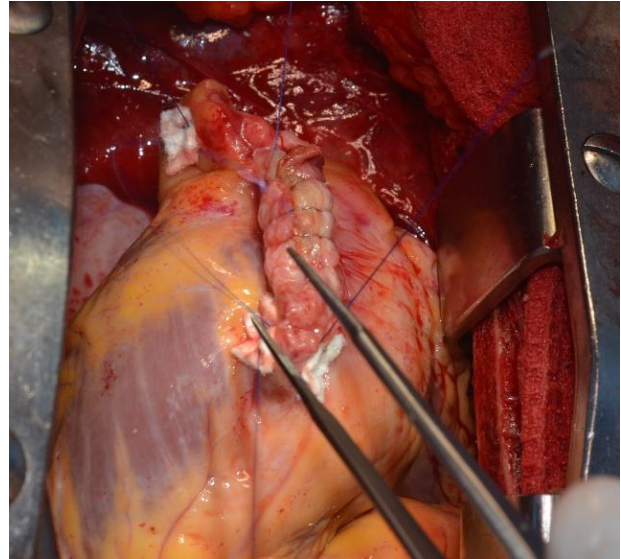
LV APICAL ANEURYSM



EXCISION OF SCARRED LV



ENDOVENTRICULAR PATCH



LV CLOSED IN TWO LAYERS

INTERRUPTED AORTIC ARCH

DIAGNOSIS: ACHD, SITUS INVERSUS, DEXTROCARDIA, TYPE A INTERRUPTED AORTIC ARCH, MULTIPLE VSD, SEV PAH, RIGHT ARCH, SR, CCF

PROCEDURE: AORTIC ARCH RECONSTRUCTION + BOVINE PERICARDIAL PATCH CLOSURE OF SA VSD, DIRECT CLOSURE OF MID MUSCULAR VSD

HISTORY: 10 day old male child, first born to non-consanguineously married parents, at full term through LSCS with uneventful perinatal period. Birth weight 2.75Kg. Detected to have heart disease at the age of 7 days and referred for surgery. H/o feeding difficulty present. No h/o cyanosis/ orthopnoea / PND/ syncope/ seizures. No h/o surgeries/ intervention. No h/o similar complaints in the family.

PHYSICAL EXAMINATION: Baby conscious, active.

HR: 154/min, RR-25/min, Wt: 2.75kg.

CVS - (N) Precordium, Apex- 5th LICS at MCL, S1 S2 (+), S2 Split (+), ESM Grade 3/6.

Chest B/L air entry equal, Normal vesicular breath sounds, No added sounds.

P/A - Soft, BS (+). No hepatomegaly. CNS- NAD.

INVESTIGATIONS:

Blood Investigations: Normal

CXR: Situs Inversus, Dextrocardia, Cardiomegaly+, Pulmonary plethora present.

ECG: SR @ 150/min, QRS axis +30

ECHO: LV 15/9, LA/Ao 14/8, Situs inversus, Dextrocardia, Normal venous drainage, AV VA concordance, SA VSD(4.5mm), IVG 15 mmHg, Mid musc VSD(3.5mm), Rt Arch, PDA with bidirectional shunt, Interrupted arch after Right SCA. MR 1+, TR1+

SURGICAL FINDINGS: Situs inversus, Dextrocardia. Mirror image relation of Great arteries. Systemic veins draining into Left sided atrium (Morphological RA). Pulmonary veins draining into right sided atrium (Morphological LA). No ASD/ PFO. MV, TV normal. SA VSD of size 1 x 0.5 cm. Multiple muscular VSD s present. PA dilated and moderately tense. Right aortic arch, with mirror image branching. Type A Interrupted Aortic Arch. DTA circulation provided by a large PDA, which continues as DTA.

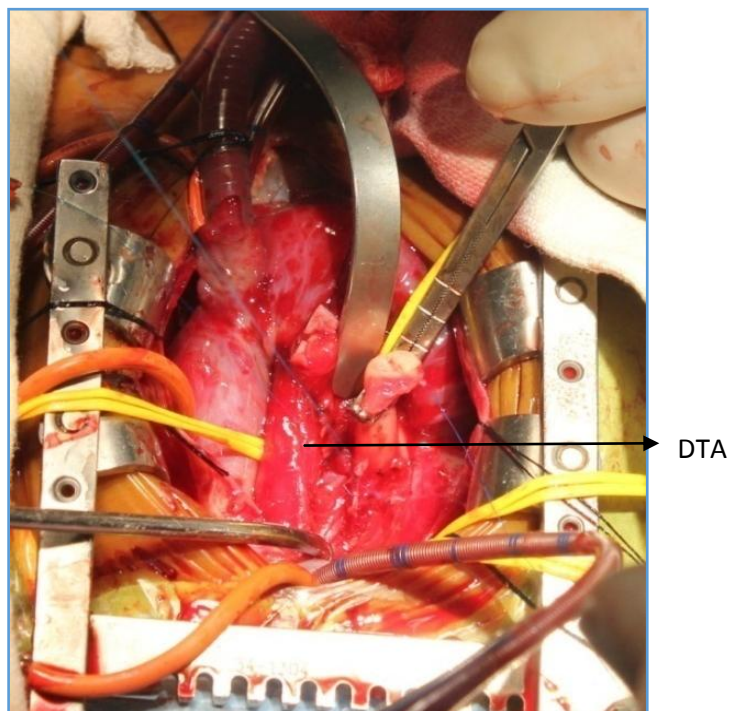
Cannulation: Left Brachiocephalic Artery- 8 Fr DLP, MPA- 8 Fr DLP, RA-SVC 18 Fr BARD, IVC- 12 Fr DLP.

