



User guide of new functionalities

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IA injection

Introduction.

This new module is introduced to have a better overview of all intra-articular injections given to a patient.

The IA Injection module contains a mannequin with 53 joints and the history of intra-articular injections.

First step.

To make this module active the site administrator has to adjust the profiles for the appropriate groups by ticking “can view injections” in the properties list (front and back) and then saving.

Logout Close

METEOR Welcome Search Patient Reports Profile Administrate

Administrate

Menu

- Users
- Groups
- Profiles**
- Import and Export
- Synchronization

Administrate Profiles

Profiles

- Administrator
- Synchronize with benchmark data
- Patient view
- rheumatologists**
- nurses
- secretaries
- Doctor
- Research Nurse

Profile card

Name

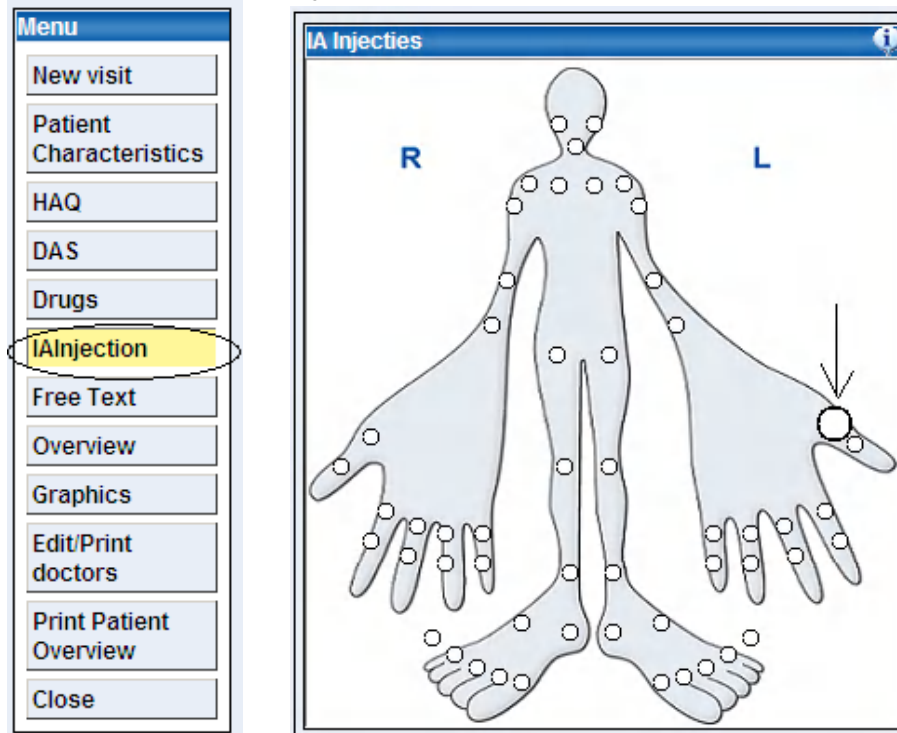
Description

Properties List

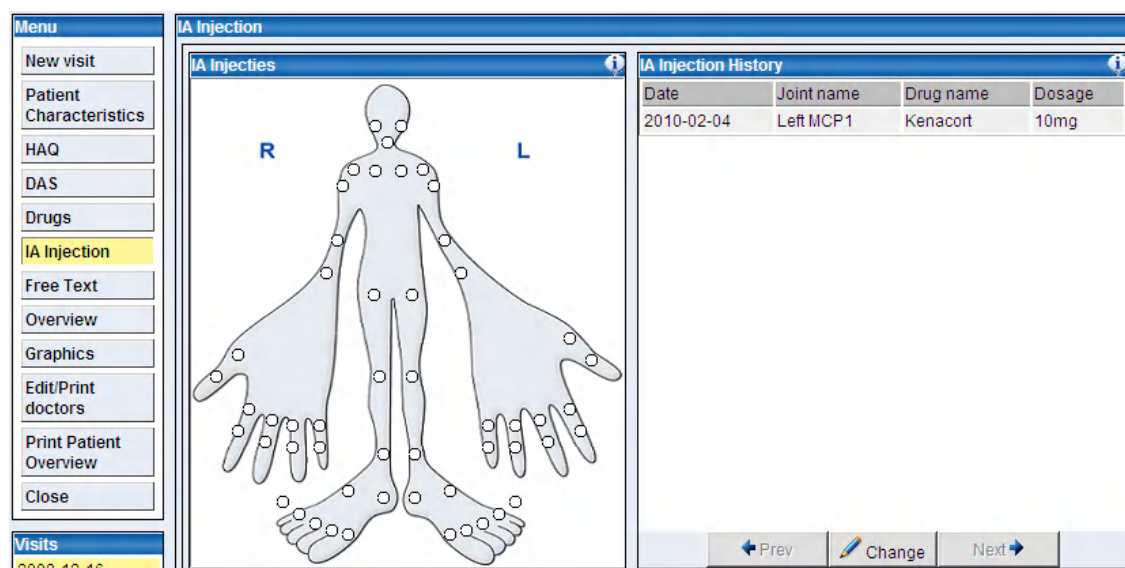
☐	Administrator	☐
☒	Patient Administrator	☒
☐	Can synchronize	☐
☒	Can search patients	☒
☒	Can create visits	☒
☐	auto create visit	☐
☐	Can change visits	☒
☒	Can view demographic data	☒
☒	Can view HAQ	☒
☐	Can view extended HAQ	☒
☒	Can view DAS	☒
☒	Can view drugs	☒
☒	Can view injections	☒
☒	Show Free Text	☒
☒	Can view overview	☒
☒	Can view graphic	☒

How to use this functionality?

