



dynamika

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CE 0086

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Support, Complaints and Feedback

If you are unable to find the help you need in this user manual, if you have found a problem with the software or if you need a new feature that has not yet been implemented in Dynamika, please contact us using the contact details on the front page of the manual. For your convenience, an accident form and a general reporting form may be found below.



Accident Reporting Form

Date:

	From:	To:
Name:		Customer Support Manager
Company Name:		Image Analysis Ltd
Address 1:		QABC Minster House
Address 2:		272-274 Vauxhall Bridge Road
Address 3:		London
County/Region:		
Country:		United Kingdom
Post/ZIP Code:		SW1V 1BA
Telephone:		+44 (0) 20 7630 9926
Email:		support@imageanalysis.org.uk

Product Name:	Dynamika Enterprise
Release:	
Computer Hardware:	

Incident Date:	
Severity:	

General Reporting Form

Date:	
-------	--

	From:	To:
Name:		Customer Support Manager
Company Name:		Image Analysis Ltd
Address 1:		QABC Minster House
Address 2:		272-274 Vauxhall Bridge Road
Address 3:		London
County/Region:		
Country:		United Kingdom
Post/ZIP Code:		SW1V 1BA
Telephone:		+44 (0) 20 7630 9926
Email:		support@imageanalysis.org.uk

Product Name:	Dynamika Enterprise
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Release:	
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Computer Hardware:	
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Urgency:	
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Description	
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Essential Safety Information

This document is intended to assist users in the safe and effective operation (as per IEC 60601-1, Ed. 3: Medical electrical equipment - Part 1: General requirements for basic safety and essential performance) of the DYNAMIKA software ('Equipment').

The equipment is intended to be installed, used and operated only in accordance with the safety procedures given within this manual for the purpose for which it was designed. The intended use is given below.

Use of the equipment for purposes other than those intended and expressly stated by the manufacturer, as well as incorrect use or operation, may relieve the manufacturer or his agent from all or some of the responsibility for resultant non-compliance, damage or injury.

Installation, use and operation of Image Analysis Ltd. product is subject to the law in the jurisdictions in which the equipment is being used.

Users shall only install, use and operate the equipment in such ways that do not conflict with applicable laws or regulations which have the force of law.

This manual is written for trained users of the equipment and trained diagnostic MRI clinical personnel. The use of the equipment is not intended to replace judgements of experienced clinical personnel. The user includes the body with authority over the equipment and those persons who actually handle the equipment. Nothing stated in this manual reduces user's professional responsibilities for sound judgment and best practice.

Important Safety Directions

Image Analysis Ltd. products are designed to meet stringent safety standards. All medical devices require proper installation, operation, and maintenance (particularly with regard to safety).

Before attempting to work with this equipment, the user should

- ✓ Read, understand, note and strictly observe all Cautions and Safety markings on the equipment.
- ✓ Strictly follow all Cautions and Notes throughout this manual to help ensure the safety of users and patients.
- ✓ Read and understand the manual.
- ✓ Read and understand any Installation Instructions and Release Notes delivered with the software.

The documentation shall be kept with the system for easy reference.



Due to the use of colour to graphically display the results of statistical calculations throughout the software it is required that the user's level of sight enables them to distinguish red, green and blue colours.

Training

The user of the equipment shall have received adequate training on its safe and effective use before attempting to work with it. Training requirements may vary from country to country. The user shall



make sure that training is received in accordance with local laws or regulations that have the force of law. Information on training is available from your local Image Analysis Ltd representative or can be received by contacting Image Analysis support team via email or phone given above.

**CAUTION**

To ensure safe usage of DYNAMIKA and interpretation of the results the user should be trained in diagnosis and treatment of the condition(s) being analysed using the software.

Product Maintenance

This product supplied by Image Analysis Ltd. and is supported under Image Analysis Ltd standard support program. If you have any questions about this product, please contact your local representative or email your question directly to support@imageanalysis.org.uk. Image Analysis Ltd. may at its sole discretion, address issues and bugs reported, but responses are provided "AS IS", with no warranty, as stated above and are not guaranteed to address the issue or bug. The product is maintained by Image Analysis Ltd. development team and the user will be advised via email when the next release of the software is available.

**CAUTION**

Changes to the equipment outside of the Software Installation Package carried out by persons without appropriate qualifications and training may lead to malfunctioning of the software as well as making the warranty void.

Environmental Protection

Please note that at the product recall request, the user shall follow the instructions on how to un-install the software or contact Image Analysis Ltd. to arrange un-installation. No environmental damage should occur when instructions are followed.

Disclaimer

Image Analysis Ltd assumes no liability for use of this document if any unauthorized changes to the content or format have been made. Every care has been taken to ensure the accuracy of the information in this document. However, Image Analysis assumes no responsibility or liability for errors, inaccuracies, or omissions that may appear in this document. This manual is provided without warranty of any kind, implied or expressed, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose.

**CAUTION**

Image Analysis Ltd. reserves the right to change the equipment without further notice to improve reliability, function or design. Image Analysis reserves the right to modify the design, packaging, specifications and options described herein without prior notice. Please contact Image Analysis representative for the most current information.

**CAUTION**



Competition product descriptions, comparison, and specifications contained in this document are based on interpretation of available data at the time this material was being prepared and may require independent verification. Specifications have been obtained from competition brochures, websites, and other independent published sources.

**CAUTION**

The information in this document contains general technical descriptions of specifications and options as well as standard and optional features which do not always have to be present in individual cases.

**CAUTION**

Any technical data contained in this document may vary within defined tolerances. Original images always lose a certain amount of detail when reproduced.

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User Licence Conditions

**CAUTION**

Carefully read the terms and conditions below before using the software. Use of the software implies acceptance of the terms and conditions stated below.

PROPERTY

DYNAMIKA includes software property of Image Analysis Ltd and/or software granted by licence to Image Analysis Ltd by one or more suppliers ("Software suppliers"). These software products ("SOFTWARE"), including all relative media, printed material and "online" documentation or electronic material, are protected by law and international agreements on Intellectual Property. The SOFTWARE is not sold, but granted on licence. The SOFTWARE, and, similarly, any copyrights and all industrial and intellectual ownership rights are and shall remain the exclusive property of Image Analysis Ltd or its third party suppliers. The user does not acquire rights to the SOFTWARE, with the exception of the granted user licence.

USER LICENSE AND LIMITATIONS

With this licence, Image Analysis Ltd grants the final user the right to use the software on one computer only, unless specified otherwise. In any event the user may not make unauthorized copies and/or reproductions of the SOFTWARE or parts of the latter, including the documentation enclosed. On the basis of the above, and given that the SOFTWARE is not protected against copying, one copy only may be made for safety purposes (backup). The user may not hire, lease or loan out the SOFTWARE, but may transfer rights permanently according to the conditions herein, provided that all copies of the SOFTWARE and written material are transferred and the new owner accepts all conditions. Transfer of



the product must always include the latest update and all previous versions. The user may not convert, decode, disassemble or modify the SOFTWARE. The user may not remove, tamper with or alter the copyrights, trademarks or other proprietary rights affixed or enclosed in the SOFTWARE. The user may not publish data or information that compares performance of the said SOFTWARE with that written by others.

SOFTWARE DISCLAIMER

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CAUTION

The user may not publish data or information that compares performance of the SOFTWARE with that written by others without prior agreement with Image Analysis Ltd.



dynamika enterprise edition



imageanalysis

User: *

Password: *

[Forgotten password](#)

Type in the username and
password provided by the
Image Analysis system
administrator

Company Registered Address: QABC Minster House, 272-274 Vauxhall Bridge Road

London, SW1V 1BA, United Kingdom

Phone: +44 (0) 20 7630 9926 Email: support@imageanalysis.org.uk

Web: <http://www.imageanalysis.org.uk>



v3.0

User: Romiesa

Licenses:

MSK

Data Finder

Select Series

Patient Motion Correction

Parametric Maps

Compare Parametric Maps

Multiplanar Reconstruction

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These Links allow for quick navigation from the suggested workflow

Here shows the licenses assigned to you by the administrator. In this case the user only has an MSK license

Passwords can be changed in "Settings"

The "Help" button will show this document





Data Finder

Available Studies

Study Id	Data Owner	Creation Date	Patient Id	Patient Name	Study Date Range	Number of Series	Number of Images	Body Part	Study Description	Accession Number	Referring Physician	Patient Sex	Patient Birth Date Range	Patient's Weight	Admitting Diagnoses Description	Admitting Diagnoses Code	Institution Name	
441	droettger	2014-04-28	16	Anon	2011-09-29	12	203		MRI FOOT WITHOUT AND WITH CONTRAST RIGHT	214548	Anon	Anon	0001-11-28	95.254	Anon	0	Anon	
479	droettger	2014-04-28	17	Anon	2012-07-20	11	201		MRI FOOT WITHOUT AND WITH CONTRAST RIGHT	281221	Anon	Anon	0001-11-28	70.307	Anon	0	Anon	
449	droettger	2014-04-28	12	Anon	2012-05-30	12	200		MRI FOOT WITHOUT AND WITH CONTRAST RIGHT	252488	Anon	Anon	0001-11-28	102.058	Anon	0	Anon	
The top table Lists all studies that have been uploaded or retrieved via PACS and stored in the Dynamika database					Anon	2010-09-03	3	3	FOOT	FOOT COMPLETE LEFT	143135	Anon	Anon	0001-11-28	0	Anon	0	Anon
					Anon	2011-11-16	11	205		MRI FOOT WITHOUT AND WITH CONTRAST RIGHT	213214	Anon	Anon	0001-11-28	83.915	Anon	0	Anon
465	droettger	2014-04-28	14	Anon	2012-06-26	12	201		MRI FOOT WITHOUT AND WITH CONTRAST LEFT	255880	Anon	Anon	0001-11-28	102.058	Anon	0	Anon	
496	droettger	2014-04-28	9	Anon	2011-06-10	2	3	FOOT	FOOT COMPLETE LEFT	197710	Anon	Anon	0001-11-28	0	Anon	0	Anon	

Share Studies Add Remove

Selected Studies

Study Id	Data Owner	Creation Date	Patient Id	Patient Name	Study Date Range	Number of Series	Number of Images	Body Part	Study Description	Accession Number	Referring Physician	Patient Sex	Patient Birth Date Range	Patient's Weight	Admitting Diagnoses Description	Admitting Diagnoses Code	Institution Name
The Bottom table shows all studies that you have chosen to work with																	
Throughout the application the “Next” and “Back” buttons navigate you through the suggested workflow																	

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Upload Images as DICOM Archive

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Data Finder

Available Studies

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Licenses:

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The columns can be used to narrow down your search of the studies. More than one field can be used for a more refined search. Simply type into these fields and press enter

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Study Id	From Date: To Date:	Patient Id	Patient Name	Study Date Range	From Date: To Date:	Patient Sex	Patient Birth Date Range	From Date: To Date:
----------	------------------------	------------	--------------	------------------	------------------------	-------------	--------------------------	------------------------

Study Id	Owner	Creation Date	Patient Id	Patient Name	Study Date Range	Number of Series	Number of Images	Body Part	Study Description	Accession Number	Referring Physician	Patient Sex	Patient Birth Date Range	Patient's Weight	Admitting Diagnoses Description	Admitting Diagnoses Code Sequence	Institution Name
				Anon	2011-09-29	12	203		MRI FOOT WITHOUT AND WITH CONTRAST RIGHT	214548	Anon	Anon	0001-11-28	95.254	Anon	0	Anon
				Anon	2012-07-20	11	201		MRI FOOT WITHOUT AND WITH CONTRAST RIGHT	281221	Anon	Anon	0001-11-28	70.307	Anon	0	Anon
449	droettger	2014-04-28	12	Anon	2012-05-30	12	200		MRI FOOT WITHOUT AND WITH CONTRAST RIGHT	252488	Anon	Anon	0001-11-28	102.058	Anon	0	Anon
497	droettger	2014-04-28	5	Anon	2010-09-03	3	3	FOOT	FOOT COMPLETE LEFT	143135	Anon	Anon	0001-11-28	0	Anon	0	Anon
460	droettger	2014-04-28	6	Anon	2011-11-16	11	205		MRI FOOT WITHOUT AND WITH CONTRAST RIGHT	213214	Anon	Anon	0001-11-28	83.915	Anon	0	Anon
465	droettger	2014-04-28	14	Anon	2012-06-26	12	201		MRI FOOT WITHOUT AND WITH CONTRAST LEFT	255880	Anon	Anon	0001-11-28	102.058	Anon	0	Anon
496	droettger	2014-04-28	9	Anon	2011-06-10	2	3	FOOT	FOOT COMPLETE LEFT	197710	Anon	Anon	0001-11-28	0	Anon	0	Anon

Share Studies Add Remove

There are three methods of image upload to Dynamika;

1. Connecting to PACS
2. Uploading DICOM files from your local drive
3. Uploading zipped files from your local drive

1. This button will take you to a separate screen to upload your images from your PACS

2. This button will upload images from your machine

3. This button will upload Zipped files from your machine



Data Finder

Available Studies

Study Id	From Date: To Date:	Patient Id	Patient Name	Study Date Range	From Date: To Date:	Patient Sex	Patient Birth Date Range	From Date: To Date:
----------	------------------------	------------	--------------	------------------	------------------------	-------------	--------------------------	------------------------

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Licenses:
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Click “Choose files” to
browse for DICOM files

Upload Files

Choose Files | No file chosen

Anonymize DICOMs before upload
Run patient motion correction automatically
Run iMaps calculation automatically

Upload | Process 0 files | Cancel

Data Finder

Select Series

Patient Motion
CorrectionParametric
MapsCompare
Parametric
MapsMultiplanar
ReconstructionPharmacokinetic
ParametersRegions of
Interest

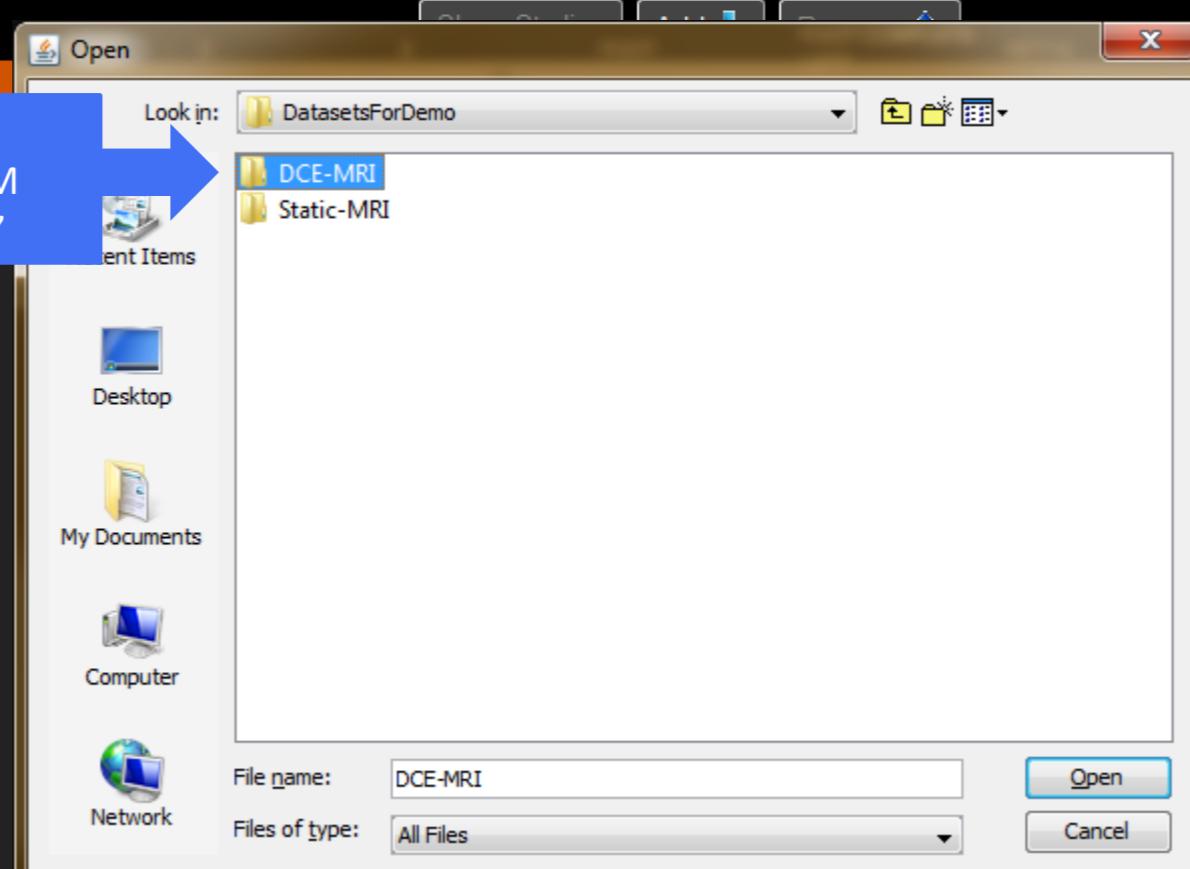
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Click on the folder
containing the DICOM
files and click “Open”



Referring Physician	Patient Sex	Patient Birth Date Range	Patient's Weight	Admitting Diagnoses Description	Admitting Diagnoses Code Sequence	Institution Name
Anon	Anon	0001-11-28	95.254	Anon	0	Anon
Anon	Anon	0001-11-28	70.307	Anon	0	Anon
Anon	Anon	0001-11-28	102.058	Anon	0	Anon
Anon	Anon	0001-11-28	0	Anon	0	Anon
Anon	Anon	0001-11-28	83.915	Anon	0	Anon
Anon	Anon	0001-11-28	102.058	Anon	0	Anon
Anon	Anon	0001-11-28	0	Anon	0	Anon

