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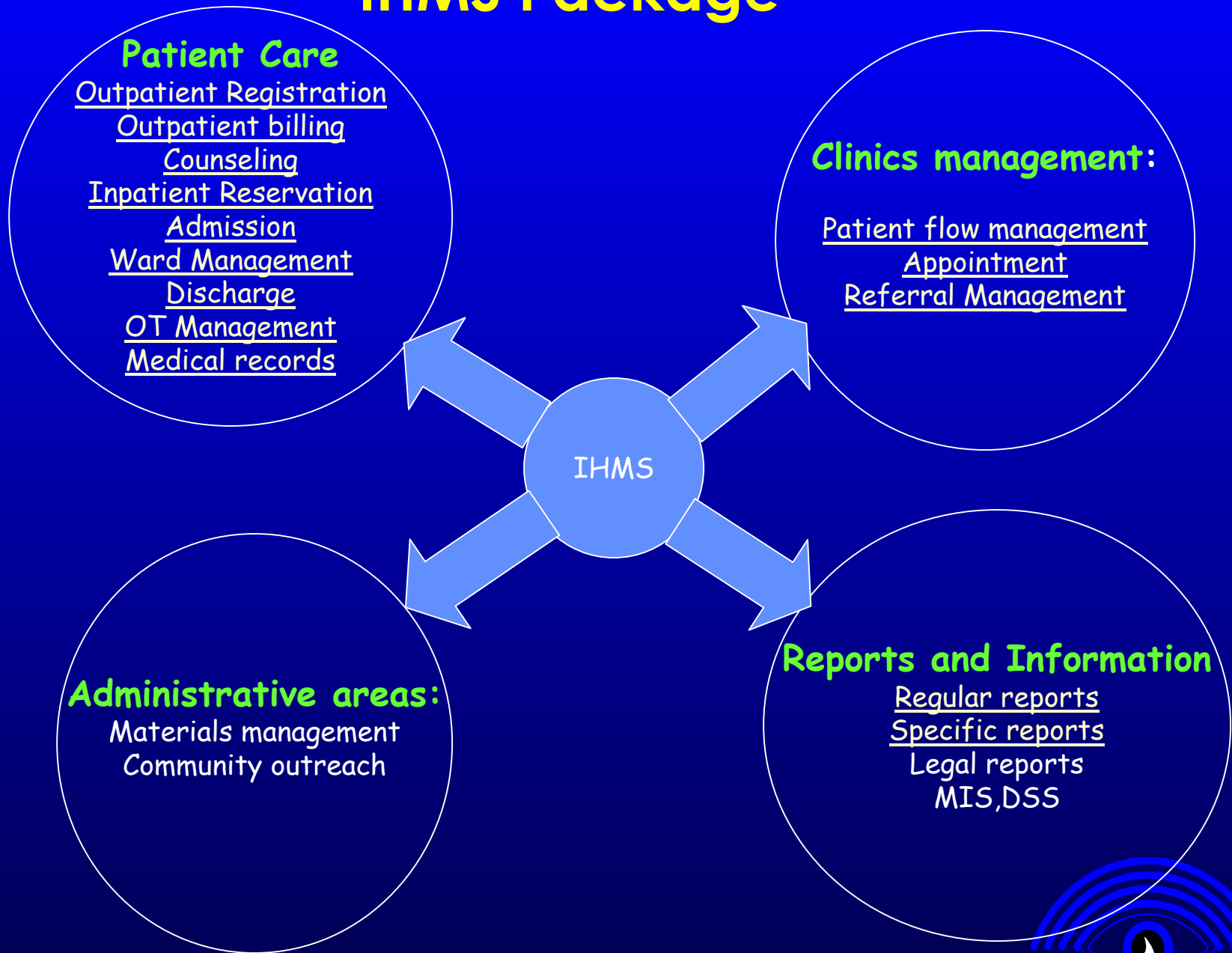


*Presents*

*Integrated Hospital Managements System (IHMS)*

*A Software Solution for Hospital Management*

# IHMS Package



## Patient Registration

Every Patient visiting the hospital for outpatient service or inpatient service is first registered using this module. It captures the demographic details of the patient and generates the Unique Sequential Medical Record Number, which can be used for coding the medical records for outpatient as well as inpatient services. Patients can be classified as Direct or Camp and Direct patients in turn can be classified as Paying, Corporate or Subsidy.

**Output:** Outpatient Record, ID Card and receipt if fee paid



# Patient Registration

Integrated Hospital Information System - [Patient Registration]

Patient Care Medical Records Tools Reports 1 Reports 2 Masters Front End Parameters Exit

P / F  Speciality  Patient Type  P.. Instance

M.R.No.  Allocation   Normal  Referral

PatientName  Age  Yrs  Mns  DOB

Next of Kin   Male  Female

Door No/Street

Locality  P.Station

Village/City  Phone No.

PinCode  Email ID

Taluk   Remarks

District

State

Country

MR Location  Patient Category  Payment Type  Fees

Operator Name  Collection

- Common for New and Review as well as Paying and Non-Paying
- Captures demographic details of the patient and
- Prints out outpatient record, ID Card and Receipt in a preprinted form



## Billing

To record the charges for the patient services provided by the various clinical departments, e.g. lab tests. The module can be set up either in centralized or decentralized format, e.g. to suit the setup of the cash department(s) in the Hospital

**Output:** Receipt



# Billing

**Integrated Hospital Information System - [Patient Billing]**

Patient Care Medical Records Tools Reports 1 Reports 2 Masters Front End Parameters Exit

Out Patient PAY/FREE      M.R.No.      Patient Name      Patient Category  
 In Patient PAY      500000      BALAKRISHNAN L.      FULL PAYMENT

Test Name      Room Type

TEST NAME	TEST LOCATION	TEST COST
ANA TEST	UNIT-1	250
BLOOD PLATELET COUNT	UNIT-1	20
BLOOD GROUP	UNIT-1	30

Charges 300

Doctor Name: GAIL.DR.      Payment Type: CASH      Operator Name: INDRA      Collection: 16525

Save      Cancel      Reprint      Receipt/C      Close

*To collect charges other than registration fee and  
Prints out the receipt in a preprinted stationary*



## Counseling/ Advise Details

Patients advised for surgery /treatment are routed through counseling process. You can use this module to record the advise details, counselor's name, patient's preferred date for admission.