Start by clicking the IA Injection-button in the menu.

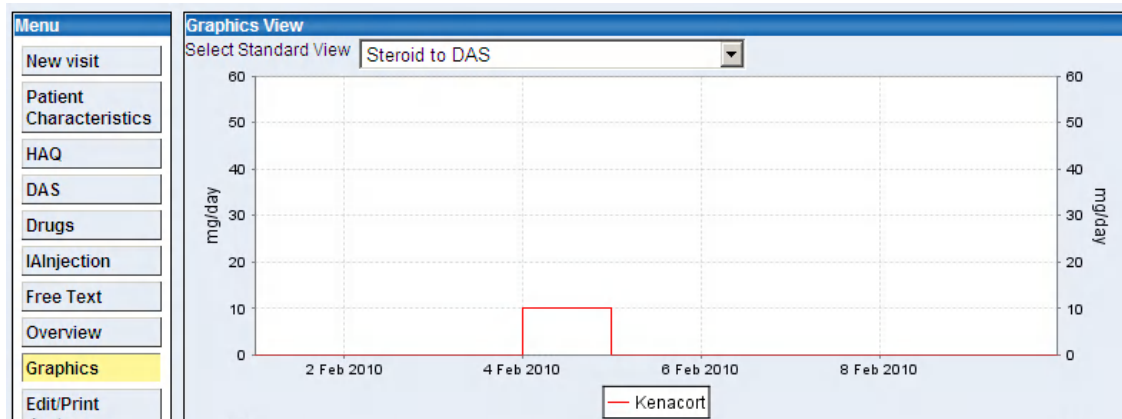


By clicking the selected joint a pop up screen will immediately appear to add a drug. After saving the drug the injection history (date, joint name and prescribed drug) will appear in the overview on the right side of the screen.



The prescribed drug will also be visible in the Drugs module and in the Graphics module.

Menu	Drugs	Drug category filter
New visit	Start Er Kenacort 10mg/ml 1 Intra-articular injections 1x a day 2010-02-04 20	☐ STEROID
Patient Characteristics		
HAQ		
DAS		
Drugs		
IAInjection		
Free Text		
Overview		
Graphics		
Edit/Print doctors		
Print Patient Overview		
Close	Prev Add Change Suspend Next	Select all Deselect all Apply filter



Please be aware that visits in the menu only refer to visits with DAS scores.

Recording surgery data

This module enables you to record specific rheumatoid arthritis surgeries for 53 joints. The module contains a mannequin with 53 joints and an overview of all registered surgeries. In the next steps we'll describe the usage of the surgery module.

Activating the surgery module

To make this module active, the site administrator has to adjust the profiles for the appropriate groups by ticking "can view Surgery" in the properties list (both left hand and right hand column) and then saving.