Back

Retrieve Images from PACS

Upload Images as DICOM Files

Upload Images as DICOM Archive

Manage Studies

Next



Data Finder

Available Studies

Study Id	From Date: To Date:	Patient Id	Patient Name	Study Date Range	From Date: To Date:	Patient Sex	Patient Birth Date Range	From Date: To Date:
Data Owner	Creation Date							

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Study Id	Data Owner	Creation Date	Patient Id	Patient Name	Study Date Range	Number of Series	Number of Images	Body Part	Study Description	Accession Number	Referring Physician	Patient Sex	Patient Birth Date Range	Patient's Weight	Admitting Diagnoses Description	Admitting Diagnoses Code	Institution Name
441	droettger	2014-04-28	16	Anon	2011-09-29	12	203		MRI FOOT WITHOUT AND WITH CONTRAST RIGHT	214548	Anon	Anon	0001-11-28	95.254	Anon	0	Anon
479	droettger	2014-04-28	17	Anon	2012-07-20	11	201		MRI FOOT WITHOUT AND WITH CONTRAST	281221	Anon	Anon	0001-11-28	70.307	Anon	0	Anon
449	droettger	2014-04-28	12	Anon	2012-05-30						Anon	Anon	0001-11-28	102.058	Anon	0	Anon
497	droettger	2014-04-28	5	Anon	2010-09-03				RtMCPIP_DCE_Gd_3D_1981_0100 Size: 500984 bytes remove		Anon	Anon	0001-11-28	0	Anon	0	Anon
460	droettger	2014-04-28	6	Anon	2011-11-16				RtMCPIP_DCE_Gd_3D_1981_0099 Size: 500988 bytes remove		Anon	Anon	0001-11-28	83.915	Anon	0	Anon
465	droettger	2014-04-28	14	Anon	2012-06-26				RtMCPIP_DCE_Gd_3D_1981_0098 Size: 500988 bytes remove		Anon	Anon	0001-11-28	102.058	Anon	0	Anon
496	droettger	2014-04-28	8	Anon	2011-06-10				RtMCPIP_DCE_Gd_3D_1981_0097 Size: 500988 bytes remove		Anon	Anon	0001-11-28	0	Anon	0	Anon
									RtMCPIP_DCE_Gd_3D_1981_0096 Size: 500988 bytes remove								
									RtMCPIP_DCE_Gd_3D_1981_0095 Size: 500984 bytes remove								
									RtMCPIP_DCE_Gd_3D_1981_0094 Size: 500988 bytes remove								
									RtMCPIP_DCE_Gd_3D_1981_0093 Size: 500986 bytes remove								
									RtMCPIP_DCE_Gd_3D_1981_0092 Size: 500988 bytes remove								
									RtMCPIP_DCE_Gd_3D_1981_0091 Size: 500986 bytes remove								

Data Finder

Select Series

Patient Motion Correction

Parametric Maps

Compare Parametric Maps

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Once you have selected your images, you may also apply anonymisation, patient motion correction and run Parametric Maps during processing. You are also able to run these separately if not done during image upload

Upload Files

Choose Files 100 files

RtMCPIP_DCE_Gd_3D_1981_0100 Size: 500984 bytes [remove](#)
RtMCPIP_DCE_Gd_3D_1981_0099 Size: 500988 bytes [remove](#)
RtMCPIP_DCE_Gd_3D_1981_0098 Size: 500988 bytes [remove](#)
RtMCPIP_DCE_Gd_3D_1981_0097 Size: 500988 bytes [remove](#)
RtMCPIP_DCE_Gd_3D_1981_0096 Size: 500988 bytes [remove](#)
RtMCPIP_DCE_Gd_3D_1981_0095 Size: 500984 bytes [remove](#)
RtMCPIP_DCE_Gd_3D_1981_0094 Size: 500988 bytes [remove](#)
RtMCPIP_DCE_Gd_3D_1981_0093 Size: 500986 bytes [remove](#)
RtMCPIP_DCE_Gd_3D_1981_0092 Size: 500988 bytes [remove](#)
RtMCPIP_DCE_Gd_3D_1981_0091 Size: 500986 bytes [remove](#)

Anonymize DICOMs before upload
 Run patient motion correction automatically
 Run iMaps calculation automatically

[Upload](#) [Process 0 files](#) [Cancel](#)

Back

Retrieve Images from PACS

Upload Images as DICOM Files

Upload Images as DICOM Archive

Manage Studies

Next



Data Finder

Available Studies

Study Id	555	Data Owner		Creation Date	From Date:		Patient Id		Patient Name		Study Date Range	From Date:		Patient Sex		Patient Birth Date Range	From Date:		To Date:	
					To Date:							To Date:								

Study Id	Data Owner	Creation Date	Patient Id	Patient Name	Study Date Range	Number of Series	Number of Images	Body Part	Study Description	Accession Number	Referring Physician	Patient Sex	Patient Birth Date Range	Patient's Weight	Admitting Diagnoses Description	Admitting Diagnoses Code Sequence	Institution Name
555	Romiesa	2014-07-22	24007	24007	2011-11-22	26	200		Gelenke&Hande		Wissenschaft	F	1946-12-11	80		0	24

Once Studies are uploaded they will appear on the top of all studies and be given a unique Study Id number for ease of reference

Patient name and ID are shown here. If your study does not contain a patient Id, Dynamika will automatically generate one for you

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Licenses:

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Selected Studies

Study Id	Data Owner	Creation Date	Patient Id	Patient Name	Study Date Range	Number of Series	Number of Images	Body Part	Study Description	Accession Number	Referring Physician	Patient Sex	Patient Birth Date Range	Patient's Weight	Admitting Diagnoses Description	Admitting Diagnoses Code Sequence	Institution Name

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Retrieve Images from PACS

Upload Images as DICOM Files

Upload Images as DICOM Archive

Manage Studies

Next



Data Finder

Available Studies

Study Id	555	Data Owner		Creation Date	From Date: <input type="text"/>	To Date: <input type="text"/>	Patient Id	Patient Name	Study Date Range	From Date: <input type="text"/>	To Date: <input type="text"/>	Patient Sex	Patient Birth Date Range	From Date: <input type="text"/>	To Date: <input type="text"/>
----------	-----	------------	--	---------------	---------------------------------	-------------------------------	------------	--------------	------------------	---------------------------------	-------------------------------	-------------	--------------------------	---------------------------------	-------------------------------

Study Id	Data Owner	Creation Date	Patient Id	Patient Name	Study Date Range	Number of Series	Number of Images	Body Part	Study Description	Accession Number	Referring Physician	Patient Sex	Patient Birth Date Range	Patient's Weight	Admitting Diagnoses Description	Admitting Diagnoses Code Sequence	Institution Name

v3.0

User: Romiesa

Licenses:

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Add

Remove

Studies can be selected/de-selected by using either the "Add" or "Remove" button or by dragging them between the tables

Selected Studies

Study Id	Data Owner	Creation Date	Patient Id	Patient Name	Study Date Range	Number of Series	Number of Images	Body Part	Study Description	Accession Number	Patient's Weight	Admitting Diagnoses Description	Admitting Diagnoses Code Sequence	Institution Name		
555	Romiesa	2014-07-22	24007	24007	2011-11-22	26	200	Gelenke Hande			Wissenschaft	F	1946-12-11	80	0	24

Once files are added to this table they are ready to be analysed

Storage of selected studies can be managed by clicking "Manage Studies"

Back

Retrieve Images from PACS

Upload Images as DICOM Files

Upload Images as DICOM Archive

Manage Studies

Next



Study Management

Selected Studies

Patient Name: 24007
Patient Id: 24007
Study Date: 2011-11-22
Institution Name: 24
Number of Series: 26

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User: Romiesa

Licenses:
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All selected studies will be present here and once selected all series in the study will appear to the right

Data Finder

Select Series

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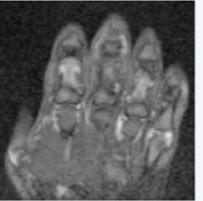
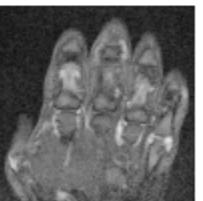
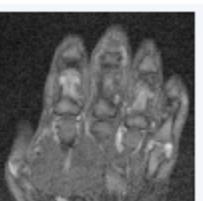
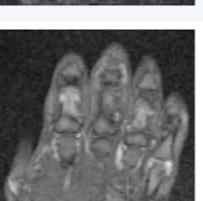
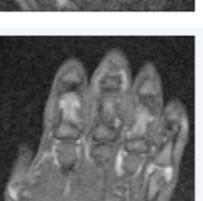
Show Server Activity

Logout

Series in the selected study

 Show only dynamic series

Creation Date	Pr. Id	Patient Name	Series Description	Number of Frames	Number of Slices	Series Preview
---------------	--------	--------------	--------------------	------------------	------------------	----------------

<input type="checkbox"/>	Tue Jul 22 16:00:38 GMT+100 2014	24007	T1_flash_cor_dyn. (Anflutung)	25	4	
<input type="checkbox"/>	Tue Jul 22 16:00:38 GMT+100 2014	24007	T1_flash_cor_dyn. (Anflutung)	1	4	
<input type="checkbox"/>	Tue Jul 22 16:00:38 GMT+100 2014	24007	T1_flash_cor_dyn. (Anflutung)	1	4	
<input type="checkbox"/>	Tue Jul 22 16:00:38 GMT+100 2014	24007	T1_flash_cor_dyn. (Anflutung)	1	4	
<input type="checkbox"/>	Tue Jul 22 16:00:38 GMT+100 2014	24007	T1_flash_cor_dyn. (Anflutung)	1	4	
<input type="checkbox"/>	Tue Jul 22 16:00:38 GMT+100 2014	24007	T1_flash_cor_dyn. (Anflutung)	1	4	
<input type="checkbox"/>	Tue Jul 22 16:00:38 GMT+100 2014	24007	T1_flash_cor_dyn. (Anflutung)	1	4	
<input type="checkbox"/>	Tue Jul 22 16:00:38 GMT+100 2014	24007	T1_flash_cor_dyn. (Anflutung)	1	4	

"Restore Series" will view any deleted series' from this study that you wish to restore

Click here to select series you wish to delete, then click "Delete Series" alternatively you can use the "Select All" button if you wish to delete the entire study

Back



Select Series

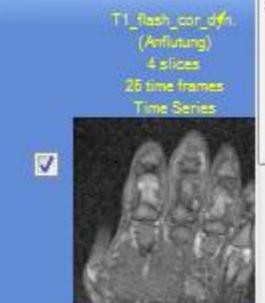
Selected Studies

Compare Series

Deselect all.

Show only dynamic

Patient Name: 24007
Patient Id: 24007
Study Date: 2011-11-22
Institution Name: 24
Number of Series: 26



v3.0

User: Romiesa

Licenses:

MSK

Data Finder

Select Series

Patient Motion Correction

Parametric Maps

Compare Parametric Maps

Multiplanar Reconstruction

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Next

Select a series, then either right-click on the image viewer or hit "Next" to continue your analysis

Frame: 1 /25 (0 secs)

S A C

Slice:

Pixel:

The study can be filtered to only show dynamic series

HRP



Patient ID: DYN3397718131

Study ID: 28

Full information

The left panel shows studies selected in the Data Finder screen. Once the Study is selected it will expand and show all corresponding series

Dynamic Series are automatically shown in colour while static series in white

Once a series is selected, images will be shown in this portlet

Please note, that default spacing value is used

FLA



v3.0

User: Romiesa

Licenses:

MSK

Select Series

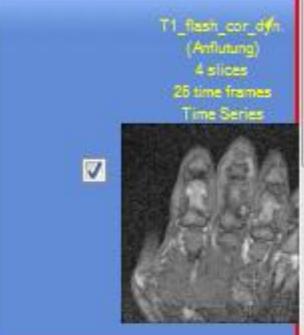
Selected Studies

Compare Series

Deselect all

 Show only dynamic

Patient Name: 24007
Patient Id: 24007
Study Date: 2011-11-22
Institution Name: 24
Number of Series: 26



Data Finder

Select Series

Patient Motion Correction

Parametric Maps

Compare Parametric Maps

Multiplanar Reconstruction

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Next

Select a series, then either right-click on the image viewer or hit "Next" to continue your analysis

Frame: 1 /25 (0 secs)

S A C

Slice: 1 /4

Pixel: -209 152 Value:0

None

HRP

FLA

These boxes give information of the current frame and slice, this can be altered by simply typing into the fields

Clicking on this checkbox will display extra information on the images and will be displayed below

Patient ID: DYN3397718131
Study ID: 28
 Full information
Patient Name: 302331
Study Date:
No Description
Institution:
Modality Manufacturer: SIEMENS

RFP

This slider bar is used to scroll through the slices in a volume

LHA

This Slider bar is used to scroll through the series time frames

Manufacturer's Model Name:
TR value(ms): 50.00
TE value(ms): 6.57
Magnetic field strength: 1.50
Slice Thickness(mm): 3.00
Please note, that default spacing value is used



Select Series

Selected Studies

Compare Series

Deselect all

Show only dynamic

Select a series, then either right-click on the image viewer or hit "Next" to continue your analysis

Frame: 1 /25 (0 secs)

Slice: 1 /4

Pixel: -114,182 Value:0

None

When moving the mouse around the image, information for the pixels under the cursor will change. Information includes the value and the pixel

v3.0

User: Romiesa

Licenses:

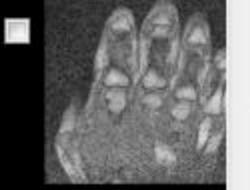
MSK

Patient ID: 24007

Patient Name: 24007
Patient Id: 24007
Study Date: 2011-11-22
Institution Name: 24
Number of Series: 26



T1_flash_cor_dyn.
(Anflutung)
4 slices
26 time frames
Time Series



T1_flash_cor_dyn.
(Anflutung)
4 slices
1 time frame
Static

Data Finder

Select Series

Patient Motion Correction

Parametric Maps

Compare Parametric Maps

Multiplanar Reconstruction

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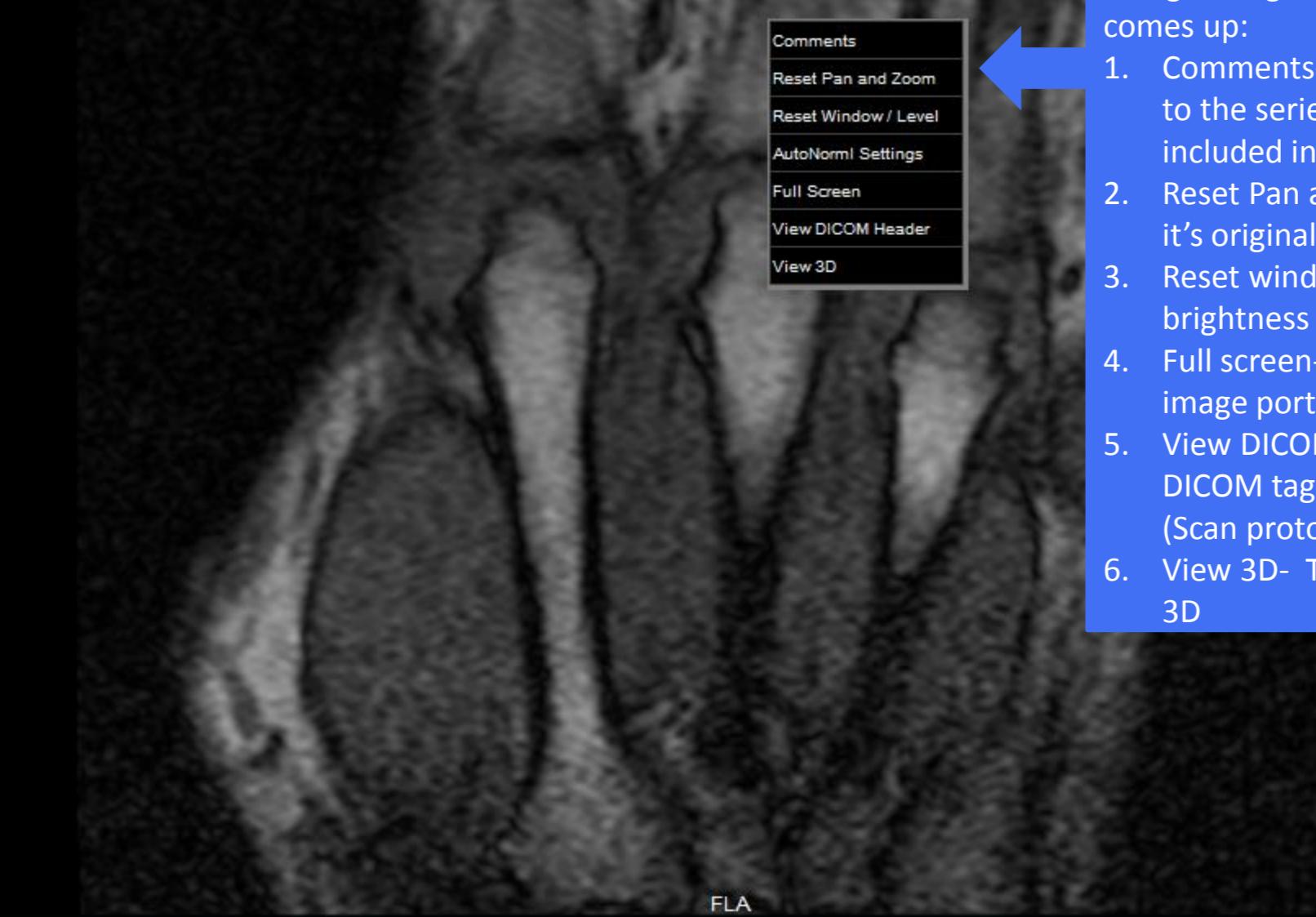
Help

