#### Innovations

in

#### HEALTH SECTOR

OF Karnataka

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### Sincere desire to find solutions to the problems and

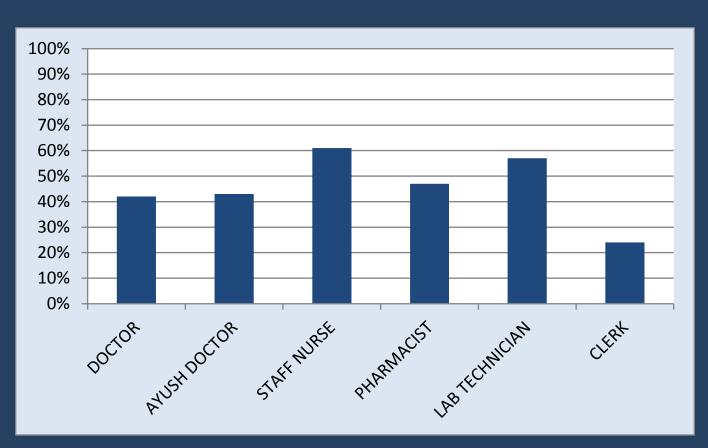
willingness to swerve from the beaten path
lead to exhilarating
INNOVATIONS

#### The Background

- Health workers absenteeism biggest problem in rural and remote health facilities
- Rural patients deprived of timely health care
- Basic services like immunisation compromised
- Poor people forced to spend money for uncertain quality health care in private sector

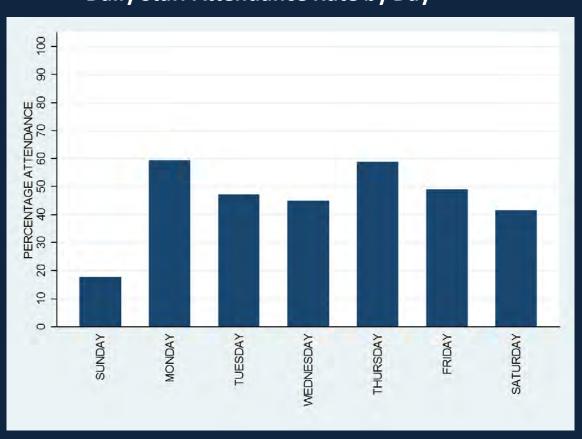
### Results of Baseline Survey: Presence is Low Even for Staff NOT Required to be in the Field

#### **Daily Staff Attendance Rate by Position**



### Results of Baseline Survey: Presence is Low on All Days of the Week

**Daily Staff Attendance Rate by Day** 



#### The Project

- This is a Health Care Management, Monitoring and Information system.
- The multi function devices used are basically an interface of a programmable mobile device with a finger print reader.

#### Aims to capture,

- Beneficiary details
- Daily patient and disease summary
- Leave monitoring and digital attendance of doctors and staff.

#### Status of implementation

- Has been implemented on a pilot basis in five districts
- Presently operative in about 140 PHCs in the State

#### **Outputs**

- Recording of attendance of health staff through Finger print reader
- Recording of details of cash benefits paid to patients along with photographs and signature/thumb impressions of beneficiaries
- Recording of statistics on number of patients seen and diseases treated.

#### Multi-function devices placed in PHCs







#### The Impact (Assessment by JPAL Survey)

- Has helped fighting absenteeism and has improved timely health care to rural patients
- Improved punctuality, and hence a sense of trust is instilled in the mind of patients.
- Good performing doctors and staff are identified, recognised and rewarded.



#### The Act

The Karnataka State Civil Services (Regulation of Transfer of Medical Officers and Other Staff) Act 2011, is a major initiative towards human resource planning and management in the department.

#### The Background

- Irrational Posting due to political pressure resulting in speciality mis-match
- Large number of vacancies in rural, remote and backward areas leading to poor health care service delivery
- Lack of transparency in transfer process

#### Obejective

- transfer and posting of Medical Officers and other staff through computerised counselling
- Filling up posts in backward and remote areas
- enforcing compulsory rural service to doctors
- transfer/appointment of specialists only to the post of his specialisation
- rationalising the cadres/posts in the Health Department and need based HR restructuring of the department

#### **Implementation Methodology**

- Digitization of service particulars of all employees.
- Rationalising the posts, compulsory rural service of Medical Officers
- Scientific analysis of training needs of staff, organisational development, capacity building, post training evaluation and rational distribution of manpower

e- Procurement System

#### e- Procurement System

#### The Background

- Earlier Rate Contract system of procurement of drugs lead to loss of revenue to govt.
- Raised suspicion of collusion between the procurement machinery and suppliers.
- Certain drugs and consumables procured in large quantities than needed

#### The System

- Karnataka has adopted e-procurement platform for all procurements above Rs. 1.00 lakh.
- Implemented through Karnataka State Drug Logistics Warehousing Society catering to the procurement needs of the Department of Health & Family Welfare Services.