The screenshot shows the METEOR Administrate Profiles interface. The top navigation bar includes 'Welcome', 'Search Patient', 'Hameren B.', 'Reports', 'Profile', and 'Administrate'. The user is logged in as 'User:jgpeeters'. The left sidebar contains a 'Menu' with options: 'Users', 'Groups', 'Profiles' (highlighted), 'Import and Export', 'Process Patient Data', and 'Synchronization'. The main area is titled 'Administrate Profiles' and contains a 'Profiles' list on the left and a 'Profile card' on the right. The 'Profiles' list includes 'Administrator', 'Synchronize with benchmark data', 'Patient view', 'rheumatologists' (highlighted), 'nurses', 'secretaries', 'Doctor', and 'Research Nurse'. A red arrow points from the 'rheumatologists' profile to the 'Properties List' on the right. The 'Profile card' for 'rheumatologists' shows a 'Name' field with 'rheumatologists' and a 'Description' field. Below the 'Profile card' is the 'Properties List' table, which has two columns of checkboxes. The 'Can view Surgery' checkbox is checked in both columns. At the bottom of the 'Properties List' is a 'Dasmodel' dropdown menu set to '53/44 joints'. A 'Save' button is at the bottom right of the 'Properties List'.

Properties List		
☐	Can change visits	☒
☒	Can view demographic data	☒
☒	Can view HAQ	☒
☐	Can view extended HAQ	☒
☒	Can view DAS	☒
☒	Can view drugs	☒
☒	Can view injection	☒
☒	Can view Surgery	☒
☒	Show Free Text	☒
☒	Can view overview	☒
☒	Can view graphic	☒
☒	Can Edit/Print Doctors	☒
☒	Can print patient overview	☒
☒	Can make reports	☒
☒	Can change own profile	☒
☐	Dasmodel	53/44 joints

Using the surgery module

When you press the button “Surgery” the Surgery module opens. On the left side the mannequin is displayed and on the right an overview of all surgeries