Show Server Activity

Logout

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Next



Using the right click menu, the following comes up:

1. Comments- View and add comments to the series. Comments will be included in the PDF report.
2. Reset Pan and Zoom- Returns image to it's original dimensions in the portlet.
3. Reset window/Level- To alter the brightness and contrast of the image.
4. Full screen- Expands the size of the image portlet.
5. View DICOM header- Shows the DICOM tags associated with the image (Scan protocols, patient information)
6. View 3D- This will show the image in 3D

Frame: 1 /25 (0 secs)
Slice: 1 /4
Pixel: -114,182 Value:0

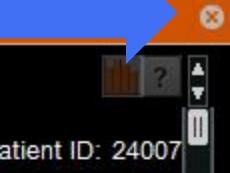
S A C

HRP

None

Full screen mode

Click this to close full screen mode



Patient ID: 24007



RFP

LHA

FLA



Select Series

Selected Studies

Compare Series

Deselect all

 Show only dynamic

v3.0

User: Romiesa

Licenses:

MSK

Select a series, then either right-click on the image viewer or hit "Next" to continue your analysis

Frame: 1 /25 (0 secs)

S A C

Slice: 1 /4

Pixel: -114,182 Value:0

None

The DICOM header tags can
be filtered by typing into this
box. Text will be matched
against the “Tag Description”
column



RFP

HRP

Patient ID: 24007

DICOM Header View

Tag ID	Tag Description	Value
0002 0000	FileMetaInformationGroupLength	182
0002 0002	MediaStorageSOPClassUID	1.2.840.10008.5.1.4.1.1.4
0002 0003	MediaStorageSOPInstanceUID	1.3.12.2.1107.5.2.30.25666.3000001111609220975000002655
0002 0010	TransferSyntaxUID	1.2.840.10008.1.2.1
0002 0012	ImplementationClassUID	1.3.12.2.1107.5.2
0002 0013	ImplementationVersionName	MR_VB15A
0008 0005	SpecificCharacterSet	ISO_IR_100
0008 0008	ImageType	ORIGINAL\PRIMARY\MNORM\DIS2D
0008 0012	InstanceCreationDate	20111122
0008 0013	InstanceCreationTime	120951.625000
0008 0016	SOPClassUID	1.2.840.10008.5.1.4.1.1.4
0008 0018	SOPInstanceUID	1.3.12.2.1107.5.2.30.25666.3000001111609220975000002655
0008 0020	StudyDate	20111122
0008 0021	SeriesDate	20111122
0008 0022	AcquisitionDate	20111122
0008 0023	ContentDate	20111122
0008 0030	StudyTime	111619.359000
0008 0031	SeriesTime	120951.625000
0008 0032	AcquisitionTime	120943.365000
0008 0033	ContentTime	120951.625000
0008 0060	Modality	MR
0008 0070	Manufacturer	SIEMENS
0008 0080	InstitutionName	24
0008 0090	ReferringPhysicianName	Wissenschaft
0008 1010	StationName	MRC25666
0008 1030	StudyDescription	Gelenke\Handgelenk
0008 103e	SeriesDescription	T1_flash_cor_dyn. (Anflutung)
0008 1090	ManufacturerModelName	Avanto
0010 0010	PatientName	24007
0010 0020	PatientID	24007
0010 0030	PatientBirthDate	19461211
0010 0040	PatientSex	F
0010 1010	PatientAge	064Y
0010 1020	PatientSize	1.72
0010 1030	PatientWeight	80
0018 0010	ContrastBolusAgent	16 ml Dotarem
0018 0020	ScanningSequence	GR
0018 0021	SequenceVariant	SPIOSP
0018 0023	MRAcquisitionType	2D
0018 0024	SequenceName	*fl2d1r
0046 0025	AcquisitionMode	N

FLA

Logout

Back

Next



v3.0

User: Romiesa

Licenses:

MSK

Data Finder

Select Series

Patient Motion Correction

Parametric Maps

Compare Parametric Maps

Multiplanar Reconstruction

Pharmacokinetic Parameters

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Select Series

Selected Studies

Compare Series

Deselect all.

 Show only dynamicHAND
9 slices
1 time frame
Static

Select a series, then either right-click on the image viewer or hit "Next" to continue your analysis

Frame: 1 /1 (0 secs)

Slice: 1 /40

Info

S A C

HRA

Patient ID: Anon

Pixel: 166,277 Value:0
X:-43.53,Y:-62.05,Z:386.6
Study ID: 357
Map: None

All controls can be adjusted by clicking on the orange bars and moving them left to right

Tick to see volume rendering. Untick to see a multi-planar view

3D Visualization

T1W_3D_FFE_2deg

HAND

40 slices

1 time frame

Static

T1W_3D_FFE_10deg

HAND

40 slices

1 time frame

Static

T1W_3D_FFE_17deg

HAND

40 slices

1 time frame

Static

T1W_3D_FFE DYN

HAND

1 slice

30 time frames

Time Series

RFP

Volume

volumeRendering	<input checked="" type="checkbox"/>
opacity	0
lowerThreshold	15
upperThreshold	130
windowLow	0
windowHigh	85
indexX	242
indexY	242
indexZ	20

Map

opacity	1
maskIMAPS	<input type="checkbox"/>
map	None

Close Controls

Parametric maps can be added using this drop down menu



The Image can be rotated by clicking it and moving the mouse around. To zoom in on the image simply right click

FLP

Back

Next

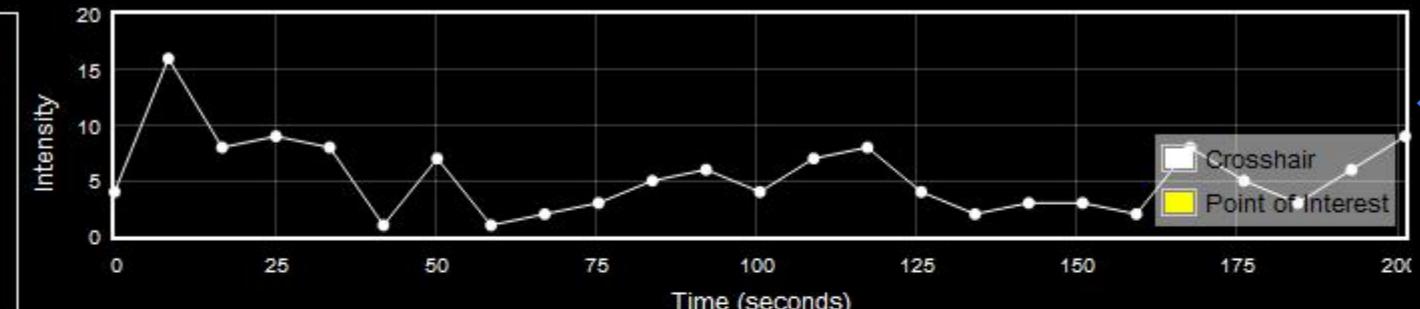


Patient Motion Correction

Select algorithm: 2D motion correction

The reference frame for motion correction is automatically calculated for you, however there is an option of selecting another frame

Double click to mark a point of interest on the image. The curve for the point of interest as well as the curve for the current cursor position will be shown on the same graph.



This plot shows the signal intensity for each time frame for the pixel under the mouse. It can be useful in deciding a reference frame

Algorithm Name

Images stored in

Frame: 1 /25 (0 secs)
Slice: 1 /4 Info
Active Frames: All
Pixel: 41,37 Value:4
X:-64.91,Y:75.61,Z:121.1
Study ID: 555
Map: None

Patient ID: 24007



Data Finder

Select Series

Patient Motion Correction

Parametric Maps

Compare Parametric Maps

Multiplanar Reconstruction

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v3.0

Running

User: Romiesa

Licenses:

MSK

Data Finder

Select Series

Patient Motion Correction

Parametric Maps

Compare Parametric Maps

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Patient Motion Correction

Select algorithm: 2D motion correction

Select Reference Image Frame: 2

Run Show Progress

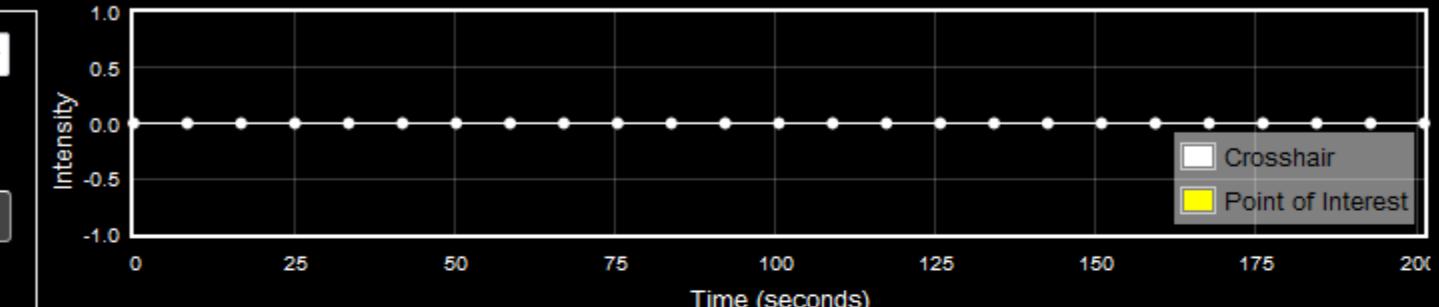
Motion corrected images stored in data

Algorithm Name

Reference Image Frame

Once you have selected the reference range , click "run" to start motion correction

Double click to mark a point of interest on the image. The curve for the point of interest as well as the curve for the current cursor position will be shown on the same graph.



Original Image

Frame: 1 /25 (0 secs)

S A C

HRP

Slice: 1 /4 Info

Active Frames: All

Pixel: -2,121 Value: 0

C-74.91,Y: 3

Study ID: 55

Running motion correction...

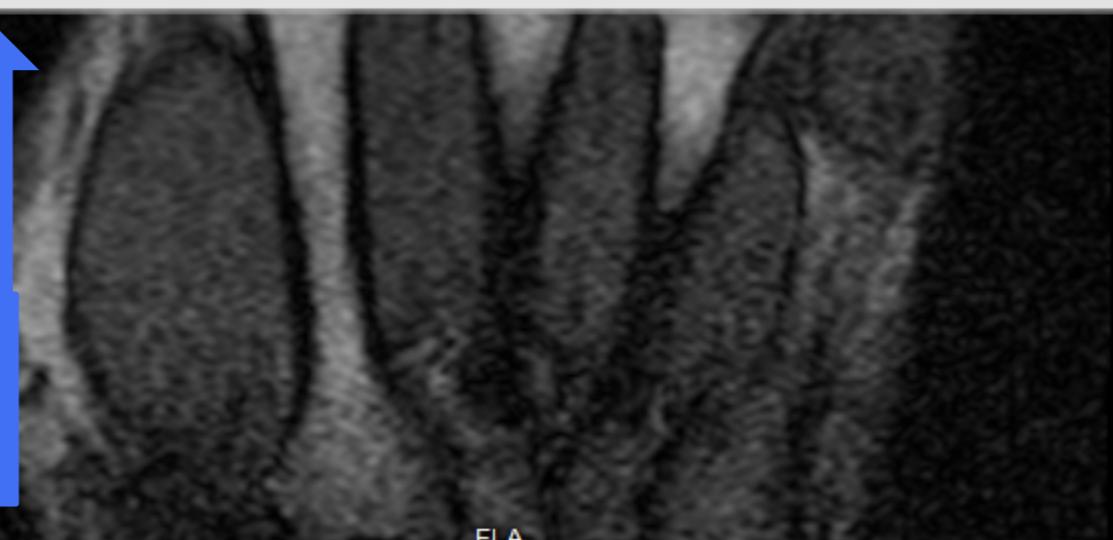
Patient ID: 24007

Map:

2D motion correction is processing for frame: 3, slice: 3 of 4: 52%

RFP

Close



When a process is running, you can monitor the progress on the server by clicking "show server activity"

Back

Next



v3.0

User: Romiesa

Licenses:

MSK

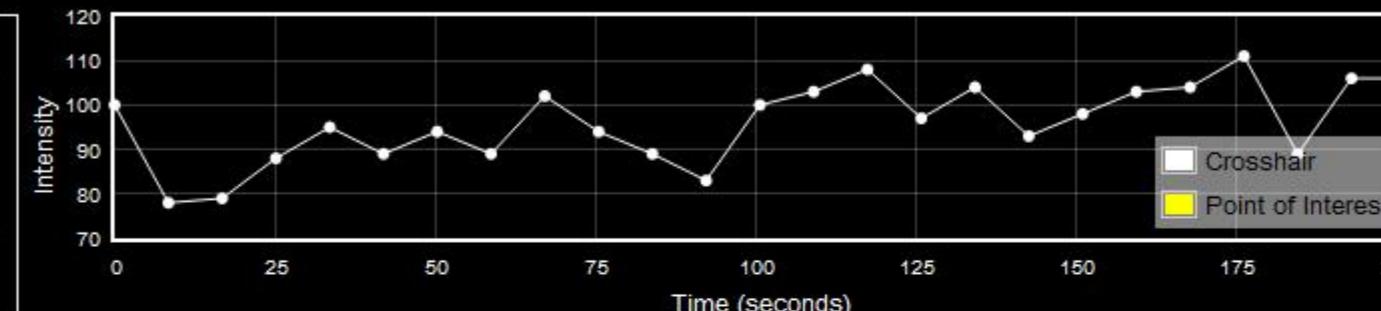
Patient Motion Correction

Select algorithm: 2D motion correction

Select Reference Image Frame: 2

Run Show Progress

Double click to mark a point of interest on the image. The curve for the point of interest as well as the curve for the current cursor position will be shown on the same graph.



Motion corrected images stored in database:

Algorithm Name	Reference Image Frame
----------------	-----------------------

2D motion correction	3
----------------------	---



All previous motion corrected reference ranges will be shown here. Selecting it and then selecting the far right image portal will swap the motion corrected ones with the original series so that it will be used in the following screens

Original Image

Frame: 1 /25 (0 secs) S A C HRP

Slice: 1 /4 Info

Active Frames: All

Pixel: 89,333 Value: 100

X:-55.23,Y:81.48,Z:418.47

Study ID: 555

Map: None

Motion Corrected Image

Frame: 1 /25 (0 secs) S A C HRP

Slice: 1 /4 Info

Patient ID: 24007

Active Frames: All

Study ID: 555

Map: None

RFP

RFP

The image portal highlighted
in red is the motion-corrected
version

FLA

FLA

Data Finder

Select Series

Patient Motion
CorrectionParametric
MapsCompare
Parametric
MapsMultiplanar
ReconstructionPharmacokinetic
ParametersRegions of
Interest

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Parametric Maps

Frame: 3 /25 (16.77 secs)

S A C

HRP

v3.0

User: Romiesa

Licenses:

MSK

Map: None

[Data Finder](#)[Select Series](#)[Patient Motion Correction](#)[Parametric Maps](#)[Compare Parametric Maps](#)[Multiplanar Reconstruction](#)[Pharmacokinetic Parameters](#)[Regions of Interest](#)[Reports](#)[Help](#)[Show Server Activity](#)[Logout](#)

Slice: 1 /4





Parametric Maps

Frame: 3 /25 (20 secs)

S A C

HRP

v3.0

User: Romiesa

Licenses:

MSK

None

Parametric Maps:

Quantitative Maps:

Statistical Maps:

