

Your partner in innovation...



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Forthcoming events

'Profitable Partnerships in Health',
NIC Conference, London,
14th Sept

BME2006 Biomedical Engineering
Conference, Hong Kong,
21st -23rd Sept

Medipex AGM, 27th Sept

AfPP 42nd Annual Congress &
Medical Exhibition, Harrogate,
10th -12th Oct

Want to see good ideas from
NHS staff that we are
putting into practice? Visit: -
www.nhs-ennovations.com

Another success for Sheffield

Medipex have recently completed a commercial agreement for Sheffield Teaching Hospitals NHS Foundation Trust (STHFT) with T-Med Ltd which licences T-Med to produce a PC cart for storage and display of post-operation patient data.

The idea for the PC cart came about when the Trust's Medical Engineering Section (part of the Medical Physics Department) headed by Dr Ric Betts, was approached by Nikki Kearsley, (Project Manager – Theatre Management System) of the Operating Services Department to solve the problems of safety and comfort when using tablet PCs in the extremely busy environment of a post-operative recovery ward.



Although the tablet PC is designed to be carried, it is too heavy for clinicians to hold and enter data for any length of time. In certain environments it is not safe to leave them on a table top as they can be easily knocked off. Staff need the mobility of a cart but this certainly needs to be smaller than those currently available on the market that are not designed for tablet PCs. This arrangement of the PC cart allows a flexible keyboard to be connected to the tablet pc to ease data entry.

In response to these requirements, Medical Engineering designed, built and successfully introduced a small cart. It is very mobile, height adjustable, light and works well in a busy and congested clinical environment.

Eat Yourself Happy DVD

Research is continually showing us that the foods we eat can significantly affect how we feel both physically and mentally.

Therefore by making several positive changes to your diet it is possible to improve your mental health, and this comes with the added bonus of improving your physical health also.

Professor Malcolm Peet, a Consultant Psychiatrist and Caroline Stokes, a Research Nutritionist, present in the Eat Yourself Happy DVD how food

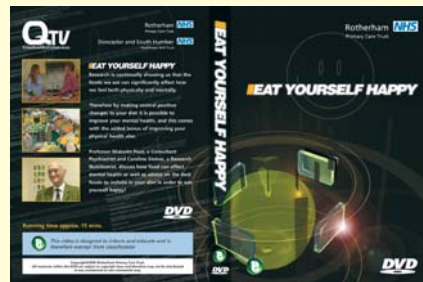
can affect mental health as well as advise on the best foods to include in your diet in order to 'eat yourself happy!'

The Eat Yourself Happy DVD which advises on nutritional approaches to depression was developed as part of the 'Nutrition and Mental Health Research Programme' at Doncaster and South Humber Healthcare NHS Trust. This programme was named the nation's best Mental Health Innovation in this year's Health Service Journal Awards.

'Eat Yourself Happy: Nutritional Therapy in practice at Doncaster and South Humber Healthcare NHS Trust' was presented by Caroline Stokes during the Diet and Depression conference recently held in London.

Copies of the Eat Yourself Happy DVD developed by Rotherham Primary Care Trust and Doncaster and South Humber Healthcare NHS Trust can be purchased from the NHS Ennovations store at:

www.nhs-ennovations.com



White Rose Health Innovation Partnership (WHIP) secures £4.7m to stimulate innovation in healthcare

The WHIP will focus on developing new methods and technologies to stimulate innovation and growth in Yorkshire's healthcare sector and will find a route for introducing and delivering these new innovations into an organisation such as the NHS at a faster rate than has previously been possible, bringing together the experience and expertise of Yorkshire's universities, health Trusts, global healthcare companies and US-based companies.

Medipex welcomes this initiative as a significant opportunity to advance patient care by improving the adoption rate of new technology. The next ten years will focus on radical treatments and diagnostics that incorporate nanotechnology,

biomedical materials and sensor technology.