### Output:

Counselor's efficiency

Acceptance rate using Advised Vs Operated



# Counseling/ Advise Details

**Patient Advicing**

<b>Mr Number</b>		<b>Advise Date</b>	<b>Expected Admission Date</b>	
P262655			15/07/2002	
<b>Vision</b>		<b>Cataract Type</b>		
<b>Right</b>	2/60	MATURE CATRACT		
<b>Left</b>	2/60	IMMATURE CATRACT		
<b>Eye Details</b>	<input type="radio"/> Left <input checked="" type="radio"/> Right <input type="radio"/> Both	<input checked="" type="radio"/> Surgery <input type="radio"/> Others	<b>No. Of Days</b>	3
		<b>Room Type</b>	<b>Room Type</b>	
BLEPHARO PLASTY BLUB REVISION <b>BOWMENS CAUTERISATION</b> C3F8 REMOVAL CANALICULAR REPAIR+LID TEAR SUTURING				
<b>A</b>	<b>ASN</b>	<b>B</b>	<b>C</b>	<b>OP</b>
0	0	0	0	0

<b>Personal Details</b>	
<b>Name</b>	KARKULAZI
<b>Age</b>	20.5
<b>Sex</b>	F
<b>Date Of Birth</b>	01/01/1982
<b>Door</b>	KANNI MAAADAM
<b>Street</b>	
<b>City</b>	MAYLAIMANGALAM
<b>Pin</b>	
<b>District</b>	MADURAI
<b>State</b>	TAMIL NADU
<b>Country</b>	INDIA

**Apprehensions**

Counsellor: INDRA

Save Cancel Exit

- Captures Details of Treatment Advised
- Helps to assess Counsellor's efficiency
- Helps to assess acceptance rate using Advised Vs Operated





## Reservation

This module is used to reserve the room for admission. It takes into account the capacity of the resources available. It supports reservation with or without advance amount collected from the patients. A reservation slip is issued to the patient and if he pays an amount as an advance, a receipt is also issued. When the patient actually gets admitted, the detail captured by this module is used in the admissions module.



# Reservation

Integrated Hospital Information System - [In Patient Reservation]

Patient Care Medical Records Tools Reports 1 Reports 2 Masters Front End Parameters Exit

ReservationDate: 03/04/2002 ReserveNo:

Medical Record Number: 500099 Temp. Mr. No.

Advise Case Number:  Optional

	Vision	Cataract Type
Right	<input type="text"/>	<input type="text"/>
Left	<input type="text"/>	<input type="text"/>

Room Type: A Eye: LEFT

Room Type2:   Surgery  Others

Surgery Name: No. Of Days: 2

A.C IOL + VITRECTOMY  
A.C IOL+MEMBRENECTOMY  
**A.C REFORMATION**  
A.C TAP  
A.C WASH  
A.C.IOL EXPLANTATION

Preferred Date of Admission: 06/04/2002

Date of Transfer:

Advance Amount: 1000

	A	ASA	ASN	B
04/04/2002	10	4	6	9
05/04/2002	10	4	6	10
06/04/2002	11	4	6	11
07/04/2002	11	4	6	12
08/04/2002	10	4	6	9
09/04/2002	10	4	6	9
10/04/2002	11	4	6	11
11/04/2002	10	4	6	11
12/04/2002	11	4	6	12
13/04/2002	12	4	6	12
14/04/2002	12	4	6	12
15/04/2002	11	4	6	12
16/04/2002	11	4	6	12
17/04/2002	11	4	6	12
18/04/2002	11	4	6	12

Clear Split Ok Cancel

- Reserves the room to be allotted on a given date.
- Collecting advance is optional
- Prints out Reservation Slip



## Inpatient Admission

This is the base module for inpatient services. A separate unique account is generated internally to control all procedures and activities relating to that admission. The module also captures and updates the room and surgery details, and also computes the cost of surgery, etc. It also allows for collection of an advance.



# Inpatient Admission

**In-Patient Admission**

Pay / Free:

MR Number:

IP Number:

Date:

Date Of Reservation:

Exp. Discharge Date:

Personal Details	
Name	SOUNDARAPANDI M.
Age	42.7
Sex	M
Date Of Birth	20/08/1959
Door	15,VEDATHALAN KADU 2ND ST
Street	KARUVAM PALAYAM PO.
City	TIRUPPUR
Pin	0
District	COIMBATORE
State	TAMIL NADU
Country	INDIA

**Direct**

Surgery Name:   Surgery  Others

Room Type 1:  2:

Anesthesia:

Eye:  Left  Right  Both

Doctor Name:    
ABHIJIT.B DR.   
ABHIJIT.T.DR.   
AGNES.DR.   
AJAY SHARMA DR.

Type of Lens:

Toilet:  Floor:  Ward:

Amount Details	
Estimated Amount	5740
Advance on Reservation	0
Advance Paid Before	0
Advance on Admission	5500
Balance Amount	240

Patient Category:  Payment Type:

- Captures surgery details and prompts estimated charge
- Allots the Room
- Prints out the receipt for advance collected



## Operation Theatre Module

This module records the surgery details and complications, and updates the system with the details of the costs incurred. You can generate surgery schedule and surgery report from this module. It is supported with the inventory module to manage the inventory maintained at operation theatre.



# Operation Theatre - Scheduling

Integrated Hospital Information System - [OT - Surgery Sheduling]

Patient Care Medical Records Tools Reports 1 Reports 2 Masters Front End Parameters Exit

Patients List

Patient Type **PAY**  Select all Patients for Surgery Mr No  Date **04/04/2002**

S NO	MR NO	PATIENT NAME	SURGERY	ROOM NO	ADM DA
8	1643097	THANGASAMY	LODGING	415C05	01/04/21
9	1643454	ABDUL MAJEETH M.	IOL P.C ( PHACO )	328B1	02/04/21
10	859851	ABDUL SAMAD	INTRA OCULAR LENS INSERTI	309A	01/04/21
11	1643791	ADHINAMILAGI R.M.M.	IOL P.C ( PHACO )	329B4	03/04/21
12	1643466	AHAMED GARIB	UNMENTIONED	346A	02/04/21
13	1643660	AJMAL KHAN	INTRA OCULAR LENS INSERTI	338B5	02/04/21
14	1643499	AMIRTHALINGAM PILLAI V.	IOL P.C ( PHACO )	210A	02/04/21
15	1472045	AMIITHAVAI I V	IOL P.C ( PHACO )	427C3	02/04/21

Surgery Detail

MRN 1643660 Patient Name AJMAL KHAN Age 1 Sex M Admission Date 02/04/2002

Eye **RE** (LE / RE) IOL Power  IOL Type

Anaesthesia **LOCAL** Surgery **INTRA OCULAR LENS INSERTION**

Doctor **UNMENTIONED** Group **COMPLICATED CASES**

Remark  OT **MAIN THEATRE**

Save All Update New Patient Update All Refresh Exit

- Allows to modify details captured on Admission
- Provision to Group the patients as per the priority



# Operation Theatre - Updation

Treatment and cost details

Patient Type **PAY** MRN 262580 Date 11/07/200

Mapping Surgeon | Surgery Cost Updation | Complication

Surgery Detail

MRN 16764 Patient Name PUTHIAMMAL V.  
 Age 60 Sex F Admission Date  
 Eye RE (LE / RE) IOL Power 9.0 IOL Type ac  
 Anaesthesia LOCAL Surgery IOL P.C ( PHACO )  
 Doctor UNMENTIONED Group PHACO - B CLASS  
 Remarks OT MAIN THEATRE

Additional Procedure Save

• Updates scheduled data with Actual

• Updates surgical complications

Treatment and cost details

Patient Type **PAY** MRN 1671118 Date 12/07/200

Mapping Surgeon | Surgery Cost Updation | Complication

Intra Surgery Complication Detail

Complication Detail

A/C SHALLOW  
 AC - FM 1+  
 AC - FM 2+  
 AC - FM 3+  
 AC - HAPTIC  
 AC - HYPHEMA > 3MM  
 AC - IRITIS 1+  
 AC - IRITIS 2+  
 AC - IRITIS 3+  
 AC - MINIMAL CORTEX  
 AC - SEVERE UVEITIS + HYPOPYON  
 AC - SIGN. CORTEX/EPINUCLEUS  
 AC - VITREOUS  
 AC - VITREOUS IN THE WOUND