CPB Time: 265 min. ACC Time: 120 min. Selective Cerebral Perfusion: 40 min.

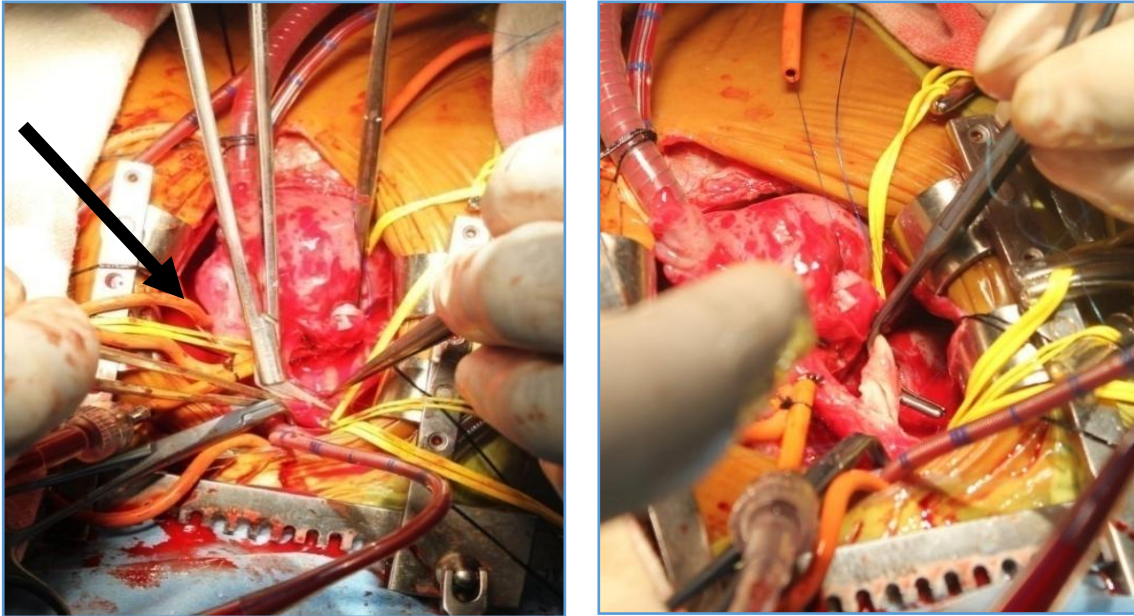
PROCEDURE: Standard midline sternotomy. Ascending Aorta, Aortic arch and branches, MPA and Branch PAs dissected and mobilised. PDA and DTA mobilised. Both branch PAs looped. Left brachiocephalic Artery and RA cannulated and went on partial bypass, keeping the branch PAs snugged. MPA cannulated and connected to the arterial line. Vent inserted to morphological LA through LSPV. DTA mobilised. MPA decannulated. DTA clamped. PDA suture ligated and divided. Cardioplegia cannulation done. Cross clamp applied proximal to Left Brachiocephalic cannula, for selective cerebral perfusion and tepid blood cardioplegia delivered via aortic root. Heart arrested promptly in diastole. Another clamp applied distal to Cardioplegia cannula, and the root

vented via cardioplegia cannula. Right common carotid artery and Right Subclavian Artery kept snugged. Arch incised at the interruption and the distal open end of DTA anastomosed to this incision. DTA clamp released, properly deairing the aorta. RA cannula pushed into SVC. IVC cannulated and connected to the venous line. Went on total bypass. Morphological RA opened. Bovine pericardial patch closure of SA VSD done, using interrupted Prolene sutures. Muscular VSDs closed using pledgetted prolene sutures. 2 mm PFO created. RA closed in single layer. Heart deaired and Aortic clamp released. Came off CPB with support of Dobutamine 5 mcg/kg/min, once rewarming is complete. Decannulation done. Hemostasis achieved. Sternum kept open and covered with membrane.

INTERRUPTED AORTIC ARCH REPAIR



DTA MOBILISATION



ARCH INCISED AT THE INTERRUPTION AND DTA IS BEING ANASTOMOSED TO THE ARCH INCISION

AORTOPULMONARY WINDOW

DIAGNOSIS: ACHD, TYPE III AORTOPULMONARY WINDOW, SEVERE PAH, SR

PROCEDURE: TRANS AORTIC AORTOPULMONARY WINDOW REPAIR, PFO LEFT OPEN.

HISTORY: 2month 3days old, 2nd Female Child, born via LSCS (1st Child CS with normal Health) for a 26year old mother & 29year old father (non consanguineous marriage) with birth weight 1.7kg, was diagnosed of Congenital Heart Disease at birth during routine check up. H/o Palpitation at birth. No h/o cyanosis/ seizures/ incessant cry. Recent onset of difficulty in feeding, with forehead sweating and cough present. H/o Poor Weight gain (+).