None

GD

Tonset

IRE

ME

Twashout

IRW

AUC

None

Ktrans

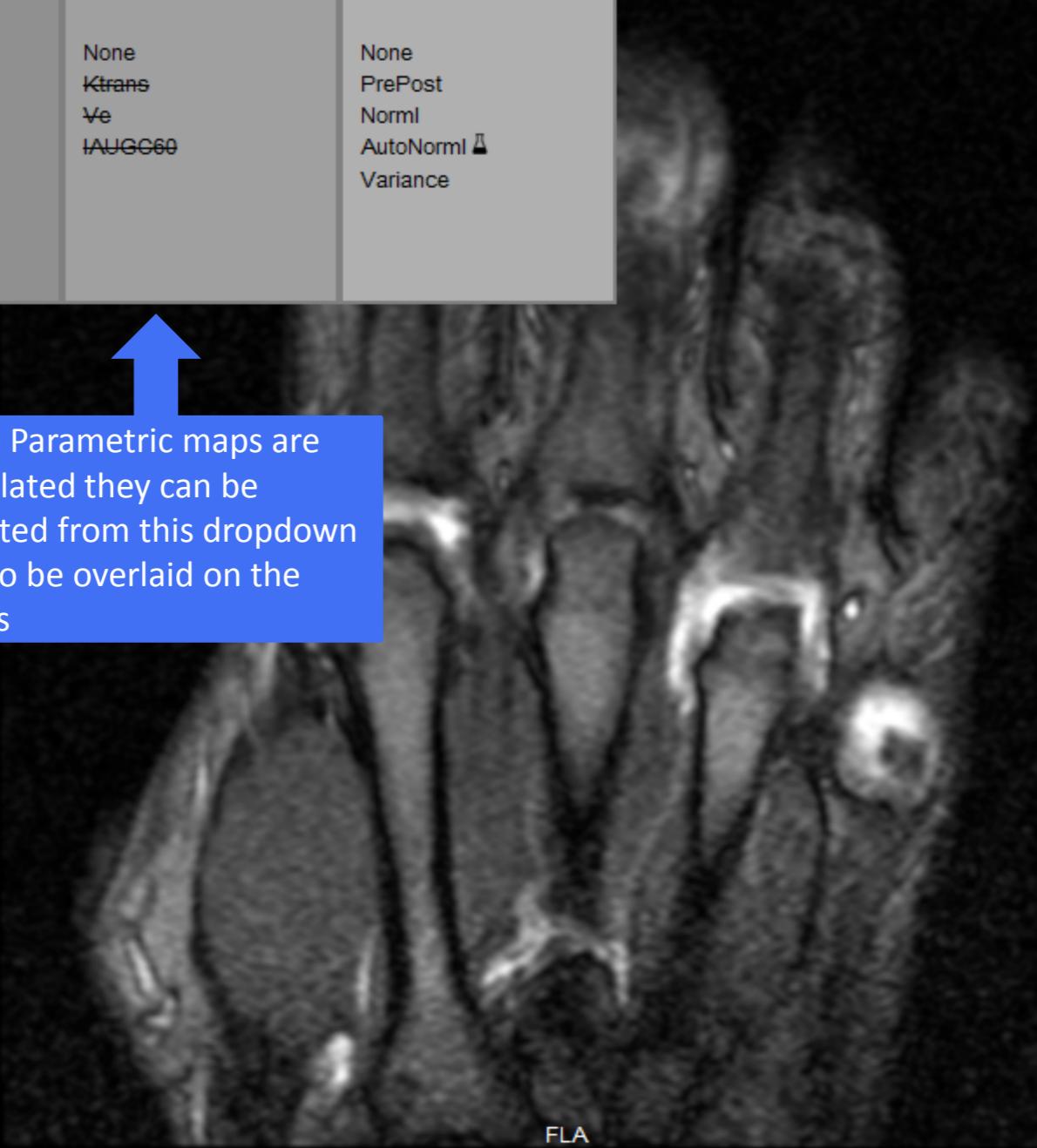
Ve

IAUGC60

AutoNorml

Variance

RFP Once Parametric maps are calculated they can be selected from this dropdown box to be overlaid on the series



FLA

Data Finder

Select Series

Patient Motion Correction

Parametric Maps

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Patient ID: DYN3397718131

Study ID: 28

 Full information

Recent Parametric Maps settings for all series

Owner	Created on	Active Frames	Baseline	Filter	Min Tonset	Max Twashout
droettger	2014-08-27 11:43	All	1,2	None		
a	2014-08-22 17:18	All	All	None		
Romiesa	2014-08-26 12:02	All	1,2	None		
b	2014-08-26 11:48	All	1,2	None		
Romiesa	2014-08-26 15:26	All	1,2	None		
b	2014-08-26 11:48	All	All	None		
c	2014-08-27 11:33	All	All	None		
Romiesa	2014-08-26 12:02	All	1,2	None		
"	2014-08-27 11:48		

Copy

Transfer saved settings to current series

Calculated

Reset

Show Progress

Last edited by Romiesa on 2014-08-26 15:26

Filter

Choose Parametric Maps smoothing filter

Active Frames All

Select frames to include in quantification

Baseline 1,2

Select pre-contrast frames to normalize image series

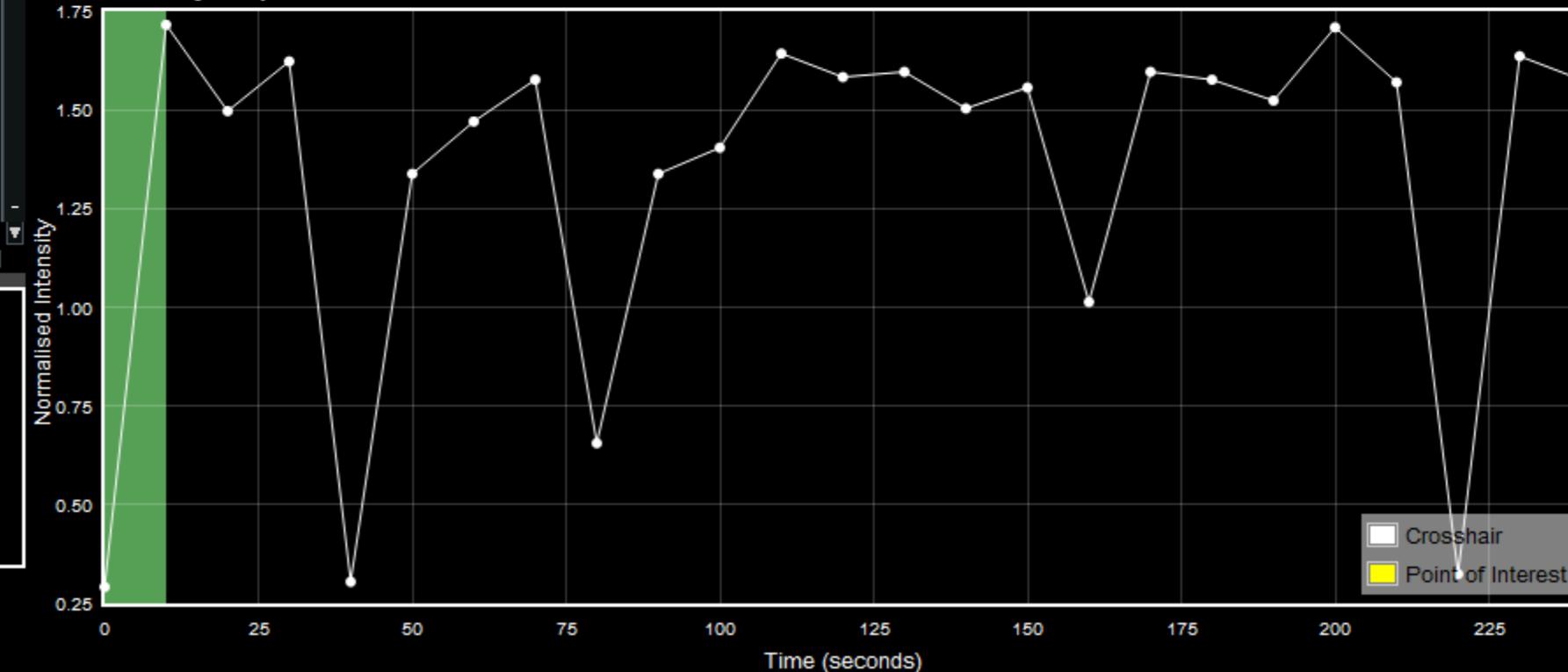
Min Tonset

(Optional) Enter earliest allowed Tonset

Max Twashout

(Optional) Enter latest allowed Twashout

Intensity Graph - Point cursor at a pixel on the image





Parametric Maps

Frame: 3 /25 (16.77 secs)

S A C

HRP

Slice: 1 /4

Info

Active Frames: All

Pixel: 331,357 Value: 44

X:-0.85,Y:126.55,Z:450.41

Study ID: 555

Map: GD

v3.0

User: Romiesa

Licenses:

MSK

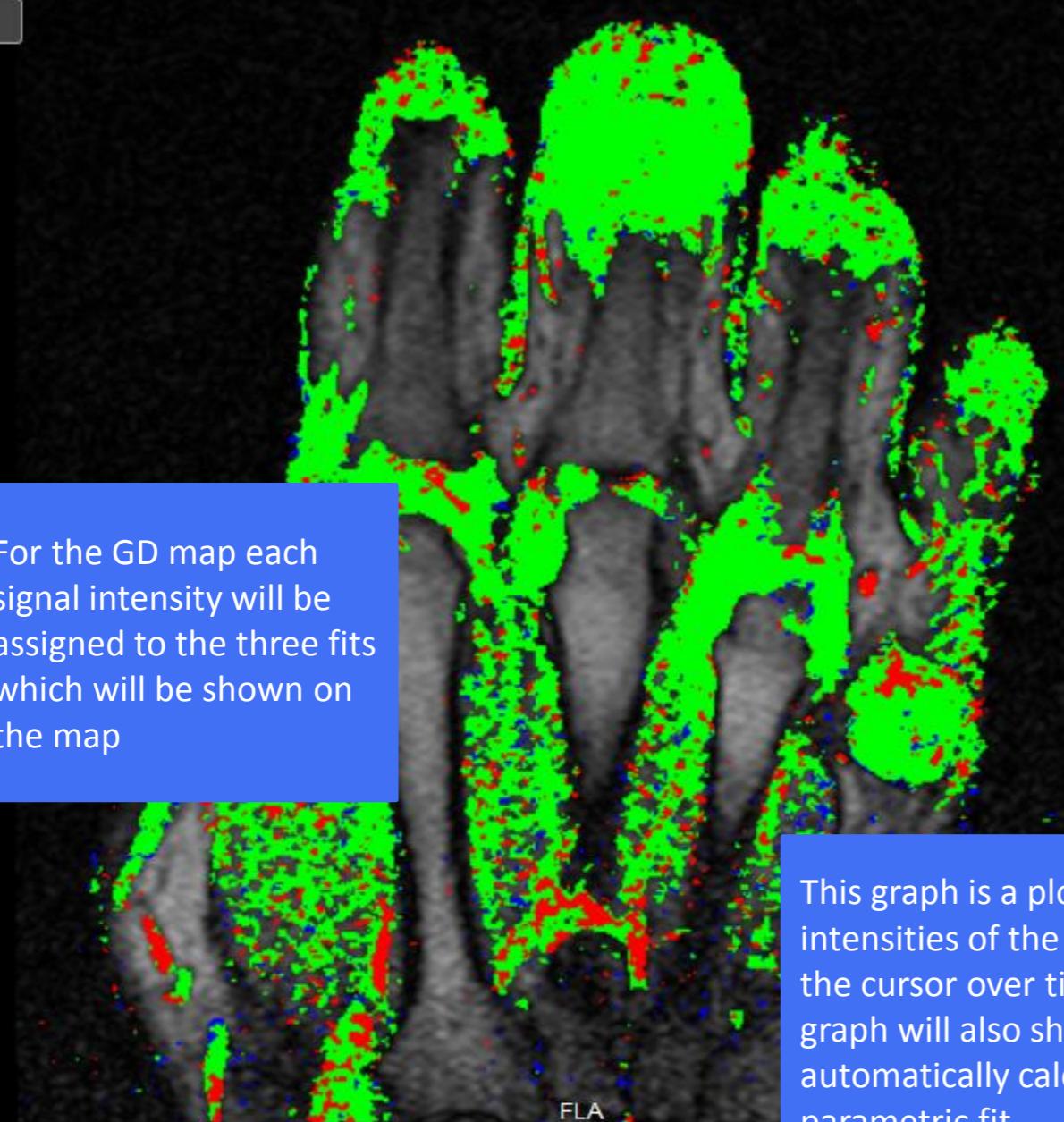
Persistent

RFP

Plateau

Washout

For the GD map each signal intensity will be assigned to the three fits which will be shown on the map



Data Finder

Select Series

Patient Motion Correction

Parametric Maps

Compare Parametric Maps

Multiplanar Reconstruction

Pharmacokinetic Parameters

Regions of Interest

Reports

Help

Show Server Activity

	Min	Max	Mean	Std Dev
ME	1.137	11.875	2.23	0.859
IRE	0.001	1.181	0.036	0.062
IRW	-0	-0.166	-0.009	0.012
Tonset	0	176.063	17.268	19.664
Twashout	33.535	184.445	151.533	40.704
AUC	-3.905	1,692.509	169.213	135.855
PrePost	-45	57	-0.476	7.447

	Pixels	Area
Plateau	33,098	2,840.824
Persistent	1,671	143.423
Washout	5,464	468.979

Patient ID: 24007

Recent Parametric Maps settings for all series

Owner	Created on	Active Frames	Baseline	Filter	Min Tonset	Max Twashout
Romiesa	2014-07-22 15:47	All	1,2	None		
Romiesa	2014-07-22 16:28	All	1-3	None		
kaspermarstal	2014-07-16 17:16	All	All	None		
kaspermarstal	2014-07-17 11:14	All	All	None		
Romiesa	2014-07-22 16:05	All	All	None		
Romiesa	2014-07-22 16:05	All	1,2	None		
kaspermarstal	2014-07-16 17:30	All	All	None		
kaspermarstal	2014-07-16 17:30	All	All	None		
	2014-07-22 16:28		

Copy

Transfer saved settings to current series

Calculated

Reset

Show Progress

Last edited by Romiesa on 2014-07-22 16:28

Filter None ▾

Choose Parametric Maps smoothing filter

Active Frames All

Select frames to include in quantification

Baseline 1-3

Select pre-contrast frames to normalize image series

Min Tonset

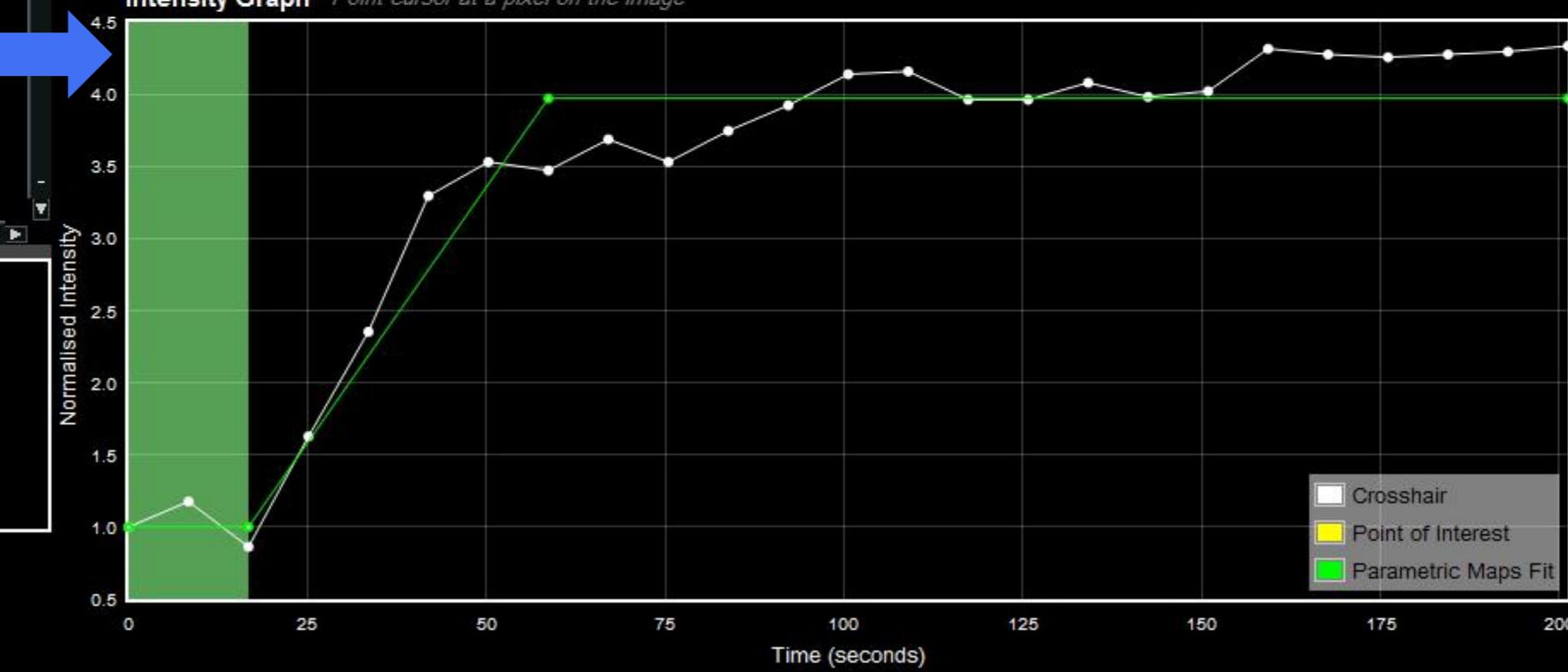
(Optional) Enter earliest allowed Tonset

Max Twashout

(Optional) Enter latest allowed Twashout

This graph is a plot of Signal intensities of the pixel under the cursor over time. This graph will also show the automatically calculated parametric fit

Intensity Graph - Point cursor at a pixel on the image



Logout

IAUGC60

Back

Next



Parametric Maps

Frame: 3 /25 (16.77 secs)

S A C

HRP

Patient ID: 24007

Recent Parametric Maps settings for all series

Owner	Created on	Active Frames	Baseline	Filter	Min Tonset	Max Twashout
Romiesa	2014-07-22 15:47	All	1,2	None		
Romiesa	2014-07-22 16:28	All	1-3	None		
kaspermarstal	2014-07-16 17:16	All	All	None		
kaspermarstal	2014-07-17 11:14	All	All	None		
Romiesa	2014-07-22 16:05	All	All	None		
Romiesa	2014-07-22 16:05	All	1,2	None		
kaspermarstal	2014-07-16 17:30	All	All	None		
kaspermarstal	2014-07-16 17:30	All	All	None		
	2014-07-22 16:25		

