



POST PROGRAMME REPORT
ON
“National Workshop on IT Application in Eye Care”
By
VISION 2020-The Right to Sight-India
In Partnership with
Aravind Eye Care System, Madurai and Sankara Nethralaya, Chennai

VISION 2020: The Right to Sight-India, New Delhi
www.vision2020india.org

Preface

Information Technology has become an essential element in the modern life of any business enterprise and health care is no exception. The Eye Care is an important organ of Health Care that has acquired high prominence with respect to Information Technology because of its inherent strong outreach element and ever increasing medical tourism. However, the acceptance and usage of Information Technology in the Eye Care Sector both in Government and the NGO Sector - the greatest contributor has been negligible. Though there are successful models available of IT usages in Eye Care, they are sporadic and limited. But what impresses one in the Eye Care sector is high level of receptivity of NGO sector to new ideas and innovative approaches.

With full realization of need and importance of IT in Eye Care particularly under the influence of VISION 2020: The Right To Sight movement, we in VISION 2020 India organization have taken lead of inviting all the important stakeholders and NGO members for a Three day National Workshop on IT Application in Eye Care in Madurai . Aptly, the program was in the safe hands of our strong partners Aravind Eye Care and Sankara Nethralaya who did it a joint endeavor with us. More significantly the programme got impetus with good and timely patronage of the Ministry of Information Technology, New Delhi. It was real breakthrough brought about with 3 day Workshop on IT for about 75 partners across the country. We place on record our high appreciation for our partners' and delegates and all other contributors for wonderful beginning. I hope it would make a difference in the Eye Care provision in the country the days to come

*P.K.M. SWAMY
National Executive Director
VISION 2020: The Right to Sight – India*

Introduction

Information Technology is now an integral part of our daily lives. In the field of eye care it has transitioned from being merely automating routine administrative tasks to becoming an important tool for management and an integral part of patient care. Till recently the use of computers and Information Technology was considered a luxury or a non-necessity. This has completely changed. Those who are already using IT are enjoying greater efficiencies and seeing tremendous benefits in patient care by way of enhanced quality and volumes. This “IT workshop in eye care” is designed to gain knowledge about current trends and status of Information Technology and share experiences of various IT applications in eye care settings. This workshop is for bringing about together people from IT field as well as eye hospitals that have implemented and are using IT in a big way. This workshop has helped the participants to go back with a deeper appreciation of the role of IT in eye care and concrete ideas for implementing IT in their own settings.

Need

To improve the efficiency in a comprehensive way, the IT applications are must in the NGO sector. Hence VISION 2020 has planned to do this national workshop to have process imitated.

Objectives

- To understand some of the key and emerging IT applications and how they can make significant contribution to different aspects in Eye Care
- Get answers to how to implement such applications cost effectively - know about hardware, software and skills requirement
- Know what it takes to set up & manage IT services
- Recognize the consequences or missed opportunities of not exploiting the IT resources

Venue

The Venue for the workshop was at LAICO Auditorium, Aravind Eye Hospital, Madurai

Participants



There were about 70 delegates from all over India and from neighbouring countries like Nepal and Bangladesh participated in the workshop. Besides these, resource persons from Aravind Eye Hospital, Madurai, Sankara Nethralaya, Chennai, Tata Consultancy Services, Bangalore, AxSys Health Care, Hyderabad had participated. The Workshop was inaugurated by Mr. Ramraj founder of Sify.com, Dr. Badrinath Chairman, Dr. Namperumalsamy Chairman AECS, Mr. R.D. Thulasiraj President and Mr. P.K.M. Swamy, ED of VISION 2020 India. Mrs. Aruna Sundararajan, IAS, Joint Secretary, Ministry of Information Technology, Government of India, New Delhi was the Chief Guest at valedictory function on 5th August.

Methodology

The methodologies followed to achieve the said objectives were;

- Presentations on contentious issues related to the theme
- Practical demonstration & Hands on work at the stalls arranged outside
- Group work and group presentations
- Question and Answer session

Proceedings

Day-1, 3rd August 2006, IT Basics

At the outset Mr. RD Thulasiraj, Executive Director, LAICO welcomed the participants and appreciated their presence for the three days National workshop on “IT application in Eye Care”. Later on Mr. Ganesh Babu, IT Manager, LAICO gave the overview of the three days proceedings. The **first session** was devoted on *Current Hardware Options*. Mr. S. Ramanarayanan from CMC, Chennai had presented his paper on “Current PC, Hardware options, Server & Desktops, Thin clients, PDA (with considerations for purchase)”. It was very much informative and well presented. The **second session** was devoted for the theme “*setting up a network*”. In this session Mr. L. Ashok from Futurenet presented on LAN, WAN, Mr. S Ebinson & Mr. PP Gurural from Blue Star presented on WiFi. VPN, Mr. L Balaji from Gemini presented on Firewall & security aspects and Mr. S. Rajkumar from Gemini presented on useful devices such as RFID/ Smart Card Solutions.

In the post lunch session (**third session**) the theme was *How to select software*. Mr. L Ashok from Futurenet, Mr. Ganesh Babu from LAICO and Mr. MK Manavalan from Sankara Nethralaya presented their papers on different aspects on how to select a software for own setting. In the **fourth session** Mr. PKM Swamy, ED, VISION 2020-India, had presented on “VISION 2020-India initiatives and Dr. Sudhir Rachapalli from Sankara Nethralaya presented a paper on “how to explore WWW and the services it offers to Eye care”.

At the end of the first day sessions there was open panel discussion on the themes presented during the day. Mr. Thulasiraj, Mr. PKM Swamy, Dr. Sudhir, Mr. L Ashok and MK Manavalan were on the dais. Quarries of the participants were answered by the resource persons.