PHYSICAL EXAMINATION: Baby active, alert, oriented. No Pallor/ Icterus/ Cyanosis/ Dehydration/ Clubbing/ pedal oedema

WT: 2.3kg. RR- 80/min HR: 142/min

CVS – Hyperdynamic precordium, S1 S2 (+), Apex beat 5th LICS at MCL

Chest - B/L Vesicular breath sounds heard. Clear,

CNS – Normal P/A - Soft, BS (+), Hepatomegaly 4 cm below RCM

INVESTIGATIONS:

Blood Investigations: Normal

CXR: Normal Soft tissue and bony shadows, CTR= 0.7, LV apex, Pulmonary bay full, Increased & Prominent BV Markings

ECG: SR, HR- 140/min. Left axis deviation.

ECHO: LV: 23/14, Septal motion (N), LA/Ao: 13/9, Situs solitus, levocardia, AV&VA Concordance, SVC & IVC to RA, All Pulmonary Veins to LA. 6mm OSASD with L--->R Shunt with gradient 5/2mmHg, No VSD, Coronary Origin (N), 6mm distal AP Window with bidirectional shunt, LPA Velocity- 1 m/s & RPA Velocity 2.3m/s. Sev. hyperkinetic PAH, (L) arch, No Coarctation.

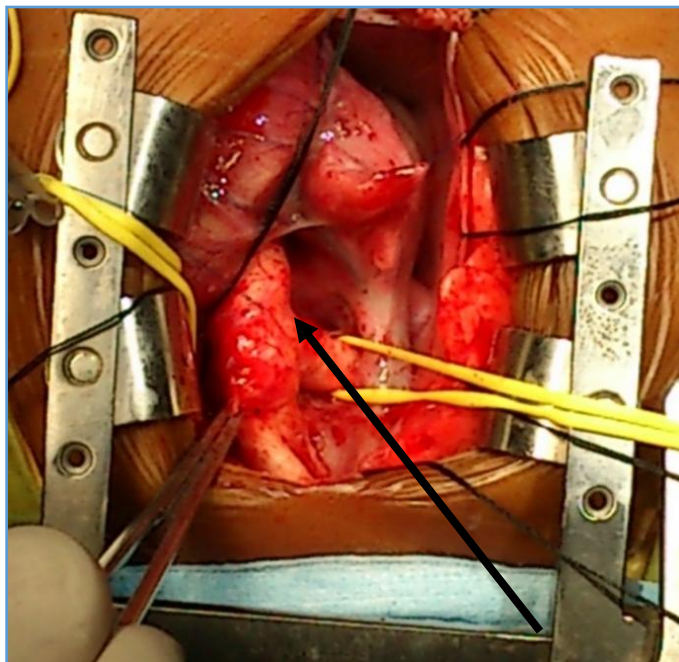
SURGICAL FINDINGS: Situs solitus, Levocardia. Normally related great arteries. Normal systemic and pulmonary venous drainage. RA, RV mildly hypertrophied. LA, LV dilated. Stretched open PFO of 5 mm size. Type III Aortopulmonary Window connecting RPA to ascending aorta. Small PDA.

Aortobicaval cannulation. CPB Time: 106 min ACC Time: 58 min.

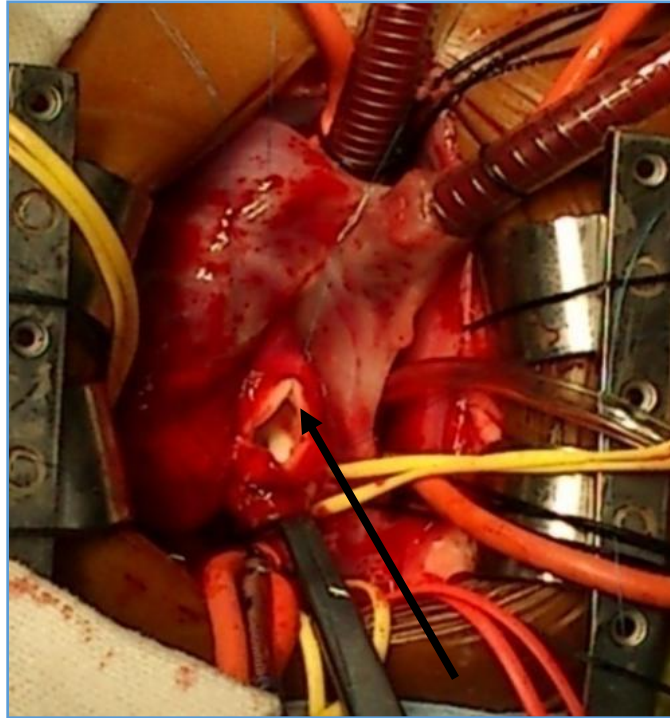
PROCEDURE: Standard Midline Sternotomy. LPA and RPA dissected and looped. Aorta and MPA dissected around the AP Window. PDA dissected and looped. Aorta cannulated in the arch. RA and IVC cannulated and went on partial bypass, keeping both PA branches snugged. LV vented through RSPV. PDA ligated. Cardioplegia cannulation done. Aorta crossclamped and antegrade tepid blood cardioplegia given. Heart arrested promptly in diastole. Cardioplegia cannula removed and opening in the aorta kept snugged. Aorta opened transversely at the level of the AP Window. e PTFE graft (5mm) cut opened and used to reroute the RPA origin to MPA through the aortic

