



Guide generating reports from METEOR

In order to access the reporting function, the user should select the ‘Reports’ tab in the application. This will open a screen which will include a drop-down menu listing the available reports. These are:

Report Name	Brief Description
Basic Patient Data	Presents summary data of the patients included in the database.
DAS and HAQ Statistics	Summarises key DAS and HAQ values for selected patient groups
DAS and HAQ Remission and Low Statistics	Reports the proportion of patients (expressed as %) who are in low or remission ranges as defined by DAS, DAS28, CDAI, SDAI and HAQ values.
DAS Graph Report	Shows the average HAQ, and one of the average DAS, CDAI or SDAI for the selected scope over the selected time range.
Drug Usage Report	Presents drug usage statistics for key drugs, by patients who have taken the drug(s) in the past or who are taking the drug(s) at present

Users of the reporting function can define the scope of selected reports generated from the application. These are:

1. Rheumatologist: including the username’s own patients only
(Data extracted from patient characteristics table)
2. Site: including patients of all rheumatologists registered at that site
3. Country: including patients of rheumatologists registered and using the Application in that Country
4. Meteor Database: including all patients in the system

Furthermore, several additional selection criteria are available for the DAS and HAQ statistics report, the DAS and HAQ Remission and Low Statistics report, and the DAS graph report.

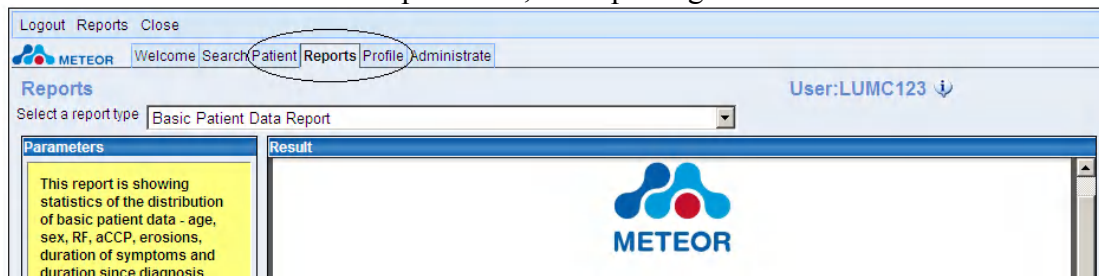
1.1 Authority to access and run reports

In order for users to be able to run reports, they must have appropriate privileges defined in the user profile. Only users who have ‘can make reports’ included in their profile will be able to run the reports outlined above.

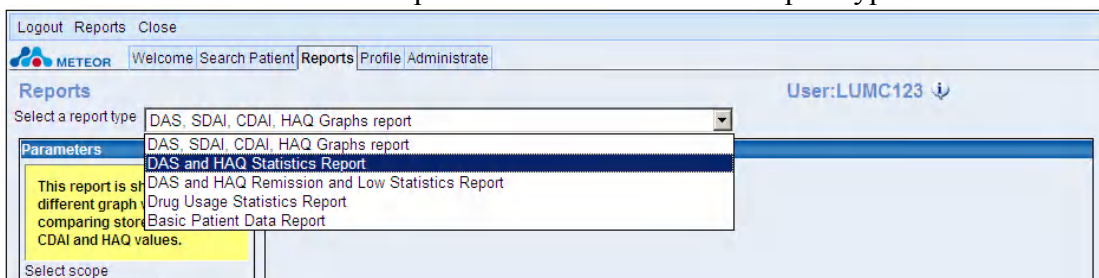
If a user has any questions regarding his/her ability run reports, he/she should refer to the site administrator for advice.

1.2 Accessing reports

Once the user clicks on the 'Reports' tab, the reporting screen will be visible



The user should click on the drop-down menu to select the report type:



Depending on the report selected, the user will then be presented with a range of data filters, to allow him to tailor the report to his needs. These filters vary by report, but include:

- Scope – the patient population to be included. Options are rheumatologist, site, country and Meteor database (all sites in all countries)
- Visits occurring within the selected time windows
- Gender
- Age
- Disease duration
- Presence of erosions, anti-CCP or rheumatoid factor

For the Drug Usage Report, the user can select either 'past usage' of the drug, or 'currently being taken'.

1.3 Running a report

The user should select the required report, and confirm the search criteria. Once these are selected, the user should click 'run'. The report will be generated in the main part of the screen.

Depending on the report chosen, it may be necessary to use the scroll bar on the right-hand side of the screen to view all parts of the report.