Day-2, 4th August 2006, Hospital Management System (HMS)
Inauguration



The formal inauguration ceremony was took place in the **first session** of second day. Mr. Ramraj, Founder, Sify. com was the Chief Guest on the occasion. Mr. Swamy. Dr. Badrinath, Dr. Namperumalsamy and Mr. Ramraj were on the dais. Dr. SS Badrinath, Chairman, Sankara Nethralaya, Chennai gave an overview of Hospital Management System. In his presentation he ornately described what is HMS? Who are its beneficiaries? What the options available for HMS and aspects of HMS. The presentation was very much informative and well appreciated by all participants.

In the **second session** Mr. Sajin Antony from Muziris presented the paper o “requirement of HMS software and its Hardware”. Later on Mr. T Rathinam presented his paper on “Standards (HL 7, NABL etc), Scalability & Economics of HMS”. MS. Sujatha Rajesh from TCS spoke about HMS module & its integration, interfaces, data Safety, Privacy Security in HMS. Mr. MK Manavalan from Sankara Nethralaya briefed the change management, Insurance, Legal & regulation aspects. At the end of the session Mr. Ganesh Babu from LAICO gave details on how to create & maintain MIS and generate reports.

In the **third session** (after lunch) all participants were divided into four groups. Each group visited the stalls displayed by different IT companies on the Gallery. **TCS, AxSys, Muziris** and **AECS** gave separate demonstration to each group in four different classrooms respectively. Mr. Uma Maheswaran and Ms. Sujatha Rajesh from TCS, Mr. Sajin P Antony from Muziris, Mr. Mohan from AxSys and Mr. Karthik from AECS briefed the groups separately on their visit to their stalls.

In the **fourth session** representative from Gomabai Nethralaya, Mr. Anand Sudan from Sadaguru Netra Chikitsalaya, Mr. NK Mandlik from Shri Ganapathy Nethralaya had presented their case study on HMS implementation respectively. At the end there were panel discussion and open question and Answer session.

Day-3/ 5th August 2006 (EMR, Tele Ophth. & Specific IT application)

The theme of the first session was *Electronic Medical Records*. Dr. Sudhir Rachapalli from Sankara Nethralaya gave the introduction on Electronic Medical Records (EMR) its relevance, benefits and options available for this. Mr. T Rathinam from Sankara Nethralaya spoke about the requirements of EMR software & it's Hardware. Dr. Anusuya from TCS described the EMR Modules and its integration (within module) & interfaces (within medical equipments). Mr. Mohan from AxSys spoke about the legal implications, insurance related requirements safety and security where as Mr. Ramma from Matrix view described the important of standards & current standards. Mr. MK Manavalam from Sankara Nethralaya focused on the issues & challenges in implementing EMR.

The theme for the second session was Tele-ophthalmology. Dr. Badrinath gave an overview of Tele-ophthalmology in India. Dr. Kim from AECS described the tele-ophthalmology for eye care delivery (online, offline & hybrid applications).

The **third session** (after lunch) was the demonstration session. Participants were divided into four groups. TCS, AxSys, gave demonstration to each group on EMR where as AECS and Sankara Nethralaya gave demonstration on Tele-Ophthalmology to each group separately in different rooms.

In the fourth session the specific application of IT in eye care were discussed. Ms. Lakshmi and Mr. Thiagaraj from Sankara Nethralaya presented their paper on “ Medical Transcription made easy” and Document Management System (Image based)’ respectively. Mr. Murali from SRA associates gave presentation on E-Learning (Virtual university). At the end Mr. Ganesh Babu made his presentation on “GIS/ PDA applications”.

(All presentations of the speakers were given in CD attached separately with this report)

Valediction



The Valedictory function took place in the same auditorium from 5:00 Pm to 6:00 Pm. Mrs. Aruna Sundararajan, IAS, Joint Secretary, Ministry of Information Technology, Government of India, New Delhi was the Chief Guest on the occasion. On her valedictory address, she stressed the need for using IT in a big way and MIT is for supporting in Rural areas under Common Service Centre Program of Government of India.

Outcome

This workshop helped the participants in deeper understanding and appreciation of the role of IT in eye cares and draw definite plans for implementing IT in their own settings.

(Please find *the feedback of participants as annexure*)

Annexure-1

Participants Details

| Sno. | Name | Designation | Organisation | Place |
|------|----------------------|------------------------------------|--|----------------|
| 1. | Amerandra Kaur | | Serango Christian Hospital | Orissa |
| 2. | Ajay Kumar | Software Executive | | |
| 3. | Anand Sudhan | Consultant | Sadguru Netra Chikitsalaya | Madhya Pradesh |
| 4. | Asadul Islam | Administrative Assistant | ORBIS International | Bangladesh |
| 5. | Bahauddin Malik | Director | BNSB Eye Hospital | Bangladesh |
| 6. | Bhagirath Baniya | Administrator | Tilganga Eye Centre | Nepal |
| 7. | Bharat Chawla | P.R.O | Sewa Sadan Eye Hospital | Madhya Pradesh |
| 8. | Biswajit Dehury | IT & System Executive | Indira Gandhi Eye Hospital & Research Centre | Uttar Pradesh |
| 9. | Biswanath Sahoo | Administrator | Mahatma Gandhi Eye Hospital (ACM) | Orissa |
| 10. | C. Manicka Doss | Finance & Administrative Officer | Good Samaritan Rural Development Hospital | Tamil Nadu |
| 11. | Deepika | IT Person | Srishti Software Applications Pvt. Ltd. | Karnataka |
| 12. | Dhananjay Dhumal | IT Person | H.V.Desai Eye Hospital | Pune |
| 13. | Dr. Vaishali Jadhav | Junior Consultant (Ophthalmology) | Tulsi Eye Hospital | Maharashtra |
| 14. | Dr.Vasudhendra N | MD, DNB | M M Joshi Eye Institute | Karnataka |
| 15. | Fr. George Elavunkal | Hospital Director | Kutch Vikas Eye Hospital | Gujarat |
| 16. | Ghanshyam Singh | Assistant Director - Admin | L.V Prasad Eye Institute | Andhra Pradesh |
| 17. | ILANGO | SOFTWARE ENGINEER | Srishti Software Applications Pvt. Ltd. | Karnataka |
| 18. | Iqbal | | Sadguru Seva Sangh Trust | Madhya Pradesh |
| 19. | Issac Jevastine | | Christian Mission Hospital | Tamil Nadu |
| 20. | J.Jeyapaul | Executive | A.G. Eye Hospital | Tamil Nadu |
| 21. | JALPA VASHI | CONSULTANT | Bangalore West Lions Eye hospital | Karnataka |