#### e- Procurement System

#### The Objective

- To enhance transparency and accountability in departmental procurements.
- Promote competitive and market driven bidding environment.
- Enable ease of access and convenience to bidders anytime anywhere.
- Provide common bidding environment for all types of tenders.
- Handle entire procurement process in an online environment.

#### e- Procurement System

#### The Impact

Downward variation in procurement rates from manual tendering system to e-procurement is glaringly visible

For ex.

Procurement of Anti Rabies Vaccine (ARV)

2009-10 (manual tender) - Rs. 283 per unit

2011-12 (e-procurement)- Rs. 137 per unit

# Financial Management Information System (FMIS)

#### **Financial Management Information System**

#### The Background

- GOI releases a lot of funds to the State Health Society for effective implementation of programmes.
- The number of institutions handling funds are too large for effective monitoring.
- Enforcing Fiduciary discipline through manual control is unviable

Karnataka has pioneered in developing an integrated Financial Management Information System + e-banking system to bring about efficiency and ease in financial management.

#### **Financial Management Information System**

#### The features

- Collaborated with SBI to develop this web based application
- Expedites the reporting time of financial transactions to almost real time reducing time gap.
- Provides live details of fund utilisation and fund position and aids in tracking expenditure.

#### **Financial Management Information System**

#### The Benefits

- Ease of budget preparation reducing time and effort.
- Improved clarity, transparency and control with respect to advances, expenditure refunds etc.,
- Effective monitoring of fund utilisation with sufficient checks and balances.

#### NRHM Financial Management Information System

#### **Implementation Methodology**

- User application test
- Procurement of computers to the PHCs
- Training of the application for the personnel
- Pilot conducted in the districts Bangalore Rural and Yadgir
- Rolled out in selected 10 districts

(Infant Blindness in premature babies)

#### The background

- ROP affects premature or low birth weight infants which can be prevented by timely diagnosis and proper care.
- But LBW babies in rural and semi-urban areas are not screened and are at risk of developing blindness.
- Number of Ophthalmic specialists trained to treat ROP is very low. Upgrading skills of in-service ophthalmologists is the need of the day.

#### The intervention

- NRHM pioneered to prevent infant blindness in association with Narayana Nethralaya.
- Karnataka Internet Assisted Diagnosis of Retinopathy (KIDROP) partnered with Narayana Nethralaya is the first Tele-ROP network.
- At present this is the largest Tele-ROP network in the world

#### The Initiatives

- Training of ophthalmologists
- Free treatment of affected infants for 1 year
- Providing logistics for mobilization, screening and treatment of affected babies
- RETCAM to train technicians for screening ROP in rural areas
- Advocacy and health promotion



**KIDROP** in action



Mothers waiting for infant screening



**RETCAM Shuttle** 



**Laser Surgery in a rural NICU** 

Mother and Child Tracking System

#### **Mother and Child Tracking System**

#### The Background

- Even though registration of pregnant woman takes place, the follow up for continuing care gets missed out due to various factors. Similar is the case with infant care.
- Dilution in ante natal care, and non-identification of complicated delivery cases lead to maternal mortality which could be prevented.
- Hence the need to build a more efficient system of follow up of ante natal, post natal and infant care.

#### **Mother and Child Tracking System**

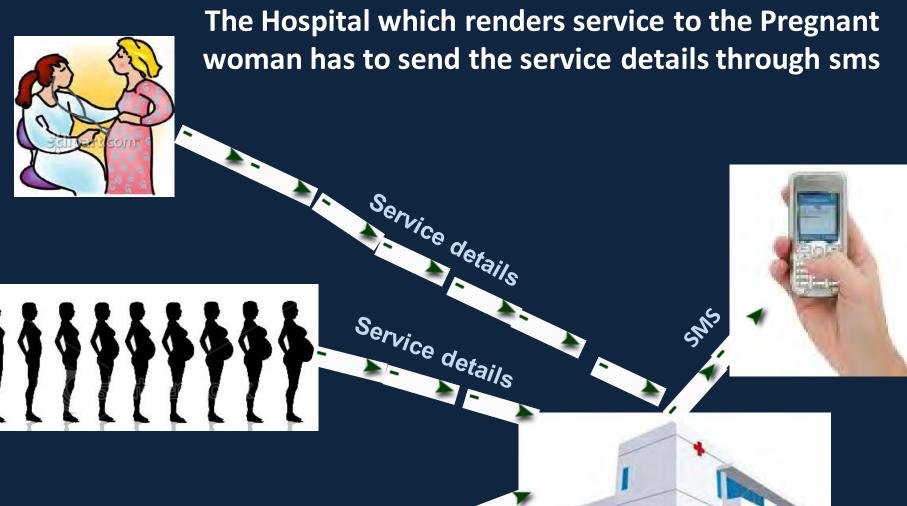
### The Objective

- To keep track of each pregnant woman from registration till post natal care.
- Timely identification of risk irrespective of the place of registration.
- Tracking of every child from birth to end of immunisation.

#### **Mother and Child Tracking System**

### The Methodology

- ANM will register the pregnant woman and details are captured in the 'Mother Card'
- Digitisation of data captured in the Mother card.
- ANM monitors the pregnant woman/mother/child and sends info through SMS to the data centre.
- Medical officers monitor the services provided to the pregnant woman/ mother/child, and send necessary instructions to ANM if any service is missed.