lumen, separating it from the aorta. Incision in the anterior wall of Aorta closed using PTFE patch. RA cannula pushed into SVC. SVC and IVC snugged and went on total bypass. RA opened. PFO made restrictive. RA closed in single layer. Went back on partial bypass. Deairing done. Aortic crossclamp released with root vented. Heart picked up in sinus rhythm with support of Dobutamine 5 mcg/kg/min. Came off CPB in stages. Decannulation in stages. Hemostasis achieved. Wound closed in layers

AP WINDOW REPAIR



AP WINDOW BETWEEN ASCENDING AORTA & RPA



AORTA OPENED AT THE SITE OF AP WINDOW

THORACO ABDOMINAL ANEURYSM REPAIR

DIAGNOSIS: SACCULAR THORACO-ABDOMINAL AORTIC ANEURYSM (TYPE V)

PROCEDURE: INCLUSION ANEURYSMORRHAPHY USING 16MM COATED POLYESTER GRAFT (UNDER TEMPORARY AORTO-FEMORAL BYPASS + CSF DRAINAGE GA+CPB)

HISTORY: A 65 year old female, presented with c/o pain in abdomen and upper back x 3 months. Insidious onset and mild to moderate severe pain in abdomen in epigastric region, intermittent relieved by taking medicines. Associated pain in thoraco dorasal region. No h/o CAD/TIA/stroke/post prandial pain. No h/o HTN/DM/asthma.

PHYSICAL EXAMINATION: GC fair, N/o pallor/cyanosis/icterus. PR: 82/mn. BP: 110/60 mm Hg. No R-R. No R-F delay. Visible pulsation. Pulsatile mass in abdomen- non distended, Soft, non-tender. RS/CVS/CNS- WNL.

PERIPHERAL PULSES:

	C	B	R	Fem	Pop	PT	DP
Lt:	4+	4+	4+	4+	4+	4+	4+
Rt:	4+	4+	4+	4+	4+	4+	4+

INVESTIGATIONS:

Blood inv: Within normal limits

CT ANGIOGRAM - A large saccular eccentrically thrombosed aneurysm is noted arising from the lower DTA suprarenal abdominal aorta. No evidence of any extravasation of contrast. No ascites. Maximum outer to outer diameter - 8.1cm. Length of aneurysm - 11.5cm. Maximum thickness of thrombus - 3.2cm.

CAG – LMCA- Mild plaque +, -LAD- Ostial 20-30%, LCX- Mild plaque+, RCA- Normal

SURGICAL FINDINGS:

1. Two large saccular aneurysms arising from the medial side of lower DTA and supraceliac aorta with 2 x 2 cm mouth towards the aortic lumen
2. Intercostals, celiac, SMA and renal arteries arising from normal aorta
3. Flimsy lung adhesions with parietus and diaphragm, no effusion
4. Visualised retroperitoneal structures unremarkable
5. Left CFA supple and of good calibre

POSITION: Stoney's position (90deg at shoulder and 60deg at hips)

ANAESTHESIA: GA (DLT)

SPINAL CORD PROTECTION STRATEGIES:

Inj Methyl prednisolone (1g)

Lumbar catheter for CSF pressure monitoring and drainage

Moderate hypothermia (34degC)

Distal aortic perfusion (aorto-femoral shunt)

INCISION: Left thoraco-phreno-laparotomy + Vertical left groin incision

PROCEDURE:

Left femoral incision deepened and femoral sheath opened. Lt CFA dissected and looped for adequate length

Left thoracotomy performed and pleural cavity entered through 7th intercostal space. Obliques divided along line of incision and left retroperitoneal space created by sweeping peritoneum medially. Pleural adhesions with lung taken down to expose the DTA and aneurysmal segment upto the hiatus. Posterior pleural reflection over mid DTA incised and DTA dissected circumferentially taking care not to injure oesophagus. Aorta looped and clamp space created. 7th, 8th, 9th and 10th ribs/costal cartilages divided along line of incision. Diaphragm divided radially (marking with colour coded pledgetted 3-0 ticon stitches) leaving a part of the phrenic-bearing central tendon. Retroperitoneum exposed in the Jamieson-Crawford plane reflecting the left kidney medially. Infra-diaphragmatic aorta defined by dividing fibrofatty tissue overlying with ligation of lymphatics. Left renal artery and vein identified and dissected. LRA looped and parieto-renal tributary of LRV ligated and divided for exposing aorta. Immediate supra-renal aorta (above LRA) dissected and clamp space created. Aorto-femoral shunt circuitry prepared (including side-limbs to Inahara-Pruitt shunts for viscerorenal perfusion). Cell saver circuitry prepared.

