

Fracture Management Overview

Post Fracture Care (PFC)

Capturing critical globally-recognized
PFC key performance indicators
in a digital tool to help PFC & FLS programs
improve the effectiveness of their program
and increase patient outcomes

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website

Endorsed by



Management Summary (1/2)

» **Runs on every device with a browser**

Helps doctors, nurses and administrative staff to manage all work – related to patients and processes – more effectively

» **Installed in your hospital**

All data are kept in your facility

» **KPIs dashboard to measure and optimize**

the associated processes and track performance

» **Optimized workflow**

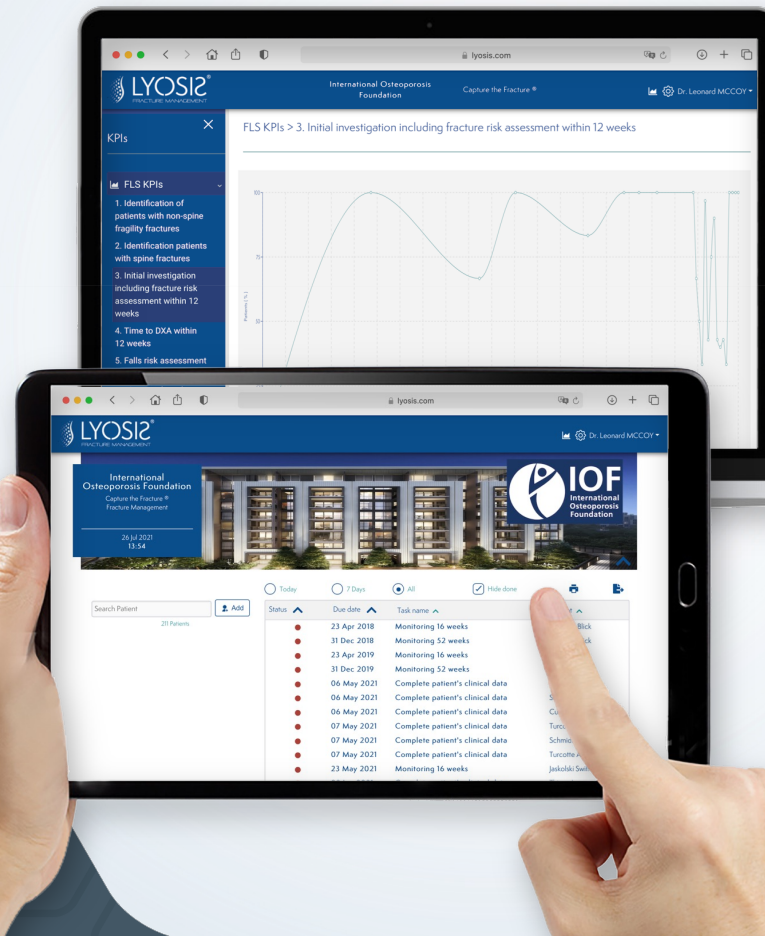
to reduce administrative overhead and double work

» **A significant reduction of costs**

for human resources

» **Optimal patient care**

through task-driven workflow



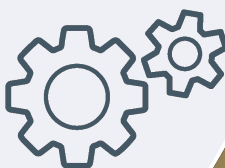
Management Summary (2/2)

