

## WHITE PAPER ON HEALTH, MEDICAL & FAMILY WELFARE DEPARTMENT



The Government of A.P. is providing health services to the people through its various institutions and implementing various programmes to strengthen the health care delivery systems at all levels.

HMFW Department has been providing primary health services in 7548 Sub centers and 1147 Primary health centers, Secondary health services through 195 Community Health Centers, 28 Area Hospitals, 13 District Hospitals, and Tertiary health services through 23 Teaching hospitals.

**The major achievements** of the department are-

1. Decrease in MMR from 83 (2014-15) to 65.81 (2018-19).
2. Decrease in IMR from 37 (2014) to 10.51 (2018-19).
3. Talli Bidda Express, a new initiative with 279 vehicles has dropped back 719,512 post-natal women.
4. Free Dialysis centers increased from 14 to 48 centers which has treated 5946 number of patients.
5. Mukhyamantri e-Eye Kendram, another new initiative for quality eye-care established in 115 centers and have covered 6,67,796 beneficiaries.
6. Linen and laundry services introduced for first time in all Teaching Hospitals and 4 APVVP Hospital.
7. Increase in four Antinatal check-ups to Pregnant women from 74% (2014-15) to 81% (2018-19).
8. Increase in surgeries in Government hospitals by 173% in 2018-19 (11.99 lakhs) compared to 2014-15. (4.39 lakhs).
9. Increase in Lab diagnostic tests in public health facilities by 120% in 2018-19 (3.25 crores) compared to 2014-15 (1.48 crores).
10. Increase in percentage of Institutional deliveries from 97% (2014-15) to 99.2% (2018-19).
11. Increase in fully immunization (1-5 years) from 79.78% (2014-15) to 112.95 % (2018-19).
12. Increase in fully immunization (0-1 years) from 95.07% (2014-15) to 101.22 % (2018-19).
13. Increase in the Out Patients percentage by 51.05% in public health facilities

- in 2018-19 (65,875,752) compared to 2014-15 (43,611,539).
14. Increase in the In Patients percentage in public health facilities by 36.67% in 2018-19 (3,452,592) compared to 2014-15 (2,526,211).
  15. Decrease in the Malaria cases to 73.25% in 2018-19 (5,638 cases) compared to 2014-15 (21,077 cases).
  16. Increase in NQAS certification from 0 to 25 hospitals (District Hospitals and Area Hospitals). NABH accreditation pre-assessment of 8 Teaching Hospitals has been completed.
  17. Decrease in per capita Out Of Pocket Expenditure on healthcare from INR 5770 (2015) to INR 587.31 (2018) which is 90%.
  18. Mahaprasthanam – dignified transportation of 30,671 deceased from the government hospitals with a fleet of 53 vehicles.
  19. Solar roof top in 45 government hospitals.
  20. All 153 PHCs in tribal areas are converted into 24 X 7 PHCs.
  21. 122 feeder ambulances services are introduced in remote and inaccessible ITDA areas.
  22. Release of State, District and Village Health Bulletins on 7<sup>th</sup> of every month to increase public awareness on health education & prevention.
  23. Essential medicine list has been increased from 564 (2014-15) to 751 (2018-19) and Drugs Budget increased from Rs.194.8 Crores (2014-15) to Rs.402.6 Crores in 2018-19.
  24. Establishment of Andhra Pradesh MedTech Zone Limited (AMTZ), a first-of-its-kind enterprise in India under the Government of Andhra Pradesh dedicated to Medical Device Manufacturing.
  25. HM & FW department has received 25 National & International Awards for its excellent performance in different categories.

To strengthen the healthcare delivery within the state, the following are the major programmes/schemes that are being implemented by the Government :-

## **I. Public Private Partnership Programs/Services**

### **1. Talli Bidda Express:**

Talli Bidda Express, through dedicated vehicles, provides transportation services (from hospital to home) to new mothers who deliver at Government hospitals. This service provides safe and hygienic transportation and

contributes in reduction of MMR and IMR. Postnatal women, child and one attendant are transported from Government facility to home.

Progress:

- ✓ 7,19,512 postnatal women have utilized Talli-Bidda Services since the inception of this program. A fleet of 279 vehicles is used across the state.

### **NTR Baby Kit:**

To reduce Infant Mortality Rate (IMR), all the pregnant women who deliver in public health facilities are provided with NTR baby kit immediately after the delivery. The following items are included in baby kit:

- Baby wrap, Baby Towel, Antiseptic Lotion (for hand wash of the mother), Umbrella net
- A total of 6,91,489 have been provided so far.

### **2. Chandranna Sanchara Chikitsa (CSC):**

CSC stands for “Primary Medical Care on wheels”. Any village with no existing health facilities within 5 km radius (13,573 identified) is provided medical services on fixed days every month with the help of 292 Mobile Medical Units. Diabetes, hypertension, epilepsy, communicable diseases, ANC/ PNC checkups and other common ailments are investigated and treated.

A doctor, a nurse, a lab technician and a pharmacist are mandatorily available in the mobile medical unit. 50 types of drugs are dispensed and 9 diagnostic tests including ECG are conducted at CSC.

#### **Progress:**

- 4,02,912 clinics have been conducted, 13,079,243 patients have availed these services
- 4,676,926 tests have been conducted, 10,489,515 medicines have been issued. CSC ensures availability and accessibility to medical services for the needy in remote villages.

### **3. National Free Dialysis Program:**

The Dialysis Programme was rolled out in 2016 as part of the National Health Mission (NHM) to provide free dialysis services to the poor. In addition to the existing centers functioning with state support, dialysis centers are established in all the 13 districts through PPP mode, making quality services accessible to the kidney disease patients which otherwise is an unbearable expenditure to them lifelong.