Users can also print the chosen report after it is visible on the screen, and can also choose to export the data to MS excel or MS Word formats

1.4 Overview of each report type

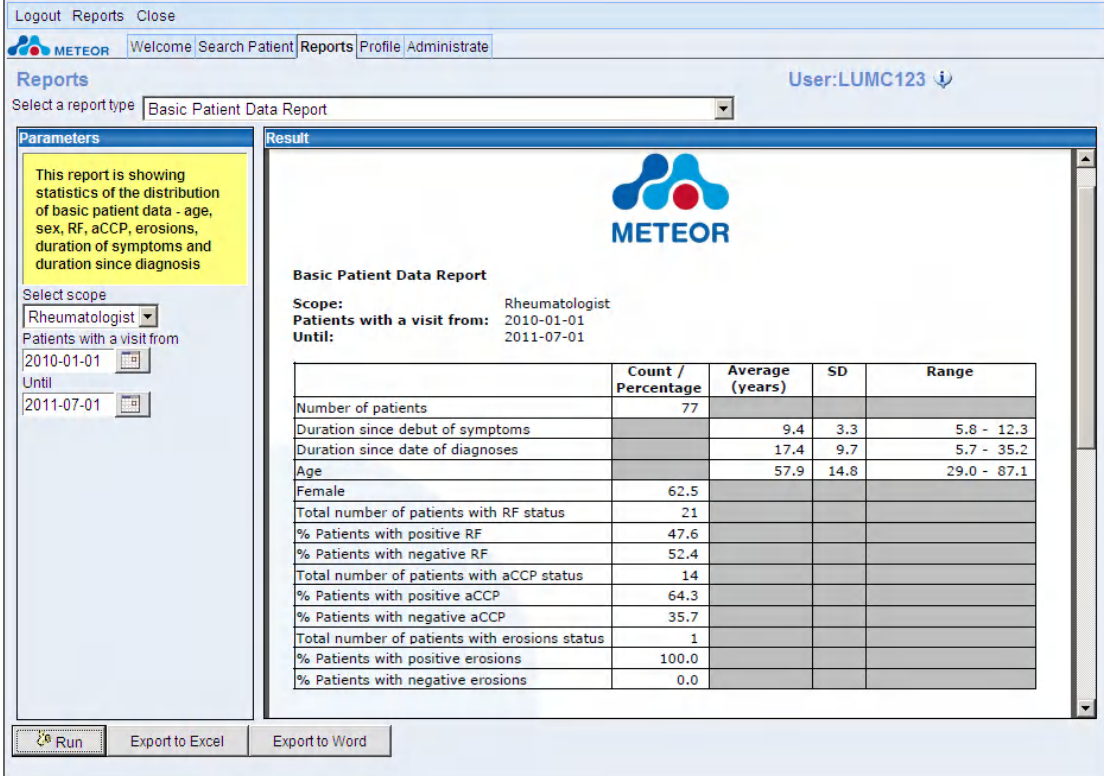
This section provides an overview of the scope and objectives of each report. Example screenshots are included for illustrative purposes.

1.4.1 Basic Patient Data Report

This report presents a demographic overview of the data held in the system. It includes:

- Number and age profile of patients in the selected time frame
- Gender
- Duration since onset of symptoms
- Duration since diagnosis
- Information on erosions, anti-CCP and rheumatoid factor

An example of a completed report is shown below:



The screenshot shows the METEOR software interface. The top navigation bar includes 'Logout Reports Close' and 'Welcome Search Patient Reports Profile Administrate'. The user is identified as 'User:LUMC123'. The 'Reports' section is active, and the 'Basic Patient Data Report' is selected. The 'Parameters' section on the left provides configuration options: 'Select scope' (Rheumatologist), 'Patients with a visit from' (2010-01-01), and 'Until' (2011-07-01). The 'Result' section on the right displays the METEOR logo and the report title 'Basic Patient Data Report'. Below the title, the report scope is defined as 'Rheumatologist' with a visit from '2010-01-01' until '2011-07-01'. A table of results is shown below, with columns for 'Count / Percentage', 'Average (years)', 'SD', and 'Range'.

	Count / Percentage	Average (years)	SD	Range
Number of patients	77			
Duration since debut of symptoms		9.4	3.3	5.8 - 12.3
Duration since date of diagnoses		17.4	9.7	5.7 - 35.2
Age		57.9	14.8	29.0 - 87.1
Female	62.5			
Total number of patients with RF status	21			
% Patients with positive RF	47.6			
% Patients with negative RF	52.4			
Total number of patients with aCCP status	14			
% Patients with positive aCCP	64.3			
% Patients with negative aCCP	35.7			
Total number of patients with erosions status	1			
% Patients with positive erosions	100.0			
% Patients with negative erosions	0.0			

At the bottom of the interface, there are buttons for 'Run', 'Export to Excel', and 'Export to Word'.