Digital Tool

A user-friendly software solution

Enable PFC/FLS
efficiency

1



3



Manage patients
more effectively

5



Reduce medical &
healthcare costs

2



Provide continuity
of care

4



Improve clinical
outcomes

Reduce medical & healthcare costs



Digital Assessment using any device with a browser



Ready to go digital medical letters (pdf) to any involved instance



Easy reporting



Simple upload to national registries



Prepared analytics and deep searches



Access to Lyosis without local installs on PC's and Laptops



Automatic task notifications



Available in 10 languages



English



Spanish



Portuguese



French



German



Italian



Russian



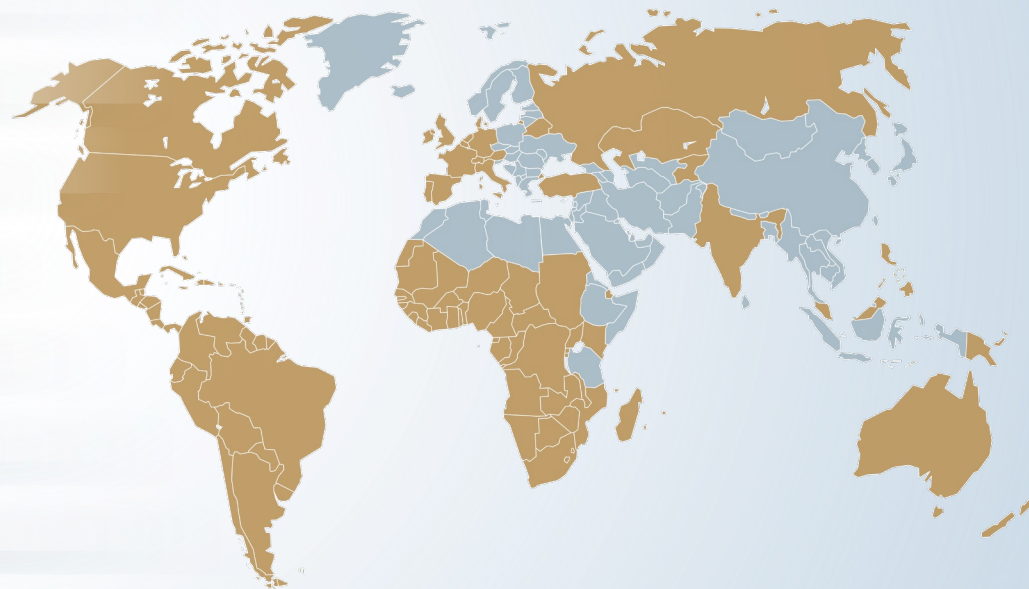
Turkish



Danish



Dutch



Lyosis supports FHIR/HL7 interfacing

» ERP/HIS Systems supporting FHIR/HL7 (selection):