The White Rose Health Innovation Partnership comprises of the White Rose University Consortium (universities of Leeds, Sheffield and York) who led the HEIF 3 bid; University of Bradford; Leeds, Sheffield and Bradford's Health Trusts; the National Health Technologies Knowledge Transfer Network; Yorkshire Forward; Medilink Yorkshire and Humber; Medipex the NHS Innovation Hub for the Yorkshire and Humber Region; three global healthcare companies, Smith & Nephew, Johnson & Johnson and B Braun; and in collaboration with two US-based companies, New Jersey Biotechnology Life Sciences Coalition and the International Accelerated Radical Innovation Institute in the University of Toledo, Ohio.

Richard Clark, CEO of Medipex is keynote speaker in Hong Kong's BME2006 Conference

BME2006 Conference on Biomedical Engineering, 21st - 23rd September 2006, Hong Kong.

BME2006 is a biennial conference organized by the Biomedical Division of the Hong Kong Institution of Engineers and will be held this year at the Hong Kong Productivity Council, Kowloon. Richard Clark, CEO of Medipex has been asked to be the keynote speaker at this conference and this year's theme is 'Education, Research and Industry in Biomedical Engineering'. Based on the successes of the previous BME conferences held between 1992 and 2004, this Conference will continue to allow for the latest information exchange amongst academic professionals and community practitioners, as well as provide a discussion forum on how to facilitate education, research and industrial activities in Biomedical Engineering.

The Conference will give local and international biomedical engineers, scientists, managers, and other healthcare professionals a great opportunity to present their latest research achievements and exchange ideas on modern advances in biomedical engineering, healthcare and technology.

Support for Clinical Trials and Interface between NHS and Healthcare Industry

Medipex has obtained funding from the DTI and Yorkshire Forward to undertake a clinical expertise mapping exercise which will cover the whole of the Yorkshire & Humber Region.

What makes this exercise different is that it will provide comprehensive coverage of all clinical expertise, not just that of medically qualified staff, but of nurses and all other healthcare professionals as well. The purpose is to generate a comprehensive database of clinical expertise to enable Trusts and universities to form collaborative partnerships for research and clinical trials. Likewise, companies specialising in both pharmaceutical and medical device products who wish to engage Trust staff in research collaborations or clinical trials will be able to do so via officially approved routes. Therefore staff participating in such collaborations (and their host Trusts), will be properly recompensed for their time and expert input.

We will soon be launching the project across the region and will be asking hospital staff to complete a short questionnaire, either directly on a secure area of the Medipex website, or if they prefer, by post.

Partnership – a successful model for Innovation

by Richard Clark CEO of Medipex



It is 2½ years since Medipex was set up and I am delighted to report to you on what we feel is excellent progress to date.

Medipex is a not for profit business that spun out from the NHS and now has 7 full-time staff. We have entered into partnership arrangements with 33 NHS Trusts and assessed over 350 ideas. Currently we have an active case load of over 50 projects that are being progressed. In addition we have helped to put in place 11 commercial exploitation deals that have brought back in over \$50,000 in licence income. We work with each Trust on an intellectual property exploitation policy that recognises the contribution made by the inventor and their colleagues/Clinical Directorate so that the benefits of our activities flow back in to the NHS at all levels.

We have directly helped to create two new companies, both at an embryonic stage, but with the exciting prospects of entering a £1 billion market. The first spin out, Aperio Diagnostic Ltd (reported in an earlier newsletter), involves Dr John Tidy, a consultant gynaecologist at Sheffield Teaching Hospital and is developing a portable diagnostic probe that will significantly boost the detection rates for cervical cancer. The second company is

Leeds Reproductive Bioscience Ltd and will be covered in a later edition of our newsletter. If successful, these companies will create a significant legacy for the NHS through the introduction of vital new products and services and through the creation of wealth that comes directly back to the Trusts and the inventors. We have also developed a good understanding of the issues surrounding NHS Trusts and part ownership of spin out companies and can offer this as a stand alone service to any Trust or Health Authority.

It is very easy to sound complacent and this would be giving entirely the wrong message to everyone. We are only just at the start of what, I personally feel, will be an exciting but relatively long path to becoming financially self supporting and a net contributor of income to the NHS. We cannot operate without hearing from you, our partners, with your suggestions and good ideas.