Copy

Transfer saved settings to current series

Calculated

Reset

Show Progress

Last edited by Romiesa on 2014-07-22 16:28

Filter None ▾

Choose Parametric Maps smoothing filter

Active Frames All

Select frames to include in quantification

Baseline 1-3

Select pre-contrast frames to normalize image series

Min Tonset

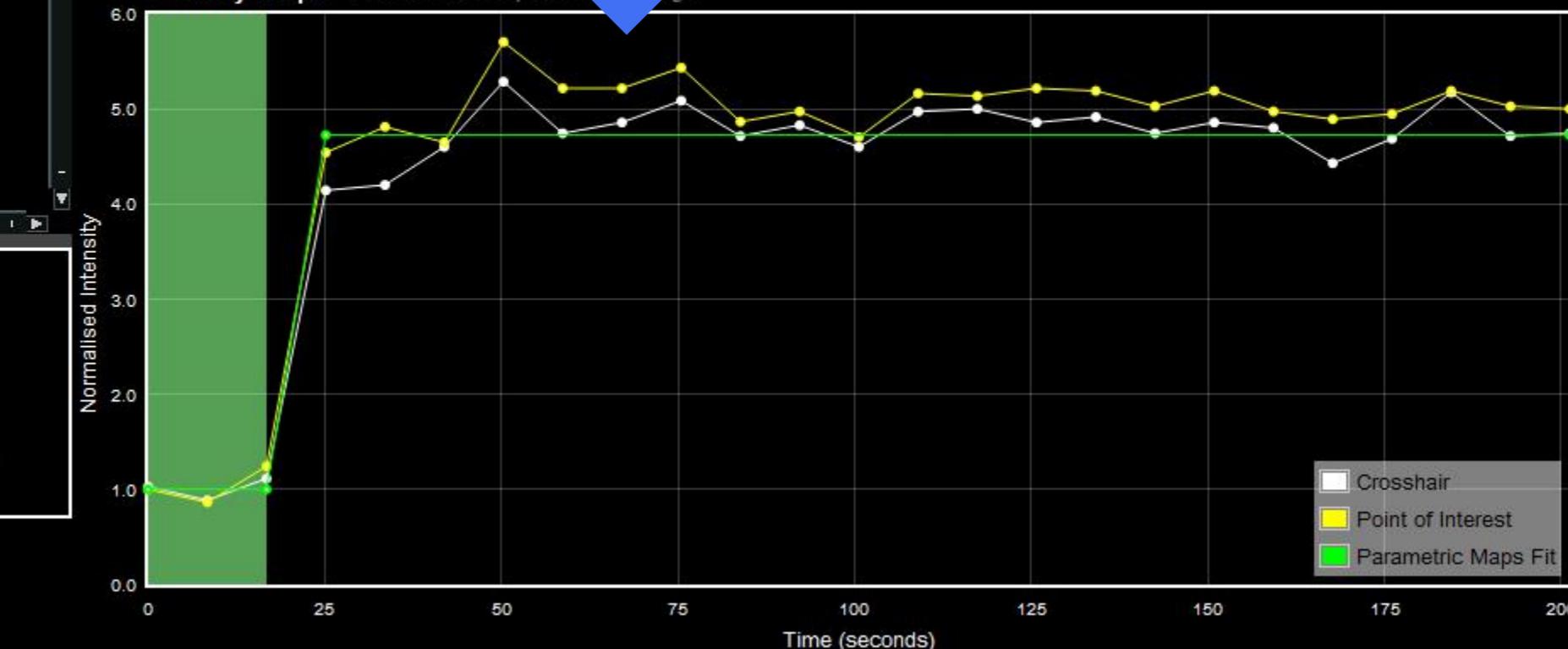
(Optional) Enter earliest allowed Tonset

Max Twashout

(Optional) Enter latest allowed Twashout

Double-clicking on a pixel will show a plot of the signal intensities over time for the point of interest (shown below in yellow)

Intensity Graph - Point cursor at a pixel on image



- Crosshair
- Point of Interest
- Parametric Maps Fit

v3.0

User: Romiesa

Licenses:

MSK

Map: IRE

0.1

RFP

Data Finder

Select Series

Patient Motion Correction

Parametric Maps

Compare Parametric Maps

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Show Server Activity

	Min	Max	Mean	Std Dev
ME	1.137	11.875	2.23	0.859
IRE	0.001	1.181	0.036	0.062
IRW	-0	-0.166	-0.009	0.012
Tonset	0	176.063	17.268	19.664
Twashout	33.535	184.445	151.533	40.704
AUC	-3.905	1,692.509	169.213	135.855
PrePost	-58	67	0.011	8.281

	Pixels	Area	ME
Plateau	33,098	2,840.824	4.725
IRE	0	0	0.444
Persistent	1,671	143.423	IRW
Washout	5,464	468.979	0
			Tonset 16.77
			Twashout 0
			Type PLATEAU

IAUGC60

Back

Next

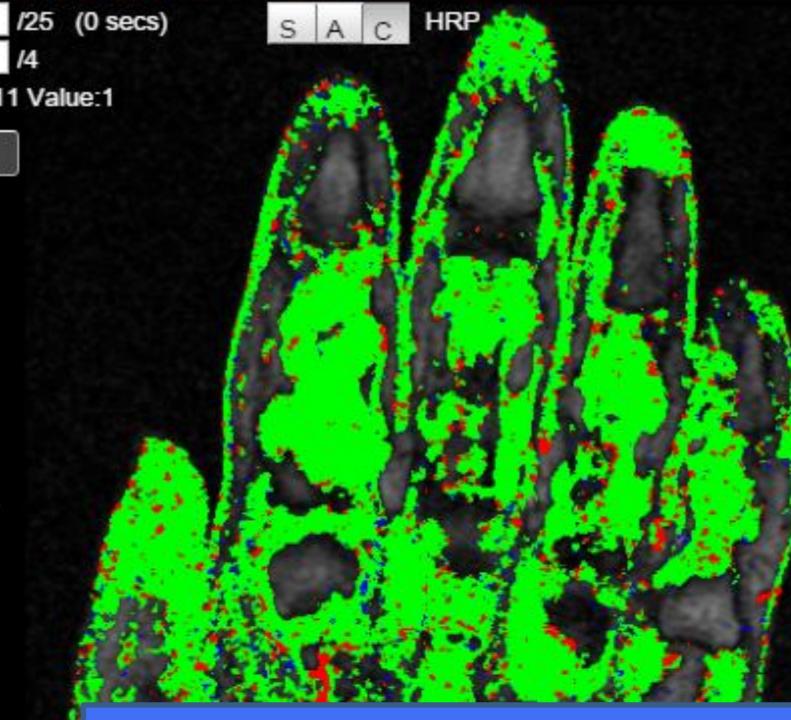
Logout



Compare Parametric Maps

Frame: 1 /25 (0 secs)
Slice: 4 /4
Pixel: 371,511 Value:1

GD



Contrast Uptake Pattern

Highlights absorption, retention and washout regions of tissue over time

Data Finder
Select Series
Patient Motion Correction
Parametric Maps
Compare Parametric Maps
Multiplanar Reconstruction
Pharmacokinetic Parameters
Regions of Interest
Reports

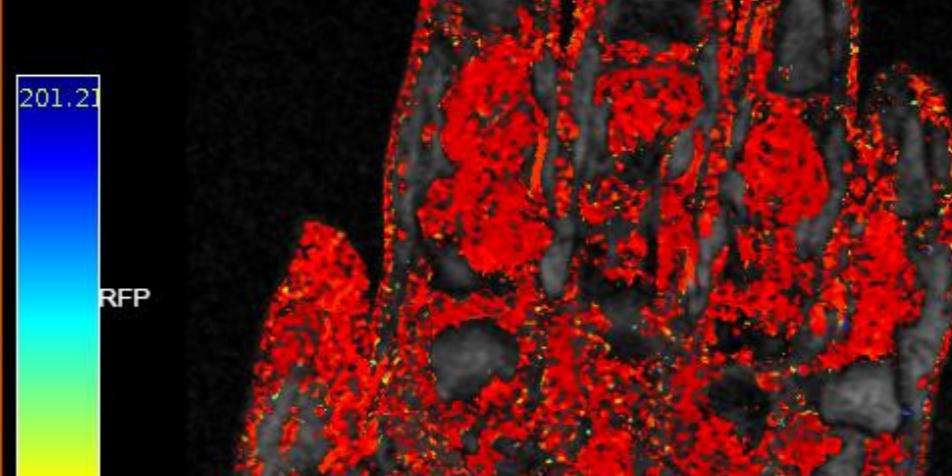
Help

Show Server Activity

Logout

Frame: 1 /25 (0 secs)
Slice: 4 /4
Pixel: 493,13 Value:0

Tonset



Maximum Enhancement

Highlights the maximum signal intensity reached by tissues over time

Frame: 1 /25 (0 secs)
Slice: 4 /4
Pixel: 525,79 Value:0

ME



Frame: 1 /25 (0 secs)
Slice: 4 /4
Pixel: -75,15 Value:0

Twashout

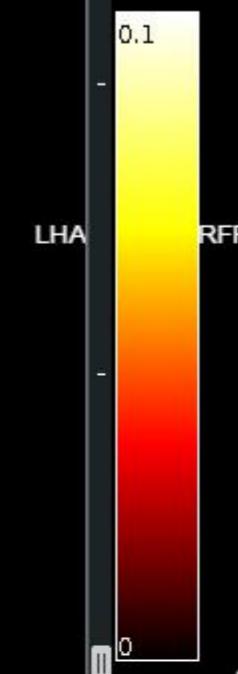


Initial Rate of Washout

Highlights how quickly contrast diffused out of tissues at the time of washout

Frame: 1 /25 (0 secs)
Slice: 4 /4
Pixel: 525,79 Value:0

IRE



Time on Onset

Highlights the time at which tissues stated absorbing contrast

Frame: 1 /25 (0 secs)
Slice: 4 /4

IRW



Initial Rate of Enhancement

Highlights how quickly contrast was absorbed by the tissues at the time of onset

Full patient information can be seen by clicking on the this button.



Multiplanar Reconstruction

Frame: 1 /12 (0 secs)
Slice: 110 /120 Info
Active Frames: All
Pixel: 255,0 Value:0
X:-103.13,Y:-62.11,Z:-129.61

v3.0

User: Romiesa

Licenses:
MSK

A different angle view can be chosen here, all image portlets will change accordingly. S A C correspond to Sagittal, Axial and Coronal

Map: AUC

534

Data Finder

Select Series

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0

S A C

H

L

Frame: 1 /12 (0 secs)

Multiplanar Reconstruction allows for 3 dimensional viewing of the series

Study ID: 511

Map: AUC

534

Parametric Maps can be visualised in all three portlets

Frame: 1 /12 (0 secs)

Slice: 109 /256 Info

Active Frames: All

Pixel: 148,134 Value:93

Study ID: 511

Map: AUC

534

Mask Parametric Maps

Frame: 1 /12 (0 secs)

Patient ID: a7764a8ep16696p

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Frame: 1 /25 (0 secs)

S A C

Slice: 1 /4 Info

Active Frames: All

v3.0

Study ID: 555

Map: None

User: Romiesa

Licenses:

MSK

HRP

Patient ID: 24007

1. Choose blood T1:
Blood T1 (ms): 1,4002. Choose tissue T1 input method:
 Import a T1 map series Manual tissue T1 entry

Choose map :

3. Choose Arterial Input Function (AIF):

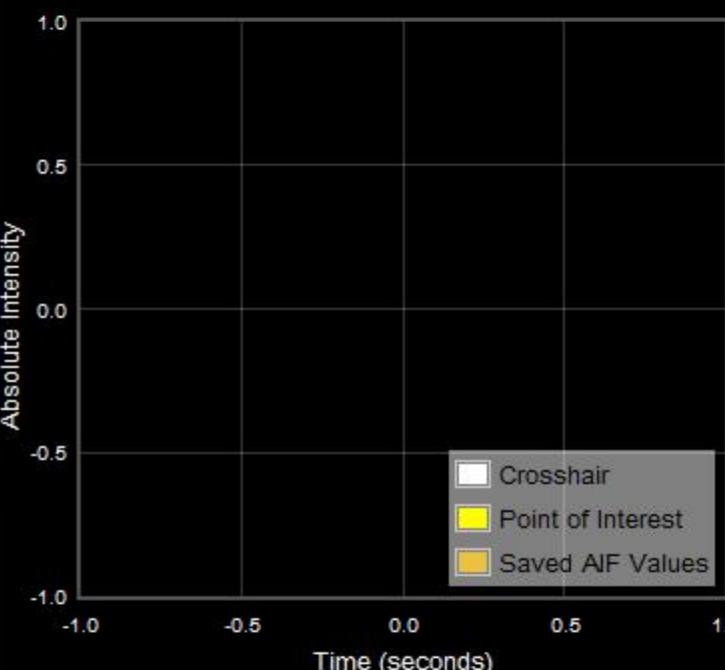
From point ▾

Double-click on a blood vessel and then

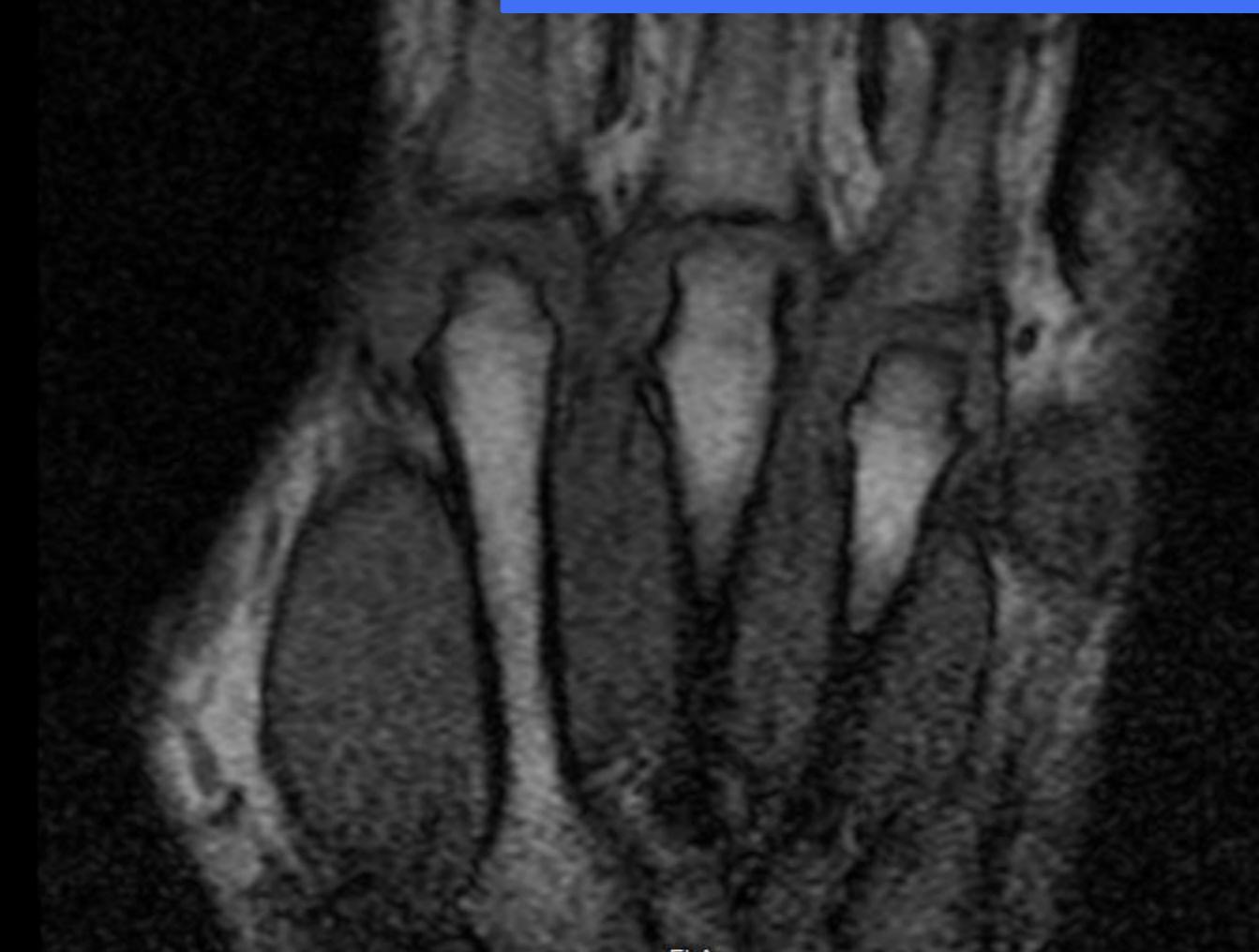
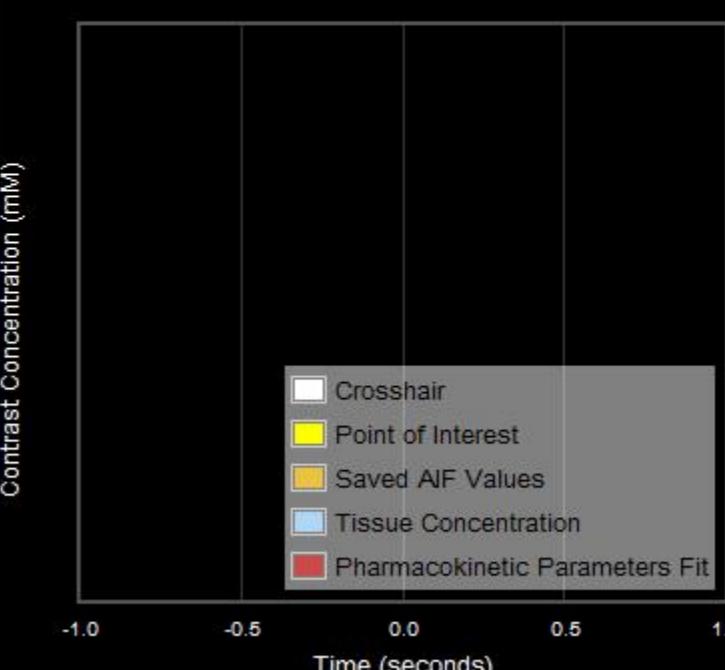
Edit the AIF by dragging points on the intensity graph

