THE COMMUNITY HEALTH UNIT DATABASE NETWORKING SYSTEM - CHUDATS.NET

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CHUDATS OPERABILITY AND COOPERATION VISION

FUNCTIONALITY, SECURITY, MANAGEMENT, POLICY ACHIEVEMENT

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LOGO Presentation

Full name of web portal:

Community Health Units Database Systems Network

Abbreviation:

CHUDATS

Portal domain:

chudats.net

Full name of mobile App:

Heal the Sick

Implementation Language [CMR]:

English and French

OFFICIAL LOGO

CHUDATS Brief Introductory Points

1) HISTORY

➢ Initially conceived in 2011 with an ambitious zeal to support Cameroon's 2035 development vision, promote e-governance and transform community health care delivery units and operations for extensive accessibility. Later selected as an innovative development need with a take-off country (Cameroon):
https://healthmarketinnovations.org/program/community-health-unit-database-networkingsystems

➢ Presented at the 2013 6th Session of UN OWG/SDGs 2013, thematic focus on Health and Population Dynamics.
https://sustainabledevelopment.un.org/getWSDoc.php?id=2088

➢ 2021: interactive exchanges with MAHSRA working group of Bamenda regional hospital.

➢ 2022 : software development process with MAHSRA and Indian TECH teams.

2) INNOVATION

✓Instituting universally unique patient and health structure identification codes.
✓Instituting a non-liquidable healthcare currency for assisting health structures and patient's in need.
✓Instituting a universally scalable digital health management system with diverse integration options.

Health Unit/Facility's Database Activity

Patient Centered Care

- Registers new consulting patients/persons and inputs/keeps their healthcare data into the database.
- Apportions unique patient identification codes and global e-consultation cards.
- Provide public access for consented patient's health credit obtaining.

Health Unit/Hospital Management

- Provides health personnel management data access and evaluation follow-up.
- Provides CHUDAT management privileges for receptionist, physician/doctor, accountant and general management.
- Provides health unit/hospitals inventory management and accountancy.
- Provides public access for health unit's/hospital's distant assistance gaining.

Digital Healthcare Records, Insurance and Networking Base

- Provide a medium for receiving and keeping health credits for patients and health unit/hospital.
- Provides the ground base for healthcare exchanges between different other healthcare units / hospital.
- Serves as major database patient care information obtaining source for CHUDATS

CHUDATS.NET

The **COMMUNITY HEALTH UNIT DATABASE SYSTEM NETWORK** is useful in three major ways accordingly:

1) Inter-**Health Units Communication and Management**

- Health Data (EMR and EHR) exchanges between group health units;
- Administrative logins for accessing general health statistics at district, regional, national levels;
- Provides a cloud back-up for health units' database info vitals; and
- For accessing and updating patients' medical records by approved health units' staff.

2) The **Patient Health Data Bank Access**

- Provide patient's login access to his/her medical records and health credit transactions;
- Provides patients' access to make complains over medical history inconsistencies or errors;
- Provides Health Units quick access to patients' medical records.

3) **Super admin Controls and Management**

- Oversees the entire transactions among health units within CHUDATS.
- Provides corresponding health checks and corrective recommendations to all users .
- Provides annual permissions for continues network usage to complying health units.
- Coordinates and effects all involved health units payments through their supplied details.
- Coordinates users complains and beneficiary health units' aid usage compliance.

HEAL THE SICK – MOBILE APP

Brief Functional Usages

1) For CHUDATS:

- ✓Provides user accounts for donors or supporters of the CHUDATS projects and patient health credits.

- ✓Provides user access to donate or support other humanitarian health issues posted.

- ✓Provides facilitated access to consented health units and patients needs requiring public support.

2) Direct Doctor/Physician to Patient Contacts :

- ✓Provides profiling database for approved health practitioners or doctors.

- ✓Provides online health check appointment booking and consultations.

- ✓Provides online drugs prescription or reminders and follow-up signals.

- ✓Provides other e-health management control opportunities.

CHUDATS HEALTH CREDITS SYSTEM

CHUDATS offers its own monetary or online currency management system in order to ascertain maximum security for financial transactions within its processes. Explain thus:

1) Patient Heal Coins or Heal Cash:

➢ Obtained into the donation accounts of subscribed and approved health facilities through donations made by the public to assist in-bed sick patients and/or to support a development project of the concerned and requesting health structure.
➢ Obtained and saved into the heal cash wallet of the Mobile App users through direct transfers and direct purchases from any other currency sources.

2) Heal Cash Wallet:

➢ Obtained automatically by downloading "Heal the Sick" Mobile App and creating a user account.
➢ Obtain automatically by acquiring a unique and universal CHUDATS' patient ID

3) Heal Coins / Heal Cash / Health Cowries / Health Credits (HC) Usage:

➢ Make donations, and settle medical and other bills within the entire system.
➢ Provide efficient and costless healthcare saving scheme for patients and institutions.

SYSTEM ADVANTAGES TO USERS

A. For Health Unit/Hospital Usage

➢ Can operate without internet connection and provides quick updating synchronizing possibilities after exposure to the internet.

➢ Provides modern health aid usage digital accountancy and evaluation mechanisms including personnel management (staff evaluation, pharmacy, lab and inventory management)

B. Health Statistics Generation

➢ Anonymously reassembles categorical diagnoses of diverse health issues including diseases and infections, child birth and death rates, vaccination coverage, etc.