» Epic

» Cerner

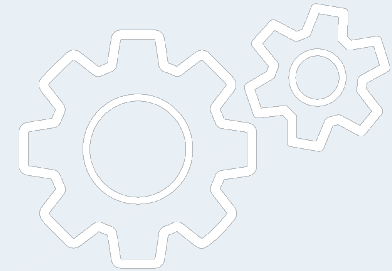
» NetMed

» BestCare

» Opal

» UK Patient Demographic System

» 50+ Other medical solutions worldwide



Features and Functionalities



Dashboard



Powerfull search engine



Administrative



Clinical



Letter generator



Tasks



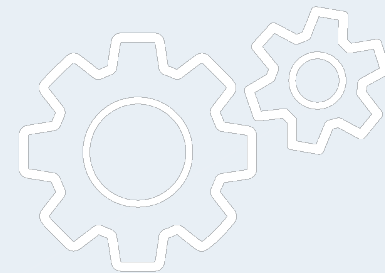
Hospital backend



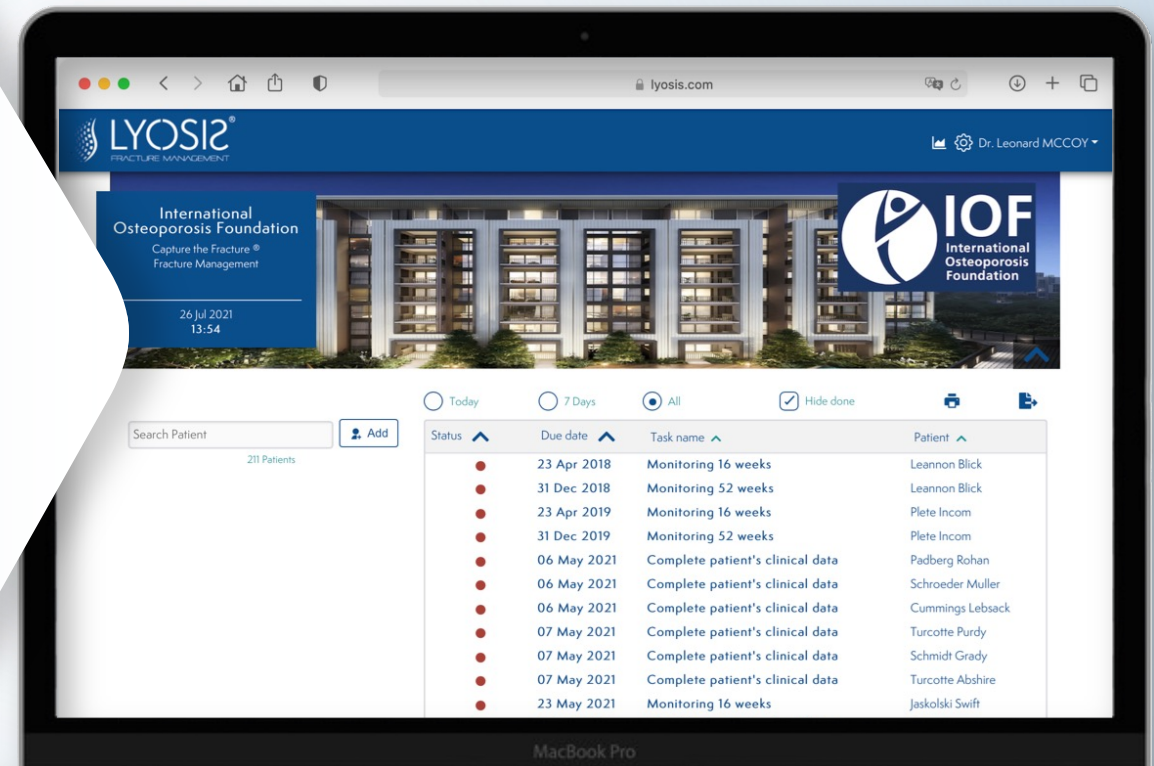
CSV/PDF export function



Backup function



- » Open tasks
- » Add patient
- » Search patient
- » Search results
- » Various filters & export functions



- » Various functionalities
- » Light and full version using the same database
- » Can be switched any time

LYOSIS2[®] FRACTURE MANAGEMENT

Patient name: Leannon BLICK Patient ID: seeder-008-00-9400 Date of birth: 14 Mar 1958 Dr. Leonard MCCOY