#### **Progress: -**

- ✓ More than 1,09,601 sessions conducted till date with 5946 unique patients have utilized free dialysis
- ✓ In total 48 free dialysis centers are functioning across 13 districts in Govt sector

All Dialysis patients are provided a monthly pension of Rs 2,500/- under NTR Bharosa scheme. The pension facility has also been extended to patients undergoing dialysis in Private Hospitals empanelled under NTR Vaidya Seva.

#### **4. Mukhya Mantri Arogya Kendralu:**

State-of-the-art health care services including specialty services free of cost to Urban poor and Slum dwellers to reduce out of pocket expenditure and improve accessibility to quality healthcare which is available 365 days.

Teleconsultation is provided to those who need specialist medical consulting services including Cardiology, Orthopedic/ Rheumatology, General Medicine or Endocrinology. This is followed by lab tests and dispense of drugs at the pharmacy. A total of 32 diagnostics tests including dengue, malaria and TB are carried out here.

##### **Progress:**

- 75,76,281 out patients are provided medical services and 7,17,881 tele consultancies are conducted
- 11,51,556 immunizations are completed
- Till date 22,13,658 biochemistry tests, 22,24,003 clinical pathology tests and 4,45,114 haematology tests have been conducted

#### **5. NTR Vaidya Pariksha (Laboratory services):**

NTR Vaidya Pariksha Laboratory Services aims at providing Free Diagnostic Tests to the patients visiting Government hospitals. This helps in increasing the patient care and reducing the Out of Pocket Expenditure for the beneficiaries. Currently, there are 105 Labs in operation which includes 7 Mother Labs & 98 Processing Labs spread across all the 13 districts. All 105 labs are ISO 9001:2015 certified and all the 7 mother labs have NABL Accreditation.

7 out of 19 diagnostics tests in PHCs, 12 out of 22 diagnostics tests in Tribal PHCs, 21 out of 42 diagnostics tests in CHCs and Area Hospitals and 40 out of 62 diagnostics tests in District Hospitals are done through NTR Vaidya Pariksha Lab services.

##### **Progress:**

- A total of 1,58,52,964 patients have availed the service till date
- A total of 5,92,88,725 tests have been carried out till date

#### **6. NTR Vaidya Pariksha - Tele Radiology X-Ray:**

Tele radiology services are provided through digitalization of X-ray film, transmission of the data through Licensed Software. In the remote hub a qualified radiologist will do the study and detailed report with digital signature will be sent back online to the institution. This facility is available in CHCs, Area and District Hospitals across the State in 113 locations.

##### **Progress:-**

- ✓ A total of 13,20,405 patients availed the service
- ✓ A total of 13,82,974 X-Rays were carried out

#### **7. NTR Vaidya Pariksha - Tele Radiology CT Scan and MRI:**

CT Scan machines are installed under PPP mode at 15 locations and 5 centres are provided with tele-reporting facility. Further, 13 MRI scanners are being installed in District Hospitals and Teaching Hospitals. AH Paderu and AH Parvathipuram which are mainly serving Tribal

population are also among these hospitals.

Progress: -

- A total of 1,33,674 patients have availed the service

#### **8. Bio-Medical Equipment Maintenance Services:**

Bio-Medical Equipment Maintenance Services aims at providing 24 x 7 service support to medical equipment in all public health facilities. The service aims at ensuring an upkeep time of 95% for District Hospitals and Teaching Hospitals, 90% for CHCs and 80% for PHCs. Every medical asset is tagged to an asset identification number.

Progress: -

- ✓ Teaching/ Specialty/ District Hospitals have an uptime of 99% as against the target of 95%
- ✓ Area/ Community Hospitals have an uptime of 99% as against the target of 90%
- ✓ Primary Health Centers have uptime of 99.7% as against the target of 80%

#### **9. 108 Services:**

108 Emergency Response Service is a 24/7 free service for any emergency involving people. Toll Free number is accessible from landline and Mobile. There are total 468 ambulances for service. Salient features of the service:

- ✓ Hospital front desk was established in 19 hospitals – 8 districts and 11 teaching hospitals to facilitate continuum of care from ambulance to hospital
- ✓ Tab in ambulances to ensure e-patient care record and real time reporting of emergency patient details
- ✓ Provision of health sector skill council training certification for EMTs
- ✓ Uberisation of 108 services introduced with 177 private ambulances joined to the existing 468 fleet as on 27<sup>th</sup> December 2018.

#### **10. Mukhyamantri e-Eye Kendram:**

This program aims in providing high quality eye care to affected population. 115 e-Eye centers have been established. This service is delivered in a hub and spoke model and services typically delivered through these centers include checking of Fundus, retinopathy, glaucoma, refraction. The beneficiary visits the nearest e-Eye clinic to get their eyes checked. A report is generated at the hub and treatment is initiated based on the report. Correction glasses/ spectacles are then provided free of cost based on the report recommendations.

Progress:

- 6,67,796 beneficiary visits, 6,25,932 refraction checks, 1,55,013 Fundus checks have been completed, and 4,55,522 spectacles have been issued

#### **11. Linen and Laundry Services:**

Clean and hygienic bed sheets and pillow covers with seven different color codes for 7 days

are supplied to Government hospitals in the state. This program covers 13,298 beds across the state, with 6,06,829 bedsheets. Bedsheets are replaced after 60 washes with new ones.

## **12. Mukhyamantri Bala Suraksha (RBSK):**

Mukhyamantri Bala Suraksha is an initiative aimed at screening children from 0 to 18 years for the 4 Diseases - Defects at birth, Diseases, Deficiencies and Development Delays including Disabilities. Children diagnosed with illnesses will receive follow up including surgeries at tertiary level, free of cost.