1.4.2 DAS and HAQ Statistics Report

This report presents statistics for the following variables: DAS, HAQ, SDAI, CDAI, Pain, Patient global assessment, physician global assessment, CRP and ESR.

Data can be selected in a selected time frame. However, it should be noted that if a patient has more than 1 visit in a period, then the report will include the average value for that patient, for the selected reporting period.

An example of a completed report is shown below:

The screenshot shows the METEOR software interface. The top navigation bar includes 'Logout Reports Close' and 'Welcome Search Patient Reports Profile Administrate'. The user is identified as 'User:LUMC123'. The 'Reports' section is active, and the report type is set to 'DAS and HAQ Statistics Report'.

Parameters Panel:

- This report is showing statistics of stored DAS, CDAI, SDAI, HAQ, CRP, ESR Patient global and physician global values.
- Select scope: Rheumatologist
- Patients with a visit from: 2010-08-04
- Until: 2011-08-04
- Select gender: No restriction
- Select age group: No restriction
- Select disease duration: No restriction
- Erosions: No restriction
- RF: No restriction
- aCCP: No restriction

Result Panel:

DAS HAQ Statistics Report

Scope: Rheumatologist
 Patients with a visit from: 2010-08-04
 Until: 2011-08-04
 Gender: No restriction
 Age group: No restriction

Disease duration: No restriction
 Erosions: No restriction
 RF: No restriction
 aCCP: No restriction

	Number of patients	Average	SD	Range
DAS28 (3)	17	3.5	1.1	0.7 - 5.0
DAS28 (4)	16	4.0	1.1	0.8 - 5.4
DAS (3)	17	2.1	1.0	0.2 - 3.8
DAS (4)	16	2.3	1.0	0.4 - 4.1
CDAI	13	20.3	6.0	11.0 - 32.5
SDAI	13	22.6	6.5	11.7 - 36.5
Pain	17	67.1	8.4	33.0 - 93.0
Patient global	18	56.8	15.2	13.0 - 90.0
Physician global	16	59.4	17.1	15.0 - 88.0
CRP	16	23.1	19.0	2.0 - 78.0
ESR	17	13.8	8.0	1.0 - 65.0
HAQ	21	1.8	0.5	0.5 - 2.9

Buttons at the bottom: Run, Export to Excel, Export to Word

1.4.3 Drug Usage Report

This report will present the statistics for patients who are currently using, or having used, a particular set of drugs.

The scope is limited to rheumatologist and site.

The drugs included in the report are:

- Methotrexate
- Sulfasalazine
- Leflunomide
- Hydroxychloroquine
- Adalimumab
- Etanercept
- Infliximab
- Corticosteroids – note that the prednisolone factor is incorporated in the calculation of doses of corticosteroids

An example of the Drug Usage Report is shown below:

Parameters

This report is showing statistics of drug use

Select scope
Rheumatologist

Time filter
Took in the past

Result

METEOR

Drug Usage Statistics Report

Scope: Rheumatologist
Time filter: Took in the past

	Number of Patients	%	Interval (days)	Average (mg)	SD	Range
Patients	665	100				
Methotrexate	337	50.7	7	34.7	19.9	20.0 - 125.0
Sulfasalazine	33	5.0	1	4.0	2.0	1.0 - 7.1
Leflunomide	60	9.0	1	5.3	6.4	2.9 - 35.7
Hydroxychloroquine	55	8.3	1	4.1	2.9	2.9 - 17.9
Adalimumab	94	14.1	14	42.9	10.6	37.3 - 80.0
Etanercept	82	12.3	7	50.6	5.5	50.0 - 100.0
Infliximab	1	0.2	56	3.0	0.0	3.0 - 3.0
Corticosteroids	398	59.8	1	4.8	3.4	2.9 - 35.7

	Number of Patients	%	Interval (days)	Average (mg)	SD	Range
Infliximab	1	0.2	56	3.0	0.0	3.0 - 3.0

