



User guide of new functionalities

March – August 2010

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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.

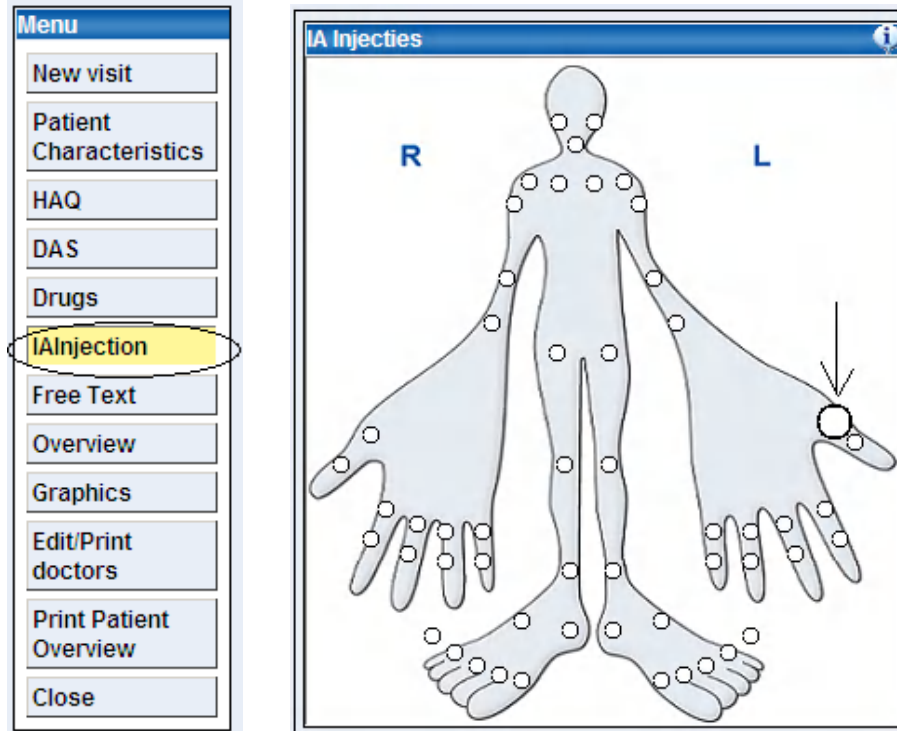
The screenshot shows the METEOR Administrate Profiles interface. The top navigation bar includes 'Logout Close', the METEOR logo, and tabs for 'Welcome', 'Search Patient', 'Reports', 'Profile', and 'Administrate'. The main content area is titled 'Administrate Profiles' and is divided into three sections:

- Menu:** A vertical list of buttons for 'Users', 'Groups', 'Profiles' (highlighted), 'Import and Export', and 'Synchronization'.
- Profiles:** A list of profile names: 'Administrator', 'Synchronize with benchmark data', 'Patient view', 'rheumatologists' (highlighted), 'nurses', 'secretaries', 'Doctor', and 'Research Nurse'. An arrow points to the 'rheumatologists' profile.
- Profile card:** A form for the selected profile, showing 'Name' as 'rheumatologists' and a blank 'Description' field.
- Properties List:** A table of permissions for the 'rheumatologists' profile. The 'Can view injections' checkbox is checked.

