

VitalHealth Collaborative Health Management

Multidisciplinary information system for collaborative health care



Why VitalHealth Collaborative Health Management (CHM)?

The prevalence of chronic diseases such as diabetes, COPD/asthma and cardiovascular disease is spreading, which is why proactive health care support is becoming increasingly important.

VitalHealth CHM is a multi-disciplinary information system for integrated health care, and offers dedicated support for treating patients suffering from (multiple) chronic diseases. It is based on the principle of creating an Individual Treatment Plan for each patient. All disciplines authorized to deliver patient care have role-based access to patient records. Additionally, the patient can actively participate in his or her own care through online self-management programs.

The advantages of VitalHealth CHM

- Multi-disease support with a personalized treatment plan and patient-specific target values and objectives
- General practitioners can continue to work in their EMR (source system), with a two-way EMR-CHM connection for the exchange of information
- User-friendly and easily configurable per care-group or health care center
- Clinical decision support and task delegation
- Support for all roles and disciplines involved in patient care
- Dashboard with multi-disease overview for each patient
- Support for billing and claims processing
- Extensive and easily configurable (management) reporting options, including pro-active population management
- Powerful self-management functionality, including education
- Scalable and configurable, based on the VitalHealth Platform

Diabetes Module

In addition to recording basic medical data such as blood pressure, laboratory results and vitals, VitalHealth CHM provides a dedicated diabetes module that includes:

- Screening for diabetic retinopathy, including the recording and sharing of fundus photos
- Insulin dosage registration using an easy-to-interpret glucose-insulin overview
- Diabetic related foot exams, including automated SIMMS calculation
- Comprehensive risk analysis and vascular risk monitoring
- Patient specific target value registration, where appropriate



COPD/Asthma Module

VitalHealth CHM allows basic medical data to be recorded, such as vitals, as well as secondary pathology. In addition, VitalHealth CHM has a dedicated COPD/Asthma-related module that includes:

- Spirometry measurement and registration (including curves) for use by pulmonologists in evaluating diagnoses performed by the general practitioner
- Specific pulmonary anamnesis
- Various functional questionnaires (such as CCQ, ACQ and MRC)
- GOLD-, GINA- and burden of disease classification
- Inhaler technique monitoring
- Exacerbation data



CVRM Module

Besides recording basic medical data such as blood pressure, laboratory results and vitals, the VitalHealth CHM has a dedicated CVRM-related module that includes:

- 24-hourly blood pressure registration
- ECG registration
- Ankle Brachial Pressure Index Calculation
- Automated risk assessment on the basis of the most current risk table for heart and vascular disease-related sickness and death, including display of trends



Some of the CHM functionalities

- Patient portal with extensive self-management functionality
- Personalized treatment plan with patient-specific targets
- Comprehensive, risk analysis intake
- Health care overview with risk analyses
- Various screening options: intake, quarterly examination, annual examination, intermediate examination (personally configurable) and joint consultation
- Intelligent evidence-based decision support
- Two-way messaging, to and from the EMR (through standards based integration)
- Extensive, customized patient education program recommendations
- Referrals, including recording of results
- Role-specific access for all disciplines involved in the care process
- Practice management module including reporting, claims and billing

Future of VitalHealth CHM

Besides the COPD/Asthma and CVRM modules, VitalHealth is developing additional CHM modules, for example to support geriatric care. Additionally, a module is being developed for support in care group specific multidisciplinary health care programs that include heart failure and first line mental health care.

The input provided by our users is highly valued and forms an important source of requirements that are subsequently shared through inter-user consultations and included in further (functional) development of the CHM.

Based on the VitalHealth Platform

VitalHealth software solutions are based on the VitalHealth Platform. This generic web-based platform is very flexible and provides an ideal basis for rapid prototyping and development of disease and collaborative health management solutions, targeted at both providers and patients. With its model-driven architecture, the VitalHealth Platform enables quick and easy upgrading and customizations.

VitalHealth CHM is used by health care providers and integrated primary health care centers in a growing number of regions in the Netherlands that include Amsterdam, Almelo, Rotterdam, the province of Friesland, Nijmegen, Utrecht, Leiden, Den Bosch and Groningen.

“With VitalHealth CHM, the general practitioner can instantly view the status of the patient’s condition. Instead of having the patient’s records being distributed over a multitude of systems, the general practitioner can use a single system to evaluate comorbid conditions during consultations.”

Mr. J. Rauws, general practitioner and COPD executive physician attached to the Almelo Primary Health Care Federation, THOON and board member of CAHAG

“We are ambitious and aim to improve health care integration for the chronically ill. In the coming years we plan to develop several health care programs for chronically ill patients with the support of VitalHealth CHM. Of all CHMs assessed by us, the VitalHealth system offers the most interesting options for multidisciplinary organized primary health care.”

Mr. R. van Damme, chairman of the board at STIELO integrated primary care

“The CVRM module provided by VitalHealth is a user-friendly solution that not only registers all indicators accurately but also provides support in decision-making with regard to additional exams and treatment according to current guidelines.”

Ms. M. Hollander, internal consultant and executive heart and vascular physician for Leidsche Rijn Julius Health Clinics

VitalHealth Software was founded by Mayo Clinic (US) and Noaber Foundation (NL), and delivers cloud-based software solutions for health management. We focus on disease management, collaborative health management and personalized health management. We provide a Collaborative Health Management system for Diabetes, COPD-Asthma and Cardio Vascular Risk Management, as well as QuestManager and ScreenQuest for Routine Outcome Measurement. All solutions are based on the VitalHealth Platform. This flexible software platform is used by VitalHealth as well as a growing network of partners, and provides an ideal base for both patient and care provider focused solutions. For additional information about VitalHealth including our contact info, please visit our website.