Logout Rheumatology Record Close

METEOR Welcome Search Patient Hameren B. Reports Profile Administrate

Patient : 1234321 Bert Hameren User:jgpeeters

Menu

New visit

Patient Characteristics

HAQ

DAS

Drugs

IA Injection

Surgery

Free Text

Overview

Graphics

Edit/Print doctors

Print Patient Overview

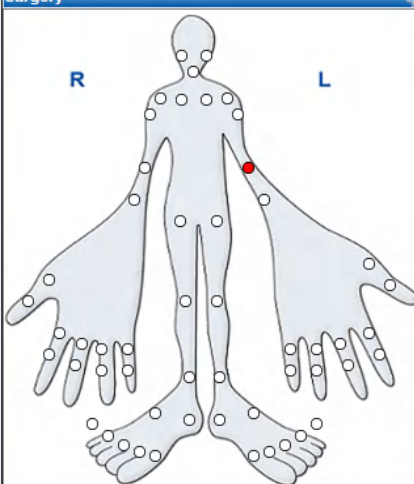
Close

Visits

2010-07-28

2009-07-29

Surgery



Surgery History

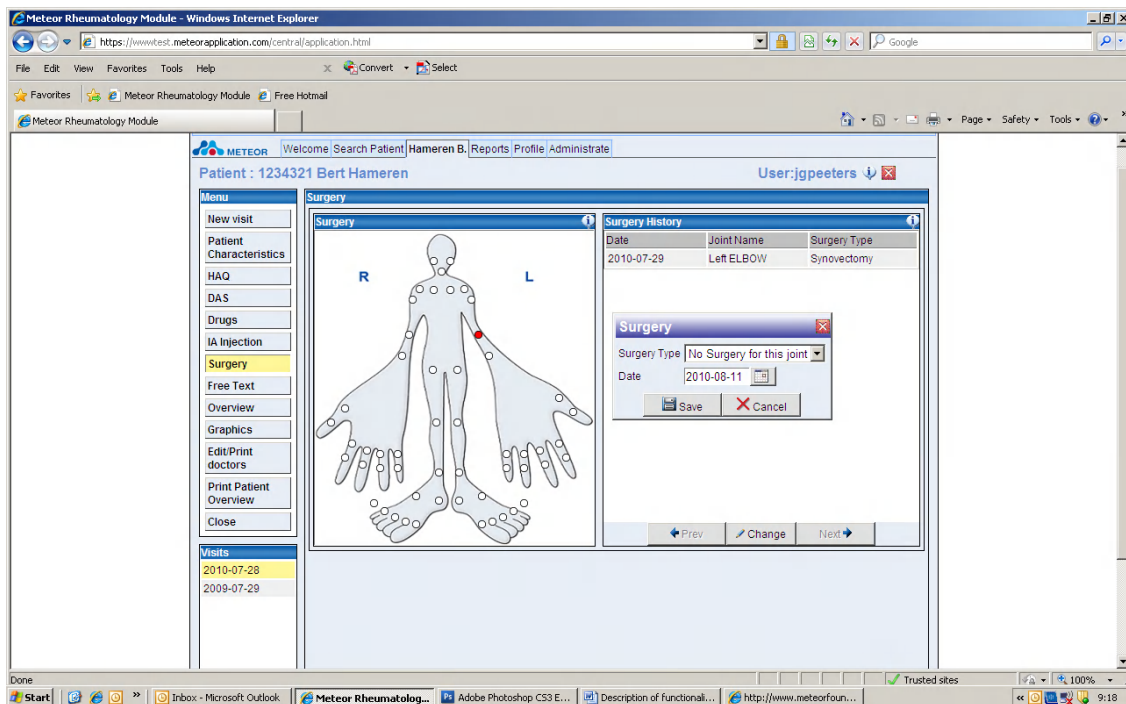
Date	Joint Name	Surgery Type
2010-07-29	Left ELBOW	Synovectomy

Prev

Change

Next

Record a surgery



By clicking a joint a screen pops up. In this screen the user can select the surgery type and enter the date of the surgery..

The possible surgeries are: Arthrodesis, Lavage, Synovectomy, Tenosynovectomy, Other and Joint replacement. Next to this there are 2 specific surgeries, "Neck Surgery" this option can only be selected when selecting the "Neck joint" and "Joint replacement revision". This surgery can only be selected after registering a "Joint replacement" surgery.

Overview of all surgeries

After registering a Arthrodesis, Lavage, Synovectomy, Tenosynovectomy, Other or Neck surgery, the selected joint is shown red.

When a “Joint replacement” or “Joint replacement revision” surgery is selected, the joint is shown black.

In the Surgery history an overview is shown of all registered surgeries for the selected patient ordered by date.

Patient : 1234321 Bert Hameren User:jgpeeters

Menu

New visit

Patient Characteristics

HAQ

DAS

Drugs

IA Injection

Surgery

Free Text

Overview

Graphics

Edit/Print doctors

Print Patient Overview

Close

Surgery

Surgery History

Date	Joint Name	Surgery Type
2010-08-11	Right ELBOW	Joint Replacement
2010-08-11	Left AC	Lavage
2010-08-11	Right HIP	Joint Replacement
2010-08-11	Right ELBOW	Joint Replacement Revision
2010-07-29	Left ELBOW	Synovectomy

Prev Change Next

Visits

2010-07-28

2009-07-29

Replacement surgeries affecting the DAS module

METEOR Welcome Search Patient Hameren B. Reports Profile Administrate User: jgpeeters

Patient : 1234321 Bert Hameren

Menu

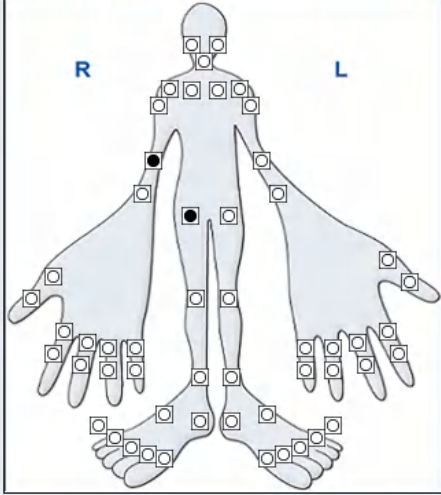
- New visit
- Patient Characteristics
- HAQ
- DAS**
- Drugs
- IA Injection
- Surgery
- Free Text
- Overview
- Graphics
- Edit/Print doctors
- Print Patient Overview
- Close