Clinical Content > Clinical Assessment

Date of assessment: 2018

1. Index fracture

Date diagnosed: 2018

Hip: ☐

Spine: --NONE--

Other: SHOULDER x UPPER ARM x FOREARM x

Type Fracture: FRAGILITY

Residence at time of fracture: FAMILY HOME

How identified by PFC: OTHER CLINIC

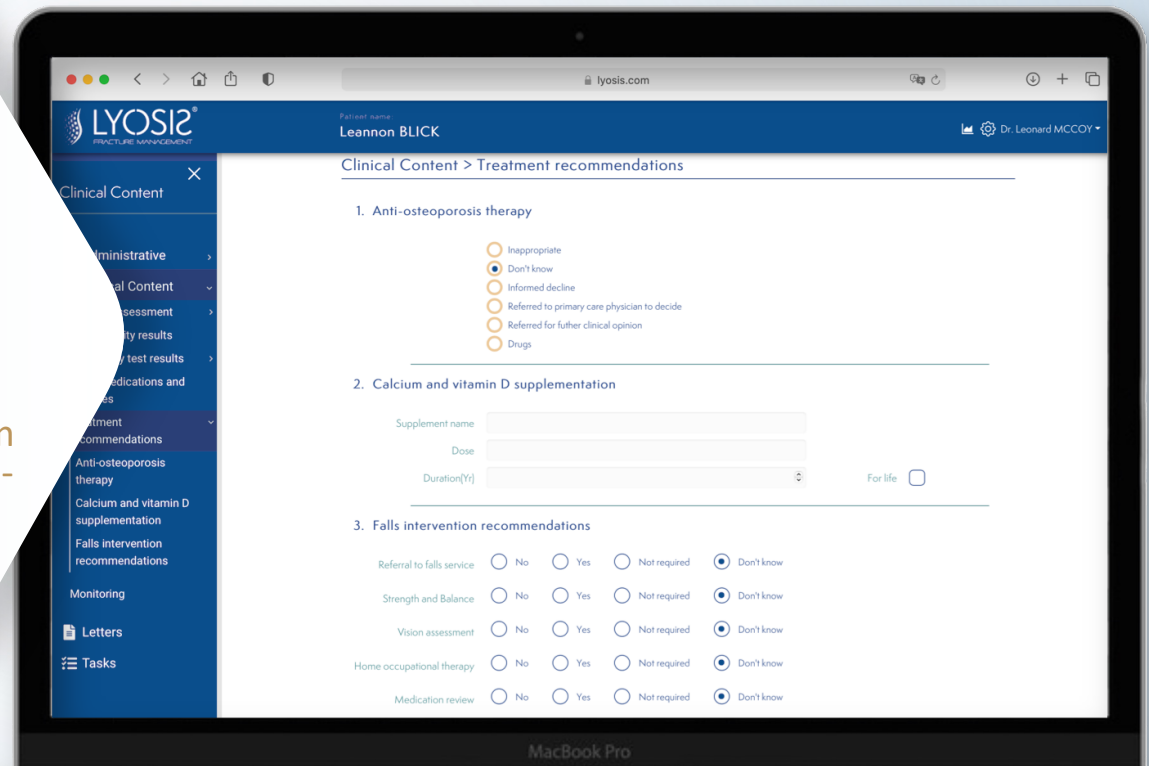
2. Other previous fragility fracture

Site	Date	Type Fracture

MacBook Pro

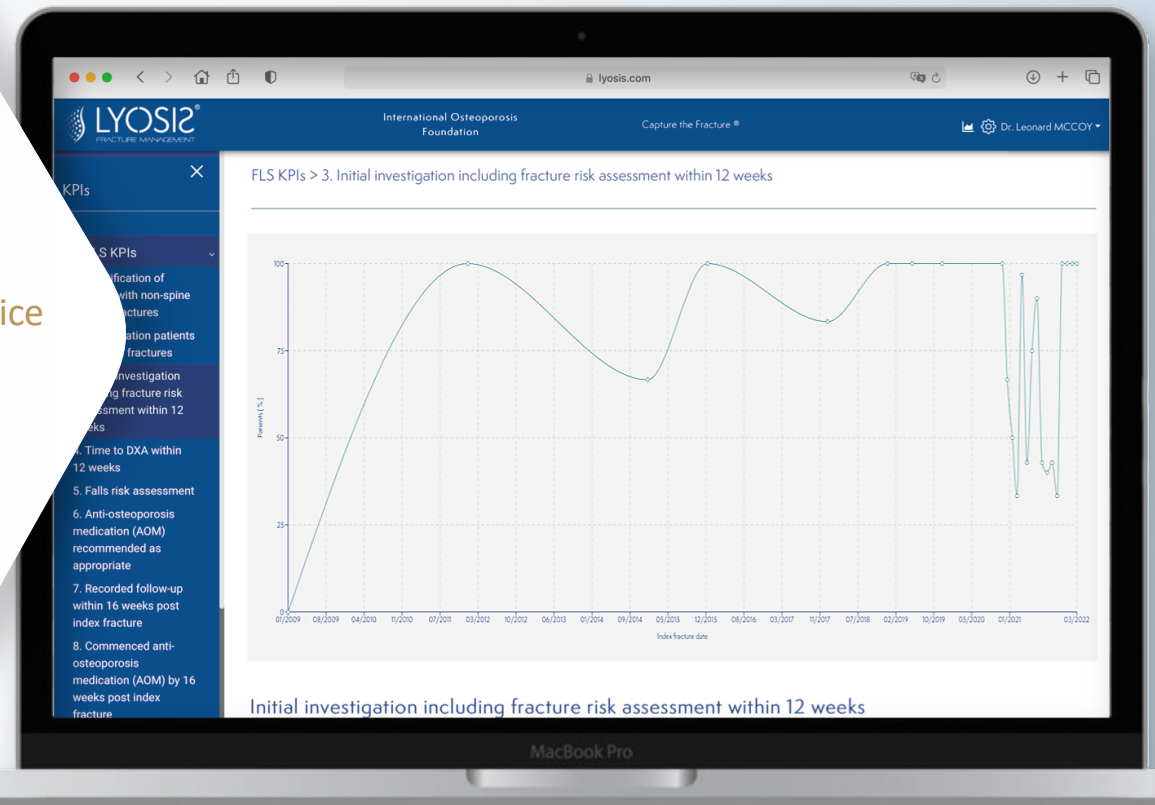
- » Reduced set of data fields
- » Simplified interface
- » Less data to enter
- » You define the subset
- » Customized & Full version are using the same data-base

Customized Version



Display Key Performance Indicators (KPIs)