Action Detail

Save Cancel

Treatment and cost details

Patient Type **PAY** MRN 262580 Date 10/07/200

Mapping Surgeon | Surgery Cost Updation | Complication

Surgery Cost Detail

MRN 16764 Name PUTHIAMMAL V.  
 Surgery

S.No	Description	Cost
1	DRESSING CHARGE	500
2	SURGERY CHARGE	3000
3	MEDICATION CHARGE	1200
4	SURGEON CHARGE	0

Total OT Charges 4700

Modify Update Surgery Detail View Save

• Charges are debited into account

• Allows to add charges if any



# Inpatient Ward

statement of admission and discharge

Ward: **SECOND FLOOR** Date: **12/07/2002**

**Admissions:**

Sl	Name	MR No	IPA	Room	Rec.No	Time
1	LAKSHMI N.S.	1675023	301133	214B2	36327	10:00
2	TARALAKSHI N.	993739	301136	216B4	36330	10:11
3	CHELLAMMA N.P.	1681234	301137	210A	36331	10:15
4	DHARMASEELAN D.	1681283	301138	226A	36332	10:26
5	PARTHASARATHY R.	1681286	301139	232B4	36333	10:28
6	PANDIAN S.V.	1677440	301143	213A		10:39
7	CHANDRASEKARA REDI	1681260	301145	232B1	36340	10:46
8	SOBHANA M.J.	1681317	301147	206A	36342	10:50
9	SELVARAJ R.	1681240	301149	216B2	36346	11:01

**Discharge:**

Sl	Name	MR No	IPA	Room	Bill No	Time
1	PALANIAPPAN	1679201	300627	211A	32443	09:37
2	DURAISAMY MUDALI	561101	300620	205A	32418	09:06
3	SANTHAMMAL S.	709884	300651	204A	32501	11:54
4	PADMAVATHY	1679124	300707	232B4	32453	09:47
5	GURU PRASAD S.	1622891	300711	210A	32451	09:46
6	SULAIMAN P.M	1654415	300809	206A	32468	10:24
7	SELVARAJ K.	1680008	300825	233B3	32482	11:13
8	MUTHUGURUSAMY G.	1678158	300830	215B1	32434	09:25

**Room Details:**

Room Type	No of Beds	Opening	Admissions	Discharge	Closing	Vacant
A	23	27	9	14	22	1
ASA	1	1	0	0	1	0
ASN	3	3	0	0	3	0
B	20	24	5	15	14	6
SUT	2	1	0	0	1	1

Room Details  
Close

- Monitors Admissions, Discharges and rooms availability for the selected ward





# Inpatient Ward contd...

patients waiting for surgery

Ward:  Date:

**List Of Patients Waiting For Surgery**

Room no	Patient Name	MR No	Admn Date	Admitted For	Sheduled	Remarks
202A	SIVARAMAKRISHNAN R. S.	P1680781	10/07/2002	PHACO WITH FOLDBABLE LENS	Yes	
236ASA	RAJENDRA R.DESAI	P1648382	11/07/2002	UNMENTIONED		
227A	KRISHNAVENI R.	P1680863	11/07/2002	PHACO WITH ACRYSOFL LENS	Yes	
218A	SENTHIL KUMAR S.	P1680891	11/07/2002	INTRA OCULAR LENS INSER	Yes	
232B2	RAJU THEVAR A.	P1680043	11/07/2002	IOL P.C ( PHACO )	Yes	
201A	SIVASUBRAMANIAN N.	P1646228	11/07/2002	INTRA OCULAR LENS INSER	Yes	
216B1	THOMAS M.	P1498982	11/07/2002	IOL P.C ( PHACO )	Yes	
205A	RAJAMMAL	P1681168	11/07/2002	IOL P.C ( PHACO )	Yes	
211A	KALIMUTHU PILLAI S.K.S.	P1681124	11/07/2002	INTRA OCULAR LENS INSER	Yes	
233B2	ABRAHAM P.M.	P1680910	11/07/2002	IOL P.C ( PHACO )	Yes	
216B3	LAKSHMI B.	P1680896	11/07/2002	IOL P.C ( PHACO )	Yes	
221A	DATHANAM D.	P1648331	11/07/2002	PHACO WITH ACRYSOFL LENS	Yes	

Close

- *Monitors patients waiting for surgery in a ward*



## Inpatient Ward contd...

Form1

Ward: SECOND FLOOR Date: 12/07/2002

**List Of Patients Waiting For Discharge:**

Room no	Patient Name	MR No	Admn Date	Surgery/Treatment Details	Surgery Date	Remarks
214B1	GNANASELVAM	P1673049	06/07/2002	VITREOUS TAP	11/07/2002	
203A	SUBRAMANIYA SIV.	P1389179	09/07/2002	INTRA OCULAR LENS INSERT	10/07/2002	
202A	SIVARAMAKRISHN/	P1680781	10/07/2002			
236ASA	RAJENDRA R.DESA	P1648382	11/07/2002			
241ASN	CHANDRA M.	P1675235	11/07/2002			

Close

- *Monitors patients due for discharge as per stipulated length of stay*



# Inpatient Ward contd...

Pre-OP Rounds

Ward: FIRST FLOOR Date: 12/07/2002

**PreOperative/Unoperated Patients List**

Room no	Patient Name	MR No	Admn Date	Admitted For	Sheduled	Remarks
106A	RAJA THILAGAR RAM.	P833799	08/07/2002	RD+MEMBRANECTOMY	Yes	
107A	ABDUL AZEEZ	P1597192	11/07/2002	IOL P.C ( PHACO )	Yes	
109A	PAITHAL	P1550905	09/07/2002	VITRECTOMY+C-3-F-8	Yes	
111A	SUBRAMANIAN	P1632036	11/07/2002	VITRECTOMY+SILICON OIL	Yes	
121B4	MAHALINGAM M.	P1676634	11/07/2002	CORE VITRECTOMY	Yes	
122B2	RANJITH N.	P1680835	11/07/2002	IOL P.C ( PHACO )	Yes	
123B3	KALIMUTHU N.	P1680466	10/07/2002	UNMENTIONED		

Print Close

- Lists the patients for Pre-Operative and other doctor rounds



# Inpatient Ward contd...

Medical leave certificate

**Medical Leave Certificate:**

IpA No : 300000

MR No : P1675175

Date of Admission : 28/06/2002 2:00:30 PM

Date of Operation : 29/06/2002 3:48:32 PM

Date of Discharge : 30/06/2002 10:17:42 AM

Surgery done : IOL P.C ( PHACO )

Personal Details	
Name	SRINIVASAN V.
Age	70.5
Sex	M
Date Of Birth	01/01/1932
Door	WEST ST,KARISALPATTI VIL
Street	ELYIRAMPANNAI
City	SATTUR
Pin	
District	VIRUDHUNAGAR
State	TAMIL NADU
Country	INDIA

**Operation / Treatment Details**

Phaco with IOL surgery was done in his left eye.