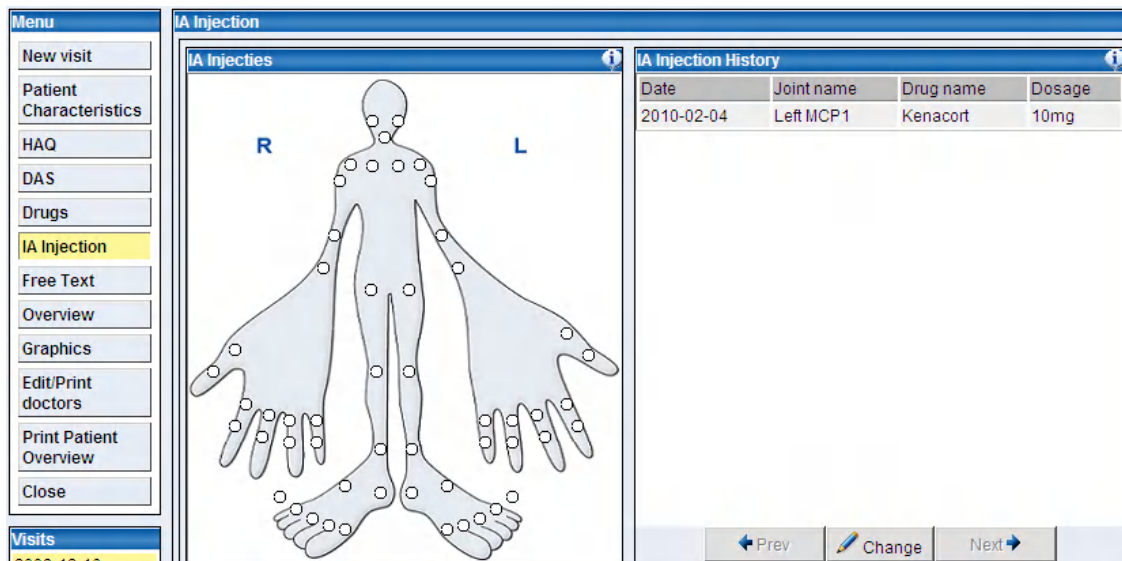
Properties List	
<input type="checkbox"/>	Administrator
<input checked="" type="checkbox"/>	Patient Administrator
<input type="checkbox"/>	Can synchronize
<input checked="" type="checkbox"/>	Can search patients
<input checked="" type="checkbox"/>	Can create visits
<input type="checkbox"/>	auto create visit
<input type="checkbox"/>	Can change visits
<input checked="" type="checkbox"/>	Can view demographic data
<input checked="" type="checkbox"/>	Can view HAQ
<input type="checkbox"/>	Can view extended HAQ
<input checked="" type="checkbox"/>	Can view DAS
<input checked="" type="checkbox"/>	Can view drugs
<input checked="" type="checkbox"/>	Can view injections
<input checked="" type="checkbox"/>	Show Free Text
<input checked="" type="checkbox"/>	Can view overview
<input checked="" type="checkbox"/>	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

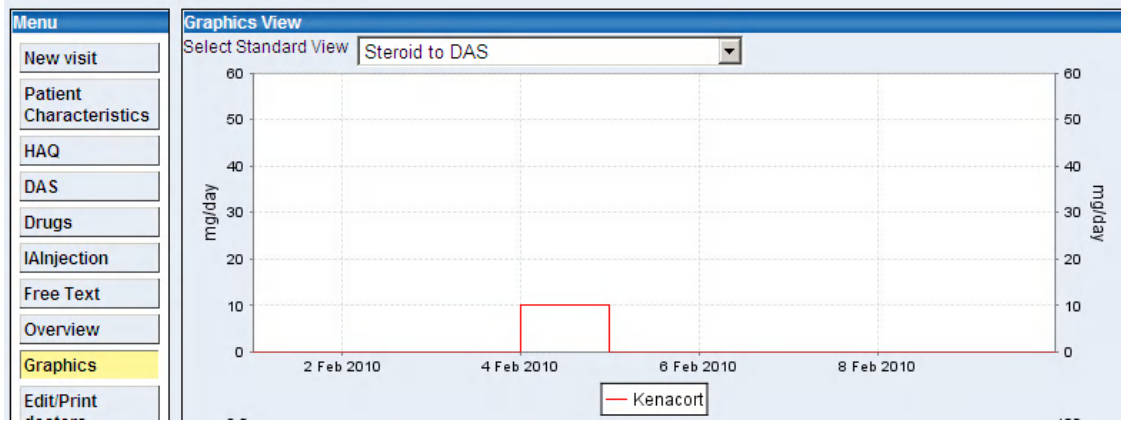
- New visit
- Patient Characteristics
- HAQ
- DAS
- Drugs**
- IAnjection
- Free Text
- Overview
- Graphics
- Edit/Print doctors
- Print Patient Overview
- Close