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|-----|------------------------|---------------------------------------|--|----------------|
| 22. | Jitendra Shimpi | Accts and Admin Executive | Tulsi Eye Hospital | Maharashtra |
| 23. | Jyothi Balaji | Manager | Sankara Nethralaya | Chennai |
| 24. | Kaushik Dutta | IT Professional | Siliguri Greater Lions Eye Hospital | West Bengal |
| 25. | khirod kumar Choudhury | EDP In Charge | J.P.M Rotary Eye Hospital & Research Institute | Orissa |
| 26. | Koushik Datta | | Techno India Eye Care | |
| 27. | Laxamana Rao Y | Senior Ophthalmologist | Rotary Netra Eye Hospital | Andhra Pradesh |
| 28. | MALLIPATNA C ASHWIN | CONSULTANT | Narayana Nethralaya | Karnataka |
| 29. | Manish Kumar | Administrator | Rotary Service Centre | West Bengal |
| 30. | Md. Habibur Rahman | Manager-Administration | Mazharul Haque BNSB Eye Hospital | Bangladesh |
| 31. | Nandkumar Mandlik | IT Consultant | Shri Ganapati Nethralaya | Maharashtra |
| 32. | Narayanamurthy.V | Assistant Adminstartor | B.W.Lions Superspeciality Eye Hospital | Karnataka |
| 33. | P. Vinod Kumar | Ophthalmologist | M. Ram Reddy Lions Eye Hospital | Andhra Pradesh |
| 34. | Pankaj Kumar Goswami | EDP Incharge | Sri Sankaradeva Nethralaya | Assam |
| 35. | Peter Premanand | Officer Incharge | G.M.Eye Hospital | Tamil Nadu |
| 36. | Prasana Venkatesan | Admin Officer | Sankara Eye Hospital | Tamil Nadu |
| 37. | Prashant Mishra | Program Executive | ORBIS International | |
| 38. | Prem Kumar.R | | Aravind Eye Hospital, Madurai | Tamil Nadu |
| 39. | Rahul Kumar | Officer EDP | Dr.Shroffs Charity Eye Hospital | New Delhi |
| 40. | RAJESH BABU.B | CONSULTANT | Narayana Nethralaya | Karnataka |
| 41. | Rajesh Khedia | Member, Managing Committee | Rotary Service Centre | West Bengal |
| 42. | Rakesh Patil | Computer System Admin | Mahatme Eye Bank & Eye Hospital | Maharashtra |
| 43. | Ramesh Babu | Assistant Administrator,Free Hospital | Aravind Eye Care System | Madurai |
| 44. | Ranjan Acharya | Asstt. Manager (Patients care) | Netra Niramay Niketan | |

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|-----|-------------------------|----------------------------|--|--------------------|
| 45. | Ravi Krishna.K | Consultant Ophthalmologist | Sri Shaaradadevi Hitech eye hospital | Karnataka |
| 46. | Rupchand De | Hard ware Engineer | Netra Niramay Niketan | |
| 47. | Sampath | | Sankara Nethralaya | Tamil Nadu |
| 48. | Sanjeeb Banerjee | Medical Officer | Netra Niramay Niketan | West Bengal |
| 49. | Sanjoy Ghosh | Treasurer | Lions Club of Burdwan | West Bengal |
| 50. | Sadique Batcha.A | Field Co-ordinator | Kavrei Comprehensive Rural Development Society | Chennai |
| 51. | Sarwar Jahan | IT Specialist | Sajida Hospital | Bangladesh |
| 52. | Shah Fakhrul Islam Alok | IT Specialist | BNSB Eye Hospital | Bangladesh |
| 53. | Shahid -Uz- Zaman | System Administrator | Mymensingh BNSB - Eye Hospital | Bangladesh |
| 54. | Shantha | IT In-charge | Rotary Netra Eye Hospital | Andhra Pradesh |
| 55. | Shyam.K.Sudhakar | Administrator | CSI Zion Eye Hospital | Tamil Nadu |
| 56. | SRIDHAR.G.L | Chief Executive - ADMIN | | |
| 57. | Stephen Chellakan.R | | Bejan Singh Eye Hospital | Tamil Nadu |
| 58. | Sukumar | Manager | Velemegna Good News Hospital | Karnataka |
| 59. | Sunil Kumar Gupta | EDP Manager | Shri Sadguru Seva Sangh Trust | Madhya Pradesh |
| 60. | Suryanarayana Raju.R | Chief Ophthalmic Surgeon | Sankar Foundation | Arunachala Pradesh |
| 61. | T.A. Senthilnathan | Chief Medical Officer | Good Samaritan Rural Development Hospital | Tamil Nadu |
| 62. | Veera Raghava | Administrative Officer | Aravinda Lasek Eye Hospital | Andhra Pradesh |
| 63. | Vikas Mahatme | Director | Mahatme eye bank & eye hospital | Maharashtra |
| 64. | Vishwanath | System Admin | | |
| 65. | Vivek.R.Ram | Coordinator | Service Civil International - India | Tamil Nadu |
| 66. | Yousuf Arafath | Assistant Administrator | L.V Prasad Eye Institute | Andhra Pradesh |

