

Home monitoring and local data-collection

CSO functions as a central unit that handles all information relative to diagnostic and treatment processes. The information can be entered from external systems or point-of-care equipment or by means of specially-developed process-modules that ensure effective, structured handling of workflows in various treatment situations, such as outpatient visits, public-health nurse data-recording or information from a health-care centre.

CSO is able to receive data and measurements by means of direct integration to local data-reporting units and system-specific measuring instruments as well as by means of data entry telephonically, via PCs or the Internet.

On the basis of the situation-specific diagnostic and measurement process, accurate gathering of both measurement results and data gathered from patients is ensured.

Measurement processes, routines and information from users is processed and organised jointly by technicians, IntraMed's professional consultants and daily users of the solution by means of user groups. The overall process is adapted to each individual illness area with various possibilities for escalation and recording in both internal and external systems.

Information is therefore presented to therapist groups and other interested parties on the basis of a previously defined and thoroughly analysed process. This creates the possibility for simple yet effective optimisation of separate, delimited aspects of the patient/treatment process, as well as increased gains for the treatment team in the form of access to updated information on the overall treatment-process.

CSO is physically installed either with the supervisory body for the treatment area concerned (region, hospital, clinic, etc) or as a service accessed from IntraMed's hosting centre.

CSO has been designed with open, easily accessible interfaces that facilitate integration with other systems and measurement units. In Denmark, IntraMed recommends the use of MedCom data formats when available. Both CSO modules delivered by IntraMed (such as COPD, Diabetes, Hyperlipid, etc) and other suppliers' data-collection modules can be integrated with CSO by means of existing, standardised interfaces.

Examples of the use of CSO:

- Specialised modules for the handling of outpatient functions
- Access to patient records and data-entry for practising physicians and health-care centres
- Interactive patient-access
- CSOLink home monitoring via telephone line
- Broadband telemedical solutions and video conferences
- Access for on-the-road personnel (those providing home-care for example) by means of mobile broadband
- Entering of key indicators to a central registry
- Research in clinical data gathered from report generation

IntraMed delivers solutions to

Denmark:

The Capital-City Region
The South Denmark Region
The Zealand Region
The North Jutland Region
The Mid-Jutland Region

USA:

The Hospital Corporation of America

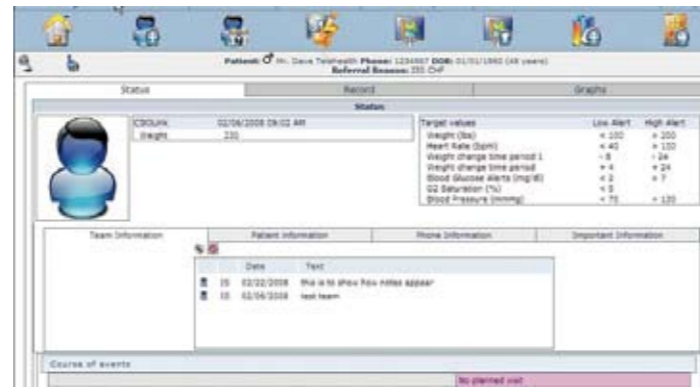
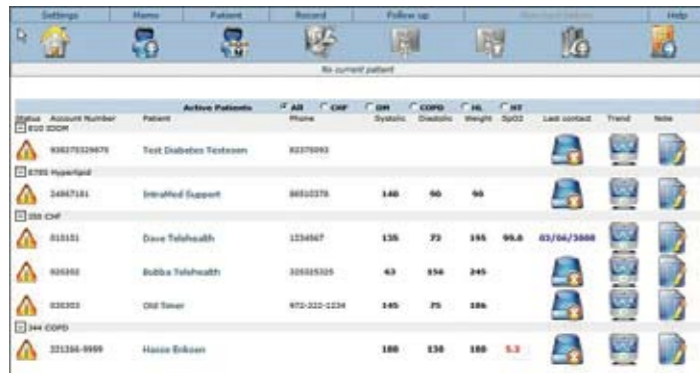
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CSO/Telehealth platform for patients' benefit

CSO reduces development- and integration costs and establishes the basis for scalable solutions





Telemedicine is growing rapidly. Many of its point-of-care technologies contribute to improving treatment quality, to increased patient security and to reduced drain on resources. These technologies both fulfil a specific treatment task and, to a lesser extent, link information gathered on patient conditions and treatment, making this information available to health-care systems and hence also to all stakeholders.

The challenge with many of the new and innovative systems is that they cannot be immediately integrated with existing clinical IT systems in the health service. In the long term, this will make these new systems very expensive to operate because the major expenditure in connection with IT applications is nearly always the integration of various systems.