### **Process:**

- 28 categories of equipment are available for head to toe screening
- Two medical officers (MBBS & AYUSH) and two ANMs in each team will conduct screening
- Child health details are captured in real time and electronic health record is maintained on dedicated website.
- Each child is provided with a dedicated health booklet for five years
- All the out of school children are also screened at respective schools and AWCs in the village on priority.

450 mobile health teams should cover 29,87,039 children from birth to 5 years at 55,606 AWCs and 40,10,869 students from 1st to 10th standard at 46,967 in Government and government aided schools and 2,21,122 students at 664 Government junior colleges.

## **13. TB reduction through improved diagnostics:**

- Real Time Polymerase Chain Reaction (RTPCR) is highly sensitive and diagnose TB in more than 90% of the symptomatics and detects Rifampicin resistance within 1 hour, whereas the conventional methods take two months for detection of Drug resistance TB.
- By using RTPCR technology through TrueNat Machine, TB and drug resistance is diagnosed very early and by initiating early treatment the spread of the disease can be stopped.

## **14. APeRx App:**

- Anti Microbial Resistance and Multidrug-resistant TB (MDR-TB) are most emerging problems now a days. Multi-drug resistant tuberculosis is created by inadequate or improper administration of TB drugs. Improper and irrational sale and dispensing of TB drugs is also one of the reasons for development of drug resistance. Government of AP has brought out an effective low cost solution for App – based prescription and App-based dispensing of Anti tubercular drugs.
- APeRx is a Google Play store based application. It is an ePrescription and Dispensation platform for doctors and chemists where doctors prescribe the anti TB drugs and chemists dispense the same drugs as prescribed.
- This app improves Patient Safety, reduces the cases of lost prescriptions, improves

medication adherence, enables auto maintenance of medication history – accessible to any doctor.

- So far 8300 chemists and 1850 doctors are dispensing drugs through this app as on 27<sup>th</sup> December 2018.

### **15. Mahaprasthanam:**

Dignified transportation of the dead bodies from the hospitals to the residence of the deceased within the state started since 20.06.2017. Presently 53 vehicles are placed in 11 teaching hospitals and 6 APVVP hospitals. A total No. of 30,671 trips and distance of 28,85,969 Km. have been covered by these vehicles.

### **16. Quality care in Hospitals:**

#### **i. Hospital Sanitation & Monitoring System:**

A policy for scientific sanitation, security, pest & rodent control was started in June 2016 across the state covering 11 Teaching Hospitals, 11 Specialty Hospitals, 8 District Hospitals, 33 Area Hospitals, 3 MCH Centers and 2CHCs. A HSMS application is used to collate various checkpoints of measurable items and is then used to generate average sanitation scores.

- Sanitation & Hygiene level in the hospitals have improved more than 70% when compared to previous years
- 100% Negative Swab Cultures in all hospital structures, CFU (Coliform Units) better than Airport & Cinema Halls

#### **ii. CHC sanitation:**

- ✓ A total of 115 CHCs have been brought under the sanitation program and remaining 80 CHCs would be covered in January 2019.

#### **iii. Facility management system (FMS):**

Facility management system was introduced in all Teaching Hospitals in the State. These services consists of 428 front desk manager and Multipurpose Health workers. Who manage e-registration of OP, IP in the hospitals.

#### **iv. Auto-Disable Syringes:**

To ensure patient safety, Andhra Pradesh is the first state in the country to use auto-disable syringes for all clinical purposes starting from 16<sup>th</sup> August 2018. Auto disable syringe ensure that a syringe is used only once. This will help in strengthening and lowering burden of infections by breaking cycle of cross infection.



**v. Green Hospitals (Solar Roof Top in Hospitals) :**

- HM&FW Dept have signed a tripartite agreement with NREDCAP and two service providers empanelled by SECI (Solar Energy Corporation of India) on 25-02-2018 during CII Partnership Summit 2018 to take up solar roof top projects under RESCO route, without any investment by the Department.
- 8 MW capacity projects have been proposed in the first phase covering 23 Area Hospitals & 22 Teaching Hospitals covering all 13 Districts.
- With Zero investment from HM&FW Dept, there will be Savings on Electricity Bill expenditure of Rs 4 Crore per annum. Further, the projects contribute to reduction of 7350 tons of CO2 per annum or 1.84 lakh tons over a period of 25 years.

**vi. NABH Accreditation for 15 hospitals:**

To enhance healthcare delivery system and promote continuous quality and patient safety based on national and international standards through process of self and external evaluation, Govt. Of AP has entered MOU with Quality council of India, for accreditation of 15 Teaching hospitals under DME, AP. 8 hospitals have completed pre-assessment for NABH. 7 Hospitals are performing internal self-assessments and preparing for pre-assessment.

**vii. NQAS (National Quality Assurance Standards) for DH/AH/CHC:**

National Quality Assurance Standards are the set of standards envisaged to improve quality healthcare delivery in the public health facilities under NHM as per Operational Guidelines for Quality Assurance 2013. Quality Assurance Programme started in 2015-16, NQAS is an Accreditation on par with NABH, recognized by The International Society for Quality in Healthcare (ISQua).

Till date, 6 out of 7 District hospitals, 13 out of 34 Area hospitals, 2 out of 3 Mother and Child Hospitals) have been assessed by NHSRC and Certified by MoHFW, GoI. For FY 2018-19, 65 more facilities are in pipeline for certification.

**viii. Medical Oxygen for Teaching Hospitals :**

For uniform supply of uninterrupted Medical Oxygen State wide policy was adopted and MOU was signed (for all teaching hospitals in the State of Andhra Pradesh under PPP mode with effect from September 2018). Service provider will ensure uninterruptable supply of Liquid Medical oxygen (LMO) to all teaching hospitals in the State of Andhra Pradesh and also responsible for the operation, management and maintenance of the medical oxygen supply system.