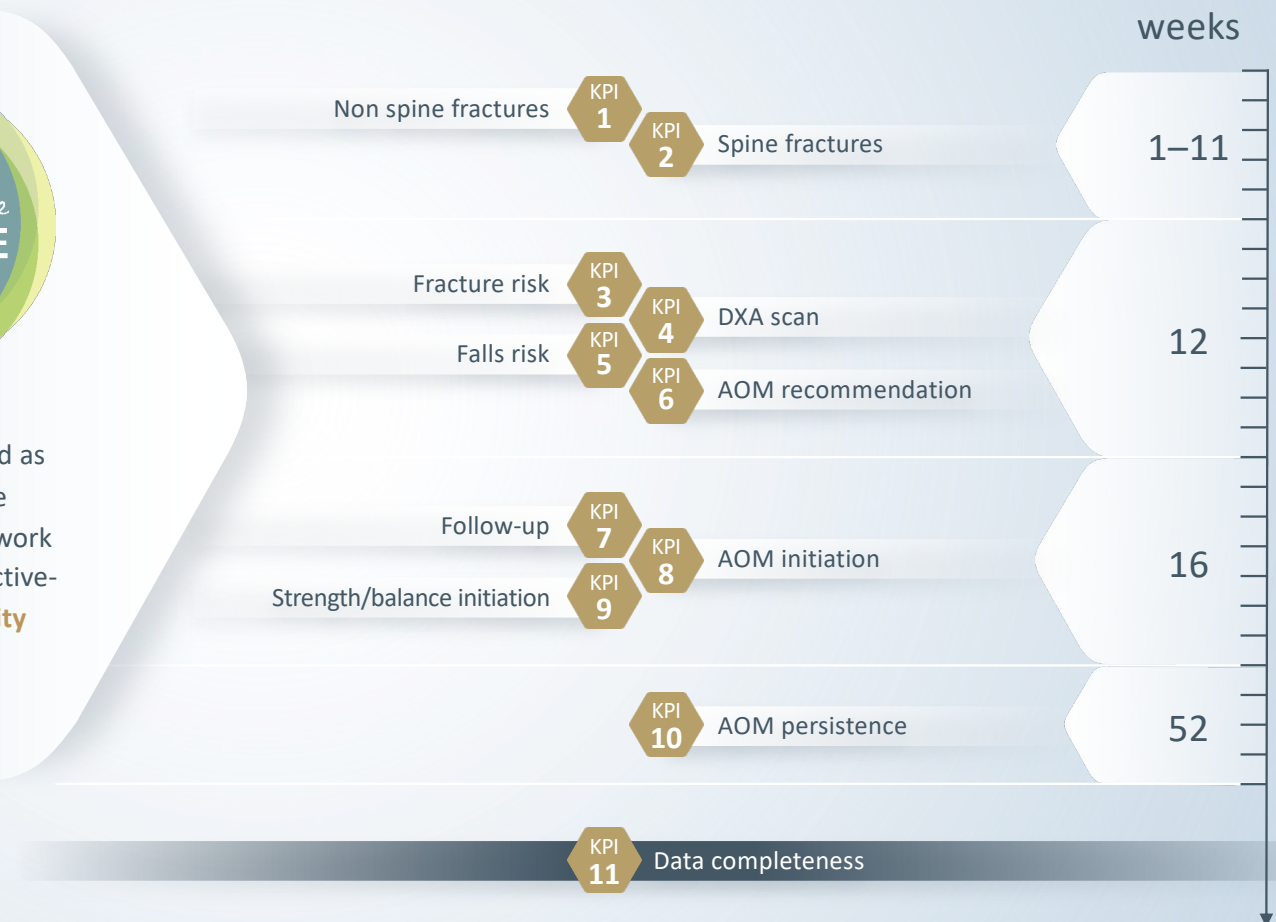
- » Predefined KPIs
- » Based on the FLS service
- » Visible for FLS admins only



IOF
CAPTURE the
FRACTURE

11 KPIs developed as a complement to the Best Practice Framework to measure FLS effectiveness and guide **quality improvement**