 Restrict Calculations to ROIs

Intensity Graph - Adjust AIF



Parametric Graph - Inspect Ktrans result



	Min	Max	Mean	Std Dev	Pixels	Area	ME
ME	1.141	13.063	2.323	0.905	Plateau	30,853	IRE
IRE	0.001	1.24	0.04	0.066	Persistent	1,654	IRW
IRW	-0	-0.231	-0.01	0.014	Washout	5,441	Tonset
Tonset	0	176.063	17.522	20.305			Twashout
Twashout	33.535	184.445	151.281	40.671			Type
AUC	-1.96	1,892.528	181.98	142.728			



Pharmacokinetic Parameters

Frame: 1 /25 (0 secs)
Slice: 1 /4 Info
Active Frames: All

v3.0

Study ID: 555

Map: None

User: Romiesa
Licenses:
MSK

RFP

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Mask Parametric Maps

A Value for blood T1 for the blood can be altered depending on your acquisition but a value of 1400ms is standard

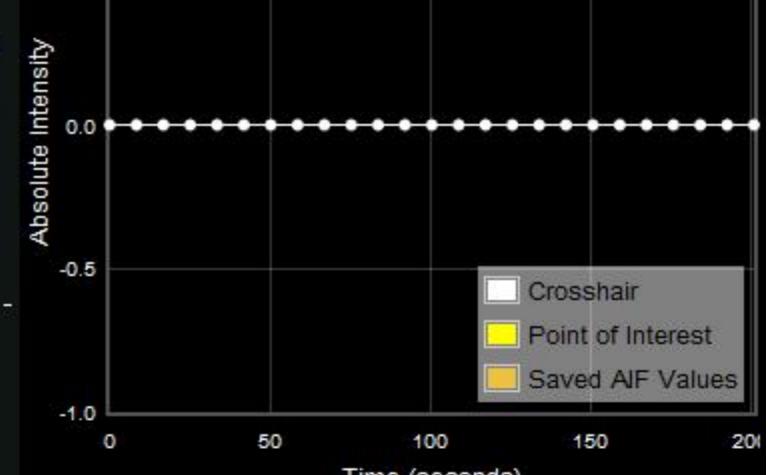
1. Choose blood T1:
Blood T1 (ms): 1,400

2. Choose tissue T1 input method:
 Import a T1 map series Manual tissue T1 entry

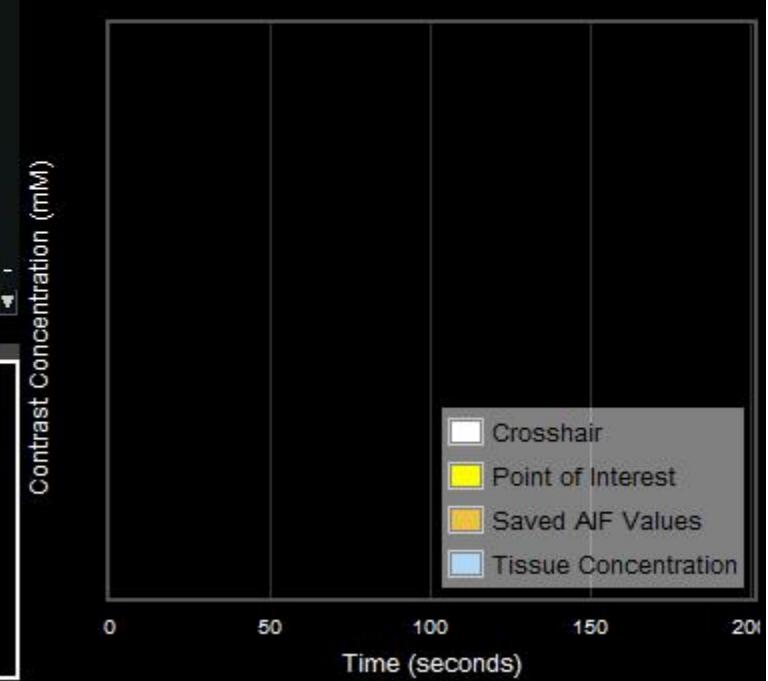
Choose map:

3. Choose Arterial Input Function (AIF):
From Map
Double click on a blood vessel and then

By selecting "Choose map" a T1 tissue value for each pixel can be imported from a map sequence that has the same size and shape as the dynamic series



Parametric Graph - Inspect Ktrans result



	Min	Max	Mean	Std Dev
ME	1.141	13.063	2.323	0.905
IRE	0.001	1.24	0.04	0.066
IRW	-0	-0.231	-0.01	0.014
Tonset	0	176.063	17.522	20.305
Twashout	33.535	184.445	151.281	40.671
AUC	-1.96	1,892.528	181.98	142.728

	Pixels	Area	ME
Plateau	30,853	2,648.134	IRE
Persistent	1,654	141.964	IRW
Washout	5,441	467.005	Tonset

Time (seconds)

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Next



Pharmacokinetic Parameters

Frame: 4 /25 (25.152 secs) S A C
 Slice: 1 /4 Info
 Active Frames: All
 Pixel: 626,191 Value: 0
 X:66.18,Y:183.55,Z:294.23
 Study ID: 555
 Map: None

v3.0

User: Romiesa
 Licenses:
MSK



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	Min	Max	Mean	Std Dev	Pixels	Area	ME
ME	1.141	13.063	2.323	0.905	30,853	2,648.134	IRE
IRE	0.001	1.24	0.04	0.066	1,654	141.964	IRW
IRW	-0	-0.231	-0.01	0.014	5,441	467.005	Tonset
Tonset	0	176.063	17.522	20.305			Twashout
Twashout	33.535	184.445	151.281	40.671			Type
AUC	-1.96	1,892.528	181.98	142.728			

FLA

Mask Parametric Maps

It is also possible to enter a T1 tissue value however this is less accurate

The Arterial Input Function (AIF) is the concentration curve for the blood which will be used in the compartmental model.

A model can be chosen which will generate concentration values from statistical averages based on the Dosage and the peak frame.

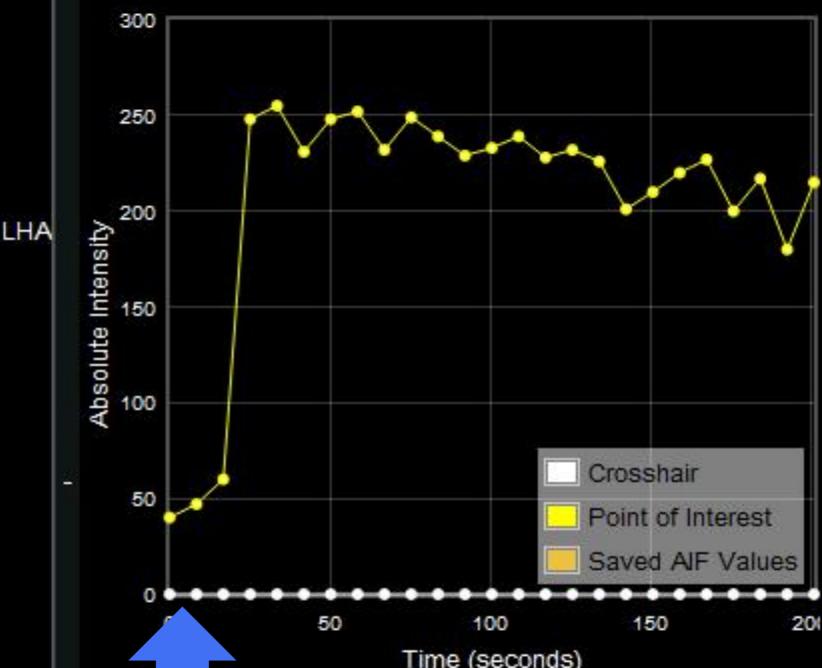
Alternatively if "none" is selected a point can be chosen from the image, in order to do this you must double click on a suitable pixel and click "save AIF". This will be combined with the Blood T1 value and the equation for gradient echo images to produce the AIF curve.

1. Choose blood T1:
 Blood T1 (ms): 1,400

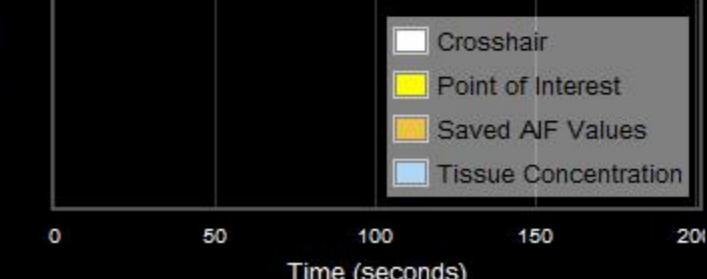
2. Choose tissue T1 input method:
 Import a T1 map series Manual tissue T1 entry
 Tissue T1 (ms): 800

3. Choose Arterial Input Function (AIF):
 From point
 Weinmann
 a blood vessel and then
 Restrict Calculations to ROIs

Intensity Graph - Adjust AIF



This graph shows the signal intensities over time for the pixel under the cursor



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Pharmacokinetic Parameters

Frame: 4 /25 (25.152 secs) SAC

Slice: 1 /4 Info

Active Frames: All

Pixel: 624,156 Value: 0

X:65.86,Y:183.54,Z:259.19

Study ID: 555

Map:

None

User: Romiesa

Licenses:

MSK

v3.0

HRP



Patient ID: 24007

1. Choose blood T1:
Blood T1 (ms): 1,400
2. Choose tissue T1 input method:
 Import a T1 map series Manual tissue T1 entry
Tissue T1 (ms): 800
3. Choose Arterial Input Function (AIF):
From point
Double-click on a blood vessel and then
Edit the AIF by dragging points on the intensity graph
 Restrict Calculations to ROIs

The Relaxivity for the contrast media can be changed by clicking "Change Relaxivity"

Change Relaxivity

Enter relaxivity value (default 4.5): 4.5

Typical values of longitudinal relaxivity for a range of commercially available contrast media

Contrast Brand Name	0.47 Tesla	1.5 Tesla	3.0 Tesla	4.7 Tesla
MAGNEVIST	3.4 +/- 0.2	3.3 +/- 0.2	3.1 +/- 0.3	3.2 +/- 0.2
GADOVIST	3.7 +/- 0.2	3.3 +/- 0.2	3.2 +/- 0.3	3.2 +/- 0.2
PROHANCE	3.1 +/- 0.2	2.9 +/- 0.2	2.8 +/- 0.2	2.8 +/- 0.1
MULTIHANCE	4.2 +/- 0.3	4.0 +/- 0.2	4.0 +/- 0.3	4.0 +/- 0.2
DOTAREM	3.4 +/- 0.2	2.9 +/- 0.2	2.8 +/- 0.2	2.8 +/- 0.1
OMNISCAN	3.5 +/- 0.2	3.3 +/- 0.2	3.2 +/- 0.3	3.3 +/- 0.2
TESLASCAN	1.9 +/- 0.1	1.6 +/- 0.1	1.5 +/- 0.2	1.6 +/- 0.1
OPTIMARK	4.2 +/- 0.2	3.8 +/- 0.2	3.6 +/- 0.3	3.8 +/- 0.2
RESOVIST	20.6 +/- 1.1	8.7 +/- 0.5	4.6 +/- 0.3	2.8 +/- 0.1
FERIDEX/ENDOREM	27 +/- 1.0	4.7 +/- 0.3	4.1 +/- 0.3	2.3 +/- 0.1
Gadomer	16.5 +/- 0.8	17.3 +/- 0.9	13.0 +/- 0.7	9.1 +/- 0.5
MS-325	5.8 +/- 0.3	5.2 +/- 0.3	5.3 +/- 0.3	5.5 +/- 0.3
PRIMOVIST	5.3 +/- 0.3	4.7 +/- 0.2	4.3 +/- 0.3	4.9 +/- 0.2
SH U 555 C	23.9 +/- 1.2	13.2 +/- 0.7	7.3 +/- 0.4	4.3 +/- 0.2

Rohrer et al., "Comparison of magnetic properties of MRI contrast media solutions at different magnetic field strengths", vol. 40, no.11, pp. 715-724 Investigative Radiology, Nov. 2005

RFP

FLA

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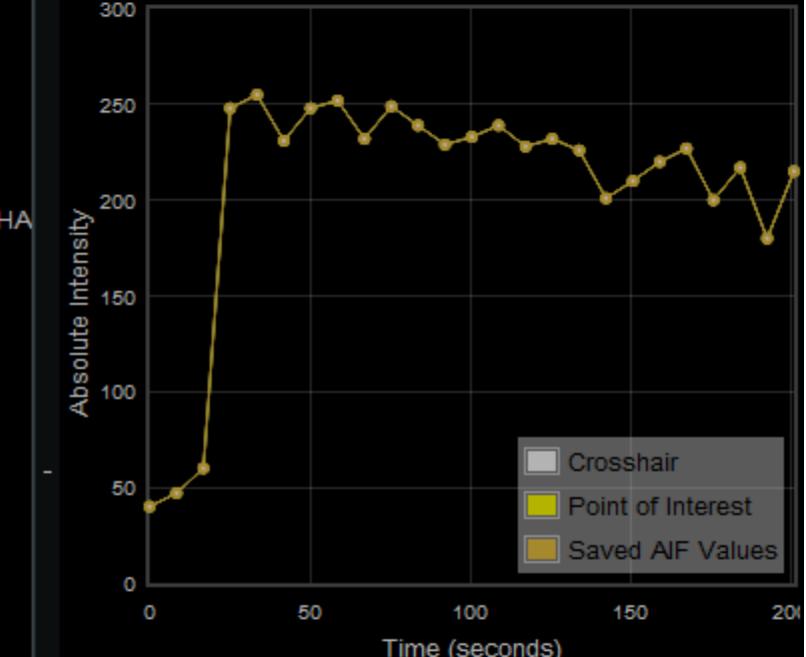
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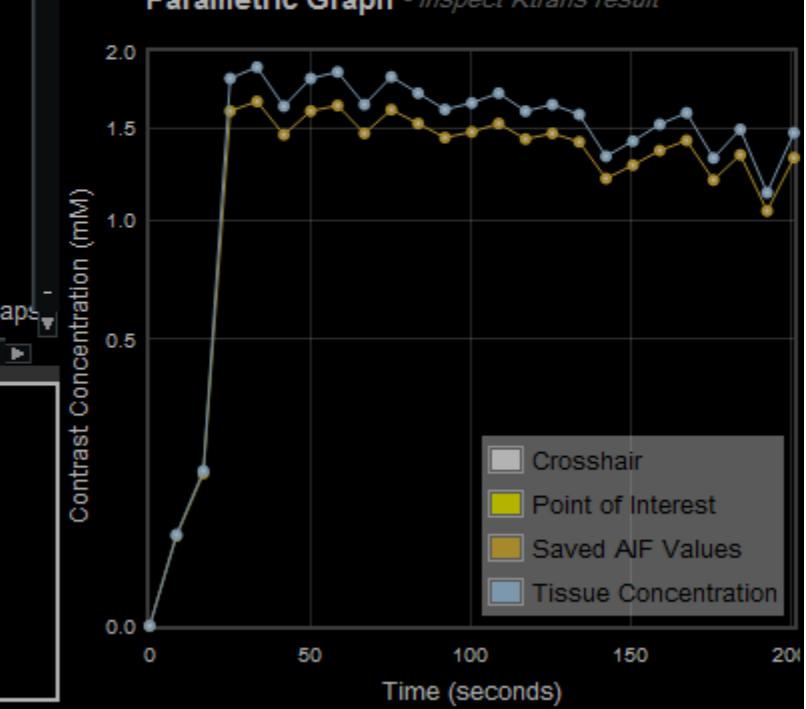
Show Server Activity

Logout

Intensity Graph - Adjust AIF



Parametric Graph - Inspect Ktrans result



	Min	Max	Mean	Std Dev
ME	1.141	13.063	2.323	0.905
IRE	0.001	1.24	0.04	0.066
IRW	-0	-0.231	-0.01	0.014
Tonset	0	176.063	17.522	20.305
Twashout	33.535	184.445	151.281	40.671
AUC	-1.96	1,892.528	181.98	142.728

	Plateau	Pixels	Area	ME	4.993
	Persistent	1,654	141.964	IRE	0.476
	Washout	5,441	467.005	IRW	-0.005
				Tonset	16.77
				Twashout	41.922
				Type	WASHOUT