Visits

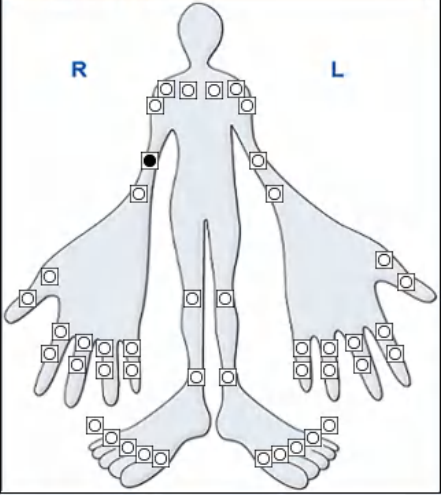
- 2010-08-11
- 2010-07-28
- 2009-07-29

Disease Activity Score (DAS) [visit:Today]

Tender Joints (53)



Swollen Joints (44)



← Prev Page 1 of 2 Next →

Details

ESR		mm/h	TEN28		0	RAI		0	SDAI		DAS(4)		DAS28(4)	
CRP		mg/l	SWOL28		0	Swollen		0	CDAI		DAS(3)		DAS28(3)	

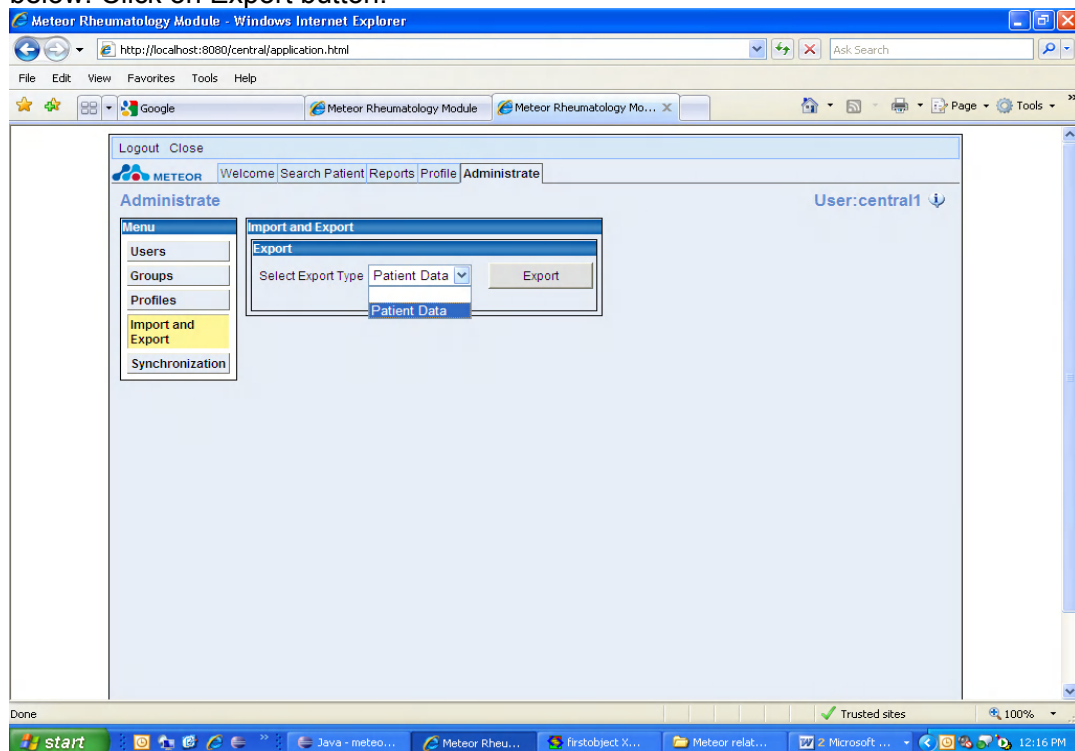
All registered "Replacement" and "Replacement revision" are visible in the DAS module. Replaced joints can no longer be selected for both Tender and Swollen DAS assessment.