Patient-Level Key Performance Indicators



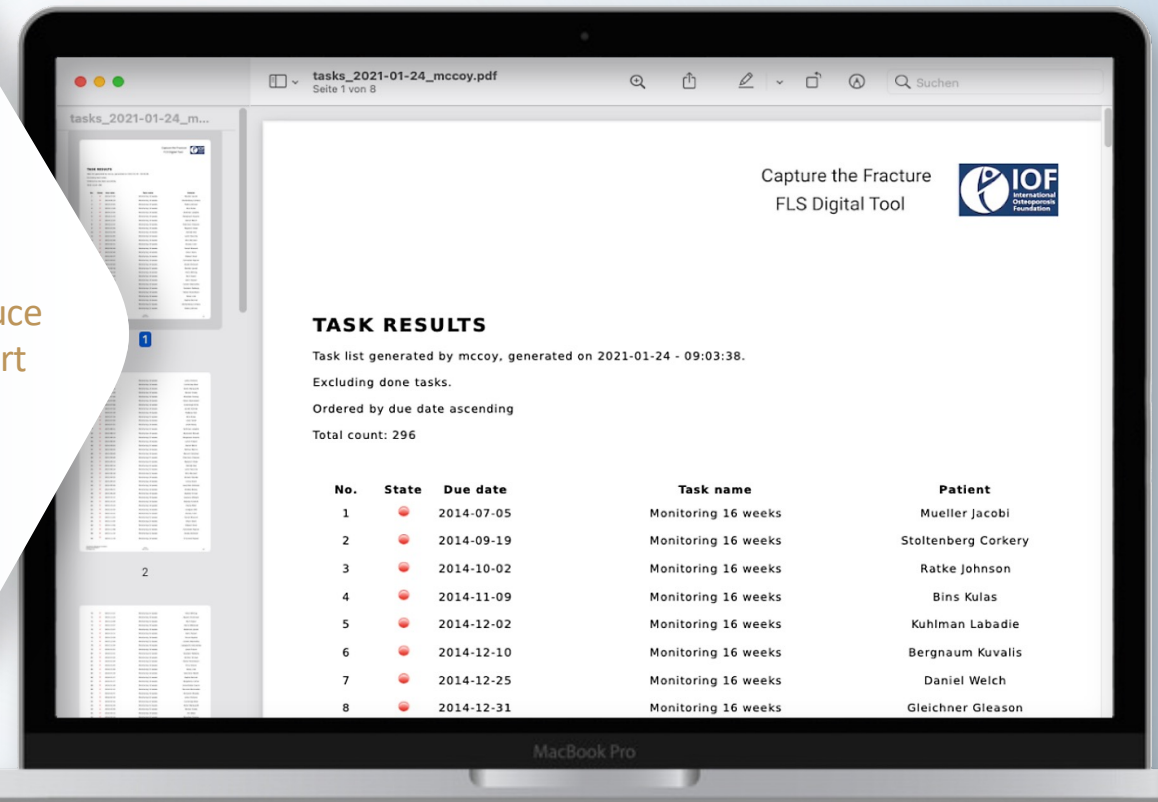
Excel-CSV export of tasks and search results

- » Task list
- » Search results
- » Filter function to reduce scope of data to export

A	B	C	D	E	F	G	H	J	K	L	M	N
07.14	Monitoring 16 weeks	Mueller Jacobi	to do									
09.14	Monitoring 16 weeks	Stoltenberg Corkery	to do									
14.14	Monitoring 16 weeks	Ratke Johnson	to do									
14.14	Monitoring 16 weeks	Bins Kulas	to do									
14.14	Monitoring 16 weeks	Kuhlman Labadie	to do									
14.14	Monitoring 16 weeks	Bergnaum Kuvalls	to do									
14.14	Monitoring 16 weeks	Daniel Welch	to do									
14.14	Monitoring 16 weeks	Gleichner Gleason	to do									
14.14	Monitoring 16 weeks	Bogisich Howe	to do									
14.14	Monitoring 16 weeks	Zemlak Kub	to do									
14.14	Monitoring 16 weeks	Lakin Pacocha	to do									
14.14	Monitoring 16 weeks	Kihn Wuckert	to do									
14.14	Monitoring 16 weeks	Dooley Conn	to do									
14.14	Monitoring 16 weeks	Farrell Wunsch	to do									
14.14	Monitoring 16 weeks	Olson Veum	to do									
14.14	Monitoring 16 weeks	Dibbert Dach	to do									
14.14	Monitoring 16 weeks	Schneider Raynor	to do									
14.14	Monitoring 16 weeks	Grady Ziemann	to do									
14.14	Monitoring 16 weeks	Mueller Jacobi	to do									
14.14	Monitoring 16 weeks	Hintz Witting	to do									
14.14	Monitoring 16 weeks	Koch Sauer	to do									
14.14	Monitoring 16 weeks	Kuhic Russel	to do									
14.14	Monitoring 16 weeks	Corwin Abernathy	to do									
14.14	Monitoring 16 weeks	Goodwin Padberg	to do									
14.14	Monitoring 16 weeks	Parker Runolfsson	to do									
14.14	Monitoring 16 weeks	Kulas Lind	to do									
14.14	Monitoring 16 weeks	Kuphal Bernier	to do									
14.14	Monitoring 16 weeks	Stoltenberg Corkery	to do									
14.14	Monitoring 16 weeks	Ratke Johnson	to do									
14.14	Monitoring 16 weeks	Johns Dickens	to do									

PDF export of tasks and search results

- » Task list
- » Search results
- » Filter function to reduce scope of data to export
- » Hospital header
- » Signed PDF



Maintenance Service Level Agreement (SLA)



About the Contracts



Contracts developed in English & French



Long-Term contracts possible



Contracts to sign are:



License Contract

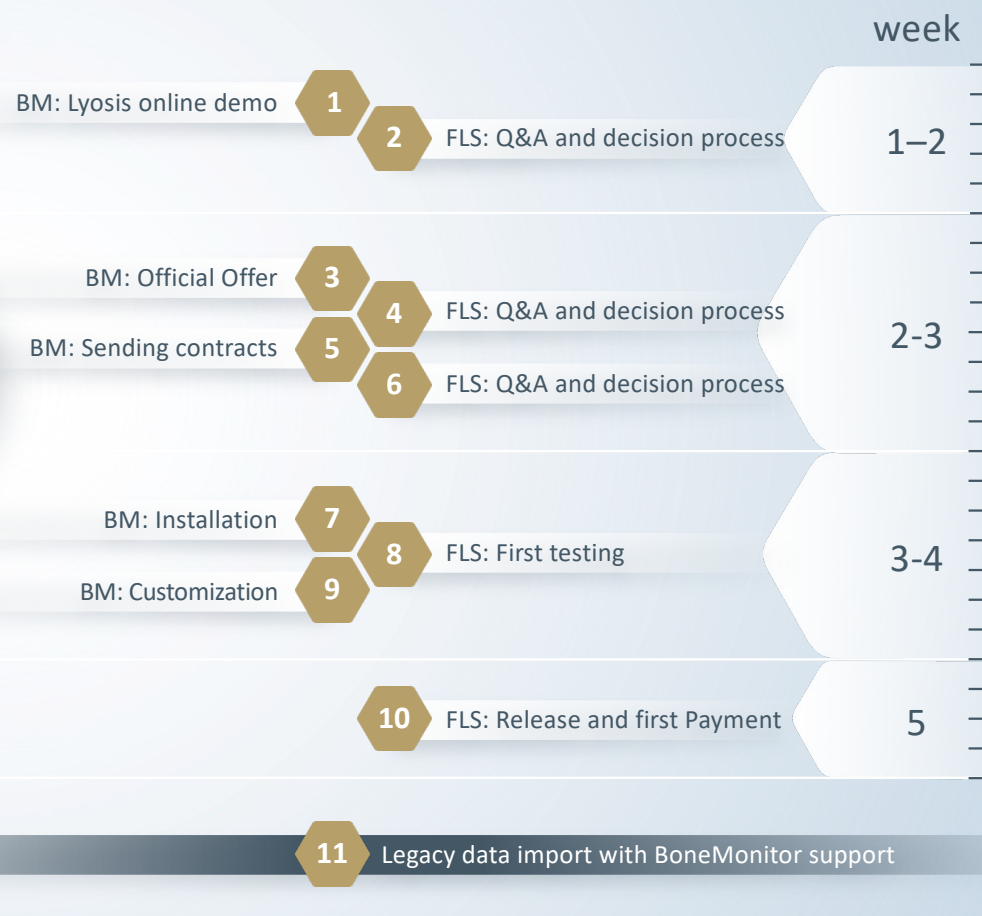


Maintenance Contract

Typical Installation Process and Time

11 Steps from zero
to daily use of Lysis

(est. 4 to 5 weeks total)



Privacy and Security



The Privacy Office: <https://www.tpo.solutions> (Privacy)



ModZero: <https://www.modzero.com> (Security)



BoneMonitor's privacy policy:



<https://bonemonitor.com/policy>



Lyosis Security Standards:



<https://docs.bonemonitor.com/en/resources/security>

Hardware and Software requirements

Hardware/VM requirements

for 100.000 patients with
10 simultaneous users

- » 4 CPU @ 2500MHz
- » 6 GB RAM
- » 200 GB HDD

Required Platforms

- » Linux server
(recommended)
- » Windows Server
- » Mac Server

The App
will be provided
in the format

- » Linux based
docker image
(.tar.gz)

More technical information: docs.bonemonitor.com

Provide us with your feedback

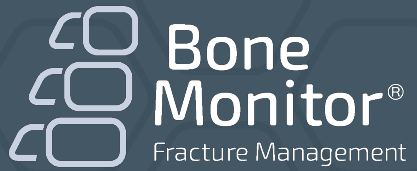
Test it here:

- » www.lyosis.com
- » Login as Dr. Leonard McCoy:
Username » **mccoy** «
Password » **lkjuhz67u** «



More Resources

 [IOF Website](#) [CTF® Website](#) [CTF® Best Practice Framework](#) [CTF® Resource Center](#) [BoneMonitor® Resource Center](#) [CTF® Map of Best Practice](#) [HL7/FHIR medical data exchange standard](#)



Thank you for your
attention



www.bonemonitor.com

For any questions



vCard

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Appendix 1: Features and Functionalities in Detail



Features and Functionalities (1/10)