**E-Aushadhi –Online Supply Chain Management of drugs:**

e-Aushadhi is a complete online supply chain management for procurement and distribution of medicines and surgical items. The entire process of raising demand, placing purchase orders, supply, receipt and disbursement is done on-line in a most

transparent manner. Buffer stocks of every item is kept in the central drug stores which is approximately three (3) months requirement. This buffer stock is used in emergency situations and in cases where the supply is delayed, or the requirements is enhanced. The software is implemented in about 1855 institutions of the health department, mobile medical units and eUPHC.

#### Free Drugs Policy in Andhra Pradesh

- Increase of Essential Medicine List has been increased from 564 (2014-15) to 751 (2018-19).

Drug Budget has been increased from 194.8 crores (2014-15) to 402.56 crores (2018-19). Also the number of beneficiaries is increased from 1.1. crores (2014-15) to 2.65 crores (2018-19).

### **SADAREM Programme – Business Process Re-engineering :**

The existing system of issuing disability certificates was entirely revamped by Business Process Re-engineering to enable beneficiaries get certificates without any hassles and intermediaries. 55 hospitals have been identified speciality wise as SADAREM centres and 589 specialist doctors are provided with digital Keys. Certificates are issued every Friday between 12.30PM to 4.30PM.

### **Blood Transfusion Services:**

13 Blood collection and transportation vehicles are functioning across the state. Improved voluntary blood collection is from 73% (2014-15) to 83% (2018-19). The totals blood collection increased from 4,33,112 units (2014-15) to 5,24,523 units (2018-19) . AP Blood Cell App has been introduced and is functioning. So far, 30,426 users are actively using the app. The number of blood banks have increased from 110 (2014-15) to 147 (2018-19) and Blood storage centers from 54 (2014-15) to 104 (2018-19).

### **ANM Digi-Digital Job Aid to ANMs replacing manual registers:**

- ANMs can use this application to screen members of a community for conditions such as Pregnancy, Communicable and Non-Communicable Diseases, Immunizations, Family Planning etc.
- It integrates with PrajaSadhikara Survey of GoAP and RCH portal of GoI.
- Helps the officials in managing day to day work eliminating the need of multiple applications and reducing/ Eliminating paper work. Multilingual App including Telugu language ensuring ease of use
- 12,500 New Tablet PCs is provided to all ANMs along with biometric facility, GPS tracking, mobile device management and ANM Digi across the state in last week of October.

### Health and Wellness Centers:

The concept of Health and Wellness centers is to provide comprehensive healthcare, well-being and easy access to the community. A total of 365 Health and Wellness Centers are established in the state of AP for screening -

1. Cervical Cancer
2. Oral Cancer
3. Breast Cancer
4. Diabetes
5. Hypertension
6. Vision
7. Hormonal disorders

### Andhra Pradesh MedTech Zone:

AMTZ has been dedicated to the nation by the Hon'ble Chief Minister on 13th December, 2018. The zone has developed as excellent eco system for medical devices manufacturing and has also developed the backward and forward linkages, which includes the process of testing of medical equipments, certification, regulation, marketing as well as research and development backup.

10 National organizations / centers were brought to the zone by pursuing with different ministries in Govt. of India. They are as follows:

(i) 10 National Organizations/Centres:

1. Kalam Institute of Health Technology (Ministry of Science & Technology);
2. Government e-Market place medical equipment cell (Dept. of Commerce, Govt. of India);
3. Bio-Engineering Patent Cell (Controller of Patents, Govt. of India);
4. National Institute of Design Cell (DIPP, Govt. of India);
5. National Medical Device Promotion Council (DIPP, Govt. of India);
6. Medi-Valley Incubator (Niti Ayoge);
7. Bio-Valley Incubator (DBT, Govt. of India);
8. Regional Hub for HTA (Dept. of Health Research, Govt. of India);
9. Directorate of Radiation Safety (AERB);
10. Indian Biomedical Skill Council (Ministry of Skill Development);

In addition to this

(ii) 4 International Centers / Secretariats was also brought to the Zone.

1. International Society of Pharmacovigilance (ISoP) – Sweden / UK;
2. ECRI Institute – USA;
3. Joanna Briggs Institute – Australia;
4. WHO pre – qualification cell – WHO Geneva

In addition to this

Scientific Industrial Laboratories and Centres are also established in the Zone and manufacturing companies have also come to the zone.

- With this, AMTZ is now known as the Medical Technology Capital of India.
- The 4th WHO Global Forum for Medical Devices was hosted successfully from 13-15th December, 2018 at AMTZ. It was attended by over 1049 delegates from over 90 countries.

## **II. Infrastructure**

### **i. Expenditure on Infrastructure**

The APMSIDC is an executing agency which takes-up construction of all medical buildings from Sub Centre to Medical College and along with repairs and renovations to the Hospitals and the details of the sanctions are as detailed below:

#### **1. NABARD XX, XXI, XXIII:**

- 94 works with an estimated cost of 447.88 crores was sanctioned for strengthening / upgradation / construction of Hospitals and works grounded.

#### **2. MCHs under NHM:**

- 14 works with an estimated cost of Rs.177.59 crores was sanctioned under NHM and grounded
- 83 works with an estimated cost of Rs.97.94 crores was sanctioned for PHCs under NHM and completed

#### **3. Face lift works (Dr NTR VaidyaSeva )**

- 221 works with an estimated cost of Rs.142.02 crores was sanctioned for improvements of teaching hospitals, district hospitals, area hospitals and Community Health Centers and completed.

#### **4. DME Plan works:**

- 38 works with an estimated cost of Rs.670.25 crores was sanctioned for improvements of teaching hospitals, district hospitals and area hospitals including 2 medical colleges at Nellore and Padmavati Medical College, Tirupati and grounded.

#### **5. NABH**

- Upgradation of Infrastructure in 15 teaching hospitals sanctioned for Rs.167.70 crores and grounded.