Rest days : 10

From : 18/07/2002

To : 18/07/2002

Ok Print Exit

- *Prints Certificates and Medical reports for inpatients*



# Inpatient Ward contd...

**Discharge Summary**

**Name:** SRINIVASAN V.      **Age:** 70      **ICN:** 300000  
**City:** SATTUR, VIRUDHUNAGAR      **Sex:** M      **MRN:** P1675175

**Diagnosis:** RE:       Date of Admission:   
 LE:

**Operation Notes:**  
 Surgery:       Date of Surgery:   
 Eye:.....

**Discharge Notes:**       Date of Discharge:

PreOp Visual Acuity RE:       Visual Acuity(Discharge):       Pinhole:   
 PreOp Visual Acuity LE:

**Post-Operative Instructions:**      **Group:**

Medication	Days	Date		Timings					
		From	To	1	2	3	4	5	6
MILBETA	7	30/06/2002	07/07/2002	6 Times					
MILBETA	7	07/07/2002	14/07/2002	5 Times					
MILBETA	7	14/07/2002	21/07/2002	Y	Y	Y	Y		
MILBETA	7	21/07/2002	28/07/2002	Y	Y		Y		
MILBETA	7	28/07/2002	04/08/2002	Y			Y		
MILBETA	7	04/08/2002	11/08/2002	Y					

Review Date: (1)       (2)       (3)       (4)       (5)       (6)



- Prints Discharge Summary in a preprinted stationary



## Inpatient Discharge

This module takes care of preparing the final bill for inpatient services, and issues the gate pass to the patient enabling them to leave the hospital after payment is received



# Inpatient Discharge

Integrated Hospital Information System - [In Patient Discharge]

Patient Care Medical Records Tools Reports 1 Reports 2 Masters Front End Parameters Exit

## IP-DISCHARGE

OK IPA NO

Type: PAY  
IP\_NO: IP17119  
IPA\_NO: 292512  
Name: SARASWATHY D.  
MR. No.: P1643088

Discharge Date: 03/04/2002  
Admission Date: 01/04/2002 09  
Room Type: A  
Room No.: 204A

Test Name  
Test Cost  
Charge Type  
Doctor Name

Vacating Time: 13:01:31  
FULL PAYMENT  Absconded

Date	Description	Debit
01/04/2002	IP_ADMISSION_A...	
01/04/2002	LUNCH	45
01/04/2002	DINNER	22
01/04/2002	BREAK FAST	14
01/04/2002	MEDICAL SERVICES	120
02/04/2002	BREAK FAST	27
02/04/2002	MEDICAL SERVICES	120
02/04/2002	OT DRESSING CH...	500
02/04/2002	OT SURGERY CH...	3500

Surgery  
1 INTRA OCULAR LENS  
2

Total Expense: 4438  
Advance Paid: 4700  
Subsidy:  
Balance: -262  
Pay Amount: 262  
CASH

REPRINT SAVE CANCEL CLOSE

Personal Details	
Name	SARASWATHY D.
Age	70.2
Sex	F
Date Of Birth	01/01/1932
Door	15,BANADURAI(NORTH)
Street	
City	KUMBAKONAM
Pin	
District	TANJORE
State	TAMIL NADU
Country	INDIA

- Displays charges debited to patient account and allows to add if required
- Room-rent calculation are automated
- Prints out final bill and gate pass in a preprinted stationary



# Medical Records

This module helps to maintain the core information on clinical care. A complete standard International Classification Diagnosis (ICD) is used to build up the data for medical records. You can maintain diagnosis, treatment advised and surgery/treatment details in the record.

It provides two levels of medical records: One is to have the basic data and other level helps to have the detailed records of surgery, diagnosis etc.

As part of the medical records, it allows to store image output from any equipment.





# Medical Records

**Medical Record**

P / F:  Date:  Last Visit Date: 12/04/2002

Mr No:  Age: 60 Sex: M

Name: ABDUL LATHIF

Address: N.N.PARK STREETAM Base Unit: UNIT-1

City Name: RAMANATHAPURAM Last Unit Visited: GLAUCOMA CLINIC

Cardiac  One Eyed  Hypertensive  Asthmatic  Diabetic Allergic:

Specify Others:   Reference

TYPE:  LOCATION:  DOCTOR:  EYE:

ICD-CODE:

Visit Date	Icd C...	Icd Description	E...	Visit	Doctor	location
09/02/2002	365.11	PRIMARY OPEN ANGLE GLAUCOMA	BE	DIAGNOSIS		GLAUCC
09/02/2002	C18	GLAUCOMA CLINIC	BE	DIAGNOSIS		GLAUCC
09/02/2002	P10	REFRACTION	BE	DIAGNOSIS		GLAUCC
07/01/2002	13.75P	IOL P.C [ PHACO ]	LE	TREATMENT...	JACOB MATHEW DR.	OT MOD
05/01/2002	13.75P	IOL P.C [ PHACO ]	LE	ADVISE		GLAUCC
05/01/2002	366.02	POST. SUB. CAPSULAR CATARACT [PCC]	BE	DIAGNOSIS		GLAUCC
05/01/2002	366.12	IMMATURE CATARACT	BE	DIAGNOSIS		GLAUCC
05/01/2002	C18	GLAUCOMA CLINIC	BE	DIAGNOSIS		GLAUCC
05/01/2002	D01	A-SCAN BIOMETRY	LE	DIAGNOSIS		GLAUCC

- *Captures Diagnosis, Advise, Procedure, Surgery/Treatment Data*



# Cataract Surgery Cases

## - Pre-Operative Notes

**Pre Operative Record**

P / F:  MR NO:  NAME:  Date:   
 IP. No.  SEX:  AGE:   
 Admitted for:  Eye to be operated:   One Eyed

	Right	Left
Lens Status	<input type="text" value="NS,PSC"/>	<input type="text" value="NS,PSC"/>
Vision Unaided	<input type="text" value="6/24"/>	<input type="text" value="1/60"/>
P.H / Aided	<input type="text" value="6/12P"/>	<input type="text" value="1/60"/>

**Associated Conditions**

Right Eye	Left Eye
<input type="text" value="POAG"/>	<input type="text" value="POAG"/>

Tension:  Duct:  Pupil: Right  Left

**K-reading**   
**Axial length**   
**IOL power AC**   
**PI - Convex**   
**Bi - Convex**

**Special Instructions**

Pre-OP : Visual Prognosis  Guarded  Normal

**Systemic Illness**

Diabetic  Cardiac  Asthamatic  Hypertensive

BP:   
 U. Sugar:  +  
 Bl. Sugar:   
 Allergies:

Records Only for Mr No. P1617502

Buttons: New, Cancel, Save, Exit, Edit, All, First, Next, Previous, Last



# Cataract Surgery Cases

## - Surgery Notes

**Integrated Hospital Information System - [IOL Surgery Record]**

Patient Care | Medical Records | Tools | Reports 1 | Reports 2 | Masters | Front End Parameters | Exit

P / F: **PAY**

MR NO: **1617502**      NAME: **ABDUL LATHIF**      Operation Date: **07/01/2002**

IP. No.: **286831**      AGE: **60**      SEX: **M**      Eye: **LE**

Surgery: **IOL P.C ( PHACO )**

**Anesthesia**  
Type: **LOCAL**  
Given By: **DEEPINDRAJIT SING**

**Operative Notes**  
Surgeon: **JACOB MATHEW DR.**      Theatre: **MAIN THEATRE**  
Asst. Nurse: **VALARMATHY**      Case No.: **2**

Section: **TUNNEL**      IOL:  In the bag  Sulcus  AC      IOL Model: **B3602**      Power: **20.0**