Drugs

Start	Er
Kenacort 10mg/ml 1 Intra-articular injections 1x a day 2010-02-04 20	

Drug category filter

STEROID



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 Administrate' and the user '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 list of profiles: Administrator, Synchronize with benchmark data, Patient view, rheumatologists (highlighted), nurses, secretaries, Doctor, and Research Nurse. A red arrow points to the 'rheumatologists' profile. To the right, the 'Profile card' for 'rheumatologists' is shown with fields for Name and Description, and a 'Save' button. Below the profile card is the 'Properties List' table:

Property	Value
<input type="checkbox"/> Can change visits	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Can view demographic data	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Can view HAQ	<input checked="" type="checkbox"/>
<input type="checkbox"/> Can view extended HAQ	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Can view DAS	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Can view drugs	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Can view injection	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Can view Surgery	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Show Free Text	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Can view overview	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Can view graphic	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Can Edit/Print Doctors	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Can print patient overview	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Can make reports	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Can change own profile	<input checked="" type="checkbox"/>
<input type="checkbox"/> Dasmodel	53/44 joints

At the bottom of the Properties List, there is a 'Save' button and a dropdown menu showing '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

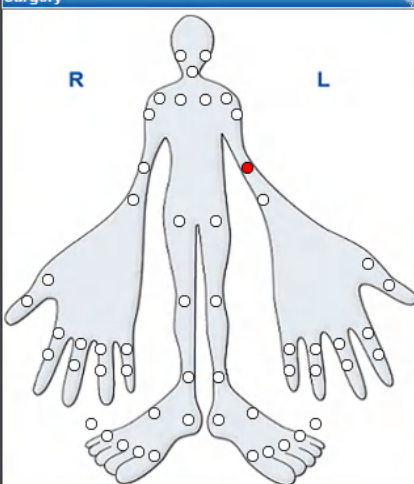
Menu

- 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

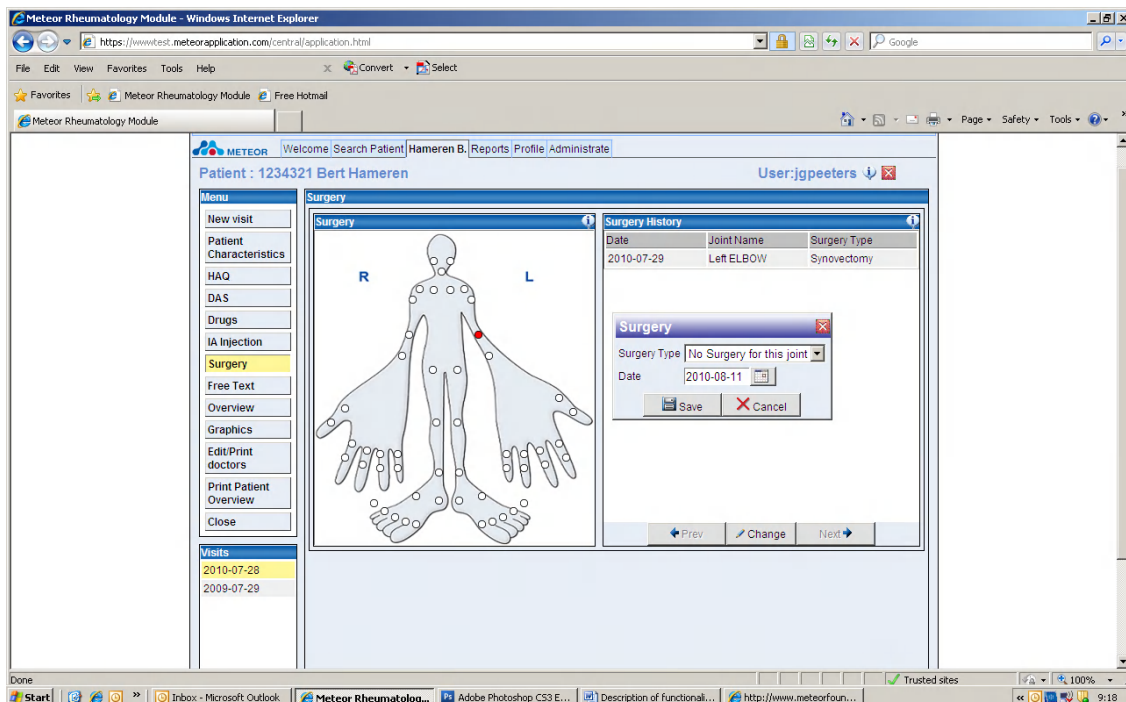


Surgery History

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

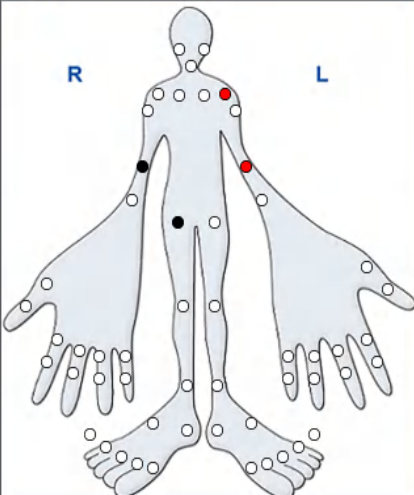
Menu

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

Visits

- 2010-07-28
- 2009-07-29

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 →

Replacement surgeries affecting the DAS module

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

- 2010-08-11
- 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)

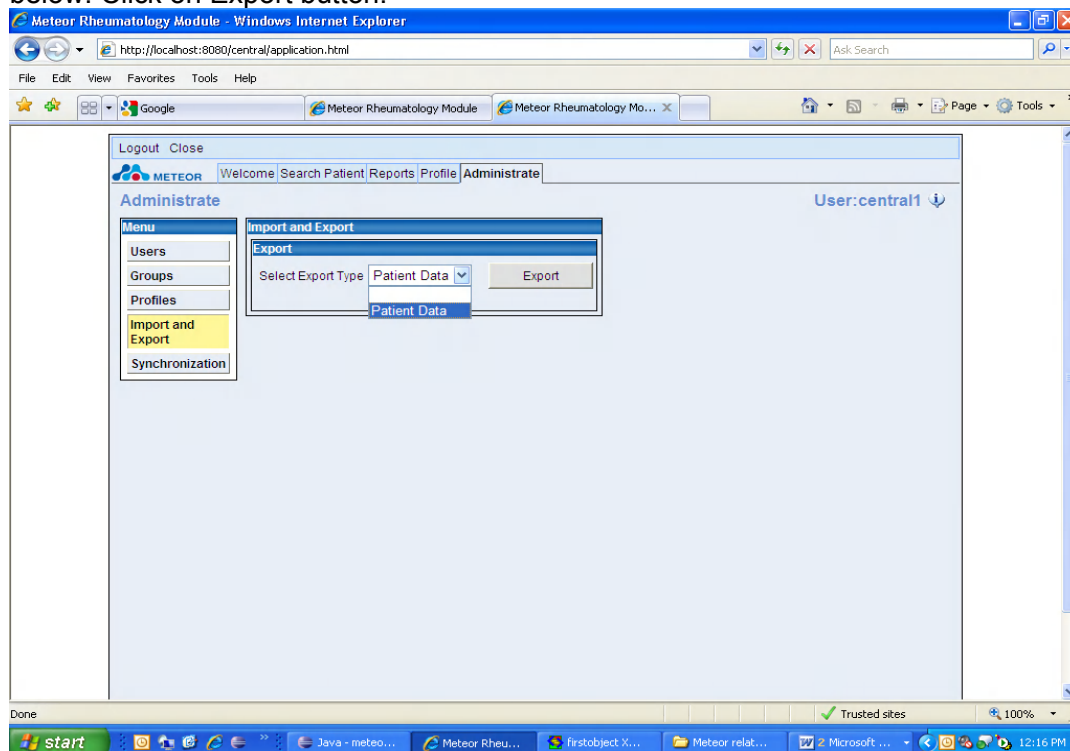
All registered "Replacement" and "Replacement revision" are visible in the DAS module. Replaced joints can no longer be selected for both Tender and Swollen DAS assessment.