➢ Rearranges data presentation tables for health issues statistics processing and reports by dates/periods, causes, ages, treatments, physician recommendation notes etc.

C. Community Development Benefits

➢Helps communities and concerned persons to be able to access and directly support structural and other developmental needs of health facilities within or far away from their areas of concern and interest.

➢Trains and employ community youths in CHUDATS management within their localities.

➢Provides community employment and other business incentives in the provision and sustainable maintenance of CHUDATS and its accessory needs.

OTHER USER BENEFITS

1) For Identified Patients

- Add, receive, transfer and/or save health credits within patients heal cash wallets for healthcare bills settlements.
- Easily recognised within any health unit in the system for rapid diagnosis and treatment.
- Be able to monitor self-healthcare history and make most appropriate decisions for treatments.

1) For Registered and Active Health Structures

- Able to receive, transfer, use or save patients' public health credits against health bills settlements.
- Able to build individual health structural needs projects and receive public support for realisation.
- Able to communicate between sister or grouped health units for expertise and experience exchanges.

1) For Registered and Active Health Administrators

- Able to access and monitor categorical and strategic health data statistics of concerned jurisdictions.
- Able to communicate with all registered health structures of concerned jurisdictions.

1) For Third Party Users and Donors / Supporters

- Able to access summary information of patients and health structures in need.
- Able to make direct donations to patients' and health structures' heal wallets and receive feedback.
- Able to search and make direct consultations with approved medical professionals.

Security & Data Protection Considerations

- CHUDATS is designed to operate in the likelihood of secured inter-banking systems wherein a unique patient identification is the only key to access and/or edit patients' EMR.

- EMR within CHUDATS is as a principle neither accessible to the public nor other system user health administrators.

- Patient EMR is only accessible to approved logged-in user personnel within registered and active health structures of the system.

- EHR statistics void of patient personal ID details, is only accessible to registered, approved and logged-in health administrators.

- Highly secured account registration and logging-in procedures are ensured at all levels.

- Payments for health credits donations are processed through highly secured API processes of third party financial institutions.

- Only CHUDATS non-liquidable currency (heal coins, heal cash, heal cowries) reflections are processed within the system.

Contribution to Cameroon's National Development Strategy (NDS 2020-30)

CHUDATS is structured to significantly contribute in the achievement of the NDS2030 with its carefully designed scheme to meet-up with the country's universal health coverage plan and more. Pertinent issues to address among others include:

➢ Promoting employment through EDUCATION, TRAINING AND EMPLOYABILITY with regard to geographical disparities.

➢ Promoting patriotism by imposing its bilingual existential framework and the training of both French and English personnel for its management.

➢ Address healthcare delivery inequalities and inadequacies in funding and coordination of interventions.

➢ Address the need of a systemised uniform health data statistics collection opportunity,

➢ Promote the need for qualitative health personnel and promote interactivity between formal and traditional medicine professionals and sectors.

➢ Strengthen more social protection measures through its health credit making and saving mechanisms and its donation platforms to meet up with the needs of vulnerable and most unfortunate groups

Cooperation Vision with MINSANTE - CMR

Cooperation Goal:

Establish a foundational direction in contributing towards atleast 55% on the National Development Strategy 2020-2030 (NDS2030) expectations with respect to strengthening the health system, through the establishment of the Universal Health Coverage by strengthening geographic accessibility to health care, improving health governance and the management of health facilities and health personnel, strengthening and modernizing the health information system, and creating an environment conducive to the emergence of a local health economy.

Engagement Milestones :

- Contact and careful examination of CHUDATS with IT department MINSANTE (Jan – April 2023).
- Examination of cooperation MOU with MINSANTE Stakeholders (May 2023).
- MOU signing, system development completion and pre-deployment requisites (June – August 2023).
- Initial phase installations and monitoring management (August – November 2023).
- Initial phase launching and Intensive Mobile App Usage Marketing (December 2023 – March 2024)
- 2nd phase territorial installation and monitoring management (January – June 2024).
- 2nd phase launching and Intensive Mobile App Usage Marketing (June 2024 – September 2024).
- Programmes' effectiveness evaluation and amended (MOU) considerations for improved government (MINSANTE) management control (July 2024 – October 2024).

Cooperation Vision with Other Stake Holders

Cooperation Goal:

Establish dynamic digital management solutions to healthcare institutions, healthcare professionals, donors, and other healthcare service providers and investors.

Cooperation Benefits :

➢ Healthcare facilities obtain simple and dynamic staff management, health bills settlement, and direct structural development assistance opportunities.

➢ Health professionals obtain business opportunities to consult their patients online.

➢ Patients obtain dynamic self healthcare bills regulatory and medical records follow-up opportunities.

➢ Health administrators obtain dynamic and instantaneous health data assessment opportunities.

➢ Other healthcare service business investors obtain opportunities for engaging in CHUDATS's accessories supplies.

CHUDATS SCALABILITY

A. **Provide most modern EMR and EHR e-management system for direct dynamic exchanges between health units and other psychosocial healthcare institutions.**

B. **Consistently beef-up dynamism in health unit management and network follow-up.**

C. **Provide proactive response to patients and health institutional issues.**

D. **Provide API integration options for modern third party health units/hospital applications for ascertaining health institutional management leadership.**

E. **Consistently stay ahead of the health market services provider competition.**

Thank You for the Diligent Attention

CHUDATS: *The Future of African Health Institutional Management*