



THE AMBUPOD HEALTH DELIVERY AND DATA COLLECTION PLATFORM

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The AmbuPod





Versatile, Low cost



Patent (Pending), Narrow track







THE AMBUPOD IS FULLY **EQUIPPED**

Pulse-Oxy meter

ECG machine

Sphygmomanometer

stethoscope

Thermometer

Glucometer

Hb Strips

Ultrasound Doppler Fetoscopenjectables*

Suction Device

Ambu-Bag

Oxygen Cylinder and set

Nebulizer

Light-weight Stretcher

Weighing machine

Height measure

LED Torch

ENT Scope

eStethoscope*

Tablet Computer

#Telemedicine Enabled

#Cloud Apps

#Live connect and

Streaming

#EMR

IV Drips*

Medicines*

Splints*

Defibrillator*

Fire Extinguisher

Internal Fans

Internal lighting

Air conditioning* (Diesel Model

Flashing lights and siren

...and more







Glucometer,
Hb Strips,
Dengue*, malaria*
Other tests

Foetal Doppler

Pulseoxy meter

Equipment are subject to change in model based on availal

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ELECTRONIC MEDICAL RECORD FOR EACH PATIENT

TELEMEDICINE APPLICATIONS

LIVE STATISTICS FOR REVIEW



USECASE SCENARIOS

- > HEALTHCARE
- > HEALTH DATA ACQUISITION
- > ANALYTICS
- AI, ML AND PREDICTIVE ANALYTICS



I. PRIMARY CARE



- Fixed timing 6 days a week, Primary care OPD at each village. One AmbuPod services 4 to 6 villages
- AmbuPod arrives on schedule and sets up the outdoor OPD (tent, chairs, table)
- Patients collect at parked AmbuPod and are queried by the Doctor's assistant for complaints
- Complaints and vitals entered into the AmbuClinic App (android)
- Remote doctor connects, speaks (sees) each patient, checks patient data and enters his findings into the AmbuClinic App
- Based on the interaction the doctor writes his opinion
- The opinion could include, tests, medicines or referral
- Tests are done locally and medicines prescribed are handed over to the patient.
 Results of the tests are added to the patient file
- Its job done for that day at that village, the AmbuPod leaves for the next village

2.ANTENATAL CARE

- Fixed timing Antenatal OPD at each village. Once in 15 days One AmbuPod services 4 to 6 villages
- AmbuPod arrives on schedule and sets up the outdoor OPD (tent, chairs, table)
- Antenatal Patients collect at parked AmbuPod and are queried by the female ASHA for complaints
- Complaints and vitals (BP, pulse, temperature, weight, etc) entered into the AmbuClinic App (android)
- The height of the uterus in noted and the heart rate of the foetus is noted using the foetal doppler
- Remote doctor connects, reviews (sees) each patient, checks patient data and enters his findings into the AmbuClinic App
- Based on the interaction the doctor writes his opinion
- The opinion could include, tests, medicines or referral
- Tests (Hb, blood sugar, urine) are done locally and medicines prescribed are handed over to the patient. Results of the tests are added to the patient file
- Its job done for that day at that village, the AmbuPod leaves for the next village





3 POST-NATAL MOTHER AND CHILD CARE

- Fixed timing M&C OPD at each village. Once in 15 days One AmbuPod services 4 to 6 villages
- AmbuPod arrives on schedule and sets up the outdoor OPD (tent, chairs, table)
- Mother and child collect at parked AmbuPod and are queried by the female ASHA for complaints
- Complaints and vitals (BP, pulse, temperature, weight, etc) of mother and child are entered into the AmbuClinic App (android)
- Remote doctor connects, reviews (sees) each mother and child, checks data and enters his findings into the AmbuClinic App
- Based on the interaction the doctor writes his opinion and requisite advice
- The opinion could include, tests, medicines or referral
- Tests (Hb, blood sugar, urine) are done locally and medicines prescribed are handed over to the patient. The dietary and other advice provided by the doctor in the software is explained by the ASHA to the mother in the local language. Results of the tests are added to the patient file
- Its job done for that day at that village, the AmbuPod leaves for the next village

4. SCHOOL MEDICAL EXAMS (HEALTH SCREENINGS)

- School medicals are held at each village once in 6 months One AmbuPod services 4 to 6 villages
- AmbuPod arrives on schedule and sets up the school kids medicals kit in the school
- All children are examined
- Complaints and vitals (BP, pulse, temperature, weight, height, pallor, etc) are entered into the AmbuClinic App (android)
- Eye test, hearing test, examination of joints for mobility, done by the doctor's assistant
- Remote doctor connects, reviews (sees) each patient, checks patient data and examines the eye,ear, nose and throat using the remote eye and ENT scope. Any abnormality, wax, etc is captured as a picture and added to the child's electronic Medical Exam record. Using a remote stethoscope*, placed on the child by the assistant, the remote doctor examines the lungs and heart. The abdomen is checked by the assistant for any liver enlargement. The doctor then enters his findings into the AmbuClinic App
- Based on the interaction the doctor writes his opinion
- The opinion could include, tests, medicines or referral
- Tests (Hb, blood sugar, urine) are done locally and medicines prescribed are handed over to the patient. Results of the tests are added to the patient file.



5. CHRONIC CARE (HYPERTENSION, DIABETES, IHD, ARTHRITIS, ETC)

- A chronic care OPD shall be held at each village once in 15 days. One AmbuPod services 4 to 6 villages
- AmbuPod arrives on schedule and sets up the outdoor chronic care OPD (tent, chairs, table)
- This is for follow-up of Patients
- Patients collect at parked AmbuPod and are queried by the Doctor's assistant for complaints
- Complaints and vitals entered into the AmbuClinic App (android)
- Remote doctor connects, speaks (sees) each patient, checks patient data and enters his findings into the AmbuClinic App
- Based on the interaction the doctor writes his opinion
- The opinion could include, tests, medicines (change, modification or continuation) or referral
- If the patient is new, he is referred for an opinion of the specialist at the nearest hospital
- Tests are done locally and medicines prescribed are handed over to the patient. Results
 of the tests are added to the patient file
- Its job done for that day at that village, the AmbuPod leaves for the next village





5. DENTAL CARE

- A low-cost Mobile dental chair and treatment vehicle
- AmbuPod arrives on schedule and sets up the single-chair, dental OPD (tent, chairs, table)
- Patients collect at parked AmbuPod and are queried by the Dental Hygienist for complaints
- Complaints and vitals entered into the AmbuClinic App (android)
- Remote dental surgeon connects, speaks (sees) each patient, checks patient data and enters his findings into the AmbuClinic App
- The opinion could include, simple procedures, tests, medicines (change, modification or continuation) or referral
- Simple procedures /Tests are done locally and medicines prescribed are handed over to the patient. Results of the tests are added to the patient file
- If a dental surgeon accompanies the AmbuPod then major procedures can be carried out

DATA ACQUISITION, AI, ML AND ANALYTICS

- The AmbuPod is fully loaded with data acquisition tools
- The data of each patient examined, is acquired in a structured machine analysable format
- Data is uploaded to a secure cloud server for storage, search and analytics
- Exclusive Indian data would be a 'Gold Mine' for various private and govt orgs
- This validated and structured Data can be used for Machine learning and to train Al systems
- Data would help predict future illness, ideal treatment protocols and morbidity village, district and state wise



To summarize

The AmbuPod is a versatile healthcare delivery platform that can support multiple scenarios in the Rural Health Care arena, while collecting structured data, at costs very much lower than available today





THANK YOU

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