Download

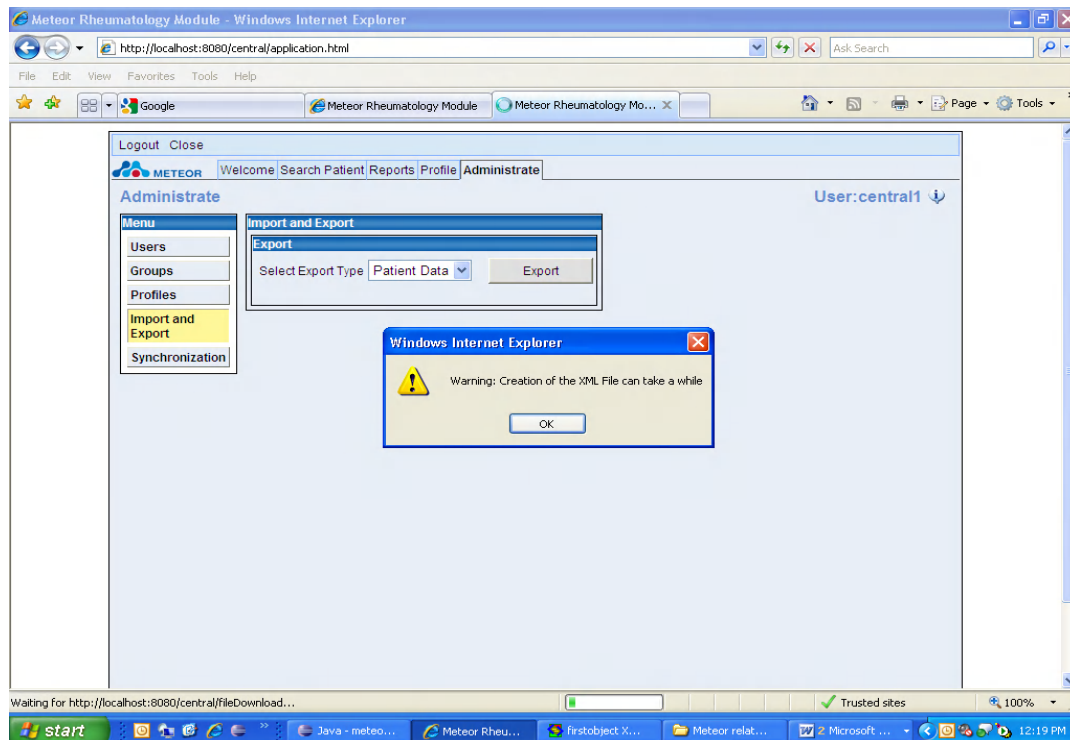
Downloading of the Patient Data in the XML format has been added to the Meteor central application. This downloaded data is site specific. The downloaded XML will have all the data related to the patients which includes all the visits, DAS and HAQ , Drugs prescribed and doctor's Diagnoses text. The steps below will describe how to download the data in the XML format from the application.

Step one: Download site data

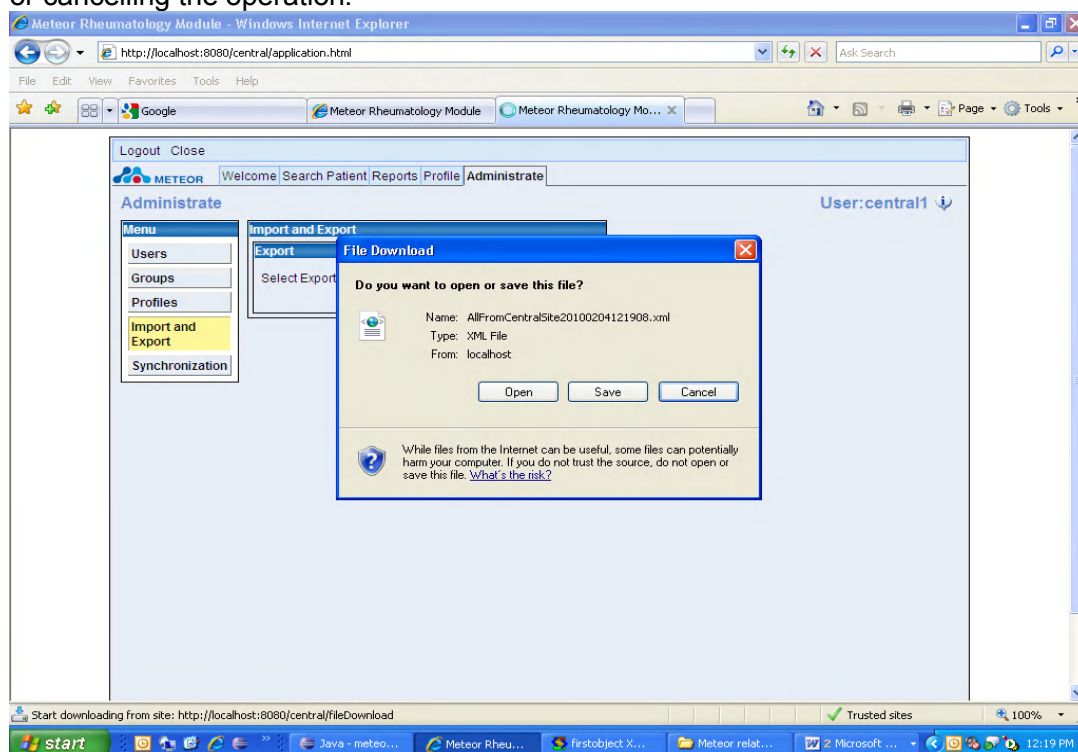
Go to Administrate tab, click on Import and Export menu item. The Import and Export screen appears, in which select export type option is provided. Select Patient Data as below. Click on Export button.