## **III. Special Focus on Tribal areas (TRY)**

### **1. Round the clock primary care services in tribal areas:**

153 PHCs in tribal areas are converted to 24 X 7 and provided 604 additional staff with includes 84 MO, staff nurses, class IV and support staff. The line of drugs available at these PHCs has been increased to 160 from 125 and the number of high end diagnostic tests has also been increased to 11 from 7.

### **2. Sick new born care units (SNCU) mini:**

5 bedded SNCUs,with Pediatrician and 5 staff nurses, in 18 CHCs and 3 AHs are established in ITDA areas, to provide care to sick new born and reduce IMR. 28 categories of equipment are available for neonatal care and all drugs and consumables at free of cost. Maintenance of EHR and real time capturing of services is done. With this all 26 AH & CHCs in Tribal areas are having SNCUs.

### **3. Mukhyamantri Giri Arogya Kendralu (e Sub Center):**

40 sub centers located in interior and 6- 9 KMs away from the road points (20 in ITDA Paderu and 10 each in ITDA Rampachodavaram and ITDA Parvathipuram) are converted into E sub centres with medical officer services on telemedicine mode and drug vending machines for drug dispensing with the help of the ANM are established.

### **4. Feeder Ambulances:**

To shift the patients from remote and inaccessible ITDA areas to nearest 108 ambulances, 122 Feeder Ambulances services are initiated in 7 ITDAs. These feeder ambulances are intended to save the time to reach in shifting the patient to 108 ambulances and save the lives of the critical patients and pregnant women. The Pilot is trained in emergency health management techniques and to use the golden hour to save the patient life. These feeder ambulances were equipped with lifesaving drugs and surgical consumables and the details of services and monitoring of fleet movement is captured on real time.

#### **Progress:**

- 20,241 cases have been transported using 108 Bike Services with a total of 2,02,143 km has been travelled by the 108 bikes.

## **IV. Improved Maternal Care**

### **1. District Hospital Strengthening & Obstetric ICUs**

Seven District Hospitals are being provided with state of art 20 bedded Hybrid ICU / HDUs along with equipment and manpower. Obstetric ICU/HDU is provided at 6 high load delivery centres. A 50 bedded MCH centre is sanctioned to Adoni. Three more hospitals at Kandukur, Kadiri and Vinukonda are being equipped with high end Obstetric equipment. 145 Labour Rooms in CHCs are being strengthened by equipping them with additional equipment.

## **2. Gynaec units:**

In Teaching Hospital - a milestone in the medical education i.e. 19 units of OBG with 570 beds were sanctioned in 7 colleges with 19 Professors, 19 Associate Professors and 38 Assistant Professors.

## **V. Universal Health Coverage**

### **1. NTR Vaidya Seva:**

With a view to provide enhanced & strengthened services under DR. NTR Vaidya Seva, Government is implementing 1044 (873 Surgical and 171 Medical) procedures to the poor people who are Below Poverty Line in 455 empaneled hospitals. The total number of patients benefited under the Trust is 12,00,706 with expenditure of 5,330 crores as on 2018.

### **2. Arogya Raksha:**

To attain Universal Health Coverage in Andhra Pradesh, Govt. of AP has started a scheme “**Arogya Raksha**” for all APL families with Premium of Rs. 100/- per head per month. All the members of the family have to be enrolled. Rs 2.00 Lakh is the entitlement for an individual per annum through over 900 Government and Corporate Network Hospitals for 1044 procedures. 15197 members have availed this services with Rs.38.49 crores.

### **3. Employees Health Scheme:**

The State Government has introduced employee health schemes to provide health coverage to the state government employees, pensioners and their dependents. The premium contribution is 50:50 between the state government and employees or pensioners. The financial coverage of Rs. 2.00 Lakh is entitled for the employee or pensioner through government and Corporate Network Hospitals for 1885 procedures. The total number of patients benefited under the scheme is 2,80,207 with expenditure of 860 crores as on 2018.

### **4. Working Journalists Health Scheme:**

The State Government has introduced Working Journalists Health Schemes to provide health coverage to accredited journalists identified by I&PR Department. The premium contribution is 50:50 between the state government and journalists. The financial coverage of Rs. 2.00 Lakh is entitled for the beneficiary through government and Corporate Network Hospitals for 1885 procedures. The total number of patients benefited under the scheme is 7601 with expenditure of 2.70 crores as on 2018.

### **5. Amaravati Residents Health Scheme:**

The residents within the Amaravati capital city area who are residing as on 08.12.2014 shall be provided free medical facilities subject to certain conditions as stated therein and the scheme shall be implemented by Dr. NTR Vaidya Seva Trust. The Trust is providing services under this scheme to the residents of CRDA region covering 37,569 families on the

guidelines of Dr. NTR Vaidya Seva Scheme.

#### **6. NTR Cancer Care Trust:**

NTR Cancer Trust is registered by Govt. of AP to establish cancer care centers in all the districts of Andhra Pradesh under PPP.

#### **7. Clinical Audit:**

To ensure quality in healthcare services and to bring transparency, the Govt. of AP has initiated clinical audit through third party agency. 2 (two) percent of claim paid cases in both public and private empanelled hospitals will be audited.

### **VI. Out of pocket expenditure:**

Out of pocket expenditure on health is defined as the payment made by the user at the point of service for seeking healthcare. It is one of the measure of Universal health coverage which means affordable, accessible and equitable healthcare. The survey is designed with a specific to capture utilization and expenditure details of sickness or disease with special focus on chronic illness; treatment underwent (out-patient, inpatient, and delivery) with type of public or private provider; expenditure incurred against service delivery for the components like: service fee/consultation fee, medicines, diagnostics, transport, other expenditures for lodging, attendant etc.