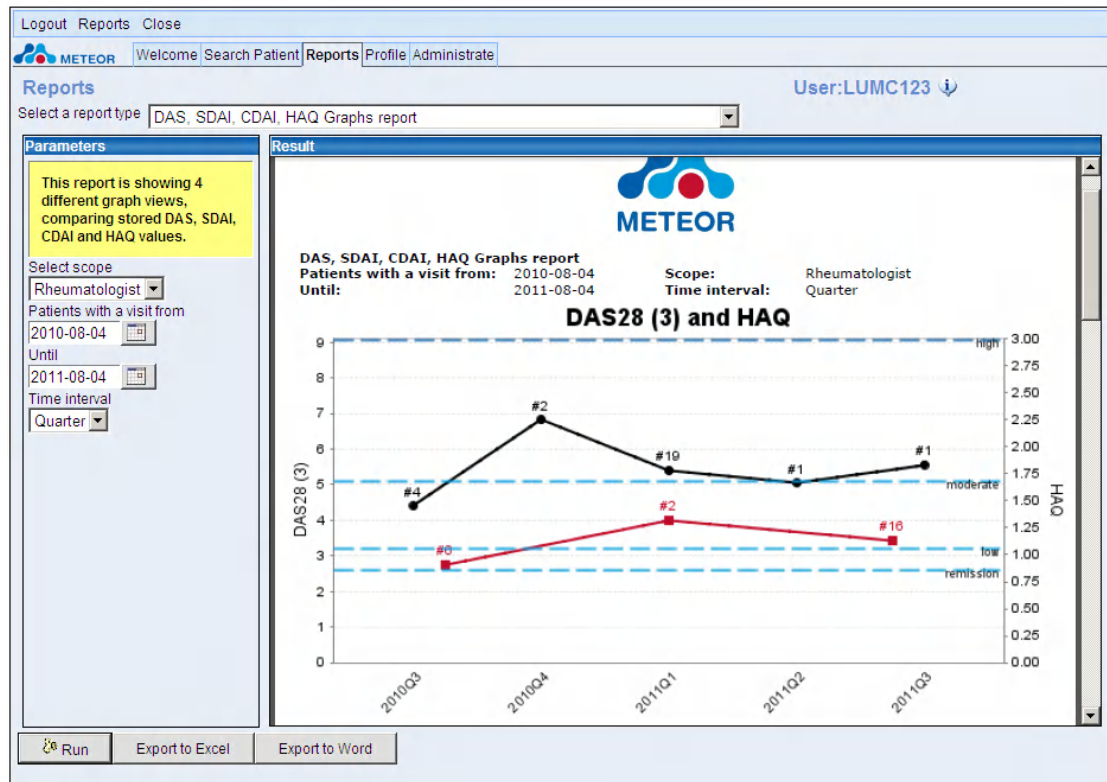
	Number of Patients	Average (mg/kg)	SD (mg/kg)	Range (mg/kg)
Infliximab	1	0.0	0.0	0.0 - 0.0

Run Export to Excel Export to Word

1.4.4 DAS, CDAI, SDAI, HAQ Graphs Report

This report will show the average HAQ, and average DAS, CDAI or SDAI for the selected scope over the selected time range. The report consists of 4 graphs, showing: DAS 28(3) and HAQ; DAS (3) and HAQ; SDAI and HAQ; CDAI and HAQ. Each graph shows the thresholds for high/moderate/low/remission.

An example of a part of the report is shown below:



1.4.5 DAS, CDAI and SDAI low and remission report

This report in the proportion of patients (expressed as %) who are in low or remission ranges as defined by the DAS, DAS28, CDAI, SDAI and HAQ values and low/remission thresholds.

Note that if a patient has more than one visit in a specific reporting period (quarter/year), the data will contain an average of all visits in that period.

Logout Reports Close

METEOR Welcome Search Patient Reports Profile Administrate

Reports User: LUMC123

Select a report type DAS and HAQ Remission and Low Statistics Report

Parameters

This report is showing statistics of the distribution of DAS, CDAI, SDAI low disease activity and remission values.

Select scope
Rheumatologist

Patients with a visit from
2010-08-04

Until
2011-08-04

Select gender
No restriction

Select age group
No restriction


Select disease duration
No restriction

Erosions
No restriction

RF
No restriction

aCCP
No restriction

Result



DAS and HAQ Remission and Low Statistics Report

Scope: Rheumatologist **Disease duration:** No restriction
Patients with a visit from: 2010-08-04 **Erosions:** No restriction
Until: 2011-08-04 **RF:** No restriction
Gender: No restriction **aCCP:** No restriction
Age group: No restriction

	Number of patients	%	Average
DAS28 (3) remission	3	17,6	1,7
DAS28 (3) low disease activity	1	5,9	3,1
DAS (3) remission	6	35,3	0,9
DAS (3) low disease activity	2	11,8	2,0
DAS28 (4) remission	1	6,3	6,3
DAS28 (4) low disease activity	1	6,3	2,8
DAS (4) remission	5	31,3	1,1
DAS (4) low disease activity	2	12,5	2,0
CDAI remission	0	0,0	0,0
CDAI low disease activity	0	0,0	0,0
SDAI remission	0	0,0	0,0
SDAI low disease activity	0	0,0	0,0
HAQ	21		1,8

Run Export to Excel Export to Word