Efficient use of telemedicine therefore requires that an IT platform be set in place that is able to integrate the many systems used at the individual treatment points. When this challenge is successfully met, the savings can be very significant. The process of municipal reform, which has focused on encouraging municipalities to handle an increasing number of chronic-disease situations with the help of home-monitoring programmes, has focused even more attention on telemedical solutions. The difficulty now is that the many local computer-programmes installed in various hospitals are not interconnected. Applications are typically

targeted to isolated problems and can only exceptionally support an interconnected treatment process that involves patients and shares knowledge among therapists.

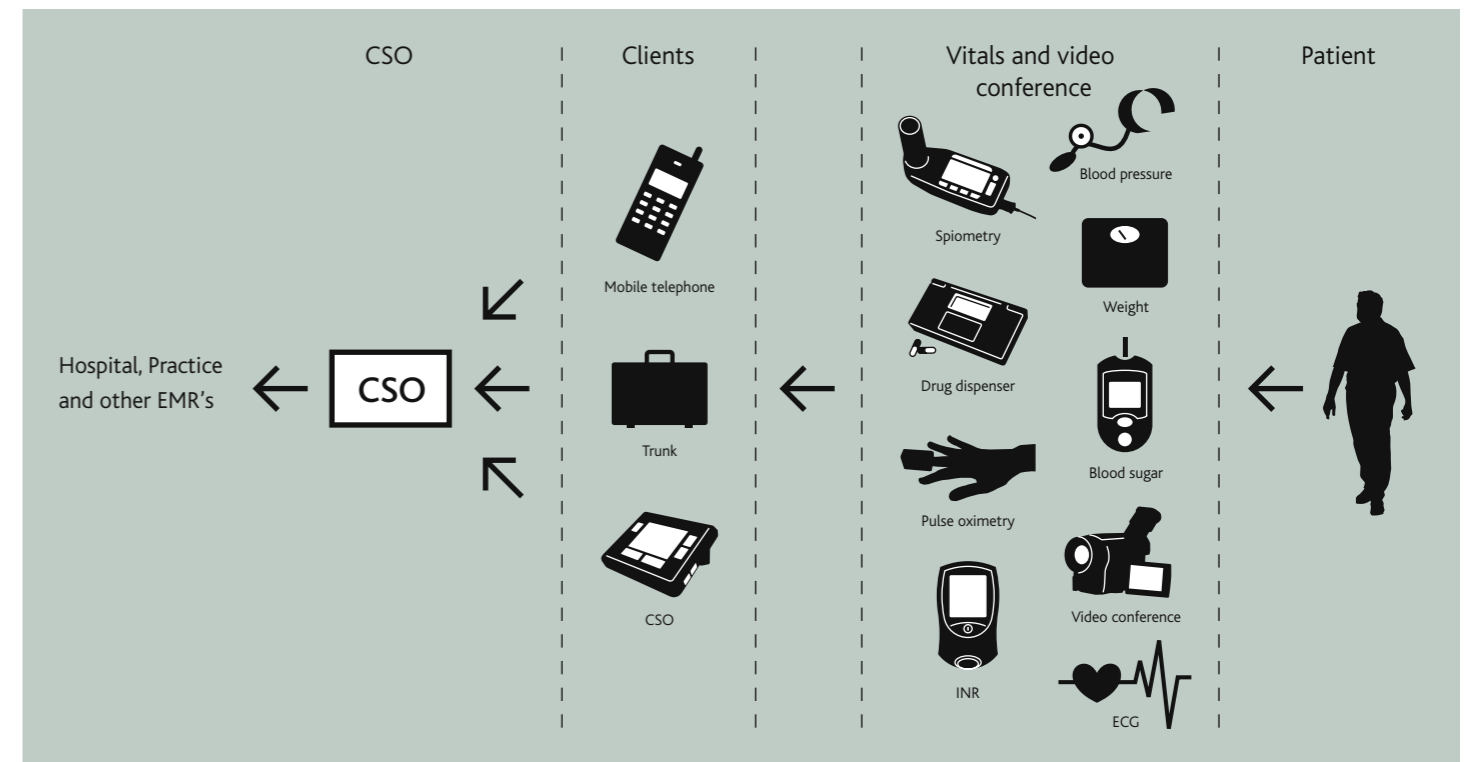
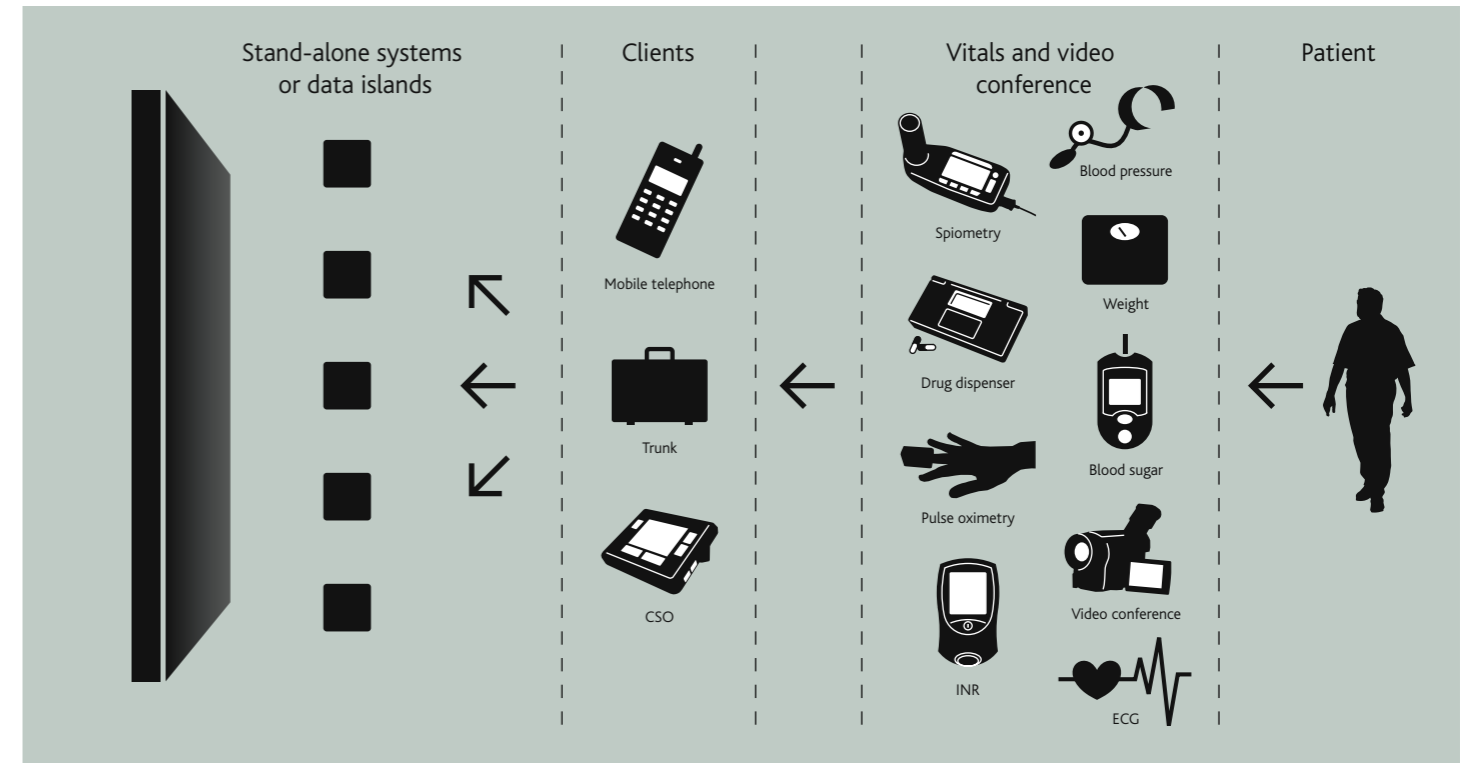
CSO is an IT platform already in use at many customers. It is designed to handle chronic-treatment situations across sectors and treatment units and is able to gather, process and transmit data from therapists, patients and internal/external data-recording systems in the health-care sector.