Systemic heparinisation (2mg/kg). Lt CFA clamped proximally and distally and longitudinal arteriotomy placed. 9mm Dacron graft anastomosed end-to-side using 5-0 prolene. 2 purse-string sutures placed using 3-0 ticon in proximal DTA above the intended site of clamping. DTA cannulated using 20Fr Meditronic cannula and purse-

strings snugged. Aorto-femoral shunt connected and put on-line. DTA cross clamped and supra-renal aorta clamped. Aneurysm segment opened longitudinally. Profuse bleeding from visceral vessels and intercostals/lumbar arteries encountered, suctioned to cell saver. Distal clamp repositioned. Volume resuscitation and inotropes commenced. Intermittent clamping of aorto-femoral bypass shunt was required for hemodynamic resuscitation initially. Inahara-Pruitt shunts placed into celiac and SMA ostia and blood perfusion started. Prominent lumbar arteries at the lower end and intercostal at the proximal end occluded temporarily using 4F Fogarty balloon catheters. 16mm Dacron graft selected, fashioned to adequate length. Distal end bevelled for distal anastomosis incorporating visceral artery ostia. Distal anastomosis completed over teflon felt using 4-0 prolene. Anastomosis checked and distal clamp shifted to graft to allow distal retrograde perfusion to viscerorenal arteries. Proximal end of graft bevelled for incorporation of a prominent intercostal ostium at T7-T8 level. Proximal anastomosis completed using 4-0 prolene over teflon felt. 2cm of incised proximal aorta was closed primarily using 4-0 prolene pledgeted suture prior to completion of proximal anastomosis. Graft de-aired using a separate stab incision on graft closed later using pledgeted 4-0 prolene stitch. Aorta declamped ratchet-by-ratchet to prevent precipitous fall of BP on declamp. Small back-bleeding intercostal at supra-diaphragmatic level was suture closed using 4-0 ticon pledgeted stitch

Hemostasis ensured. Femoral pulse confirmed. Tissue glue and haemostatic agents placed over suture lines. Gelfoam placed into aneurysm sacs and around the graft. 32 Fr drainage tubes placed into pleural cavity and retroperitoneum. Betadine soaked roller gauze pack placed into retroperitoneum and brought out through a short ICD tube for later removal. Diaphragm sutured using double row of 2-0 ticon. Left lung re-expanded and retroperitoneal contents replaced. Sponge, gauze and instrument count tallied prior to closure. 5 litres blood suctioned to Cell saver and 2.8 litres of autologous packed RBCs returned to patient. Wound closed in layers.

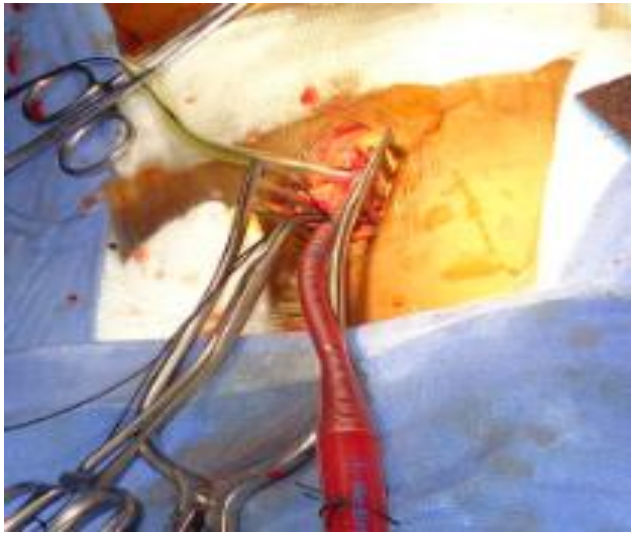
Patient shifted to ICU for elective ventilation and monitoring

COURSE IN HOSPITAL: This 65yrs old female was admitted with diagnosis of TAAA (Type V equivalent). On admission she was found to have severe anemia. Blood transfusions were given and her haemoglobin levels were brought upto 10g/dl. CAG was done on 28/04/2014 which was grossly normal. Pt was operated on 05/05/2014. Inclusion aneurysmorrhaphy using 16mm coated polyester graft (under temporary AF bypass + CSF drain and CPB). On POD-0 pt had significant bleeding via chest drain and hence she was immediately re-explored. There was a arterial spurter from the intercostal artery which was ligated. Pt was then shifted to ICU and ventilated electively for 48hrs and then extubated. She was doing well with ventimask for 2 days but later on she was not able to cough properly and there was thick seropurulent expectoration was present. She was intubated again and bronchoscopy guided aspiration was done via ET tube. Since prolonged ventilation was required, tracheostomy was done. Broad spectrum antibiotics and culture sensitivity based antibiotics were given. Gradually she was weaned off from ventilator. Her hemoglobin levels were repeatedly falling down for which Hemotologist opinioin was sought and all investigations carried out- advised to attach to his opd after discharge. Initially she was given TPN and later on switched over to RT feeds which she tolerated well. She tolerated room air well. CXR showed well expanded lungs. Gradually she was allowed orally and decannulation was done. She tolerated well after decannulation. At the time of discharge pt was healthy, ambulating well and hemodynamically stable.