Extraction: **PHACO**

Capsulotomy: **CAPSULORHEXIS**      Manufacturer: **AUROLAB**      Serial No.: **K6236-77**

Iridectomy: **NIL**      Suture Type: **SUTURE LESS**      Suture Material:       No. of Sutures:

**Complication**  
PC RENT WITH VIT. DISTURBANCE

**Others**  
**Remarks**

Frame 1

**New**   **Save**   **Edit**   **Filter**   **Cancel**   **First**   **Next**   **Previous**   **Last**   **Exit**



# Cataract Surgery Cases

## - Immediate Post-Operative Notes

Postoperative Record

P / F  Operation Date 07/01/2002

MR NO  NAME ABDUL LATHIF

IP. No.  AGE 60 SEX M Eye LE Surgery IOL P.C ( PHACO )

Complication	From Day	To Day	Remarks
CORNEA-CORNEAL EDEMA 2+	1	2	

Vision Unaided  Vision With PH

Cause for V/A <=6/36

Ant. Segment  Post Segment



# Cataract Surgery Cases

## - Follow-up (Post-Operative) Notes

Form3

P / F  NAME ABDUL LATHIF Visit Date

MR NO  AGE 60 SEX M Eye LE Surgery IOL P.C ( PHACO )

IP. No.  Operation Date 07/01/2002

VISIT DATE	COMPLICATION	REMARKS
09/02/2002	NO COMPLICATION	

Wearing Glass

	Presenting Vision	SPH	CYL	Axis	Best corrected V/A Vision With PH	
Right	<input type="text" value="6/60"/>	<input type="text" value="-2.50"/>	<input type="text" value="-1.0"/>	<input type="text" value="90"/>	<input type="text" value="6/18P"/>	<input type="text" value="6/12P"/>
Left	<input type="text" value="6/18"/>	<input type="text" value=""/>	<input type="text" value="-2.0"/>	<input type="text" value="90"/>	<input type="text" value="6/6"/>	<input type="text" value=""/>

Remarks for V/A < 6/18



## Appointments

This module supports making patient appointments and also block time for other activities of the doctor like Operation, Ward Visit, meeting medical representatives etc.

**Outputs:** List of patients for a given date,  
schedule for a given date



# Appointments

Appointment Entry Screen

**Personal Information**

MRN:  Patient Type:

Name:  Age:  Sex:

Address:

**Appointment Chart:**

Time Slab	Appointment	Available
07.30-08.00	1	6
08.01-08.30		7
08.31-09.00		7
09.01-09.30		7
09.31-10.00		7

Strength/Slab **15**  
Direct/Open **8**

**Appointment Information:**

Date:

Doctor   
 Clinic/Procedure

Time Slab:  Time:

Details of Appointment

**Appointment Details:**

Sl#	Time	MRN	Name
1	00:00	P500000	BALAKRISHNAN L.

- Advance booking of patients visits against Doctor or Clinic



## Patient flow Management

This module keeps track of a patient's location during their stay in the hospital or on an outpatient visits. It also identifies the resource utilization and workload distribution at various points. It helps you to plan for reallocation of resources and other activities to meet the unforeseen instance





# Patient flow Management

Integrated Hospital Information System

Patient Flow Management - Track Log

Mr. No: P494166

Name	City	Age	Sex	Mno
ABDUL AZEEZ A	TANJORE	52	M	P1631674
ABDUL JABBAR	MADURAI	18	M	P1622312
ABDUL KANI	KALLAKURICHI	42	M	P1497069
ABDUL RAGHUMAN	MADURAI	66	M	P1668974
ABDUL RAHM S M	TANJORE	62	M	P1682188
ABDUL RAHMAN A	TRIVANDRUM	73	M	P494166
ABDUL RAHMAN R S	TRICHUR	59	M	P1552699
ABDUL RASHEED E	PALGHAT	37	M	P712451

Name: ABDUL RAHMAN A      Relative: H/O NAJEEB

Address: PARAMBIL THOPPU HOUSE

District: TRIVANDRUM

State: KERALA

Patient Current Location: UNIT-3

Previous Location's:

Registration Time: 01:40:04    In Time: 01:40:04    Out Time:

NUM      17:57

Identify Current patient location

Helps to Monitor Patient Load in each service point from a central location

Integrated Hospital Information System

Patient Flow Management - Load Distribution

Location: ALL LOCATIONS

Report View    Graphical View

Location	acly	Waiting time	Visited
ALL LOCATIONS			
CONTACT LENS CLINIC	15		
CORNEA CLINIC	15	104	
DISPOSED	15		
DUMMY	15		
FREE THEATRE	15		
GLAUCOMA CLINIC	15		
IOL CLINIC	15	244	
IOL CLINIC	1	4	
LOW VISION CLINIC	0	15	
MAIN THEATRE	0	15	
MEDICAL RECORD DEP.	0	15	
NEURO CLINIC	5	15	20
ORBIT CLINIC	13	15	52
OT MODULE	0	15	
PAEDIATRIC	95	15	380
PHYSIOTHERAPY	0	15	
RECEPTION	0	15	
RETINA CLINIC	23	15	92
THEATRE A	0	15	
THEATRE B	0	15	

NUM      18:02

Integrated Hospital Information System

Patient Flow Management - Change Location

Set Location: CORNEA CLINIC      MR. No: P1665556      MR. No's Waiting      MR. No's Visited      ALL

Mno	Name	Regist.	In Time	Out Time	To Location	Age	S	City
P1497069	ABDUL KANI	06:45 AM				42	M	KALLAKURICHI
P712451	ABDUL RASHEED E	07:29 AM				37	M	PALGHAT
P1665556	AKILAR	07:00 AM	05:57 PM			8	F	THIRUVKOL
P1097284	ALAGAMMAL R	09:50 AM				40	F	RAMANAT
P1675332	ALAGU K	10:07 AM				39	F	SIVAGANGA
P1588458	ASHOK KUMAR A	12:35 PM				35	M	SIVAGANGA
P1655989	CHANDY MATHEW	07:12 AM				52	M	PATHANA
P1620726	FATHU NISHA S	10:31 AM				60	F	RAMANAT
P1520812	GURUVAMMAL K	10:27 AM				56	F	DINDIGUL
P406473	JOTHI PETER	10:53 AM	05:56 PM			72	M	RAJAPALA
P1352971	KULBEEK	07:32 AM				31	M	KOLLAM
P1553951	MURUGESAN	07:17 AM				19	M	TRICHUR
P1472783	PADMA	06:54 AM				27	F	TRIVANPUR
P1653398	PADMA J	07:49 AM				34	F	PRAKASAM
P1668909	PRABIN GOPAL	07:01 AM				22	M	TRICHUR
P1668913	PRASANATH R	04:10 PM				7	M	TRICHUR
P1660131	RAMASAMY K	11:11 AM				60	M	KARUR
P1558551	SABHA PATHINAM K	10:28 AM				13	M	RAMANAT
P1318084	SAJJAD A	07:54 AM				28	M	KOLLAM
P1517344	SARAL KUMAR C T	06:20 AM				23	M	KOLLAM

NUM      18:01

Monitors Patient Load within a service point



## Medical record tracking

This module keeps track of the location of medical records when it is out of its place. It keeps track, as the patient moves around the hospital during their stay and also keeps track when they are issued to doctors or students for research purposes



# Medical record tracking

Integrated Hospital Information System

Medical Record Tracking - Locate MR

Mr. No: P1660666 Patient Name: MALAR

Location:

Recipient Name: ABEL DR.

