



Example of innovative and best practice in the management of liver disease

Name of project:	Tayside iLFTs		
Project start date:	2014	Project end date:	ongoing
Submitted by:	Professor John Dillon – hepatologist, Dundee		

Introduction:

There is a growing epidemic of advanced liver disease, this could be offset by early detection. Testing LFTs should be an opportunity to allow early diagnosis, but abnormal LFTs are often incompletely investigated.

Aims:

We developed an automated investigation algorithm, which maximises diagnosis of liver diseases.

Actions:

The system work as follows:

GP requests LFTs on their electronic requesting system, they enter data about patients' alcohol consumption, BMI and features of metabolic syndrome.

In the laboratory If the LFT results are abnormal this triggers an automated cascade of additional tests in the laboratory on the same sample to find an cause (viral serology, liver immunology, iron studies, alpha 1 anti-trypsin, and caeruloplasmin) and stage fibrosis (Fib 4 and NAFLD fibrosis score) This information automatically populates the diagnostic algorithms to identify relevant diagnoses and management plan. There are 31 management plans in total.

The report is made available to the GP in real time for them to action. Access to the management plans is delivered electronically as web hyperlinks.

Results:

Using iLFT in a trial the diagnosis of liver disease was increased by 43%. It was cost-effective and a saving to the NHS of £3,216 over a patient lifetime.

Summary of the impact of this practice, project or intervention:

iLFT increases liver diagnosis, improves quality of care and is highly cost-effective. It is now standard care in NHS Tayside and is being rolled out in other sites across Scotland

Please delete as appropriate

Patient	<ul style="list-style-type: none">• Better clinical outcomes• Better use of technology• Improved patient satisfaction
Practice	<ul style="list-style-type: none">• Better clinical outcomes• Better use of technology• Financial savings / cost efficiencies• Improved data collection• Improved productivity• More patients seen

If willing please provide a contact email for General Practitioners who would like further information about your project:

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