A warning pop-up is shown on click of Export.

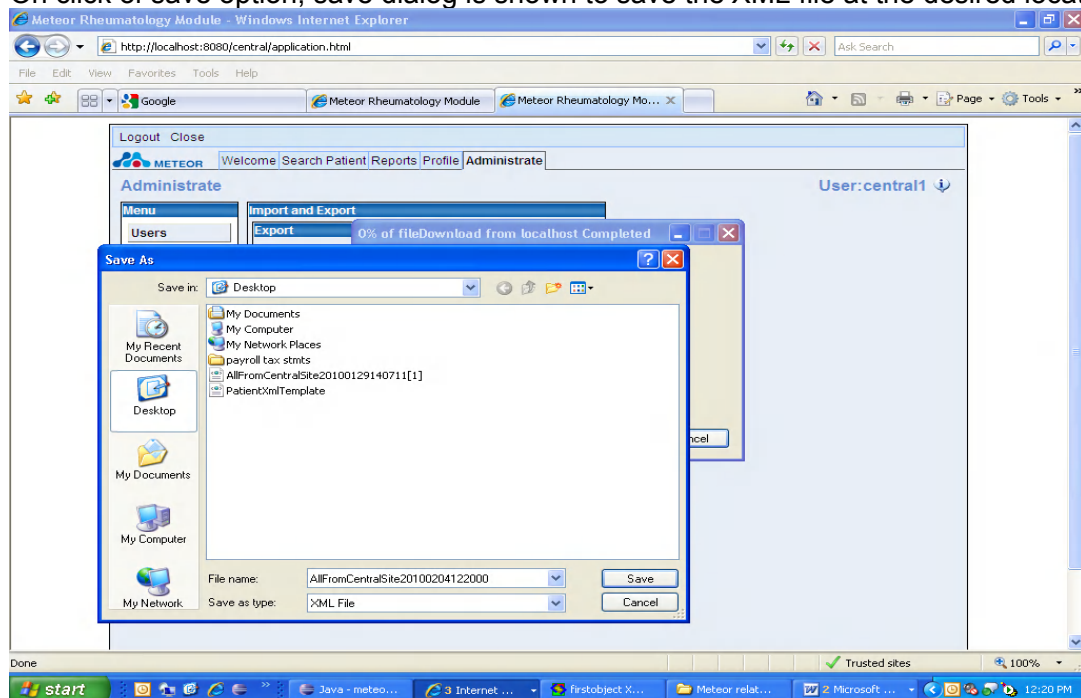


On click of OK in previous warning pop up, a File Download dialog box is shown which provides the options for either opening the XML file or saving it to a destination location or cancelling the operation.