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| 67. | Yuddha Dhoj Sapkota | Programme Coordinator | Nepal Nertra Jyoti Sangh | Nepal |
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Annexure-II

Programme Schedule - 03-Aug-2006

Day 1

| Sno. | Resource Organisation | Speaker | Description | Duration |
|---|--|---------------------------------|---|---------------------|
| 1. | AECS/SN/Vision 2020 | Mr.R.D.Thulasiraj / Vision 2020 | Prayer song & Welcome address | 9.00 to 9.30 AM |
| 2. | CMC,Chennai | Mr.S. Ramnarayanan | Current PC, Hardware options, Server & Desktops, Thin clients, PDA (with Considerations for Purchase) | 9.30 to 10.30 AM |
| Tea Break (Stall Visits) 10.30 to 11.00AM | | | | |
| 3. | Futurenet Technologies, India Pvt Ltd, Chennai | Mr.Ashok | Networking - LAN, WAN, | 11.00 to 11.30 AM |
| 4. | Blue Star,Chennai | Mr.Ebinson & Mr.Gururaj | Networking - WiFi, VPN | 11.30 to 11.50 AM |
| 5. | Gemini Communications Ltd, Chennai | Mr.Balaji | Networking - Firewall & Security aspects | 11.50 to 12.10 PM |
| 6. | Gemini Communications Ltd, Chennai | Mr.Ramkumar | Useful Devices (RFID / Smart Card solutions) | 12.10 to 12.30 Noon |
| Lunch Break (Stall visits) 12.30 to 1.30 PM | | | | |
| 7. | Futurenet Technologies, India Pvt Ltd, Chennai | Mr.Ashok | Selecting a OS Software, Different Storage options (Linstore etc) & Backup options | 1.30 to 2.20 PM |
| 8. | Aravind Eye Care System | Mr.Ganesh Babu | Application software - how to start with, to do inhouse or outsource? | 2.20 to 2.40 PM |
| 9. | sankara Nethralaya,chennai | Mr.MK Manavalan | Back office Applications :- Advanced Email facilities(webmail with webdisk, | 2.40 to 3.00 PM |

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| | | | /Punch Card applications, bio Sensors & Others (messaging & Voice Response systems) | |
| Tea Break (Stall Visits) 3.00 to 3.30 PM | | | | |
| 10. | Sankara Nethralaya, Chennai | Dr.Sudhir Rachapalli | Exploring the WWW and the services it offers to Eye Care | 3.30 to 4.00 PM |
| 11. | Vision 2020 | Mr.P.K.M. Swamy | Vision 2020 India Movement | 4.00 to 4.30 PM |
| 12. | Panel discussion | Mr.R.D.Thulasiraj, Dr.Sudhir Rachapalli / Mr.Ashok / Mr.Bala | Panel Discussion | 4.30 to 5.00 PM |

Programme Schedule - 04-Aug-2006

Day 2

| Sno. | Resource Organisation | Speaker | Description | Duration |
|---|-----------------------------|---|---|-------------------|
| 1. | AECS/SN/Vision 2020 | Mr.P.K.M Swamy from Vision 2020 (Welcome), Keynote Speakers from ISRO, Dr. S.S. Badrinath & Dr. P Namperumalswamy | Inaugural session: Prayer song & Welcome address | 9.00 to 10.00 AM |
| Tea Break (Stall Visits) 10.00 to 10.30AM | | | | |
| 2. | Sankara Nethralaya, Chennai | Dr.S.S. Badrinath/Mr.T. Rathinam | Intro: What is HMS? Who are its beneficiaries? What are the options available for HMS | 10.30 to 10.45 AM |
| 3. | Muziris, Cochin | Mr.Sajin P. Antony | Requirements of HMS software & its Hardware | 10.45 to 11.00 AM |
| 4. | Sankara Nethralaya, Chennai | Mr.M.K Manavalan | Change Management(including LAB) / Insurance, Legal & Regulation htmects | 11.00 to 11.15 AM |

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| 5. | Tata Consultancy Service, chennai | Mr.Venkat / Mr.Mani / Ms.Sujatha | HMS Modules & its Integration (within modules) & interfaces (with other softwares), Data Safety, Privacy, Security in HMS | 11.15 to 11.45 AM |
| 6. | Sankara Nethralaya, Chennai | Mr.T. Rathinam/Mr. M.K. Manavalan | Standards (HL 7, NABL etc.), Scalability & Economics | 11.45 to 12.05 PM |
| 7. | Aravind Eye Care System, Madurai | Mr.Ganesh Babu | Reports & MIS | 12.05 to 12.15 PM |
| 8. | AECS/Gomabai Nethralaya/SGN | Mr.Ganesh Babu | Summarize on How to go about? - (Are you ready for HMS? - Process to Implement HMS) | 12.15 to 12.30 PM |
| Lunch Break (Stall visits) 12.30 to 1.30 PM | | | | |
| 9. | TCS / Ax Sys / Muziris / Stalls | Demo @ 3 Class rooms & Stall visits | For 4 groups (A to D) each half an hour | |
| TCS: Mr.Uma Maheshwaran, Ms.Sujatha Rajesh | | | | |
| Muziris: Mr.Sajin.P.Antony | | | | |
| Ax Sys: Mr.Mohan | | | | |
| Stall visits | | | | |
| Tea Break (Stall Visits) 3.30 to 4.00 PM | | | | |
| 10. | Gomabai Nethra | GNRC | Case Study on HMS/EMR Implementation | 4.00 to 4.20 PM |
| 11. | Sadguru Nethra Chikitsalaya | Mr.Anand Sudhan | Case Study on HMS Implementation | 4.20 to 4.35 PM |
| 12. | Shri Ganapathy Netralaya | Mr.N.K.Mandlik | Case Study on HMS Implementation | 4.35 to 4.50 PM |
| 13. | Panel Discussion | Mr.Ganesh, Mr.MK Manavalan, (Gomabai), Muziris, TCS | Open session for QA | 4.50 to 5.15 PM |
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Programme Schedule - 05-Aug-2006