Download

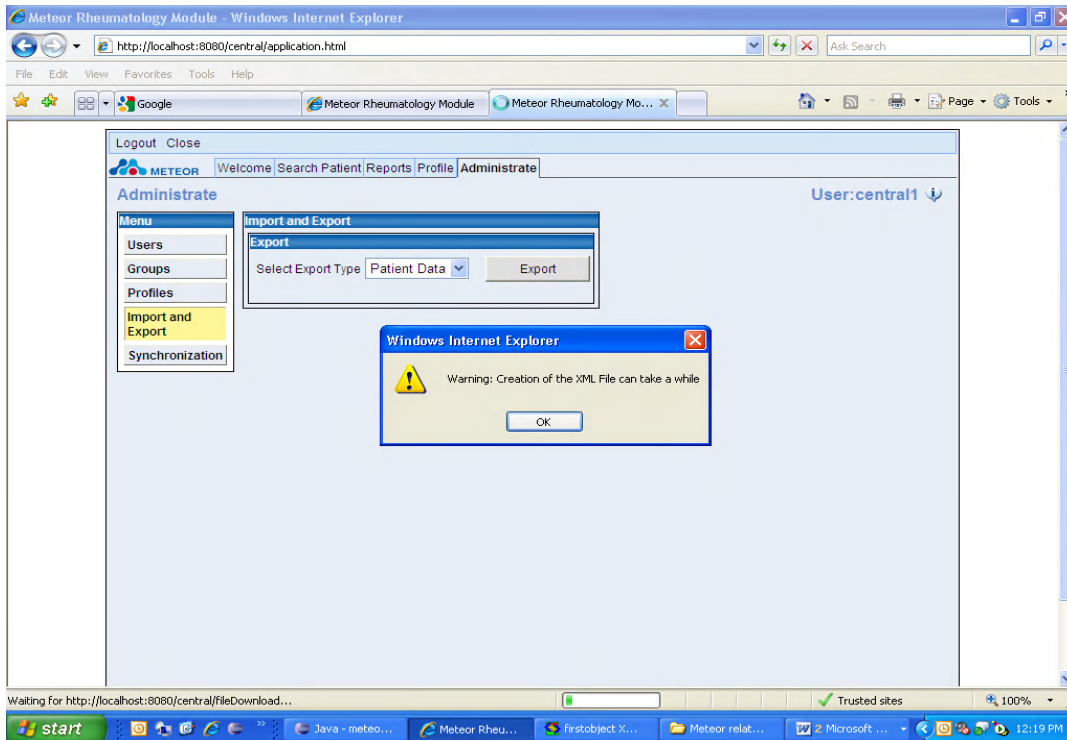
Downloading of the Patient Data in the XML format has been added to the Meteor central application. This downloaded data is site specific. The downloaded XML will have all the data related to the patients which includes all the visits, DAS and HAQ , Drugs prescribed and doctor's Diagnoses text. The steps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