» General

» Dashboard

» Administrative

» Clinical

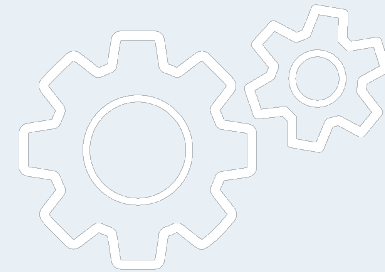
» Letter generator

» Tasks

» Hospital backend

» CSV/PDF export function

» Backup function



Features and Functionalities (2/10)

» General

» Dashboard

» Administrative

» Clinical

» Letter generator

» Tasks

» Hospital backend

» CSV/PDF export

» Backup function

- » **Local web based application**
- » **Java / SQL / Docker based**
- » **CTF Database structure**
- » **Data validators**
- » **Data accuracy checker**
(Business Intelligence)
- » **Data cryptization**
- » **Patients privacy**
(EU-GDPR in preparation)
- » **400+ Database characteristics**
- » **Workflow management**
- » **FHIR/HL7 Data import/export** (coming soon)

- » **Translatable into other languages**
 - » English ready
 - » French in preparation
 - » Others possible
- » **Accessible from**
 - » Windows, Mac OS or Linux
 - » Tablet computer
 - » Browser: Edge, Safari, Firefox & Chrome
- » **Cloud based marketing platform for testing**
- » **Full and light version**
(switchable in field)

Features and Functionalities (3/10)

» General

» Dashboard

» Administrative

» Clinical

» Letter generator

» Tasks

» Hospital backend

» CSV/PDF export

» Backup function

- » **All open Tasks**
- » **Patient search**
- » **Various filters and export functions**
- » **Customizable background picture**

Features and Functionalities (4/10)

» General

» Dashboard

» Administrative

» Clinical

» Letter generator

» Tasks

» Hospital backend

» CSV/PDF export

» Backup function

- » **Primary care physician**
- » **Patient information**
- » **Contact for monitoring**
- » **Insurance coverage**

Features and Functionalities (5/10)

» General

» Dashboard

» Administrative

» **Clinical**

» Letter generator

» Tasks

» Hospital backend

» CSV/PDF export

» Backup function

» **Clinical Assessment**

- » Index fracture
- » Other previous fragility fracture
- » Fracture risk factors / FRAX score
- » Vertebral fracture features
- » Previous osteoporosis therapy
- » Comorbidities – General
- » Fall risk factors
- » Calcium intake
- » Examination findings

» **Bone Density Results**

» **Laboratory test results**

- » Core tests
- » Additional tests

» **Current Data**

» **Treatment recommendations**

- » Anti-osteoporosis therapy
- » Calcium and vitamin D supplementation
- » Falls intervention recommendations

» **Monitoring**

- » 16 weeks monitoring
- » 52 weeks monitoring
- » (Timeframes are configurable)

Features and Functionalities (6/10)

» General

» Dashboard

» Administrative

» Clinical

» Letter generator

» Tasks

» Hospital backend

» CSV/PDF export

» Backup function

- » **Did not attend**
- » **FLS evaluation and treatment recommendation**
- » **Letter to physician**
- » **Invitation for DXA**
- » **Invitation for FLS assessment**
- » **Monitoring outcome at 16 weeks**
- » **Monitoring outcome at 52 weeks**
- » **Change in treatment recommendation (Patient)**
- » **Change in treatment recommendation (Physician)**
- » **Treatment recommendation**
- » **Out of area letter**

Features and Functionalities (7/10)

» General

» Dashboard

» Administrative

» Clinical

» Letter generator

» Tasks

» Hospital backend

» CSV/PDF export

» Backup function

» **Patient related tasks**
» **With various filters**
» **Export functions**

Features and Functionalities (8/10)

» General

» Dashboard

» Administrative

» Clinical

» Letter generator

» Tasks

» Hospital backend

» CSV/PDF export

» Backup function

- » Setup of all FLS related settings
- » Background Picture configuration
- » Roles Management
- » Users Management
- » Rights Management
- » Hospital KPIs

Features and Functionalities (9/10)

» General

» Dashboard

» Administrative

» Clinical

» Letter generator

» Tasks

» Hospital backend

» CSV/PDF export

» Backup function

- » **Tasks list**
- » **Search results**
- » **Filter functionality**
- » **Hospital header**
- » **Digitally signed PDF**

Features and Functionalities (10/10)

» General

» Dashboard

» Administrative

» Clinical

» Letter generator

» Tasks

» Hospital backend

» CSV/PDF export

» Backup function

» Daily backup of data

» Daily backup of full Image