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Pharmacokinetic Parameters

Frame: 8 /25 (58.688 secs) SAC

Slice: 2 /4 Info

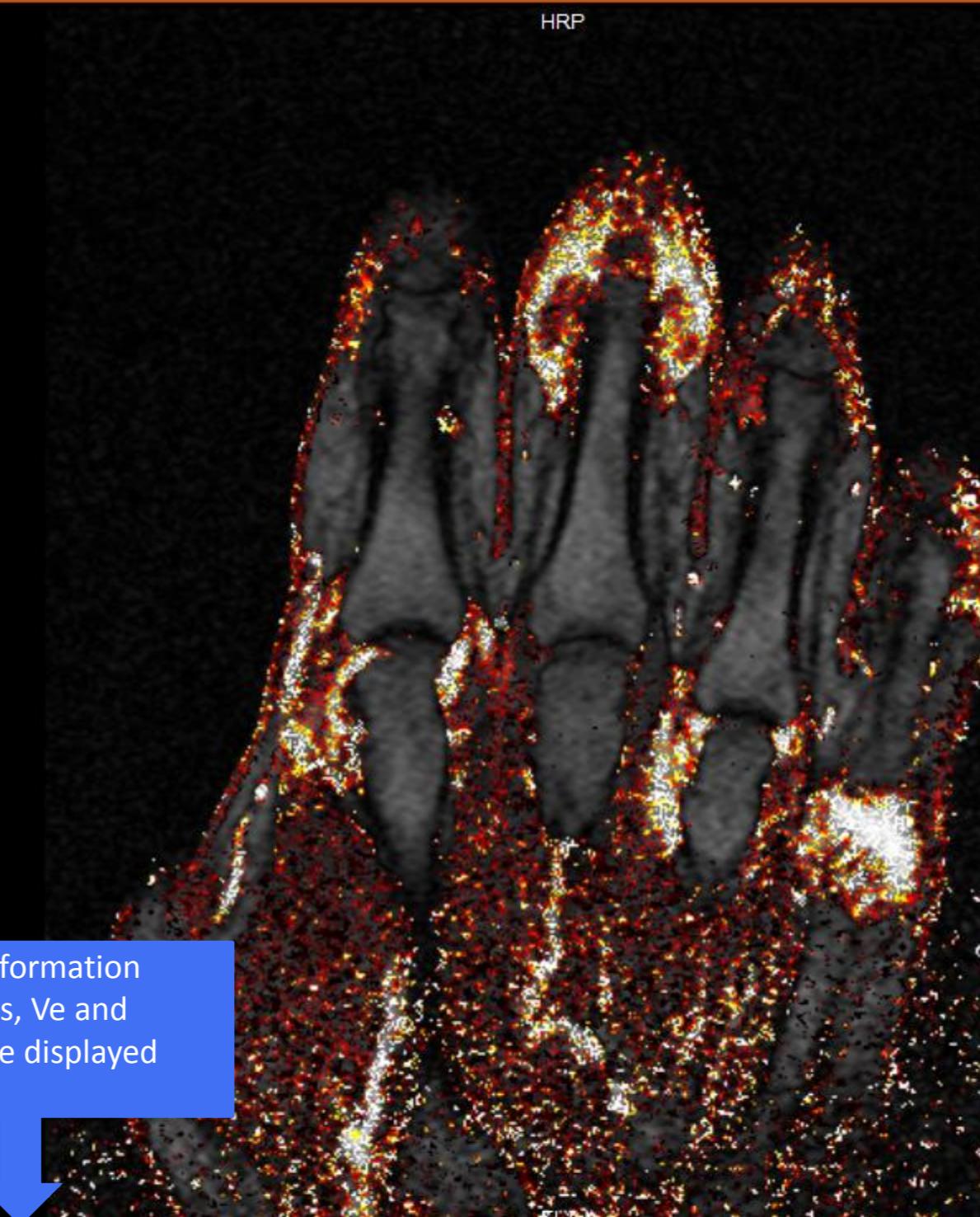
Active Frames: All

v3.0

User: Romiesa

Licenses:

MSK



	Min	Max	Mean	Std Dev	Pixels	Area
ME	1.204	24.6	2.927	1.391	Plateau	24,096 2,068.176
IRE	0.001	1.951	0.06	0.088	Persistent	1,750 150.204
IRW	-0	-0.208	-0.014	0.017	Washout	5,312 455.933
Tonset	0	176.063	17.551	22.593		
Twashout	33.535	184.445	148.995	42.384		
AUC	-3.198	3,695.249	265.159	222.165		
PrePost	-53	55	-0.264	8.527		
Ktrans	0	14.129	0.09	0.273		
Ve	0	1	0.248	0.245		
IAUGC60	15.799	0	0.214	0.458		

Logout

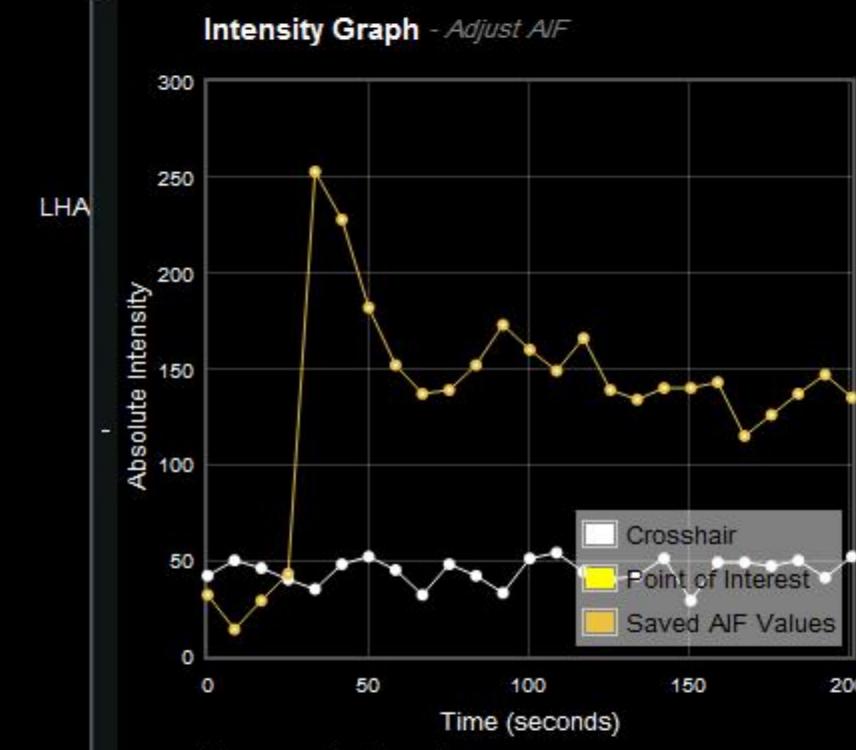
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Next

1. Choose blood T1:
Blood T1 (ms): 1,400

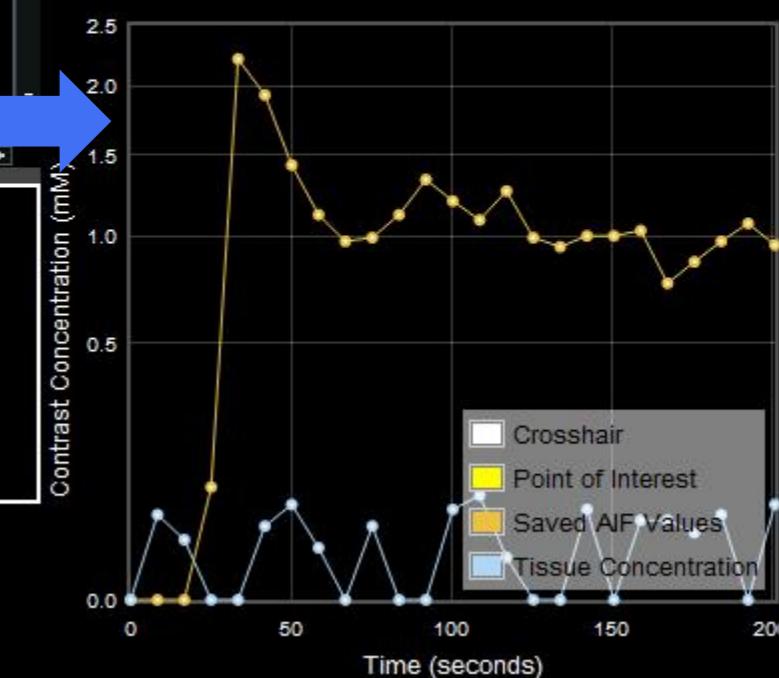
2. Choose tissue T1 input method:
 Import a T1 map series Manual tissue T1 entry
Tissue T1 (ms): 800

3. Choose Arterial Input Function (AIF):
From point
Double-click on a blood vessel and then
Edit the AIF by dragging points on the intensity graph
 Restrict Calculations to ROIs



Once Ktrans is calculated this graph will show Arterial Input Function concentrations (yellow), Tissue Concentrations (Blue) and the concentration of the pixel under the cursor (White)

Twashout
Type





Regions of Interest (ROIs)

Frame: 1 /25 (0 secs) S A C
Slice: 3 /4 Info

Active Frames: All
Pixel: -48,490 Value: 0
X: -86.46, Y: 60.17, Z: 570.73
Study ID: 251
Map: IRE

User: Romiesa
Licenses: MSK

RFP

0.1

0

HRP

LHA

FLA

Mask Parametric Maps

NewROI1 NewROI2 NewROI3

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a) Select a shape and colour to start drawing the ROIs

**b) Start drawing ROIs.
A rough ROI is sufficient as Dynamika only takes into account the highlighted pixels. After 5 seconds of inactivity, the mode will revert to the Select Mode**

Slice ROIs

ROI Name	Type	Slice	Area	Last Edited By	Last Edited On	Pixel Data
NewROI1	Polygon	1	3,299	RomiesaHagoug	2014-08-07 09:32	Request
NewROI2	Polygon	3	3,577	RomiesaHagoug	2014-08-07 09:32	Request
NewROI3	Polygon	2	3,896	RomiesaHagoug	2014-08-07 09:30	Request

Frame ROIs Group As Volume Copy Selected Delete Selected Delete All Restore Last Deleted ROI

Slices Last Edited By Last Edited On

Ungroup Selected Volume

Intensity Graph Intensities Normalised to baseline frames (1-3)

Normalised Intensity

Time (seconds)

Crosshair Point of Interest NewROI1 NewROI2 NewROI3

Area (pixels) 3870
Area (mm²) 332.16
Max (Intensity) 232
Mean (Intensity) 63.21
Std Dev (Intensity) 34.99
Norml Area (mm²)
Sum Norml (Positive)
Sum Norml (Negative)
Total Sum Norml
Std Dev Norml
Num +ve
Num -ve

ME 1.405 13.494 1.534 1.534
IRE 0.004 0.518 0.066 0.069
IRW -0 -0.06 -0.013 0.012
Tonset 0 108.988 12.646 10.173
Twashout 50.301 184.445 164.246 29.36
AUC 8.179 1,997.882 387.648 249.193
PrePost -43 37 -0.008 1.437
Ktrans
Ve
IAUGC60



Regions of Interest (ROIs)

Frame: 1 /25 (0 secs) S A C

Slice: 3 /4 Info

Active Frames: All

Pixel: 462,348 Value:0

X:28.87,Y:157.18,Z:445.61

Study ID: 251

Map: IRE

0.1

RFP

User: Romiesa

Licenses: MSK

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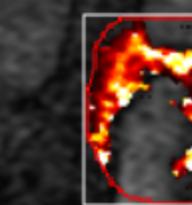
HRP

FLA

Patient ID: 24007

Slice ROIs

ROI Name	Type	Slice	Area	Last Edited By	Last Edited On	Pixel Data
NewROI1	Polygon	1	3,299	RomiesaHagoug	2014-08-07 09:32	<button>Request</button>
NewROI2	Polygon	3	3,577	RomiesaHagoug	2014-08-07 09:32	<button>Request</button>
NewROI3	Polygon	2	3,896	RomiesaHagoug	2014-08-07 09:30	<button>Request</button>



Statistics for each ROI will be shown in this table

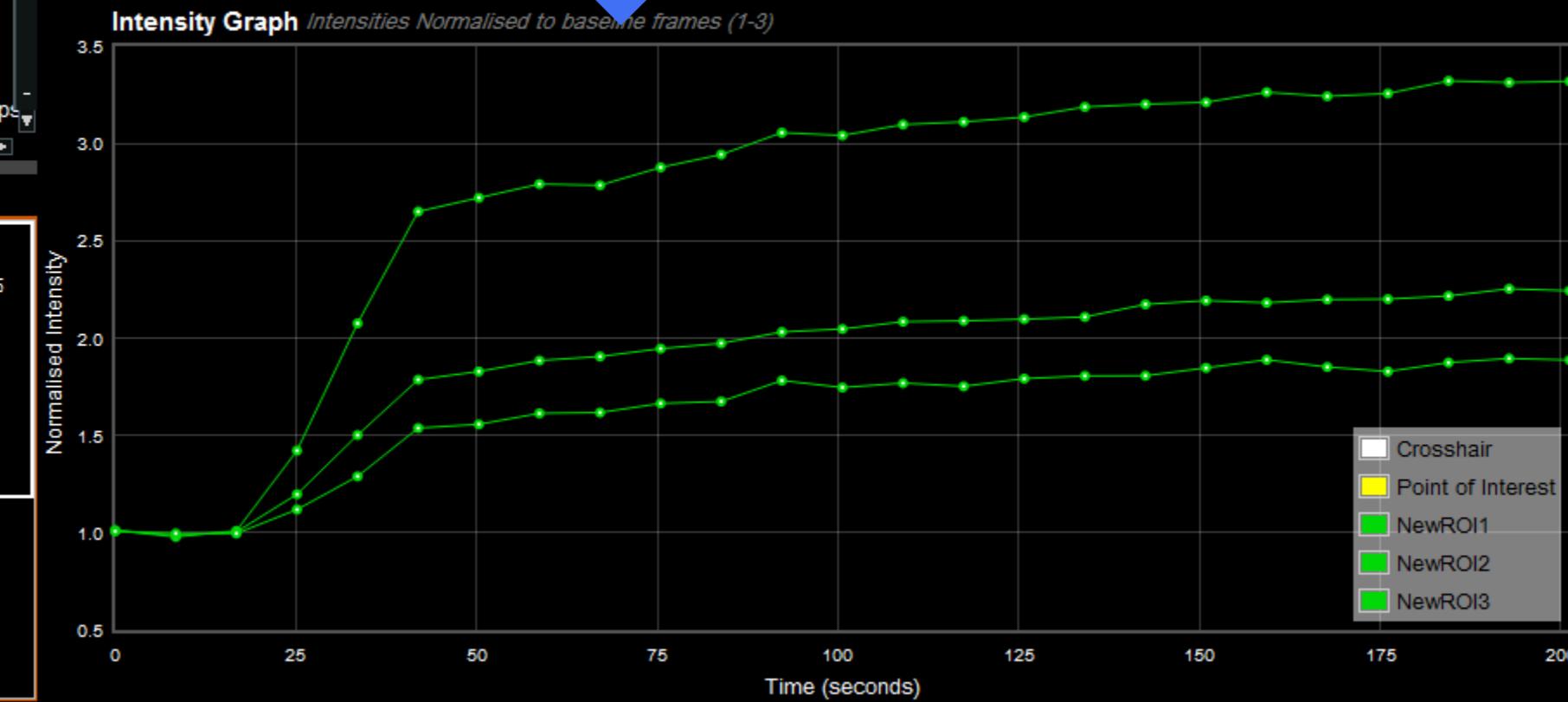
NewROI1 NewROI2 NewROI3

Area (pixels)	3877	Min	1.405	Max	13.494	Mean	1.534	Std Dev	1.534	Pixels	1,608	Area	138.016
Area (mm ²)	332.77												
Max (Intensity)	232												
Mean (Intensity)	63.19												
Std Dev (Intensity)	34.96												
Norml Area (mm ²)													
Sum Norml (Positive)													
Sum Norml (Negative)													
Total Sum Norml													
Std Dev Norml													
Num +ve													
Num -ve													
IAUGC60													

Selecting "Mask Parametric Maps" will only show the highlighted pixels in all ROIs

 Mask Parametric Maps

This intensity Graph will show the Normalised intensity for each of the ROIs. It will also show normalised intensities for the point of interest (Yellow) and pixel under the cursor (White)

 Ungroup Selected Volume

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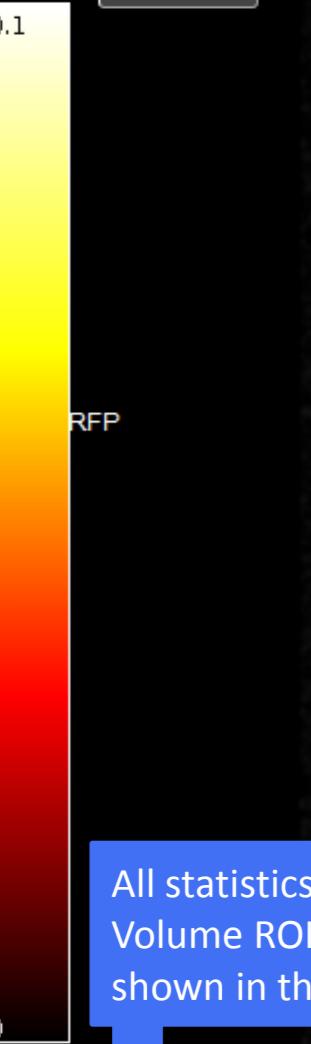
Regions of Interest (ROIs)