Designation: Dr.

Reason: STUDY

Issued By: PRIYADEVI

Issued Date: 15/07/2002

CAPS NUM 16:25 7/02

Start Microsoft Word - Docu... SQL Server Query Anal... Project1 - Microsoft Vis... Integrated Hospital... 16:25

→ *Locate the Medical record*

Integrated Hospital Information System

Recipient	Mrno	Issued Date	Exp Return Date
ABEL DR.	P1660666	15/07/2002	20/07/2002
ARAVIND DR.	P1660252		25/07/2002
KRISHNA DAS DR.	P1660222		17/07/2002
	P1660667		

→ *List the distribution of Medical record*



## Referral Cases Management

This module helps to handle the patients referred by various source. It helps to communicate to the referring body about the treatment given or condition of the patient. It promotes a better relationship. A database of referring persons is also built up.



# Referral Cases Management

Form3

Date : 15/07/2002 Referral cases : Execute

sl no	Clinic	Referred Doctor	Mr No	Patient Name
1	Retina	NARAYANAN	P1682714	MOHAMED M.
2	Retina	SAKTHIVEL	P1682726	VADUVAMMAL S.

List the referred cases on a given date

Form3

M. R. No. P1682714 Visit Date 12/07/2002 Doctor Name JACOB MATHEW DR.

Patient Name MOHAMED M.  
Door No PALLIVASAL STREET  
Street/Locality  
Town / City PERAIYUR

Reference No 1174/JAN/2002  
Reference Date 13/06/2002  
Referral Doctor NARAYANAN  
Mode of Delivery

To DR.SAKTHIVEL

We have examined Mr./Ms. MOHAMED M.  
Referred by you.

Diagnosis Details  
THE PATIENT HAS MATURE CATARACT

Treatment Details  
WE HAVE ADVISED FOR PHACO SURGERY AFTER 2 WEEKS

Follow - up

SAVE EDIT PRINT CANCEL EXIT

Preparation of report for the selected patient



# Reports (samples)



# Reports

- **Daily**
  - Patient registers
  - Cash collection and revenue reports
  - Surgery Schedule
  - Bed Occupancy
  - Statistics
- **Periodicals**
  - Age/Sex
  - Region
  - Disease/Treatment



# Cataract Surgery Cases Reports:

- **Quality Indicators**
- **Pre-Operative Conditions**
- **Complications (intra and post op)**
- **Visual Outcome**
- **Cataract Surgery Rates**





# Acceptance Rate of Surgery

-Patients Advised during Jan to June 2001

MONTH	Nos. Advised	Patients Operated within a duration of					Acceptance Rate %
		7 Days	8-30 Days	31-90 Days	>90 Days	Total	
January	1,916	1,251	101	55	83	1,490	77.8
February	1,962	1,324	104	38	74	1,540	78.5
March	2,217	1,534	97	64	57	1,752	79.0
April	2,476	1,730	129	72	41	1,972	79.6
May	2,686	1,860	137	27	54	2,078	77.4
June	2,870	1,905	79	0	74	2,058	71.7
Total	14,127	9,604	647	256	383	10,890	77.3

•Source of sample Data: Aravind Paying, Madurai



# Pre-OP Lens Status in Operated Eye

AEH-Paying, Madurai

PreOperative Lens Status in Operated Eye

*for the Period 01/11/2002 to 05/11/2002*

DESCRIPTION	NOS	%
IMMATURE	31	67.4
MATURE	7	15.2
NUCLEAR	2	4.3
PSCC	6	13.0
<b>Grand Total:</b>	<b>46</b>	<b>100.0</b>



# Pre-OP Visual Acuity in Operated Eye

Group	V/A Description	Nos	%	<u>Cum. %</u>
1	<3/60	14,203	54.1	54.1
2	$\geq 3/60$ -<6/60	8,443	32.2	86.3
3	$\geq 6/60$ -<6/18	3,129	11.9	98.2
4	$\geq 6/18$ -<6/12	421	1.6	99.8
5	$\geq 6/12$ -6/6	55	0.2	100.0
<b>Grand Total:</b>		<b>26,251</b>	100.0	



## Pre-OP Visual Acuity in Best Eye

Group	V/A Description	Nos	%	Cum. %
1	<3/60	4,405	16.8	16.8
2	$\geq 3/60$ -<6/60	7,488	28.5	45.3
3	$\geq 6/60$ -<6/18	6,418	24.4	69.7
4	$\geq 6/18$ -<6/12	6,160	23.5	93.2
5	$\geq 6/12$ -6/6	1,783	6.8	100.0
<b>Grand Total:</b>		<b>26,254</b>	<b>100.0</b>	



# Surgeons' Performance report

<u>DOCTOR NAME</u>	<u>Phaco</u> IOL	<u>SICS</u> IOL	<u>ECCE</u> IOL	<u>Other</u> Cat.Proc	<u>GLAU.</u>	<u>RETIN</u>	<u>CORNEA</u>	<u>ORBIT</u>	<u>SQUINT</u>	<u>OTHER</u>	<u>LASER</u>	<u>TOTAL</u>
SRINIVASAN M.DR.	62	0	7	0	0	0	18	3	0	1	0	91
USHA DR.	53	1	3	2	0	0	0	34	0	6	0	99
JACOB MATHEW DR.	130	8	22	4	0	0	0	0	0	0	10	174
KIM DR.	0	0	0	1	0	46	1	0	0	7	2	57
CHANDRAKANTH DR.	0	0	0	0	0	0	0	0	0	0	10	10
SUBBURAM DR.	0	0	0	0	0	0	0	1	0	4	0	5
SANGAMITHRA	0	0	0	0	0	0	4	1	0	0	0	5
VENKATESH DR.	100	11	6	3	0	0	0	0	0	0	2	122
ARAVIND DR.	19	1	5	0	0	0	0	0	0	0	0	25
SANJAY SHARMA DR.	0	0	0	0	0	0	0	0	0	1	0	1
ABEL DR.	0	0	1	0	0	0	0	0	0	0	0	1
KRISHNA DAS DR.	66	7	11	3	65	0	0	4	0	4	1	161
T.V KRISHNAN DR.	14	0	1	0	0	0	0	0	0	0	0	15
RAJESH DR.	27	0	4	0	0	0	0	0	0	0	2	33
MURALI DR.	27	0	2	0	0	0	0	0	0	0	0	29
	<b>498</b>	<b>28</b>	<b>62</b>	<b>13</b>	<b>65</b>	<b>46</b>	<b>23</b>	<b>43</b>	<b>0</b>	<b>23</b>	<b>27</b>	<b>828</b>

•Source of sample Data: Aravind Paying, Madurai



# Complication Reports:

- **Detailed List:**

- **Complication Rate** (% of complication on total surgery)

- **Using scores:**

- **OCTET Score** (Oxford Cataract Treatment Evaluation Team)

- $$\text{Score} = \frac{\sum (\text{No. of Occurrences} \times \text{severity score})}{\text{No. of surgeries conducted}} \times 100$$



