Teleprimary Care and Oral Health Clinical Information System (TPC-OHCIS)

Primary health care service provides the first point of care for the population to seek medical assistance. TPC-OHCIS (Teleprimary Care and Oral Health Clinical Information System) is an Electronic Medical Record system for the daily operations and real time data management for the primary health care at the Ministry of Health facilities in Malaysia.

Overview

TPC-OHCIS is a holistic clinical information system for health and dental outpatient treatments. It is a system developed in partnership between Malaysia Ministry of Science Technology and Innovation (MOSTI), Ministry of Health (MOH) and MIMOS. The system supports the National Digital Health Reform initiative to improve population health, reduce burden of disease and to have a resilient and sustainable health system.

Features

TPC-OHCIS comprises modules for the following features:

- **Teleprimary Care**
  The application modules cover clinical disciplines involving outpatient care and specialist care such as family medicine, obstetrics & gynaecology, paediatrics, dermatology and epidemiology.

- **Oral Health**
  The application modules cover primary dental care and specialist dental care periodontics, orthodontics and paediatrics.

- **Patient Management**
  Patient registration, patient visit, patient demographic and household accounts.

- **Prescription**
  Hierarchical multi-level drug prescription approval, per facility drug configuration and integration, MIMS (Monthly Index of Medical Specialties) integration.

- **Orderable Item**
  Lab test, imaging, procedure orders, specimen barcode label printing, remote order management.

- **Outreach and Self-Monitoring**
  Outreach modules for school and community programs; and self-monitoring modules for patients to enter the self-monitored health data online for doctors to review.

- **Administration**
  Billing, Reports, Queue Management and System Administration.

Technology Benefits

The main impacts of TPC-OHCIS are:

- **Integrated System for Teleprimary Care and Oral Health**
  Sharing of records, health information and treatment enable continuous delivery of health services across disciplines.

- **Cloud-Based System with Offline Mode Support**
  Care provided at the clinics are accessible from any location that has the TPC-OHCIS system. Offline mode enables continuous operation when the WAN is not available and eliminates redundancy in keying back the manual data to the system.

- **Integration with External Systems**
  Integrated from the data center to eGL, MIMS, MyHDW, SIMKA and eNotifikasi; and at the clinic to PHIS, LIS, PHIS and Computed Radiography system.

- **Compliance to Standard Protocols**
  CDA, HL7, DICOM-compliant.