| Sno. | Resource Organisation | Speaker | Description | Duration |
|---|------------------------------------|----------------------|--|-------------------|
| 1. | Sankara Nethralya, Chennai | Dr.Sudhir Rachapalli | Intro: EMR, its relevance, its benefits and options available | 9.00 to 9.10 AM |
| 2. | Sankara Nethralya, Chennai | Mr.T Rathinam | Requirements of EMR software & its Hardware | 9.10 to 9.20 AM |
| 3. | Tata Consultancy Services, Chennai | Dr.Anusuya | EMR Modules & its Integration (within modules) & interfaces (with Medical Equipments / Software) | 9.20 to 9.35 AM |
| 4. | Ax Sys, Hyderabad | Mr.Mohan | Legal Implications, Insurance related requirements, Data Safety & Security | 9.35 to 9.45 AM |
| 5. | MatrixView, Chennai | Mr.SathyaSankar | Standards in EMR (Importants of Standards & Current Standards) | 9.45 to 10.00 AM |
| 6. | Sankara Nethralya, Chennai | Mr.MK Manavalan | "Pitfalls & Peaks in implementing EMR" Issues & Challenges in Implementation :- Training of Medical/Para Medical Persons, Creating Drug Refrence tables, Master Data Collections, Network Through put & Other Technical Issues | 10.00 to 10.15 AM |
| 7. | Panel Discussion | All Presenters | Q & A (When should we go for EMR? Process to Implement EMR) | 10.15 to 10.30 AM |
| Tea Break (Stall Visits) 10.30 to 11.00AM | | | | |
| 8. | Sankara Nethralya, Chennai | Dr.S.S Badrinath | Teleophthalmology in India | 11.00 to 11.15 AM |

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| 9. | AECS | Dr.Kim | TeleOphthalmology for eye care Delivery, (Online , Offline & Hybrid Applications) | 11.15 to 11.40 AM |
| 10. | Sankara Nethralaya,Chennai | Mr.Murali / Dr RRN | Mobile Unit - Primary Care, Screening model | 11.40 to 11.50 AM |
| 11. | Sankara Nethralaya,Chennai | Mr.Murali / Dr RRN | Planning, Implementation, Scalability & Cost & Standards and Barriers (legal, privacy & technology) | 11.50 to 12.20 AM |
| 12. | Panel Discussion | All Presenters | Q & A (How to Go about) | 12.20 to 12.30 PM |
| Lunch Break (Stall visits) 12.35 to 1.30 PM | | | | |
| 13. | TCS / Ax Sys / AECS Teleopthal Team/ SN Teleopthal Team | Demo @ 4 Class rooms | For 4 groups (A to D) (EMR & Teleophthalmology) each half an hour | |
| TCS | | | | |
| Ax Sys | | | | |
| AECS Teleopthal Team/Avantech | | | | |
| SN Teleopthal Team/Prognosis | | | | |
| Tea Break (Stall Visits) 3.30 to 4.00 PM | | | | |
| Specific application Sessions | | | | |
| 14. | Sankara Nethralaya,Chennai | Ms.Lakshmi | Medical Transcription Made easy | 4.00 to 4.15 PM |
| 15. | Sankara Nethralaya,Chennai | Mr.Thomas Thiagarajan | Document Management System (Image based) | 4.15 to 4.35 PM |
| 16. | SRA Associates | SRA Associates (Mr.Murali) | E- Learning (Virtual University) | 4.35 to 4.55 PM |
| 17. | Aravind Eye Care System, Madurai | Mr.Ganesh Babu | GIS (Geographical Information System) / PDA Applications | 4.55 to 5.10 PM |
| 18. | Ministry of Information Technology | Mrs.Aruna Sundararajan - IAS | Valedictory | 5.10 to 5.30 PM |

Annexure –III

Speakers

| Sno. | Speaker | Resource Organisation | Description | Date & Time |
|------|-----------------------|-----------------------|--|---------------------------------|
| 1. | Dr. P Namperumalswamy | AECS/SN/Vision 2020 | Inaugural session: Prayer song & Welcome address | 04/08/2006 9.00 to 10.00 AM |
| 2. | Dr.Anusuya | TCS | EMR Modules & its Integration (within modules) & interfaces (with Medical Equipments / Software) | 05/08/2006 9.20 to 9.35 AM |
| 3. | Dr.KIM | AECS | TeleOphthalmology for eye care Delivery, (Online , Offline & Hybrid Applications) | 05/08/2006 11.15 to 11.40 AM |
| 4. | Mr.Ganesh Babu | AECS | Application Software - How to start with, to do inhouse or outsource? | 03/08/2006 2.20 to 2.40 PM |
| | | | Reports and MIS | 04/08/2006 12.05 to 12.15 AM |
| | | | Summarize on How to go about? - (Are you ready for MIS - Process to Implement HMS) | 04/08/2006 12.15 to 12.30 PM |
| | | | GIS (Geographical Information System) / PDA Applications | 05/08/2006 4.55 to 5.10 PM |
| 4. | Dr.SS Badrinath | SN | Intro: What is HMS? Who are its beneficiaries? What are the options available for HMS | 04/08/2006 10.30 to 10.45 AM |
| | | | Teleophthalmology in India | 05/08/2006 11.00 to 11.15 AM |
| 5. | Dr.Sudhir Rachapalli | SN | Intro: EMR, its relevance, its benefits and options available | 05/08/2006 9.00 to 9.10 AM |
| | | | Exploring the WWW and the services it offers to Eye Care | 03/08/2006 3.30 to 4.00 PM |

