

What Is FerriScan®?

FerriScan® is a magnetic resonance imaging (MRI) - based technology for the non-invasive measurement of liver iron concentrations (LIC).

Patient MR images are sent to Resonance Health for a FerriScan analysis where the patients LIC is quantified using our patented technology.

Key features of FerriScan®:

- *Non-invasive*
- *Accurately measures liver iron levels across a large dynamic range of LIC measurements*
- *Fast – 20 minute outpatient procedure*
- *Centralised data analysis ensures results can be compared between clinics*
- *Resonance Health provides quality assured analysis at our ISO certified data analysis facility.*

FerriScan® is being used in several clinical trials investigating the effects of iron chelation therapy.

Transfusional Iron Overload

Patients receiving regular blood transfusions are at risk of iron overload. One unit of red cells delivers approx 250 mg of iron to the body. The human body has no natural mechanism for excreting iron and iron chelation therapy is necessary to prevent iron-related tissue damage.

The therapeutic goals of the iron chelation therapy:

- Maintenance of iron balance
- Reduction in iron burden, depending on transfusion burden and baseline Liver Iron Concentration (LIC) levels.

Serum Ferritin

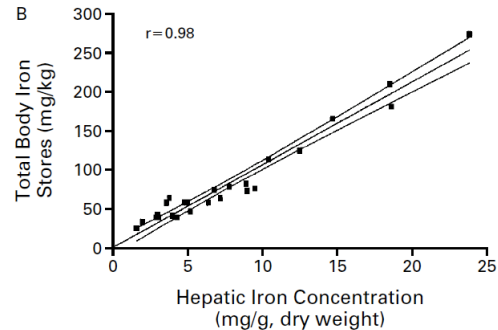
There is a weak correlation between serum ferritin and LIC as results are confounded by factors such as inflammation. Serum ferritin can only be used for monitoring trends in patient iron loading and does not give reliable information on the degree of patient iron loading.

Why is the measurement of LIC Important?

A patient's LIC value is the best measure of total body iron stores. FerriScan® enables clinicians to determine when chelation therapy should commence, how well it is working and adjust the therapy according to an accurate measurement of liver iron levels, minimizing the potential for organ damage.

TRANSFUSIONAL IRON OVERLOAD FACT SHEET

The graph below shows the very strong relationship between LIC and total body iron stores in thalassaemia major patients.



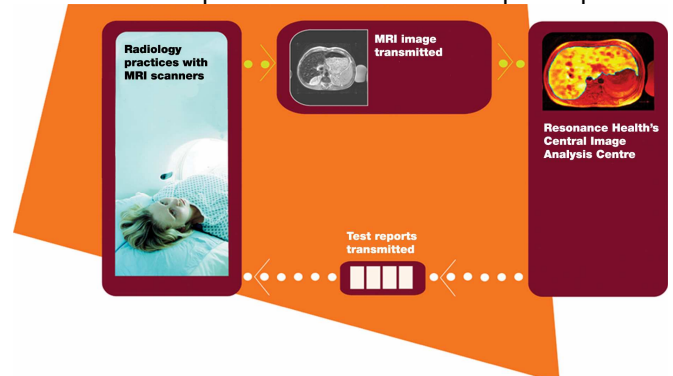
Angelucci et al, *N Eng J Med* 2000 : 343, 327-331 © 2000 Massachusetts Medical Society. All rights reserved.

Regulatory Approved

FerriScan® has regulatory approvals including FDA, Health Canada and CE Mark.

The FerriScan® Process

The FerriScan® process involves four simple steps:



1. Patients are required to spend approximately 20 minutes in the MRI instrument. *No contrast agent is administered.*
2. Image data are transmitted electronically to the FerriScan® Service Centre through a secure internet link.
3. The service uses a patented methodology for processing the MR images to generate a liver iron concentration (LIC) result.
4. LIC reports are made available to the MRI centre through the secure link within two working days.

Further Information

Please visit us at www.resonancehealth.com for further information or send an email to info@ferriscan.com

FerriScan is a service proudly delivered by: