

## What can we do for you?

The SMARTIS team can carry out **full image management** of scans on your behalf, or can tailor the service package according to your needs (manage, archive & review scans for running imaging trials / studies). We can also receive your completed imaging dataset to collate, catalogue and analyse (for completed imaging trials / studies).

### Contact us:

**Web:** [www.ed.ac.uk/edinburgh-imaging/smartis](http://www.ed.ac.uk/edinburgh-imaging/smartis)

**Email:** [smartis@mlist.is.ed.ac.uk](mailto:smartis@mlist.is.ed.ac.uk)

**Tel:** 0131 465 9564

 @EdinUnilImaging

**Neuroimaging Sciences** is part of **Edinburgh Imaging**, and we are delighted to be able to offer online distance learning courses, through the **Edinburgh Imaging Academy**.

[www.ed.ac.uk/edinburgh-imaging/academy](http://www.ed.ac.uk/edinburgh-imaging/academy)

The online courses cover all aspects of imaging. We offer an online MSc Imaging, online MSc Neuroimaging for Research, online Cert Applied medical image analysis and online Cert PET-MR Principles & Applications plus unsupervised & taught online short courses for CPD / CME.

## Neuroimaging Sciences

We are the leading neuroimaging research and teaching unit at the **University of Edinburgh**. We provide brain research scanning, MRI scanning and excellent image analysis.

As part of **Edinburgh Imaging** we work with many local, national and international clinical research groups to identify the causes of several common neurological diseases; identify and deliver new treatments or refine existing ones. We currently focus on the effects of vascular disease on the brain, ageing, and inflammatory markers.

### We have also successfully established partnerships with industry.

Our team work tirelessly with our local academic and industry partners to deliver scientific excellence in clinical neuroscience research and clinical practice; offering high quality, relevant research outputs and clinical trial support, with accurate, informed image analysis to reduce the burden of common neurological disorders.

#### References:

1. [The IST3 Collaborative Group, \*Lancet\*. 2012; \*\*379\*\*: 2352-63](#)
2. [The IST3 Collaborative Group, \*Lancet Neurol\*. 2015; \*\*14\*\*: 485-496](#)
3. [The ENOS Trial Investigators, \*Lancet\*. 2014; \*\*385\*\*: 617-28](#)

#### Ongoing trials/studies:

[LACI-3](#) (NIHR)                      [LACI-Cog](#) (Alzheimer's Soc)  
[ASPIRING](#) (BHF)  
[Mi-AF](#) (BHF)  
[R4VAD](#) (Stroke Assoc)

[www.ed.ac.uk/edinburgh-imaging/smartis](http://www.ed.ac.uk/edinburgh-imaging/smartis)

# SMARTIS

## Systematic Management, Archiving & Reviewing Trial Images Service



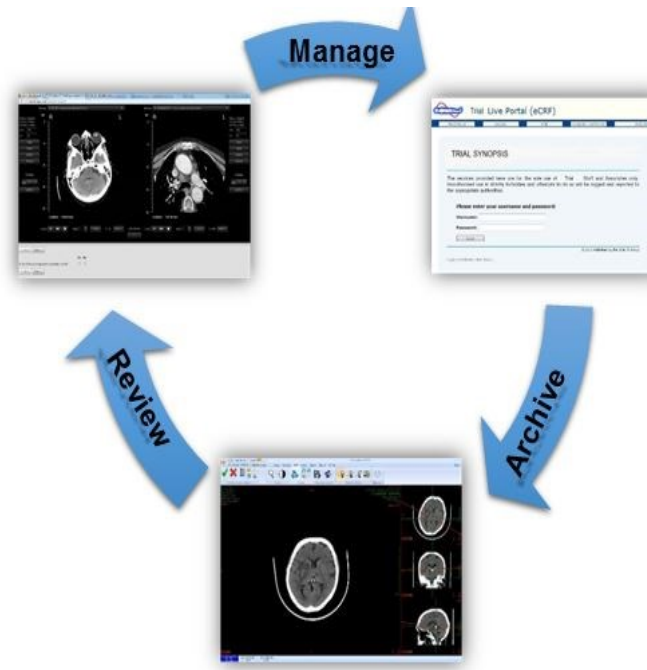
A unique and comprehensive package of services designed to support all aspects of medical image management for clinical research.

[www.ed.ac.uk/edinburgh-imaging/smartis](http://www.ed.ac.uk/edinburgh-imaging/smartis)



## SMARTIS delivers:

- Bespoke **image housekeeping** tailored to your requirements, including:
  - Secure image management database allowing access by individual trial centres' accounts
  - Quality control & validity checks on all image data received – all recorded in the housekeeping system
  - Secure transfer & archiving of images plus associated data
- **Image analysis online**
  - Image readers & analysts can make assessments remotely & securely, online
  - Standardised capture of assessments directly to the database.
  - Bespoke questionnaires humanize the image / assessment interface
- Offline **computational analysis** can also be performed on your behalf [optional]
- **Data analysis management**
  - Ensures image reading/rating is on time through proactive prompting of image readers & analysts [optional]
- **Scoping & analysis of pre-trial reader reliability** [optional]



**Systematic Image Review System (SIRS)**; our bespoke software package, enables secure, remote access to image databases & collation of reader assessments & analysis.

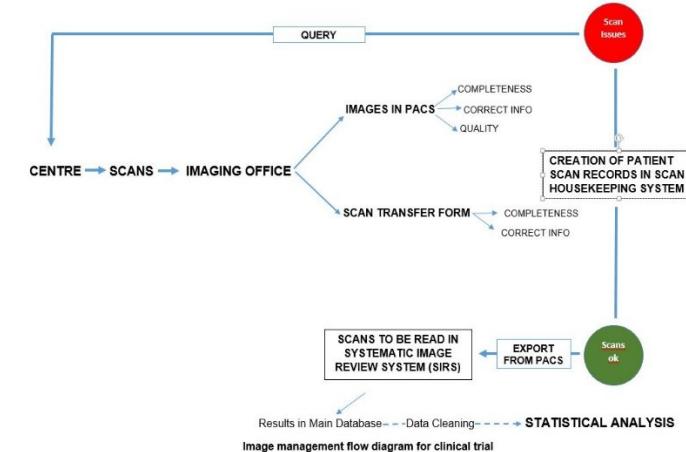
### SIRS functionality:

- Displays large medical imaging datasets rapidly via the web
- Suited to large observer reliability studies
- Accommodates all types of medical imaging
- Images can be linked to structured bespoke questionnaires
- Can be used as a CPD or teaching tool
- Images are fully anonymised
- Expensive radiologist time is optimized

### Access our SIRS demonstration page:

Login to: <http://sirs2.neuroimage.co.uk>

- Use a recent desktop version of Chrome, Firefox, Opera or Safari
- DO NOT USE Internet Explorer
- Use these demonstration login details:
  - Username: demo, Password: demo
- View sample cases listed in the left hand menu, including:
  - CT Angiography, CT Perfusion
- The sample scan reading questionnaire, can be modified to suit any trial



Once scans have been house-kept and pass the QA checks, they are then transferred onto SIRS. The demo job list exhibits a sample scan reading questionnaire, which is modifiable to suit any trial. The images can be assessed by expert readers who will complete the questionnaire which will then be processed onto the SIRS database. Results can be analysed to provide the required reports for your clinical trial.