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| | | | Panel Discussion | 03/08/2006 4.30 to 5.00 PM |
| 6. | Mr.Anand Sudhan | Sadguru Nethra | Case Study on HMS Implementation | 04/08/2006 4.20 to 4.35 PM |
| 7. | Mr.Ashok | Futurenet | Networking - LAN, WAN, | 03/08/2006 11.00 to 11.30 AM |
| | | | Selecting a OS Software, Different Storage options (Linstore etc) & Backup options | 03/08/2006 1.30 to 2.20 PM |
| | | | Panel Discussion | 03/08/2006 4.30 to 5.00 PM |
| 8. | Mr.Bala | Panel discussion | Panel Discussion | 03/08/2006 4.30 to 5.00 PM |
| 9. | Mr.Balaji | Gemini | Networking - Firewall & Security htmeacts | 03/08/2006 11.50 to 12.10 PM |
| 10. | Mr.Ebinson | Blue Star | Networking - WiFi, VPN | 03/08/2006 11.30 to 11.50 AM |
| 11. | Mr.Gururaj | Blue Star | Networking - WiFi, VPN | 03/08/2006 11.30 to 11.50 AM |
| 12. | Mr.Mani | TCS | HMS Modules & its Integration (within modules) & interfaces (with other softwares), Data Safety, Privacy, Security in HMS | 04/08/2006 11.15 to 11.45 AM |
| 13. | Mr.MK Manavalan | SN | Change Management(including LAB) / Insurance, Legal & Regulation htmeacts | 04/08/2006 11.00 to 11.15 AM |

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|-----|-------------------|---------------------|--|--------------------------------------|
| | | | "Pitfalls & Peaks in implementing EMR" Issues & Challenges in Implementation :- Training of Medical/Para Medical Persons, Creating Drug Reference tables, Master Data Collections, Network Through put & Other Technical Issues | 05/08/2006 10.00 to 10.15 AM |
| | | | Back office Applications :- Advanced Email facilities(webmail with webdisk, /Punch Card applications, bio Sensors & Others (messaging & Voice Response systems) | 03/08/2006 2.40 to 3.00 PM |
| | | | Open session for QA | 04/08/2006 4.50 to 5.15 PM |
| 14. | Mr.Mohan | Ax Sys | Legal Implications, Insurance related requirements, Data Safety & Security | 05/08/2006 9.35 to 9.45 AM |
| 15. | Mr.Murali | SN | Mobile Unit - Primary Care, Screening model | 05/08/2006 11.40 to 11.50 AM |
| | | | Planning, Implementation, Scalability & Cost & Standards and Barriers (legal, privacy & technology) | 05/08/2006 11.50 to 12.20 AM |
| | | | E- Learning (Virtual University) | 05/08/2006 4.35 to 4.55 PM |
| 16. | Mr.PK Swamy | AECS/SN/Vision 2020 | Inaugural session: Prayer song & Welcome address | 04/08/2006 9.00 to 10.00 AM |
| | | | Vision 2020 India Movement | 03/08/2006 4.00 to 4.30 PM |
| 17. | Mr.Ramkumar | Gemini | Useful Devices (RFID / Smart Card solutions) | 03/08/2006 12.10 to 12.30 Noon |
| 18. | Mr.S Ramnarayanan | CMC | Current PC, Hardware options, Server & | 03/08/2006 9.30 to 10.30 |

| | | | | |
|-----|------------------------|------------------------------------|--|------------------------------------|
| | | | Desktops, Thin clients, PDA (with Considerations for Purchase) | AM |
| 19. | Mr.Sajin P. Antony | Muziris | Requirements of HMS software & its Hardware | 04/08/2006 10.45 to 11.00 AM |
| 20. | Mr.SathyaSankar | MatrixView | Standards in EMR (Important of Standards & Current Standards) | 05/08/2006 9.45 to 10.00 AM |
| 21. | Mr.T Rathinam | SN | Requirements of EMR software & its Hardware | 05/08/2006 9.10 to 9.20 AM |
| | | | Intro: What is HMS? Who are its beneficiaries? What are the options available for HMS | 04/08/2006 10.30 to 10.45 AM |
| | | | Standards (HL 7, NABL etc.), Scalability & Economics | 04/08/2006 11.45 to 12.05 PM |
| 22. | Mr.Thiagaraj Thomas | SN | Document Management System (Image based) | 05/08/2006 4.15 to 4.35 PM |
| 23. | Mr.Thulasiraj | AECS/SN/Vision 2020 | Prayer song & Welcome address | 03/08/2006 9.00 to 9.30 AM |
| | | | Panel Discussion | 03/08/2006 4.30 to 5.00 PM |
| 24. | Mr.Venkat | TCS | HMS Modules & its Integration (within modules) & interfaces (with other software), Data Safety, Privacy, Security in HMS | 04/08/2006 11.15 to 11.45 AM |
| 25. | Mrs.Aruna Sundararajan | Ministry of Information Technology | Valedictory | 05/08/2006 5.10 to 5.30 PM |
| 26. | Ms.Lakshmi | SN | Medical Transcription Made easy | 05/08/2006 4.00 to 4.15 PM |
| 27. | Ms.Sujatha | TCS | HMS Modules & its Integration (within modules) & interfaces (with other software), Data Safety, Privacy, Security in HMS | 04/08/2006 11.15 to 11.45 AM |

Annexure-IV
Feed back from Participants
IT Basics - Hardware

| | Excellent | Good | Satisfactory | Fair | Poor |
|--------------|-----------|------|--------------|------|------|
| Presentation | 10 | 24 | 8 | 0 | 0 |
| Handout | 5 | 22 | 2 | 0 | 0 |
| Topic | 15 | 24 | 2 | 0 | 0 |
| Overall | 9 | 25 | 4 | 1 | 0 |