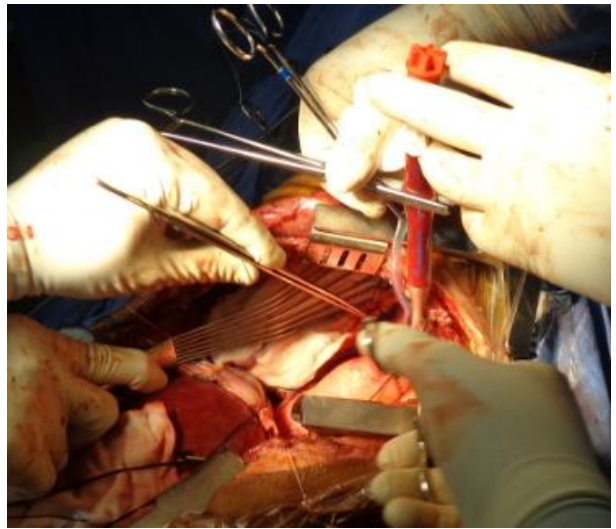
THORACO ABDOMINAL ANEURYSM REPAIR



POSITIONING FOR TAAA REPAIR

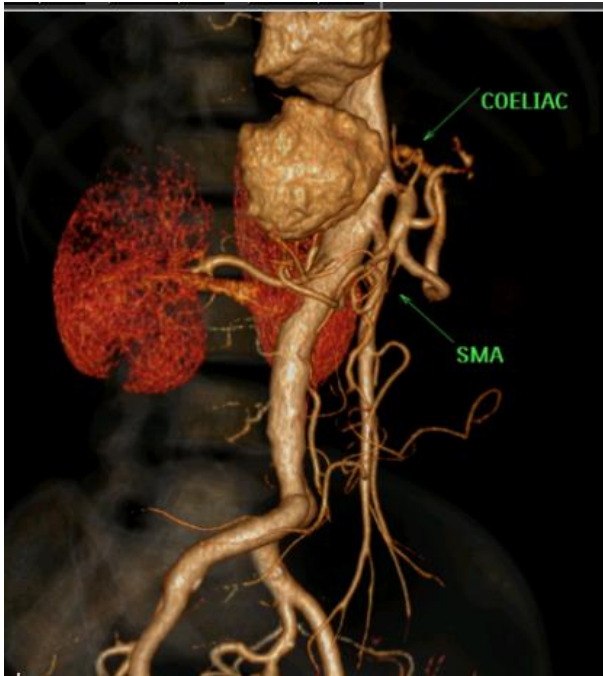


FEMORAL CANNULATION



PROXIMAL DTA CANNULATION

THORACO ABDOMINAL ANEURYSM REPAIR



SACCULAR TYPE V THORACOABDOMINAL AORTIC ANEURYSM



POST REPAIR CT ANGIOGRAM

INFRA RENAL ABDOMINAL AORTIC ANEURYSM REPAIR

DIAGNOSIS: INFRA-RENAL ABDOMINAL AORTIC ANEURYSM WITH IMPENDING RUPTURE; CAD - S/P CABG; HTN

PROCEDURE: INCLUSION ENDOANEURYSMORRHAPHY USING 20MM COLLAGEN COATED WOVEN POLYESTER GRAFT

HISTORY: A 52 years old female, a k/c/o CAD s/p CABG x 3 months back, was incidentally detected to have abdominal aortic aneurysm on CAG and referred for the same. No h/o pain in abdomen/chest pain/DOE/DM/TB/BA/CVA/palpitation/ Claudication pain/decreased urine output/ altered bowel habits. Chronic-smoker stopped since 3months. K/c/o CAD under CABG in May 2014 at NIMS Calicut. H/o subtotal thyroidectomy done 8 years back for MNG. Pt was detected to have IRAAA 4 years back and was on follow-up since the aneurysm was around 4cm that time.

PHYSICAL EXAMINATION: Pt conscious/oriented and afebrile. Comfortable at rest. No pallor/icterus/clubbing/cyanosis/ lymphadenopathy. PR: 86/min. BP: 150/80mmHg. RR: 18/min. No carotid bruit. P/A: A pulsatile mass of maximum diameter ~6cm in Right side of midline.

PERIPHERAL PULSES

	C	B	R	U	Fem	Pop	ATA	PTA
Rt:	4+	4+	4+	4+	4+	4+	4+	4+
Lt:	4+	4+	4+	4+	4+	4+	4+	4+

INVESTIGATIONS:

Blood inv: Within normal limits

CT ANGIOGRAM - A fusiform infra renal abdominal aortic aneurysm of size approximately 5.8 cm in max diameter, infra renal and extending upto bifurcation. Neck length in 2.6cm and it is ectatic.