- ✓ Baseline survey was conducted in 2015. Various interventions in health sector has been launched in January 2016. To capture change the end survey was conducted in August 2017 i.e. after 20 months of interventions
- ✓ This survey was conducted in selected 26 villages and 14 urban areas across all 13 districts

S.no.	Total out of pocket expenditure(OOPE) per capita per annum	2015 (INR)	2017 (INR)	Change (2015 to 2017)	2018 (INR)	Change (2017 to 2018)	Change (2015 to 2018)
1	Per capita OOPE on Healthcare	5770	1205	-79%	587.31	-51%	-90%
2	Per capita OOPE on healthcare- medical	5062	1104	-78%	336.56	-70%	-93%
3	Per capita OOPE on laboratory	860.54	388	-55%	80.12	-79%	-91%
4	Per capita OOPE on medicines and consumables	2531	486	-81%	135.07	-72%	-95%



### Key findings from Major Indicators:

- ✓ The per capita OOPe on healthcare reduced by 79%, i.e., from 5,770 (2015) to 1,205 (2017)
- ✓ OOPe on laboratory tests reduced by 81.25% in Government facilities (861 in 2015 to 388 in 2017) and by 53.5% in private facilities (820 in 2015 to 381 in 2017)
- ✓ Average OOPe for C-Section deliveries reduced by 55.4% in Government facilities (1,451 in 2015 to 646 in 2017) and by 32.3% in Private facilities (37,494 in 2015 to 25,386 in 2017).

### **VII. Budget Allocation For Health:**

1. The budget for the health department was **Rs. 4,387.94 Crores** for the financial year 2014-2015. This has nearly doubled (increased by 93%) for 2018-2019 with **Rs. 8,463.51 Crores**.

### **VIII. Special Focus on Communicable Diseases and Non-Communicable Diseases**

#### **1. Non-Communicable Disease Management**

##### **Master Health Check-up: -**

MHC program is for screening of men and woman above 30 years for early detection on 7 major non-communicable diseases namely oral cancer, cervical cancer, breast cancer, prostate cancer, diabetes, hypertension, vision, hormonal disorders. 12,000 ANMs are trained for screening for the above mentioned NCDs. Any suspected case is referred to 57 identified referral hospitals for diagnosis and treatment.

##### **Progress: -**

- ✓ 19,93,727 screened till date, all screened men and women are provided Health card
- ✓ 59,019 were referred to 57 identified referral hospitals for diagnosis and treatment
- Districts, mandals and villages with highest prevalence of the mentioned diseases are identified for policy and administrative interventions, i.e., brown rice was introduced in the top 57 mandals with high diabetes prevalence.

#### **2. Communicable Disease Management:**

##### **1. For Malaria:**

- a. During the period from January to December (Till 17<sup>th</sup> December), in 2017, a total of 16,147 malaria cases have been registered in the state, whereas in 2018, a total of 5,629 malaria cases have been registered during the same period. 2018 has registered 65% lower than cases registered in 2017 in the



same period.

2. For Dengue:

- a. During the period from January to December (Till 17<sup>th</sup> December), in 2017, a total of 4,665 dengue cases have been registered in the state, whereas in 2018, a total of 3,895 dengue cases have been registered during the same period. 2018 has registered 16.5% lesser than cases registered in 2017 in the same period.

25.02 lakhs long lasting impregnated nets were distributed in all the ITDA areas and high risk plain areas of all the districts. Screening tests for malaria are available up to the level of ASHA. Screening for dengue is done at all PHCs. All the positive cases are referred for confirmation by MAC ELLISA test in all the district hospitals and teaching hospitals. H1N1 testing facility is now available across 18 centers in all the districts.

## **IX. Health Education:**

### **1. Health Bulletin:**

State, district and village level health bulletins were launched on March 4, 2018. The main objective of this bulletin is to educate the people of Andhra Pradesh about the major health problems that are prevalent in the region and to help them to take necessary precautions to stay healthy. The bulletins also aim at creating awareness amongst the people about health programs and services that they can avail at various public facilities free of cost. It is also used to communicate health tips that ensure prevention of seasonal diseases. The subsequent editions of these health bulletins are being launched on the 7th of every month.

### **2. Swasthya Vidya Vahini:**

Swasthya Vidya Vahini is a health education program launched on 24.12.2016 by the government where a team of two medical students are allocated to each village. The team works in collaboration with various departments including Panchayat Raj, Anganwadi Center and school to develop a village health status report.

#### **Progress**

Since inception of this program

- 119 colleges are participating in this program
- A total of 11,721 students have registered for this program
- A total of 13,903 villages were covered as a part of this program

Survey results from West Godavari show that about 80% of population has good knowledge levels on WASH, whereas 70% of population is practicing and have awareness on the same.

## **X. Medical Education:**

The number of under graduate seats in 11 government Medical Colleges is 1750 and 2050 in 18 private medical colleges. 140 BDS seats in government dental colleges and 1300 in private dental colleges. Last year there is an increase in PG intake by 138 and now the number of post Graduate seats is 831 in government side and in private side 894 seats. In addition to the above, 62 Super Specialty seats are also available.

For early operationalization of AIIMS a temporary campus is being established in Siddhartha Medical college to start with 50 MBBS Seats. The government of AP sanctioned 6 Crores to enable establishment for Infrastructure. The classes started from 30-08-2018.

#### **A. Training / Observership Programme for MD / MS Postgraduates**

The HM&FW department has entered into MOU with Sri Satyasai Institute of Higher Medical Sciences of Puttaparthi to send MD/MS post graduates from the Government Medical Colleges for short term training (Observership) programme in Super speciality branches on rotation in nine (9) departments like Cardiology, CTVS, Plastic surgery, Urology, Ophthalmology, orthopaedics, anaesthesia, Radiology and Pathology. About 350 postgraduates will be benefitted from this programme.