IT Basics-Networking

| | Excellent | Good | Satisfactory | Fair | Poor |
|--------------|-----------|------|--------------|------|------|
| Presentation | 13 | 24 | 4 | 0 | 0 |
| Handout | 10 | 19 | 1 | 0 | 2 |
| Topic | 18 | 15 | 4 | 0 | 0 |
| Overall | 14 | 21 | 2 | 0 | 0 |

IT Basics-Software

| | Excellent | Good | Satisfactory | Fair | Poor |
|--------------|-----------|------|--------------|------|------|
| Presentation | 14 | 20 | 6 | 1 | 0 |
| Handout | 12 | 15 | 4 | 0 | 2 |
| Topic | 15 | 18 | 4 | 1 | 0 |
| Overall | 12 | 22 | 5 | 0 | 0 |

IT Basics-Open Sessions

| | Excellent | Good | Satisfactory | Fair | Poor |
|--------------|-----------|------|--------------|------|------|
| Presentation | 10 | 21 | 4 | 0 | 0 |
| Handout | 4 | 18 | 4 | 1 | 1 |
| Topic | 6 | 20 | 5 | 0 | 0 |
| Overall | 6 | 25 | 4 | 1 | 0 |

| | Excellent | Good | Satisfactory | Fair | Poor |
|--------------|-----------|------|--------------|------|------|
| Presentation | 25 | 13 | 3 | 1 | 0 |
| Handout | 13 | 15 | 3 | 1 | 0 |
| Topic | 21 | 12 | 3 | 1 | 0 |
| Overall | 20 | 15 | 3 | 1 | 0 |

HMS Demonstration

| | Excellent | Good | Satisfactory | Fair | Poor |
|--------------|-----------|------|--------------|------|------|
| Presentation | 18 | 17 | 6 | 1 | 0 |
| Handout | 14 | 11 | 5 | 1 | 2 |
| Topic | 16 | 14 | 6 | 1 | 0 |
| Overall | 14 | 17 | 7 | 1 | 0 |

HMS Case Study

| | Excellent | Good | Satisfactory | Fair | Poor |
|--------------|-----------|------|--------------|------|------|
| Presentation | 9 | 22 | 10 | 2 | 0 |
| Handout | 10 | 13 | 10 | 0 | 1 |
| Topic | 10 | 20 | 6 | 2 | 0 |
| Overall | 8 | 23 | 9 | 0 | 0 |

EMR Presentation

| | Excellent | Good | Satisfactory | Fair | Poor |
|--------------|-----------|------|--------------|------|------|
| Presentation | 23 | 16 | 2 | 1 | 0 |
| Handout | 12 | 17 | 2 | 0 | 1 |
| Topic | 18 | 13 | 1 | 2 | 0 |
| Overall | 18 | 18 | 0 | 1 | 0 |

Tele-med Presentation

| | Excellent | Good | Satisfactory | Fair | Poor |
|--------------|-----------|------|--------------|------|------|
| Presentation | 25 | 15 | 1 | 1 | 0 |
| Handout | 13 | 14 | 0 | 2 | 1 |
| Topic | 18 | 13 | 3 | 0 | 0 |
| Overall | 18 | 18 | 2 | 0 | 0 |

EMR Demo

| | Excellent | Good | Satisfactory | Fair | Poor |
|--------------|-----------|------|--------------|------|------|
| Presentation | 12 | 22 | 3 | 1 | 0 |
| Handout | 9 | 15 | 1 | 2 | 1 |
| Topic | 12 | 15 | 2 | 0 | 0 |
| Overall | 10 | 20 | 3 | 1 | 0 |

Specific application

| | Excellent | Good | Satisfactory | Fair | Poor |
|--------------|-----------|------|--------------|------|------|
| Presentation | 12 | 16 | 4 | 1 | 0 |
| Handout | 7 | 12 | 5 | 1 | 0 |
| Topic | 7 | 17 | 3 | 0 | 0 |
| Overall | 8 | 19 | 3 | 0 | 0 |

Suggestion for future topics:

1. Front end S/W using for Hms (Not indetail but merits, view of front end) (Mr.Rathinam has clearly mentioned in EMR Section)
2. To be granted in two Catagories, 1. Basics, 2. Advanced
3. Change Management in Eye care with development of IT etc.
4. How to preparing Software, because so many Hospital backward, economically, and Small organizations
5. Integrating all health related institutions in a single standard smart card.
6. Group Discussion is m ore interacting
7. Please arrange that type of Workshop again and again.
8. Every year do like this workshop for Advance Information Technology
9. Not to be constrained with one speciality
10. Applications letter different level of Institutions, Internet, Visual
11. Demo sessions on Epidemiological, Clinical and Statistical report generation using EMR.
12. Medico legal aspects of EMR (EMR, Telemedicine, Case Studies)
13. It should arrange every year. To be lecture delivery more slow
14. Hardware/Technology could be more streamlined to avoid repetitions
15. Demo is more essential
16. Topic for Co-ordinating Ophthalmologists to reach out for rural masses technically and Logistically and also provisions that make ophthalmologists work in rural areas.