Step one: Download site data

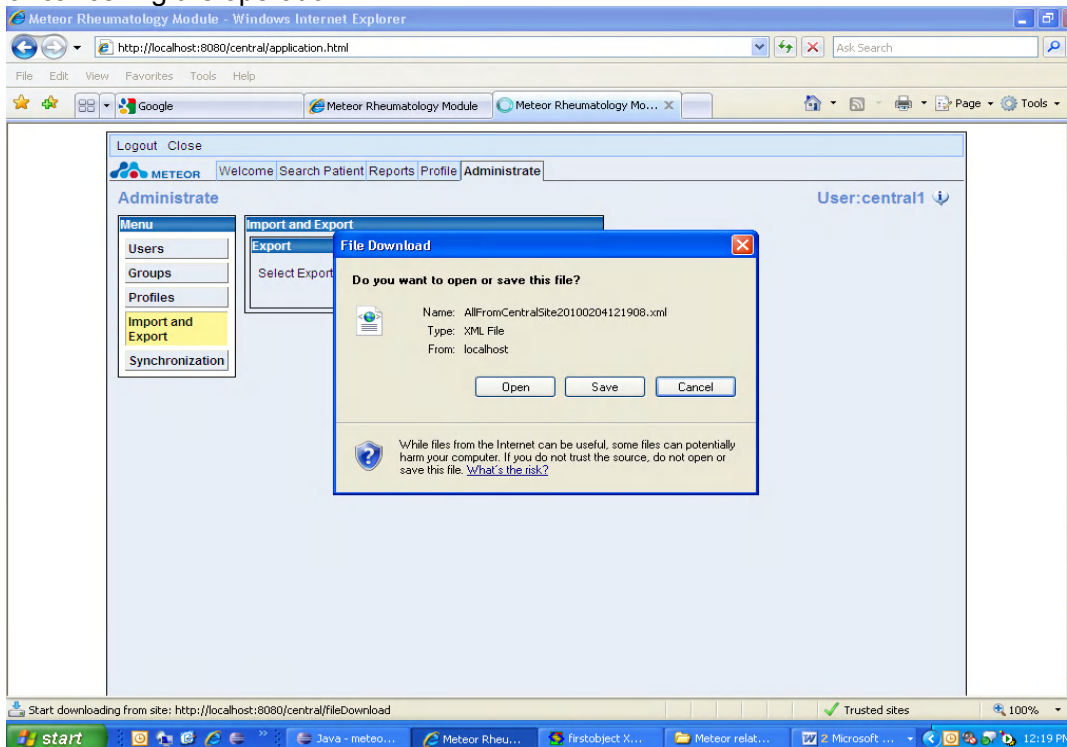
Go to Administrate tab, click on Import and Export menu item. The Import and Export screen appears, in which select export type option is provided. Select Patient Data as below. Click on Export button.