CSO is the link between point-of-care equipment, users and the underlying systems, such as electronic patient-records. With the help of specific, pre-configured processes for each individual tracking- and treatment process, the effective gathering of information, error escalation and best-practice reporting is guaranteed. These processes are set up and maintained through ongoing cooperation between technical specialists and therapists, with essential input from daily users, including patients and their relatives.

Using CSO as a platform for point-of-care equipment (telemedicine and home monitoring), rather than a local stand-alone program, results in a proven, scalable solution that ensures that it will not be necessary to 'reinvent the wheel'. The CSO platform integrates the most common solutions and makes it possible to carry out local projects without compromising either security or the central IT strategy.

The CSO target group consists of those with both direct and indirect responsibility and of participating centres/units involved in projects that use point-of-care equipment for home monitoring or telemedicine, including other forms of decentralised measurement and data collection. There are many possibilities, potentially involving many of the various stakeholders in the health-care service, including:

- Hospitals and treatment centres
- Private/public clinics and laboratories
- Practising physicians and specialists
- Municipalities, regions and related supervisory bodies
- Central data-registries and quality databases.



CSO offers amongst others:

- Specifically-adapted local access for the entering of automated and user-registered patient data in a central system
- Processing of data entered on pre-configured patient- and treatment processes
- Automated interaction and preliminary dialogue with users and patients
- Entering and recording of measurements and data
- Data transmission and transmission of integrated data to external and internal systems
- Escalation and presentation of integrated user-data to treatment- and interest groups