Other Comments:

1. Doctors not related to IT and its applications will come to know importance of IT in their field. The Workshop will surely going to help Doctors as well as IT people. Time spend should be increased in order to brief more all of us on these topics. Great Experience!
2. More Stalls can be arranged
3. Just My heartfelt thanks to all the member of SN, AECH and Vision 2020 for organizing and Sponsoring the Workshop
4. It would be nice it change management is included in detail so that we can change in behaoural aspect of Clinical
5. Excellence.
6. HMS system is excellent but may cover Account, Store, Library, Maintenance, Canteen and other, Because all of these are put of the Hospital
7. Please separate the Veg & Non Veg, if possible.
8. Very Good Hospitality

9. Should have a separate Non-Veg Section, but not a mixed one. The Servers should be guided not to touch the Plate, Spoons and Serve
10. The session we have passed away last 3 days is really unique and appreciable. Such a gathered idea and information should be more undespread. Global participation may be will be more ornamental and requesting to focus the idea in Bangladesh.
11. The presentation is very good. I appreciate if any guide line for go further (I want to mean Book, Website, etc)
12. The content was more than any expectation the Workshop is highly relevant to establish quality assurance in fast growth eye care services
13. Please congratulate the Hospitality section of LAICO for the tabulous food arrangements, HMS & EMR can be dealt with in one day - they are very interlinked.
14. Highly technical language, Difficult for understand IT, Needs practical training.
15. Facilitate consultation of participants with experts faculty on a one to one basis
16. A Good conference, Look forward to more
17. I am very happy to participate this Workshop, This workshop gave me great opportunity to learn IT use in Eye care sector.
18. If the programe will be vedio and serve to the all participants, it will be good.
19. Accordingly the course, if it should be for one week and every topic through Demo by CD then its more convenient

Annexure V

Dear Sir,

It was a great experience at Madurai attending the workshop. Lot of organizing efforts has been put in , to make the perfect setup, exact co-ordination and excellent arrangements. My HATS OFF and SALUTATIONS to the organizing team.

I am sure you have been at the epicentre of all the arrangements and my deepest regards and heartfelt congratulations to you for bringing all those present on a single platform.

I sincerely look forward to more of such dose of knowledge sharing experience.

CONGRATULATIONS TO ALL once again.

With best regards,

Manish Kumar

Administrator, Rotary Service Centre- Purulia

Annexure-VI

Press Release

THE HINDU

Date:05/08/2006 URL:

<http://www.thehindu.com/2006/08/05/stories/2006080515030100.htm>

Eye specialist lays stress on tele-ophthalmology

Staff Reporter

IT penetration will close gap in urban-rural divide on eye care: Chairman, Sankara Nethralaya

MADURAI: "Deployment and extensive use of information technology alone can bridge the gap between urban and rural eye care and one of the effective tools could be tele-ophthalmology," S.S. Badrinath, Chairman, Sankara Nethralaya, Chennai, said here on Friday.

Screening and treatment of patients in remote rural areas would be possible through IT applications and hence the focus should be on IT-penetration in rural areas.

Speaking to reporters at the inauguration of a three-day national workshop on 'IT applications in eye care,' he said tele-ophthalmology was making it possible to extend quality eye care in villages.

Two eye care majors in the State — Sankara Nethralaya and Aravind Eye Care System — are jointly organising the workshop under the auspices of Vision 2020-The Right to Sight India, a national organisation. According to Dr. Badrinath, IT gains relevance in all aspects of ophthalmology from management to diagnosis and it is very important in the scenario of swelling cases of diabetic retinopathy across the country.

Village vision centre

P. Namperumalsamy, Chairman of Aravind Eye Care System, said Village Vision Centres were established in Madurai and Theni. Twenty more centres will be opened in the State and Pondicherry. Para-medical personnel would man the centres and quality treatment would be provided from the main hospital.

The national executive director of Vision 2020-India, P.K.M. Swamy, and its president, R. D. Thulasiraj, also spoke. More than 70 delegates from India, Bangladesh and Nepal are attending the workshop, besides the participation of a few IT companies.

The founder of Sify.com, R. Ramraj, was among those who took part in the inaugural function.

04/08/06

IT helps make eye care services cost-effective: Experts

EXPRESS NEWS SERVICE

Madurai, Aug 4: With the penetration of Information Technology in rural areas, eye care services could be made cost-effective for the rural poor, eye experts opined.

Besides, among the various health care services, eye care delivery system has made inroads into the villages utilising the advantages of IT, they said.

Talking to mediapersons on the sidelines of a

three-day national workshop being conducted on 'IT applications in eye care' jointly organised here by Aravind Eye Care System (AECS) and Sankara Nethralaya, Chennai, under the aegis of Vision-2020 - The Right to Sight India programme, AECS chairman P Nampereumalsamy asserted that health care services would come down if the possibilities of the use of IT in the field of medicine was explored.

The hospital's vision centres equipped with

telemedicine facility established in Theni district on a pilot basis bears a testimony to the fact that IT plays an important role in improving the quality of services, he said and informed that 20 more vision centres would be set up across Tamil Nadu and Pondicherry.

Nampereumalsamy further added that the use of IT was not only patient-oriented but also effective in hospital management applications.

Vision 2020-India National Executive Director P

K M Swami said a welcome change in the recent years is that eye care services were being taken up by service organisations as part of their community welfare measures. The institutionalised approach is gaining acceptance, he added.

The objective of the workshop, Vision 2020-India President R D Thulasiraj said, was to evolve a perfect partnership across the country with the aim of perfect sight movement started in Tamil Nadu and Andhra Pradesh. It is also

aimed at putting in place supportive mechanisms with the use of IT to bridge the urban-rural divide in eye care services, besides setting up an IT establishment in hospitals. Delegates from across the country and a few from Bangladesh and Nepal are attending the workshop that concludes on Friday. Professionals from IT majors including TCS and HP are also participating and demonstrating their products and specific solutions in health care settings.

Annexure-VII Participation Certificate



This is to certify that

participated in the
National Workshop on
IT APPLICATIONS IN EYE CARE
held at LAICO, Aravind Eye Care System, Madurai
on
August 3-5, 2006


R.D. Thulasiraj
Executive Director, LAICO
President, VISION 2020-India


P.K.M. Swamy
National Executive Director
VISION 2020-India


Dr. S.S. Badrinath
Chairman
Sankara Nethralaya