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

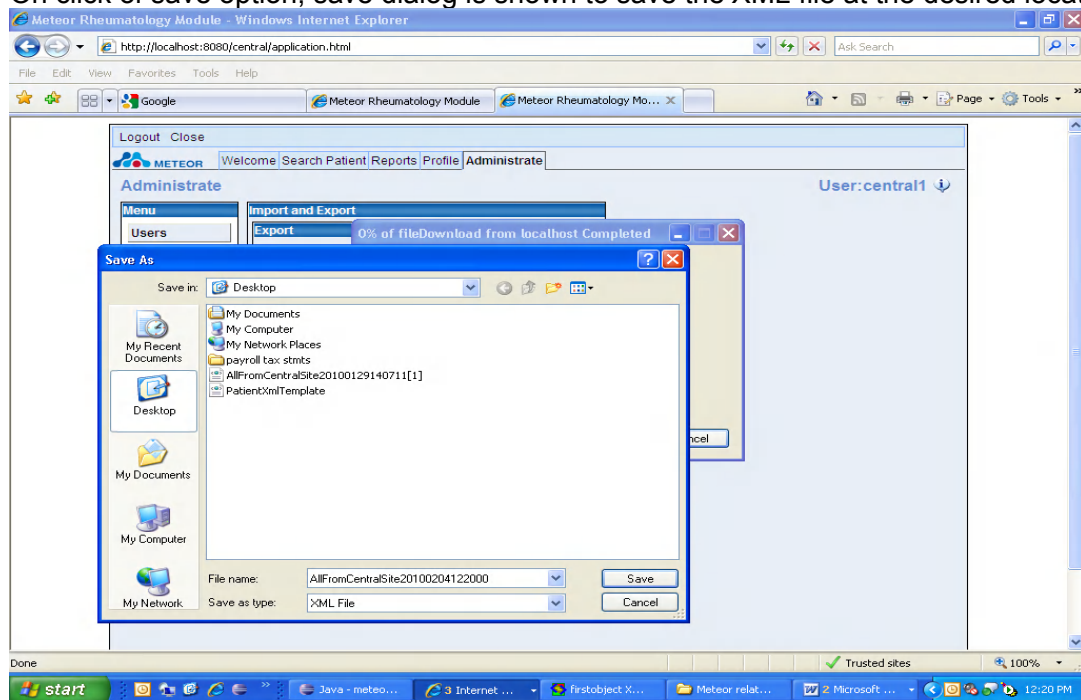


On click of OK in previous warning pop up, a File Download dialog box is shown which provides the options for either opening the XML file or saving it to a destination location or cancelling the operation.

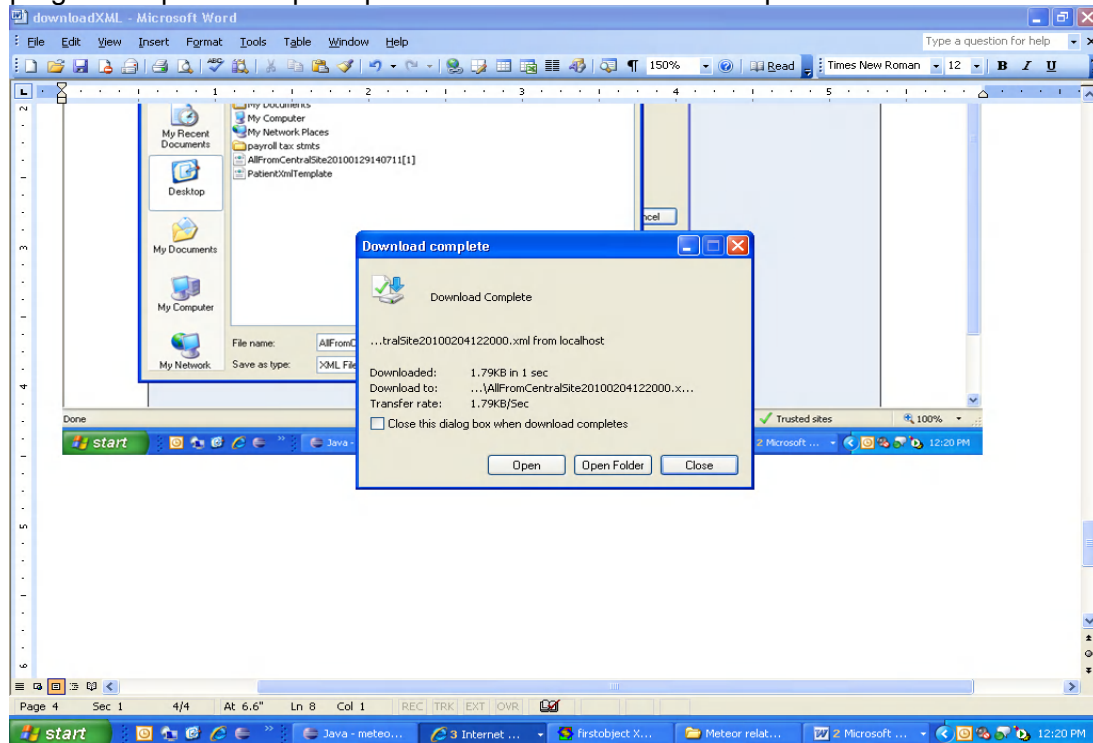


Step two: Saving site data

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.