Frame: 1 /25 (0 secs)
 Slice: 3 /4 Info
 Active Frames: All
 Pixel: 527,475 Value: 0
 X:43.02,Y:168.02,Z:574.65

v3.0

User: Romiesa
 Licenses:
 MSK

Map: IRE



All statistics for the Volume ROI will be shown in this table

NewVolumeROI1

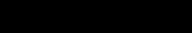
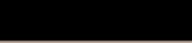
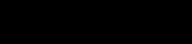
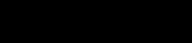
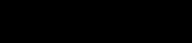
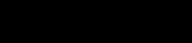
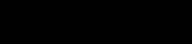
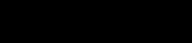
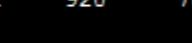
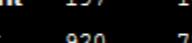
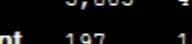
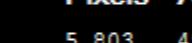
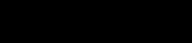
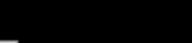
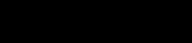
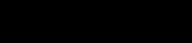
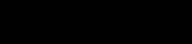
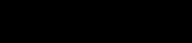
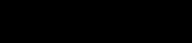
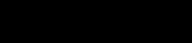
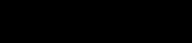
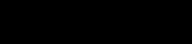
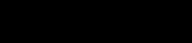
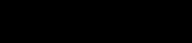
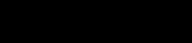
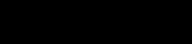
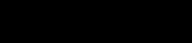
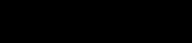
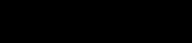
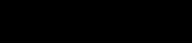
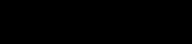
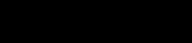
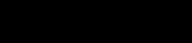
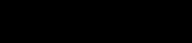
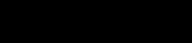
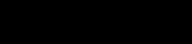
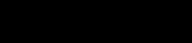
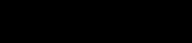
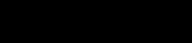
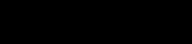
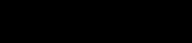
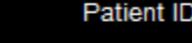
Volume (voxels):	11055
Volume (ml):	2.85
Max (Intensity)	275
Mean (Intensity)	73.25
Std Dev (Intensity)	47.34
Norml Volume (ml):	
Sum Norml (Positive)	
Sum Norml (Negative)	
Total Sum Norml	
Std Dev Norml	
Num +ve	
Num -ve	

	Min	Max	Mean	Std Dev
ME	1.294	13.494	1.659	1.659
IRE	0.002	0.705	0.065	0.07
IRW	-0	-0.072	-0.012	0.011
Tonset	0	176.063	13.189	14.857
Twashout	33.535	184.445	161.171	31.61
AUC	-0.861	1,997.882	384.118	273.678
PrePost	-43	39	-0.014	1.378

	Pixels	Area
Plateau	5,803	498.075
Persistent	197	16.909
Washout	920	78.964

Ktrans
 Ve
 IAUGC60

HRP





Select Series

Selected Studies

Compare Series

Deselect all

Show only dynamic

Patient Name: 24007

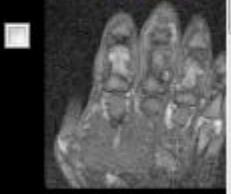
Patient Id: 24007

Study Date: 2011-11-22

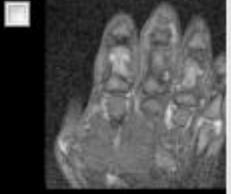
Institution Name: 24

Number of Series: 27

T1_flash_cor_dyn.
(Anflutung)
4 slices
26 time frames
Time Series



2D Motion Corrected,
Reference Frame 3,
T1_flash_cor_dyn.
(Anflutung)
4 slices
26 time frames
Time Series



v3.0

User: Romiesa

Licenses:

MSK

Data Finder

Select Series

Patient Motion Correction

Parametric Maps

Compare Parametric Maps

Multiplanar Reconstruction

Pharmacokinetic Parameters

Regions of Interest

Reports

Help

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Logout

Select a series, then either right-click on the image viewer or hit "Next" to continue your analysis

Frame: 1 /1 (0 secs)

S A C

Slice: 1 /4 Info

Active Frames: All

Pixel: -167,79 Value:0

X:-111.89,Y:36.21,Z:156.23

Study ID: 251

Map:

None

Statistical Maps:

None

Import

Norml

Variance

RFP

HRP

FLA

LHA

Static series usually have a higher resolution than dynamic series and can have different parameters which improve the visibility of the tissues of interest.

By importing the parametric maps from a dynamic series in the same study, a user will see clearly their tissue of interest and the added benefit of Parametric Maps.

- a) Select your static map in the “Select Series” screen
- b) Use the drop down menu to select “Import”



Select Series

Selected Studies

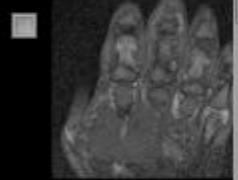
Compare Series

Deselect all

Show only dynamic

Patient Name: 24007
Patient Id: 24007
Study Date: 2011-11-22
Institution Name: 24
Number of Series: 27

T1_flash_cor_dyn.
(Anflutung)
4 slices
26 time frames
Time Series



2D Motion Corrected,
Reference Frame 3,
T1_flash_cor_dyn.
(Anflutung)
4 slices
26 time frames
Time Series



User: Romiesa

Licenses:

MSK

v3.0

Select a series, then either right-click on the image viewer or hit "Next" to continue your analysis

Frame: 1 /1 (0 secs)

S A C

Slice: 1 /4 Info

Active Frames: All

Pixel: -168,188 Value: 0

X:-112.53,Y:34.87,Z:265.12

Study ID: 251

Map: None

HRP

Patient ID: 24007

Import Parametric Maps from
a dynamic series

2D Motion Corrected, Reference Frame 3,
T1_flash_cor_dyn.
(Anflutung)
4 slices
26 time frames
Time Series



This pop-up will show the
dynamic series in this study
which have Parametric
Map results

c) Select the Dynamic
Series to import from

d) Select Import

Import

Cancel

Data Finder

Select Series

Patient Motion
Correction

Parametric
Maps

Compare
Parametric
Maps

Multiplanar
Reconstruction

Pharmacokinetic
Parameters

Regions of
Interest

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Help

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Next

RFP

FLA

LHA



Select Series

Selected Studies

Compare Series

Deselect all

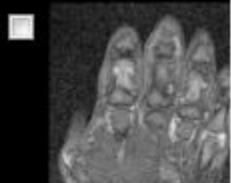
Show only dynamic

Patient Name: 24007
Patient Id: 24007
Study Date: 2011-11-22
Institution Name: 24
Number of Series: 27

T1_flash_cor_dyn.
(Anflutung)
4 slices
25 time frames
Time Series



2D Motion Corrected,
Reference Frame 3,
T1_flash_cor_dyn.
(Anflutung)
4 slices
25 time frames
Time Series



v3.0

User: Romiesa

Licenses:
MSK

Data Finder

Select Series

Patient Motion
Correction

Parametric
Maps

Compare
Parametric
Maps

Multiplanar
Reconstruction

Pharmacokinetic
Parameters

Regions of
Interest

Reports

Help

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Activity

Logout

Select a series, then either right-click on the image viewer or hit "Next" to continue your analysis

Frame: 1 /1 (0 secs)

S A C

Slice: 1 /4 Info

Active Frames: All

Pixel: -28,298 Value: 0

X: -81.43, Y: 59.94, Z: 379.64

Study ID: 251

Map:

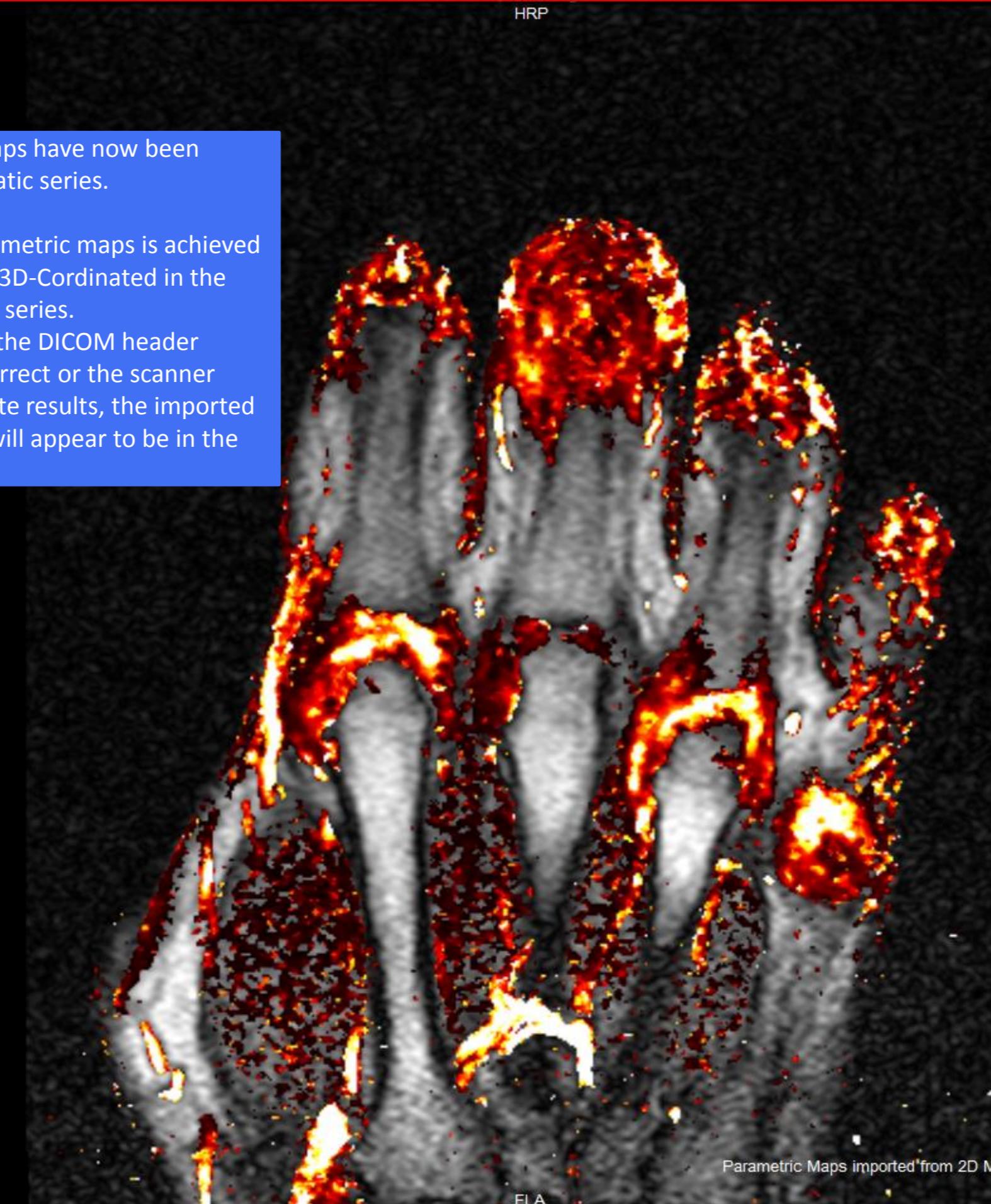
IRE

0.1

The Parametric Maps have now been imported to the static series.

The import of parametric maps is achieved by using the same 3D-Cordinated in the static and dynamic series.

This means that if the DICOM header information is incorrect or the scanner produced inaccurate results, the imported Parametric Maps will appear to be in the wrong place.



Patient ID: 24007



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Next

Report



v3.0

User: Romiesa

Licenses:

MSK

Choose a report type:

PDF

PDF

Summary PDF

Excel

MS Word

Report selected slices (optional):

Create report

 Show reports for current series

Study Id	Date	Report Type	Creation Date	Study Date	Patient Id	Patient Name	Body Part	Series Description	Download Report	Delete Report
5	Romiesa		07.08.2014	7				T1_flash_cor_dyn. (Anflutung)	<input type="button" value="Download"/>	<input type="button" value="Delete"/>

The drop down menu will show all the report types that can be generated.

You can select only certain slices to be included in the report.

The tick box can be used to only show reports for the current series.

All new reports will appear in this table and can be downloaded or deleted.



Select Series

Selected Studies

Compare Series

Deselect all

Show only dynamic

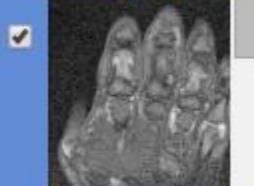
Pixel: 19.78 Value:6

X:-70.02,Y:71.05,Z:161.35

Study ID: 5

Map:

T1_flash_cor_dyn.
(Anflutung)
4 slices
26 time frames
Time Series



2D Motion Corrected,
Reference Frame 2,
T1_flash_cor_dyn.
(Anflutung)
4 slices
26 time frames
Time Series



T1_flash_cor_dyn.
(Anflutung)
4 slices
1 time frame
Static



T1_flash_cor_dyn.
(Anflutung)
4 slices
1 time frame
Static



T1_flash_cor_dyn.
(Anflutung)
4 slices
1 time frame
Static

User: Romiesa

Licenses:

MSK

v3.0

Select a series, then either right-click on the image viewer or hit "Next" to continue your analysis

b) Select "Compare Series"

a) Select the series you want to compare

A

C

HRP

S

A

C

S

A

C

HRP

Patient ID: 24007

Frame: 1 /25 (0 secs)
Slice: 1 /4 Info
Active Frames: All

Patient ID: 24007

Study ID: 5

Map:

LHA

RFP

LHA

FLA

FLA

Logout

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Next



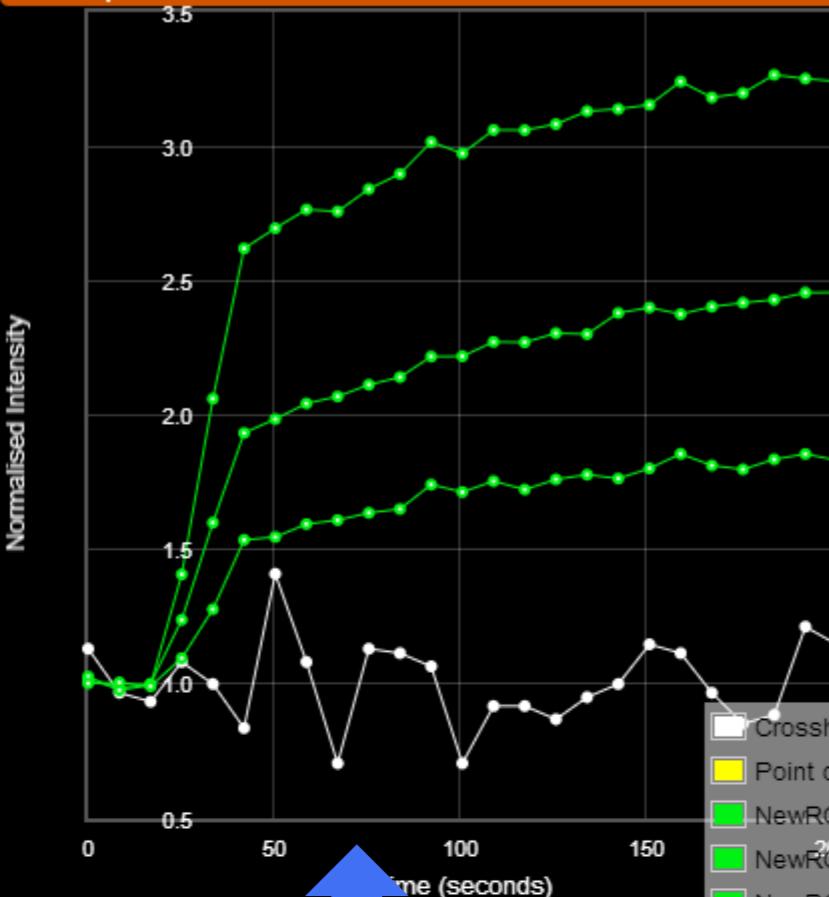
v3.0

User: RomiesaHag

Licenses:

MSK

Compare Series



Frame: 1 /25 (0 secs)
 Slice: 1 /4 Info
 Active Frames: All 3d
 Pixel: 83,505 Value: 69
 X:-57.23,Y:78.55,Z:590.14
 Study ID: 5

Map: None

Parametric Maps can also be displayed on each of the series.



Frame: 1 /25 (0 secs)
 Slice: 1 /4 Info
 Active Frames: All 3d
 Pixel: -23,405 Value: 0
 X:-80.71,Y:59.75,Z:486.73
 Study ID: 5

Map: None

Slice Stats Intensity Plot NewROI1 NewROI3 NewROI2

	Min	Max	Mean	Std Dev
ME	1.141	13.063	2.323	0.905
IRE	0.001	1.24	0.04	0.066
IRW	-0	-0.231	-0.01	0.014
Tonset	0	176.063	17.522	20.305
Twashout	33.535	184.445	151.281	40.671
AUC	-1.96	1,892.528	181.98	142.728

	Series 1	Series 2	Pixels	Area
Plateau	30,853	33,232 (+8%)	30,853	2,648.134
Persistent	1,654	1,579 (-5%)	1,654	141.964
Washout	5,441	5,286 (-3%)	5,441	467.005

This graph will show normalised intensities over time for both the ROIs, point on interest and pixel under the cursor.

Data Finder

Select Series
Mean Tonset
Mean IRE
Mean ME
Mean Twashout
Mean IRW
Mean AUC
Series 1
Plateau
Persistent
Washout
Series 2
Plateau
Persistent
Washout

Slice Stats Intensity Plot NewROI1 NewROI3 NewROI2

Slice Stats Intensity Plot

	Min	Max	Mean	Std Dev
ME	1.134	11.754	2.227	0.86
IRE	0.001	1.044	0.036	0.061
IRW	-0	-0.17	-0.009	0.013
Tonset	0	176.063	16.971	18.743
Twashout	33.535	184.445	150.526	40.649
AUC	-3.048	1,820.291	169.223	136.035

	Pixels	Area
Plateau	33,232	2,852.325
Persistent	1,579	135.527
Washout	5,286	453.701

Each series will have a table below it with statistics for Parametric Maps and ROIs and intensity plots

Help

Show Server Activity

Logout

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Click for information on:

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[Data Acquisition Guide](#)

[Publications](#)