SURGICAL FINDINGS:

1. Moderate sized intact AAA ~6cm wide with intra-luminal circumferential atheromatous thrombus, in the infra-renal aorta with ectatic proximal neck and distally extending upto aortic bifurcation. Mild calcification present at bifurcation
2. Fibrotic adhesions to the posterior peritoneal layer with a 2x1cm pulsatile aortic bleb on the anterior wall of aneurysmal aorta
3. B/L CIAs of normal calibre and supple
4. Ostium of IMA occluded with a prominent collateral vessel noted at base of transverse mesocolon
5. Rest of intra-abdominal viscera unremarkable

PROCEDURE:

Incision deepened and peritoneal cavity entered in midline. Transverse colon retracted cephalad and small bowel packed to the right. Posterior peritoneum incised in between the duodenum and IMV but was densely adherent to aneurysm lower done till the bifurcation. Ureters identified and safeguarded and both proximal CIAs dissected and clamp space created taken precautions to avoid injury to CIVs and superior rectal pedicle. Fibro-fatty tissue divided over the proximal end of AAA ligating crossing lymphatics. Infr-renal aortic neck identified (ectatic) and dissected on either side and clamp space created

Systemic heparinisation (2mg/kg). Cell-saver circuitry prepared. 20mm Dacron graft of adequate length fashioned. Infra-renal aortic cross-clamp placed and both CIAs clamped with bull-dog clamps. Longitudinal aneurysmotomy done and atheroma and thrombus evacuated. 10F Foley catheter placed into Rt CIA for intraluminal control

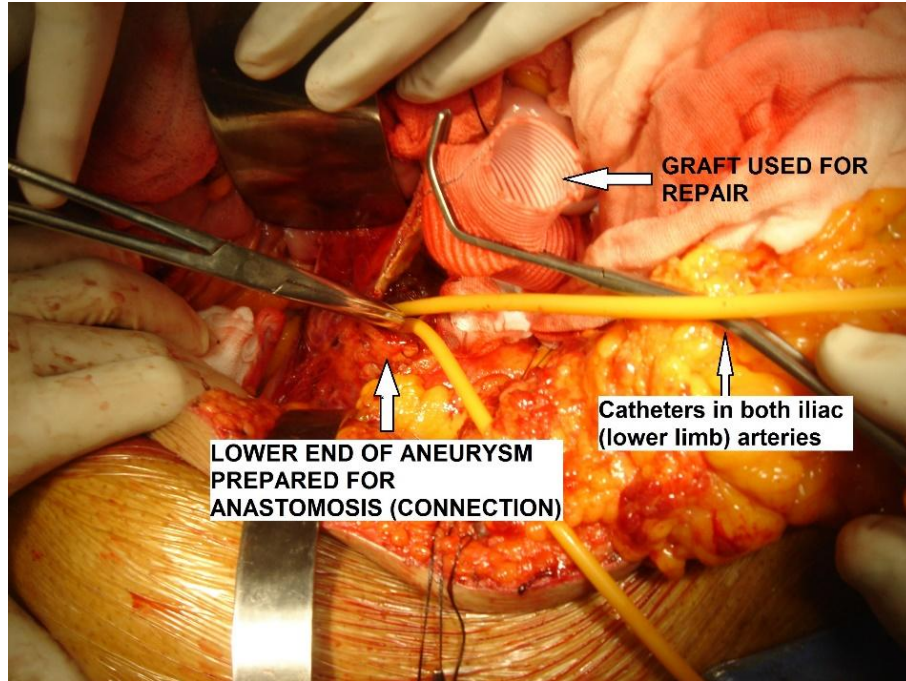
Proximal and distal T-cuts placed. No significant lumbar and IMA back bleed encountered. Proximal anastomosis completed with 4-0 prolene over teflon felt, clamp shifted to graft and anastomotic integrity assessed. A site of brisk suture line bleeding on right posterior aspect controlled with pledgeted 2-0 prolene stitch after temporarily reapplying the aortic clamp.

Distal anastomosis at aortic bifurcation done using 4-0 prolene over teflon felt, de-airing done and anastomosis checked on completion. CIAs declamped sequentially to prevent declamp hypotension. Femoral pulses confirmed. Hemostasis ensured. Tissue glue and hemostatic agents applied on proximal and distal suture lines. Aneurysm sac closed over graft using 2-0 ticon. Posterior peritoneum over the iliac artery and over the proximal aortic neck closed using 2-0 catgut. Peritoneal cavity mopped dry and contents replaced. Sponge, gauze and instrument count tallied prior to closure. 300 ml packed autologous red cells autotransfused to patient through cell-saver (approximate blood loss ~800ml). Wound closed in layers.