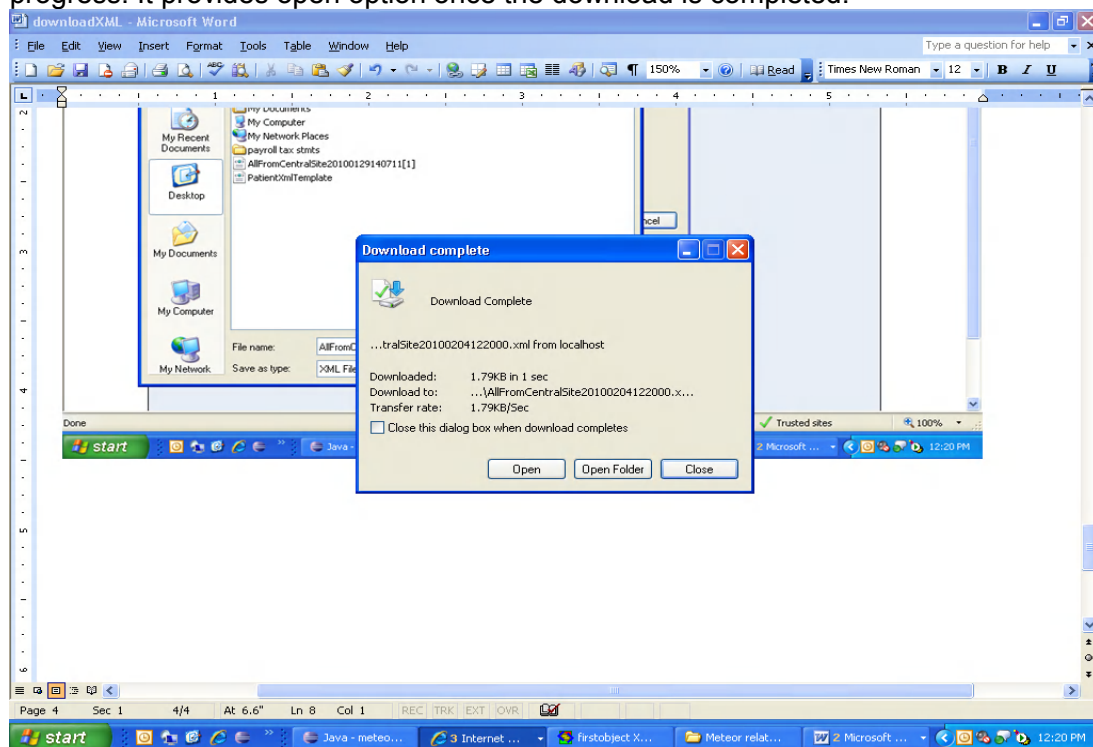


Step two: Saving site data

On click of save option, save dialog is shown to save the XML file at the desired location



After choosing the location, a download dialog box opens and shows the download progress. It provides open option once the download is completed.



Step three Viewing the downloaded information

The downloaded XML file can be viewed on selecting open in the previous dialog. XML file includes patient characteristics like Patient Code, identifier, sex, marital Status, smoking, rheumatoidFactorPresent, antiCCPPresent, erosions Present, first name, last name and city, visit data includes visitDate, DAS and HAQ values. DAS element includes the information about RegisteredSwollenJoints, RegisteredTenderJoints, and pain and assessment scores.



HAQ includes categories, scores and assessment values. Drugs include drug details like DrugID, DrugATC, Drug Form, Drug Name, Drug Strength, DrugStrengthUnitText, Dose, Iteration, Interval, DrugStartDate and Drug Category. Diagnoses include diagnose details like DiagnoseName.

Improvements

Other improvements are:

Verisign Logo

The Verisign logo has been placed on the login screen

Enddate mandatory when defining a reason to stop

Module: Drugs

When a reason is entered to stop a drug the end date is mandatory. (Note that when an end date is added the reason is not mandatory)

Download XML format changes

Several changes in the download XML format

<HAQ_CUT_MEAL>	into <HAQ_CUT_MEAT>
<HAQ_HELP_ERANDS_CHORES>	into <HAQ_HELP_ERRANDS_CHORES>
<HAQ_USE_RAISED_TOILETSEAT>	into <HAQ_USE_RAISED_TOILETSEAT>
<HAQ_GROUP_STANDUP>	into <HAQ_GROUP_ARISING>
<HAQ_ERRANDS>	into <HAQ_RUN_ERRANDS>

CRP max 300

The CRP value is maximized to 300

General: Mark mandatory fields with a red *

All mandatory fields in the patient characteristics screen have a red *

General: Sites are ordered by name on the login screen

Patient: Password + key in seperate part of patient characteristics

The input fields "Password" and "en/decrypt key" are seperated from patient data. A new (blue) header is added under the patient card with these two input fields.