#### **B. DNB:**

The HM&FW department have started DNB programs which is presently conducted in 3 District Hospitals viz DH Vizianagaram, DH Eluru and DH Nandylala under which 50 Post Graduates students are getting trained in different specialities.

#### **C. Visakha Institute of Medical Sciences (VIMS):**

G.O.Ms.No.224, HM & FW (C2) Dept., Dt: 30.11.2018 has been issued for the establishment of Visakha Institute of Medical Science (VIMS) as a 400-bedded premier institute of Medical services and Medical Education with 874 posts sanctioned.

#### **AYUSH**

The AYUSH Department provide its services through 729 Dispensaries and 4 Teaching Hospitals. A mini pharmacy at Dr. NRS Govt. Ayurvedic College, Vijayawada is established with 14 specialist doctors, 13 Yoga instructors for School Health Program, 1 Supervisor and 6 workers. The Department also publishes "AYUSH Vignan".

#### **Knowledge Command Center (KCC):**

KCC is the data analytics wing for the Health, Medical and Family Welfare department, Government of Andhra Pradesh. It is dedicated towards

- Disease surveillance of CD & seasonal diseases
- Identify incidence of major NCD till village level
- Predictive analysis of CDs & NCDs
- Evaluation of PPP programs to identify gaps in healthcare delivery
- Identify KPIs that need intervention at district administration level

- Track the performance of private health providers in a given period
- Evaluate the state health indicators based on 100 KPIs
- Provide the bottom performing KPIs for districts to improve upon
- Analytical analysis of hotspots for mitigating MMR and IMR

## **XI. Memorandum of Understanding to provide better quality healthcare**

- 1) Uddanam Kidney Research Center with George Institute for Global Health, New Delhi established at VIMS, Visakhapatnam to study, test, operationalize preventive approach for CKD of undermined Etiology (CKDu) in AP.
- 2) Health Sector Skill Council to train and provide certification by conducting the online examination for all the technicians and paramedics working with Service Providers of various PPPs implemented in AP.
- 3) CSIO partnership for Bio-medical equipment for finalization of BER equipment for condemnation.

## **XII. Centers of Excellence under Implementation**

1. State Cancer Center at Kurnool is sanctioned with 120 crores.
2. Visakhapatnam Center of Excellence for mental health care is sanctioned.
3. NACO GoI, MoHFW has given approval to Govt. Of AP to establish center of excellence at Siddhartha Medical College, Vijayawada. It is made functional from 1<sup>st</sup> December 2018 and 20 PLHIV were initiated on 3<sup>rd</sup> line ART. CoE is expected to provide 3<sup>rd</sup> line ART services to 2000 PLHIVs in over an year.

## **XIII. Knowledge Partnership with Institutions of Excellence**

The HM&FW Department in order to boost the performance of various PPP programs have entered into MoUs with various knowledge partners aiming to ensure quality implementation of the programmes. These Institutions conduct independent evaluation of the programme and give inputs to improve quality and efficiency of programmes.

S.No.	Programme	Knowledge Partner
1	Biomedical Equipment Maintenance	CSIR – CSIO, Govt.of India
2	Hospital Sanitation, Rodent & Pest Control, Security Services	Sulabh Academy (IAESPH)
3	electronic Urban Primary Health Centres	PGIMER, Chandigarh
4	NTR Vaidya Seva, EHS & Arogya Raksha	ACE Health
5	NTR Vaidya Pariksha	WHO

6	Chandranna Sanchara Chikitsa	Centre for Public Health,Tata Trust
7	Maternal, Child Health & Comprehensive Health Index	TERI
8	Free Dialysis	George Institute of Global Health, New Delhi
9	108 services	PGIMER, Chandigarh
10	Thalli Bidda Express	PGIMER, Chandigarh
11	Tele Radiology	PGIMER, Chandigarh

#### **XIV. Human Resource:**

A total of 5523 medical, paramedical and class IV are recruited in last three years on regular/contract/outsourced basis.

Further the government has permitted recruitment of 205 CAS specialists through APPSC, 155 CAS specialists and 35 DAS under APVVP and 1171 CAS for regular recruitment under Director of Public Health and DME through department.

Government has also enhanced the Salaries of contractual and out Sourcing Employees of Medical, Para Medical and Non-Medical. Government has enhanced Honorarium of ASHA workers from performance based to fixed honorarium of Rs. 3000/- per Month and performance based to a limit of Rs 5600/- per month and a total of upto Rs.8600/- Per Month.

#### **XV. World Bank assisted projects:**

##### **A. e Sub Center:**

To provide assured qualitative health care services by a Medical Officer through Telemedicine at the door steps of Sub-Centers by leveraging Technology.

The main components for the e-Subcenter includes – 1) Multi-para monitor machine (7 tests), 2) Drug Vending Machine (40 drugs dispensing capability), 3) Desktop with Tele Conference equipment, 4) Internet Connectivity, 5) Hub with doctors (zone-wise) and 6) Refurbishment (minor civil repairs, painting, toilet provision with water supply etc.) of Sub-centers whenever necessary.

#### **XVI. Awards (Recognition of Quality Services):**

The department has received awards both at national and international level for its excellent performance in different categories.