# Complication Rate - Surgeon A

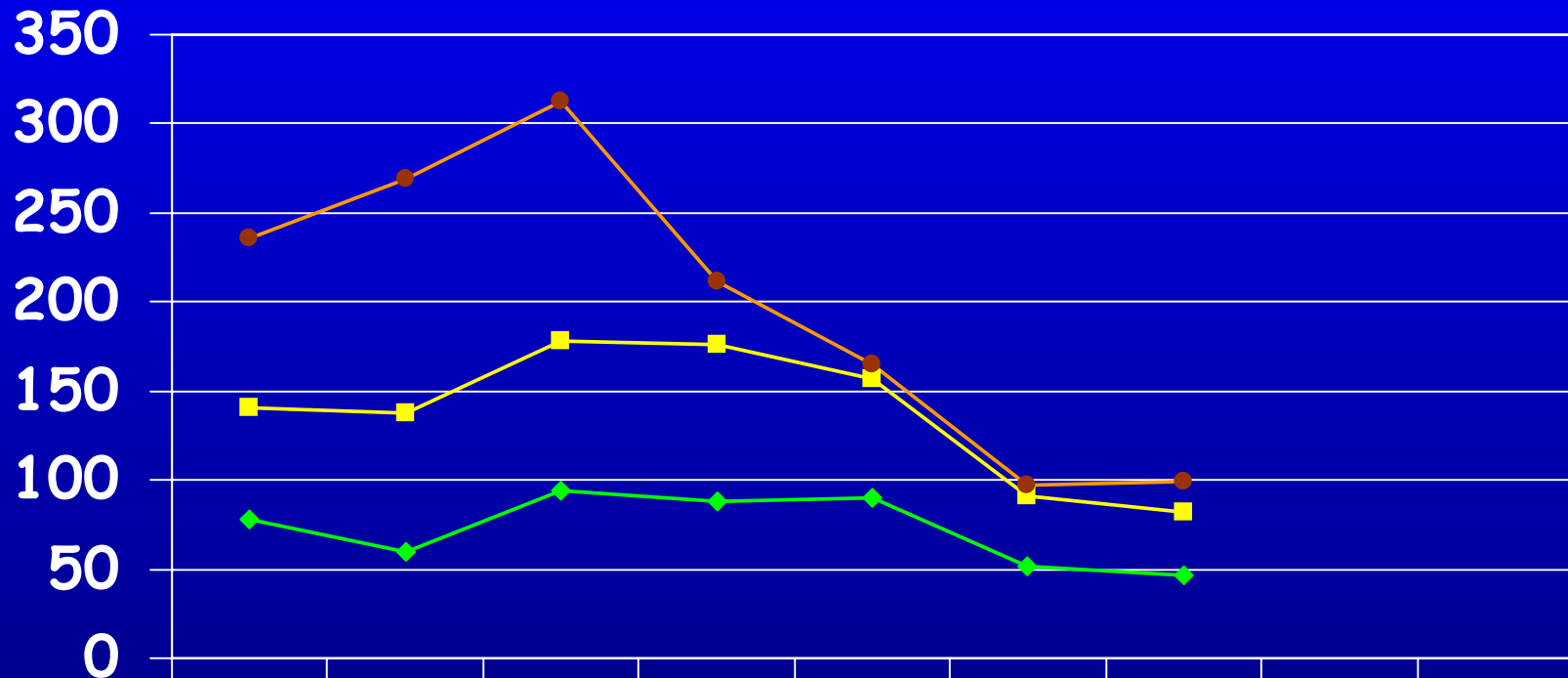
Description	Surgeon (N=108)		Hospital (N=1682)	
	Nos	%	Nos.	%
<b>INTRA-OPERATIVE COMPLICATIONS</b>				
PC RENT WITH VITREOUS DISTURBANCE	3	2.8	71	4.2
PC RENT WITHOUT VITREOUS DISTURBANCE	2	1.9	8	0.5
ZONULAR DIALYSIS WITH VITREOUS DISTR.	1	0.9	19	1.1
FAILURE TO IMPLANT	5	4.6	17	1.0
<b>IMMEDIATE POST-OP COMPLICATIONS</b>				
CORNEA- SK 1+	11	10.2	152	9.0
AC-MILD IRITIS	20	18.5	150	8.9
AC-SHALLOW	1	0.9	13	0.8
AC-VITREOUS	3	2.8	16	1.0

•Surgeon A – Two years experienced surgeon

•Source of sample Data: Aravind-Free Camps Madurai



# Complication Score - Surgeon A



• **Surgeon A** – Two years experienced surgeon

• **Best** – Average score of best 3 surgeons

• Source of sample Data: Aravind-Free Camps Madurai





# Immediate Post-OP VA in Operated Eye (After 2 days / on Discharge)

AEH-FREE, Madurai  
PH V/A @ Discharge in the Operated Eye

*Cataract Patients operated during Jan. to Dec. 2001*

Group	V/A Description	Nos.	%	Cum. %
5	$\geq 6/12 - 6/6$	4,442	18.8	18.8
4	$\geq 6/18 - < 6/12$	14,688	62.3	81.1
3	$\geq 6/60 - < 6/18$	3,884	16.5	97.5
2	$\geq 3/60 - < 6/60$	383	1.6	99.2
1	$< 3/60$	198	0.8	100.0
<b>Grand Total:</b>		<b>23,595</b>	100.0	

# Follow-up rate of Operated patients (period: 15 days to 90 Days)

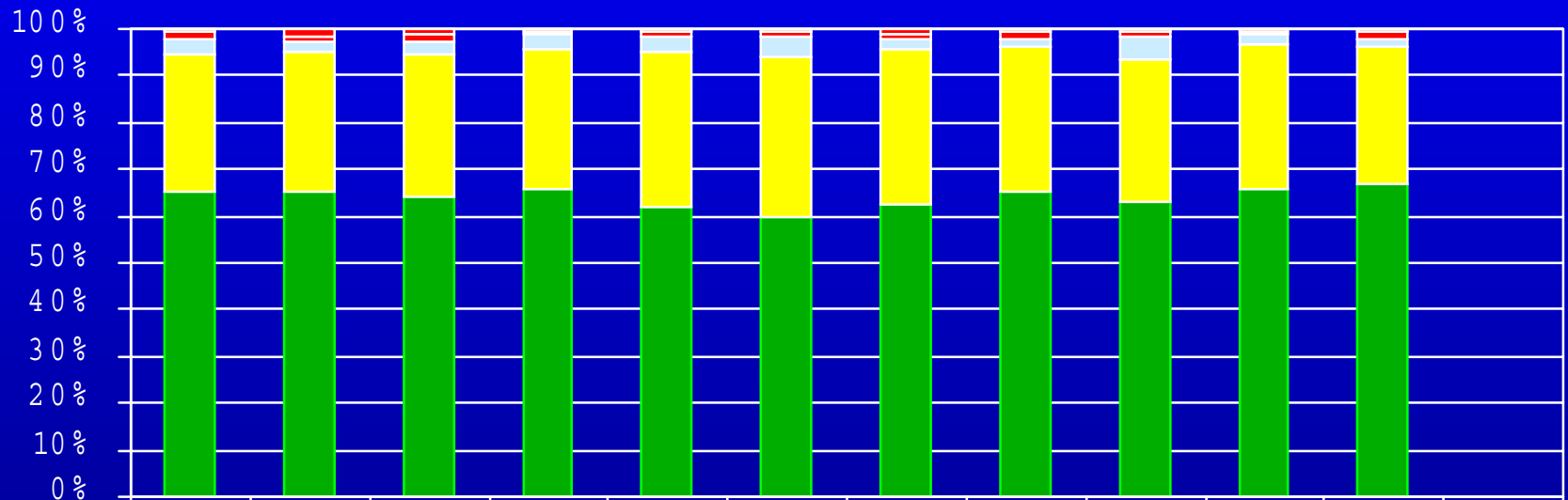
Month	<u>Operated</u>	Followed	<u>Follow UP</u> Rate
January	1,347	1,155	85.75
February	1,406	1,155	82.15
March	1,612	1,322	82.01
April	1,716	1,429	83.28
May	1,972	1,622	82.25
June	1,959	1,597	81.52
<b>Total</b>	<b>10,012</b>	<b>8,280</b>	<b>82.83</b>