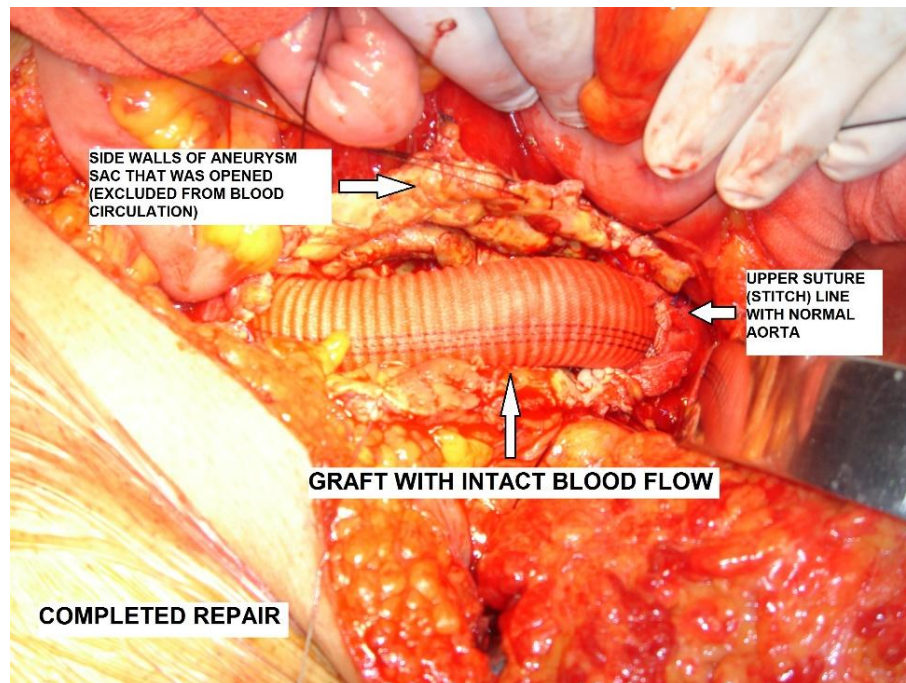
Patient shifted to ICU for elective ventilation and monitoring

COURSE IN HOSPITAL: This 52yrs old male a known case of HTN/CAD S/P CABG in May 2014, was now admitted with diagnosis of Infra renal abdominal aortic aneurysm. Since the neck was very ectatic, EVAR was not feasible and he underwent surgical repair in 20/008/2014 (Inclusion Endoaneurysmorrhaphy using 20mm collagen coated dacron graft was done). He had an un eventful post op recovery and he was discharged in a healthy condition.

INFRA RENAL ABDOMINAL AORTIC ANEURYSM REPAIR

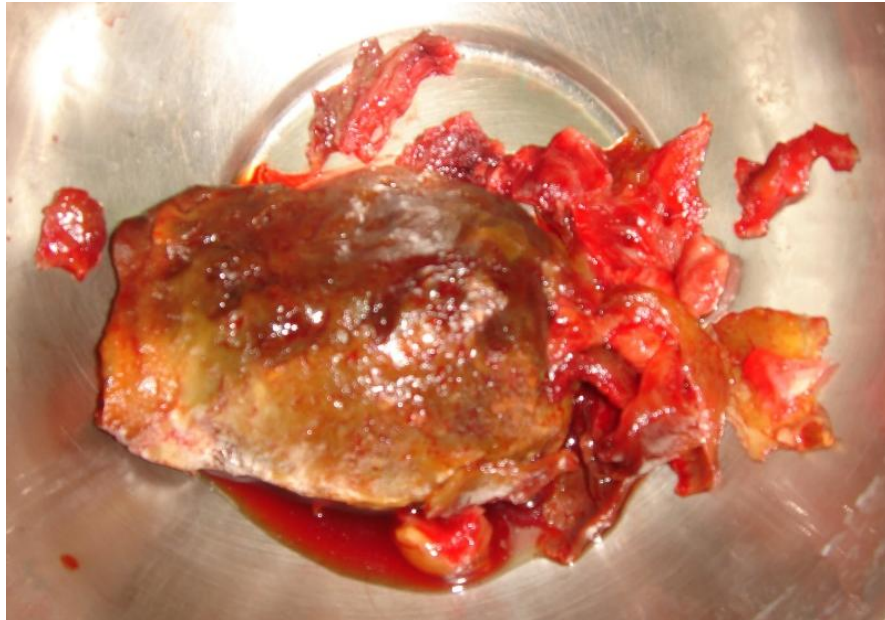


LOWER END OF ANEURYSM PREPARED FOR ANASTAMOSIS

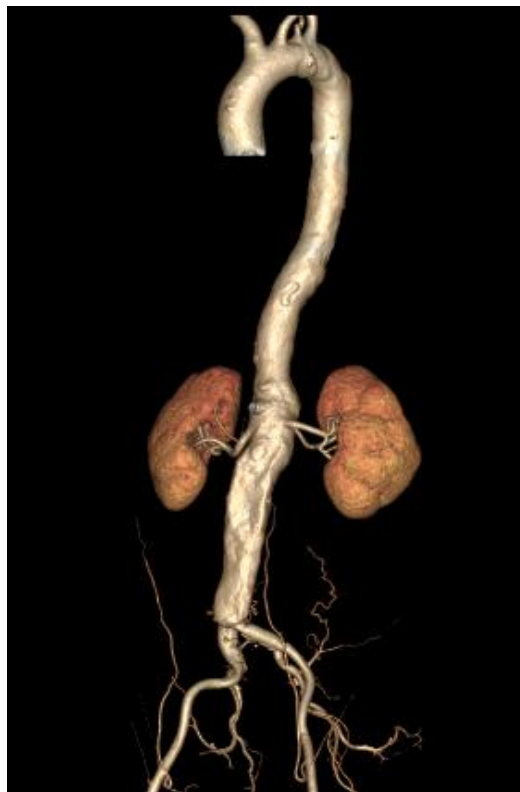


COMPLETED ANASTAMOSIS

INFRA RENAL ABDOMINAL AORTIC ANEURYSM REPAIR



THROMBUS EXTRACTED FROM THE ANEURYSM



POST OP CT ANGIOGRAM