## Table of Awards:

SI No	Name of the Award	Awarded To Individual/ institution Name	Awarded by Agency	Date of award	Award given for excellency in
1	Innovative Medtech Zone award-2017 (International Listing)	Andhra Pradesh MedTech Zone Ltd.	World Health & Wellness Congress & Awards	14th February 2017	Innovative Medtech Zone award was given to AMTZ for most innovative medical technology ecosystem to cater to the needs of industry specially in India where import dependency is 90% for medical equipment
2	Skoch Platinum Award	Health Medical & Family Welfare Department, Govt of AP	Skoch Swasth Bharat Award	March 2017	1st Best Performing State in Health
3	Skoch Platinum Awards	Swasth Vidhya Vahini	Skoch Swasth Bharat Award	March 2017	Providing Health Education by Medical Students in rural Areas
4	Skoch Platinum Awards	Inventory Management	Skoch Swasth Bharat Award	March 2017	Best tracking of medicine disbursement through online
5	Skoch Platinum Awards	Bio-medical Equipment Maintenance	Skoch Swasth Bharat Award	March 2017	Best maintenance of equipments in Public Health Facilities
6	Skoch Platinum Awards	Mukhya Manthri Aarogya Kendralu	Skoch Swasth Bharat Award	March 2017	Innovative outreach of Health Facilities in Urban Areas
7	Skoch Platinum Awards	Free diagnosis policy NTR Vaidhya Pariksha	Skoch Swasth Bharat Award	March 2017	Providing free laboratory services to the population of Andhra Pradesh
8	Leader Ship award – Health Care Summit	Health Medical & Family Welfare	Health Care Summit	June 2017	Overall Performance, initiatives & Innovatives in Health

SI No	Name of the Award	Awarded To Individual/ institution Name	Awarded by Agency	Date of award	Award given for excellency in
		Department, Govt of AP			
9	FICCI Award for 2017 under FICCI	Patient Centricity (Public Hospitals)	FICCI	June 2017	Best State for providing cleanliness in Hospitals
10	1 <sup>st</sup> Prize for IPD services among Big States, National Summit Best Practice Good and Republic Practices and Innovation, Gol	IPD Services	National Summit Best Practice Good and Republic Practices and Innovation, Gol	June 2017	1 <sup>st</sup> Prize for IPD services among Big States
11	Best award for Good Practice titled "TB Reach-Wave 4 project" National Summit Best Practice Good and Republic Practices and Innovation, Gol	TB Reach Wave 4 Project	National Summit Best Practice Good and Republic Practices and Innovation, Gol	June 2017	Eradication of TB in Andhra Pradesh
12	Awarded for "Innovation in Increasing Affordable access by a state Government" Express Public Health Awards	Innovation in Increasing Affordable access by a state Government	MoHFW, GOI	June 2017	Innovation in Increasing Affordable access by a state Government
13	Excellence Award for Extending	Extending Public Healthcare	MoHFW, GOI	June 2017	Extending Public Healthcare Services to the Remotest and Last Mile of the State

SI No	Name of the Award	Awarded To Individual/ institution Name	Awarded by Agency	Date of award	Award given for excellency in
	Public Healthcare Services to the Remotest and Last Mile of the State	Services to the Remotest and Last Mile of the State			
14	Awarded for Most Effective – “PPP Diagnostics” Express Public Health Awards	Diagnostic Services	MoHFW, GOI	July 2017	Providing free laboratory services to the population of Andhra Pradesh
15	Award for Maternal Health Survival 2 <sup>nd</sup> Prize, National Summit Best Practice Good and Republic Practices and Innovation, GoI	Maternal Health	National Summit Best Practice Good and Republic Practices and Innovation, GoI	July 2017	Providing Maternal Health Care services for the population of Andhra Pradesh
16	Best award on Implementation of Diagnostics Services in the State, National Summit Best Practice Good and Republic Practices and Innovation, GoI	Diagnostic Services	National Summit Best Practice Good and Republic Practices and Innovation, GoI	July 2017	Providing free laboratory services to the population of Andhra Pradesh
17	Skoch Gold Award	Chandranna Sanchara Chikitsa	Skoch Swasth Bharat Award	March 2018	Providing Health services in rural Areas
18	Skoch Gold Award	Health Medical & Family Welfare Department, Govt of AP	Skoch Swasth Bharat Award	March 2018	1 <sup>st</sup> Best Performing State in Health

SI No	Name of the Award	Awarded To Individual/ institution Name	Awarded by Agency	Date of award	Award given for excellency in
19	Kayakalp Awards – 2017 -18 – State Level, 3 District Hospitals & 4 State Hospitals	DHs - Eluru, Vizianagaram, Machilipatnam AHs - Hindupur, Atmakur, Tanuku, Nuzvidu	MoHFW, GOI	April 2018	Best Secondary Hospitals which follows Kayakalp Procedure
20	NQAS (National Quality Assurance Standards) Award for 3 District Hospitals & 3 Area Hospitals	DHs - Machilipatnam, Nandyal & Eluru AHs- Tanuku, Kavali, Kadiri for National Quality Assurance Standards	MoHFW, GOI	April 2018	Best Secondary Hospitals which follows National Quality Standards
21	Best Usage of ICT in rural services	Chandranna Sanchara Chikitsa	Businessworld Digital India Award	June 2018	Providing Health services in rural Areas
22	Best Mobile App for citizen services	ANM Digi	Businessworld Digital India Award	June 2018	Best Mobile Application to provide various Health services to citizens
23	PMSMA 'I Pledge for 9' Achievers Award	Health Medical & Family Welfare Department, Govt of AP	MoHFW, GOI	June 2018	States with maximum proportion of Pregnant women reached under PMSMA among NON EAG states.
24	American College of Clinical Engineering	Andhra Pradesh MedTech Zone Ltd.	American College of Clinical Engineering	2nd June 2018	ACCE–HTF International Organization Award is given to an organization outside the United States and



SI No	Name of the Award	Awarded To Individual/ institution Name	Awarded by Agency	Date of award	Award given for excellency in
	(ACCE)-2018 international award		(ACCE)		Canada that has demonstrated significant improvements in Clinical Engineering and Medical Technology globally

### **Conclusion:**

With the support of more than 1400 public health facilities 7500 Sub Centers and 22 new initiatives, HM&FW is continuously striving to provide quality & affordable healthcare to the citizens and make the state - “Arogya Andhra Pradesh – Ananda Andhra Pradesh”.