## **Method of sending SMS**



Mob. No.: 9212357123

Eg: ANMPWspace 789456123 space TT1space101210

ANMPW Mother card No. Service abbrvn

Date (DD/MM/YY)







# Mobile Health Clinics

#### **Mobile Health Clinics**

- Mobile Health Clinic is a need and performance based innovative PPP scheme.
- Broadly speaking, it is a "PHC on wheels"

#### The Need

- Like many other states, Karnataka also has, due to its topography, many difficult to access areas, tribal population living in remote villages.
- Those people have to walk miles to reach a basic health care unit.
- Being poor, a day's wage loss, is a considerable deterrent to seek health care service.
- Out reach services of the health care, and the health programmes hardly reach those under served people.

#### **Mobile Health Clinics**

### The Objective

- to provide quality primary healthcare delivery to the door steps of the vulnerable sections of the population in remote and poorly accessible areas.
- To contribute to the efforts to reduce MMR, IMR, CMR and other Millennium Development Goals.
- To create awareness among community regarding communicable and non-communicable diseases and their prevention.
- To encourage private sector in providing essential health care to rural communities.

#### **Mobile Health Clinics**

### Performance - Third Party evaluation

- Has been of great benefit to the poor in remote, hilly, forest and inaccessible areas
- has helped to save loss of daily wages, travel and medical and incidental expenses.
- Healthcare seeking behaviour has improved
- Service has reached marginalised population and vulnerable groups. The concept should be sustained and scaled up.



**Mobile Heath Van in Gadag** 



**Medicines & instruments** 



Patient examination in a Lambani village



**Immunisation Programme** 

Citizen Help Desks

#### The Need

- Rural and poor people who come to District Hospitals for serious ailments get flummoxed by the complexity of the system.
- Without guidance they do not know what services are available, and how to avail them.
- Unscrupulous elements take advantages of this and fleece them for getting them service.
- The cases of malpractice by the hospital personnel hardly reach the administrative hierarchy due to lack of adequate feed back system.

### The Objective

- To improve service at Govt. hospitals by educating staff and public about facilities and services available.
- To enhance transparency and accountability in service delivery.
- To actively assist the patients in obtaining services available in the hospital.
- To establish link between service providers and users through regular feedback mechanism.

### The Operation

- Functions on PPP mode.
- 24 x 7 service providing information and guidance to the public for obtaining service in Government Hospitals.
- has a Help Desk Manager/ Coordinator along with four trained community volunteers.
- will collect feedback on the quality of services from patients (in-patients and out patients) and identify bottlenecks in effective delivery of services.
- All services rendered free of Cost to the public.

### The Performance — (through third party evaluation)

- Reduction in speed money or bribe for different services.
- Waiting time for patients reduced.
- Prompt replenishment of out of stock medicines on reporting.



CHD at District Hospital, Raichur



**Assistance to a patient by CHD executive** 



An outreach service by CHD, Raichur

HIV – RCH Integration

#### The Aim

- Integration of RCH and HIV initiatives to concentrate on prevention of transmission of HIV from mother to Child
- To avoid overlapping intervention activities to make them more effective, and save on time and money.
- To screen every pregnant for HIV to prevent transmission of HIV from mother to child.

### The Strategy

- Universal coverage of HIV counselling and testing to all ANCs.
- Linking up Yeshaswini Scheme for cashless delivery with HIV positive ANCs and providing incentive to the institutions conducting them.
- Enhance institutional deliveries of HIV positive ANCs and ensure administration of prophylactic drugs to mother and baby.

#### The Strategy . . .

- Linking up HIV positive ANCs with ANMs and ASHAs and creating 'shared confidentiality' for CD4 testing and ART initiation
- To track HIV positive ANCs, their spouses and children up to 18 months.

#### The Strategy . . .

- Comprehensive medical coverage for PLHIV
  - No cost based diagnostic coverage including US, CT & MRI
  - Medical Colleges to provide services in the absence of facilities at Govt. ART Centres
  - NRHM supplies chemical & reagents to district labs
  - Free Opportunistic Infections (OI) treatment coverage
  - Vajpayee Arogya Shree Insurance benefits extended

#### Raktha Vahini – The Blood Line

### The Background

- Post Partum Haemorrhage is one of the main causes of maternal deaths. Majority of them occur due to non availability of blood at times of emergencies.
- At FRUs/THs emergency of LSCS operations cannot be taken up due to non-availability of blood.
- Blood banks ask for donor replacement and heavy screening charges which the poor patients cannot afford.

#### Raktha Vahini - The Blood Line

### The Scheme

- Raktha Vahini was conceptualised to ensure availability of blood 24x7 in all FRUs and General Hospitals to prevent maternal deaths due to post partum haemorrhage
- Raktha Vahini is a 24x7 free blood supply scheme to all expecting mothers and neonates in low health indicator districts.
- A PPP initiative MOU with Red Cross Society of India

Thank You