•Source of sample Data: Aravind-Paying, Madurai



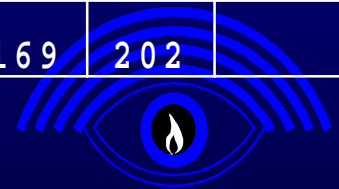
# Follow-UP Visual Acuity

## - Surgeon A



	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	April
--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-------

■ < 3/60	2	4	3	2	1	2	3	2	2	1	2	
■ > 3/60 - 5/60	4	3	4	2	4	3	4	5	3	2	4	
■ 6/60 - 6/24	8	6	7	10	8	12	7	4	12	6	6	
■ 6/18 - 6/15	75	78	80	92	90	97	102	95	81	78	87	
■ 6/12 - 6/6	167	169	170	202	167	169	192	197	167	169	202	

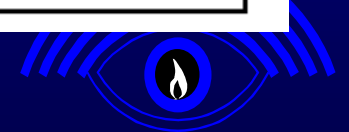


•Source of sample Data: Aravind-Free Camps Coimbatore

# Follow-Up VA in Operated Eye (40 days or later)

AEH-FREE, Madurai  
Best Correct V/A in Operated on Follow-up  
*Cataract Patients Operated during Jan. to Dec 2001*

Group	V/A Description	Nos.	%	<u>Cum. %</u>
5	$\geq 6/12 - 6/6$	16,749	65.9	65.9
4	$\geq 6/18 - < 6/12$	7,503	29.5	95.4
3	$\geq 6/60 - < 6/18$	893	3.5	98.9
2	$\geq 3/60 - < 6/60$	173	0.7	99.6
1	$< 3/60$	102	0.4	100.0
<b>Grand Total:</b>		<b>25,420</b>	<b>100.0</b>	



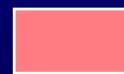
# Pre-OP Vs Follow-UP VA in Operated Eye

V/A on Follow\_UP

Pre-OP V/A	Missing	<3/60	3/60-5/60	6/60-6/36	6/24-6/18	6/12-6/6	Total
Missing	0	0	0	0	0	0	0
1 <3/60	288	81	113	534	4,278	8,909	14,203
2 3/60-5/60	224	15	43	246	2,425	5,490	8,443
3 6/60-6/36	164	6	17	105	723	2,114	3,129
4 6/24-6/18	129	0	0	7	73	212	421
5 6/12-6/6	26	0	0	1	4	24	55
Total	831	102	173	893	7,503	16,749	26,251



No Change



Got worse



# List of cases for the selected Visual Acuity

List Patients

Select a Surgeon: ALL

List Cases with Immediate PoP V/A <= 6/18

Process

Sl#	MR No	Patient Name	Admn.Date	PreOP VA	Eye	Surgery Cod	VA @Disch	FuP Date	FuP V/A	
1	P1599317	SANBHAKA VALLI E.	01/11/2001	HM	LE	13.71P	6/18P			
2	P1599384	BOOMADEVI A.	02/11/2001	HM	LE	13.71P	6/18P			
3	P1600203	SUBBA RAYAL REDDY P.	05/11/2001	6/36	RE	13.75P	6/18P			
4	P1599749	MEHAR BANU I.	02/11/2001	HM	LE	13.71P	6/24			
5	P1600215	KRISHNA MOORTHY	05/11/2001	6/24	RE	13.75P	6/18P			
6	P1600316	GANAPATHIAMMAL	05/11/2001	4/60	LE	13.75P	6/18P			

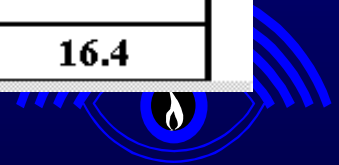


# Sight Restoration Rate

- Patients operated in 2001

Month	Operated	PreOp_Blind	PosOp_Blind	SRR
January	2,254	377	10	<b>16.3</b>
February	2,930	525	9	<b>17.6</b>
March	3,324	581	17	<b>17.0</b>
April	2,135	413	9	<b>18.9</b>
May	1,314	257	5	<b>19.2</b>
June	2,132	398	7	<b>18.3</b>
July	2,829	389	5	<b>13.6</b>
August	3,436	485	6	<b>13.9</b>
September	2,411	383	7	<b>15.6</b>
October	2,121	340	9	<b>15.6</b>
November	1,196	229	2	<b>19.0</b>
December	172	28	2	<b>15.1</b>
<b>Grand Total:</b>	<b>26,254</b>	<b>4,405</b>	<b>88</b>	<b>16.4</b>

•Source of sample Data: Aravind-Free Camps Madurai



# Cataract Surgery Rate – Year 2001

District Name	Total			Aravind - Madurai		
	Population	Cat.Sur.Perf	CSR	Cat. Surgeries	AEH-CSR	%
CUDDALORE	2,280,530	13,942	6,113	3,037	1,332	21.8
DHARMAPURI	2,833,252	10,008	3,532	3,582	1,264	35.8
DINDIGUL	1,918,960	11,258	5,867	8,273	4,311	73.5
KARUR	933,791	6,015	6,441	1,524	1,632	25.3
MADURAI	2,562,279	19,017	7,422	10,970	4,281	57.7
NAGAPPATTINAM	1,487,055	6,143	4,131	2,086	1,403	34.0
NAMAKKAL	1,495,661	7,423	4,963	3,739	2,500	50.4
PUDUKKOTTAI	1,452,269	3,354	2,309	2,837	1,953	84.6
RAMANATHAPURAM	1,183,321	5,882	4,971	3,089	2,610	52.5
SALEM	2,992,754	13,959	4,664	8,171	2,730	58.5
SIVAGANGAI	1,150,753	8,099	7,038	3,222	2,800	39.8
TANJORE	2,205,375	13,454	6,101	6,994	3,171	52.0
TIRUCHIRAPALLI	1,565,743	18,162	11,600	3,260	2,082	17.9
TIRUVARUR	1,165,213	4,857	4,168	1,679	1,441	34.6
VILLUPPURAM	2,943,917	13,977	4,748	1,888	641	13.5
VIRUDHUNAGAR	1,751,548	10,635	6,072	4,666	2,664	43.9

•Source of sample Data: Aravind-Paying, Madurai



# Cataract Surgery Evaluation

- **Assess the outcome of operated patients**
- **Evaluate individual surgeons outcome compared with hospital rate and benchmark**
- **Cataract surgical rates in comparison with the service population**

