

IT support of the University Medical Centre Ljubljana (UMCL)

Audit report

Audit period: 1 January 2011 to 31 May 2015

UMCL and its IT support

Scope







Costs (average annual values in the period from 2011 to 2014)

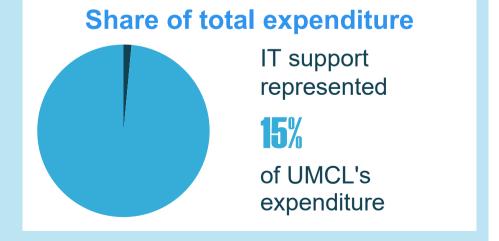
Financial sources

Ministry of Health

2.28 mio

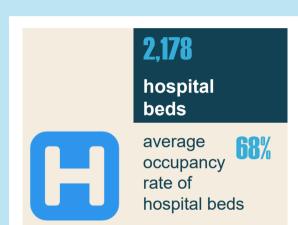


UMCL **€ 6.77**mio



UMCL and its IT support

Average annual values in the period from 2011 to 2014









IT solutions supporting medical services

Hipokrat

between 2,500 and 3,500 users at 8 organisational units

BIRPIS and ISOZ21

between 2,000 and 2,500 users at 6 organisational units

Think!Med

between 1,000 and 1,500 users at 8 organisational units

IT solutions supporting medical services

Key audit findings

Interconnectivity



IT solutions of the UMCL were not connected and did not enable authorised access to data about patients.

Exceptions



IT solutions did not support services of some organisational units, therefore they developed their own additional IT solutions.

Information sharing



UMCL did not define rules about sharing information, thus IT solutions did not support information sharing even within one IT solution.



Medical documentation

Working with patients was mainly based on paper documentation.

Data

Key audit findings

National project eHealth



Ministry of Health provided health centres with electronic exchange of medical documentation.

Even though the UMCL met technical requirements, only one organisational unit joined.

Health centres exchanged medical documentation by post or patients took care of their documentation



Data collection

The employees had to fill in many forms manually and later had to type the data for the IT solution needs.



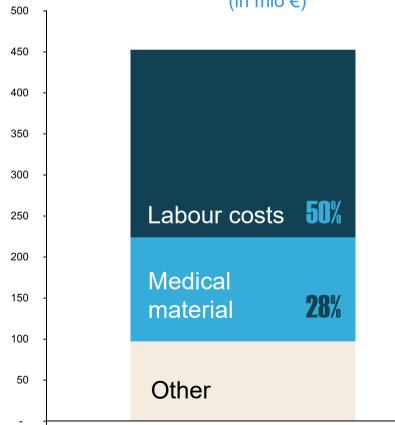
Internal data transfer

Several IT solutions did not enable electronic data exchange; therefore the employees had to type them.

Controlling costs

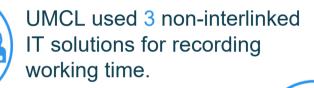
Key audit findings

Main groups of UMCL's expenditure (in mio €)



Average annual expenditure in the period from 2011 to 2014

E-records of main groups of UMCL's expenditure



Some organisational units recorded working time manually.



Data on working time had to be manually transferred to IT solution for accounting payments.

UMCL did not keep complete e-records of medical material per organisational unit.



Controlling costs of IT support

Key audit findings



Duplication

UMCL used several IT solutions with duplicated or similar functionalities.



Suspended solutions

UMCL purchased several IT solutions that were not used or started using them several years later or suspended them after a short while.



Copyright

UMCL ordered development of several IT solutions, while the copyrights were kept by the external providers.
UMCL was therefore not able

UMCL was therefore not able to outsource maintenance and upgrading by using public procurement procedures to reach most favourable prices.



Hardware

A part of the hardware purchase was made outside the public procurement procedure, furthermore UMCL failed to recognise who received and who used the purchased hardware.

IT security

Key audit findings





UMCL failed to unambiguously define responsibilities for IT security.



Access rights

A part of the active user access belonged to former employees or it was not possible to identify who had the access rights.





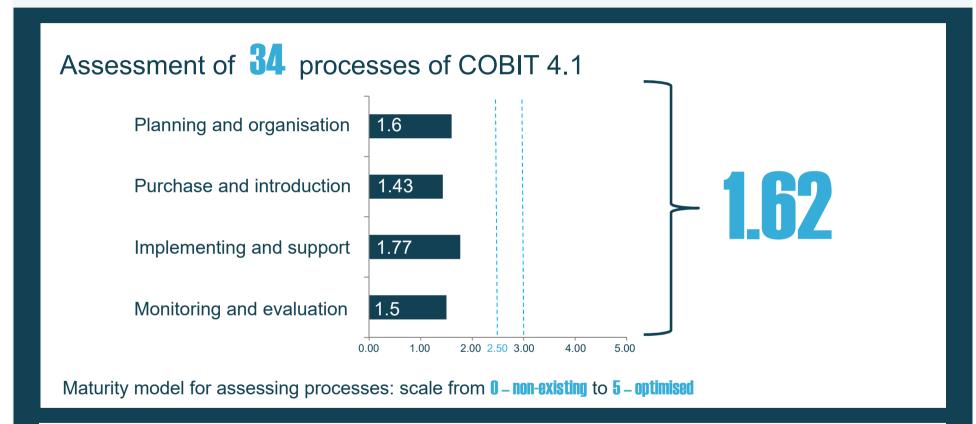
UMCL failed to systematically record all outworkers (service providers) who were able to access sensitive medical data while performing their tasks.



Upgrading

UMCL failed to provide for security updates and systematic upgrades of software and databases tools.

Audit opinion



Opinion:

UMCL failed to provide the IT solutions to efficiently support its operations.

Way ahead

Key demands of the Court of Audit

Procedures



UMCL must clearly define procedures and responsibilities for strategic planning of IT support, project management, purchases and IT security.



Strategy

UMCL must plan information environment for the future, i.e. IT solutions and their integration.

Security



UMCL must improve procedures for providing IT security.



Purchase

UMCL must improve purchasing procedures of IT support, namely making contracts of high quality to protect interests of UMCL and providing transfer of copyrights to UMCL after updates being developed.