In summarising our achievements to date we have:

- A private sector led board with a public sector role
- Secured contracts with 33 NHS Trusts to deliver a managed IP service
- Identified > 350 ideas and actively taking forward ~ 50
- 11 commercial deals (licensing, spin outs, direct sales)
- Majority of deals ~ £20m potential market value (2 deals looking at > £0.5 billion market)
- Filed 14 patents, 2 trademarks and 18 cases of copyright
- Partner on research contracts to value £1.63 million
- 2 spin out companies
- Several more spin outs under active consideration



New Design Right Fact Sheet Available

Medipex, in conjunction with 2006 Innovation Competition sponsor Urquhart-Dykes and Lord LLP have produced a new fact sheet about design right. As well as containing some information about this form of intellectual property, the fact sheet also contains answers to some frequently asked questions about design right. The fact sheet is freely available to all and can be found on the Medipex website www.medipex.co.uk. Over the next couple of months fact sheets about working in collaborations and for patents will also be launched.

Welcome to our latest members: East Yorkshire PCT and Yorkshire Wolds & Coast PCT.
Membership now stands at 33 and a full list of members is given below:

Airedale NHS Trust
Airedale PCT
Barnsley Hospital NHS Foundation Trust
Barnsley PCT
Bradford District Care NHS Trust
Bradford South & West PCT
Bradford Teaching Hospitals NHS Foundation Trust
Calderdale and Huddersfield NHS Trust
Doncaster & South Humber Healthcare NHS Trust
Eastern Wakefield PCT
East Leeds PCT

East Yorkshire PCT
Harrogate and District NHS Foundation Trust
Hull & East Yorkshire Hospitals NHS Trust
Humber Mental Health Teaching NHS Trust
Leeds Mental Health Teaching NHS Trust
Leeds Teaching Hospitals NHS Trust
Leeds North West PCT
North & East Yorkshire and North Lincolnshire SHA
North Sheffield PCT
Rotherham PCT
Scarborough & North East Yorkshire Healthcare NHS Trust

Sheffield Care NHS Trust
Sheffield Children's NHS Trust
South East Sheffield PCT
Sheffield South West
Sheffield West PCT
Sheffield Teaching Hospitals NHS Foundation Trust
South West Yorkshire Mental Health NHS Trust
Tees, East & North Yorkshire Ambulance Service NHS Trust
West Hull PCT
York Hospitals NHS Trust
Yorkshire Wolds & Coast PCT

Nurses at the forefront in NHS innovations

Nurses are a major part of the NHS workforce; there are approximately 40,000 nurses in the Yorkshire and Humber Region alone. They are central to patient care providing a direct and immediate interface to the patients and their families.



Statistics from our annual Innovation Competition show that they are also the most innovative group of NHS staff, contributing over 40% of the competition entries. Nurses are by nature innovative – they have to be as they are at the forefront of patient care at every level, adapting existing technology and services to meet the needs of their patients. Innovations may contribute to patient care directly or by helping staff to do their jobs more effectively. Ideas which are tangible tend to be more commercially viable than service delivery innovations relating to new or improved services. Such tangible ideas can potentially generate income for the inventor, the employing Trust and the inventor's Unit/Ward/Department.

Some examples of tangible ideas are medical devices/equipment; for example the Drip Stand (for more details see page 4 of this newsletter), the Cast Blower which is a battery powered device to promote comfort for plaster cast wearers; diagnostics and therapies like an eye infection pack (antibiotic combined with an eye patch); and pharmaceutical products or medical software. For more case studies visit our website www.medipex.co.uk or www.nhs-innovations.com

So come on Nurses let us help you develop the full potential of your ideas. Contact Medipex on: 0113 392 6454, email us at enquiries@medipex.co.uk or visit our website and complete an Invention Disclosure Form.

Attend Medipex AGM and get £5,000!

You are cordially invited to attend the Medipex AGM which will take place on September 27th at 5pm and hear about how you could access up to £5,000 in cash to develop or exploit your idea.

In 2004, Medipex successfully obtained £0.25 million to establish a 'Proof of Concept' fund. Since then we have set up a Project Advisory Committee to oversee our use of PoC funds and to date we have invested some £180,000 in over 36 NHS projects.

Medipex would like to invite staff of our NHS members to apply for up to £5,000 for the development of good ideas arising from their NHS work. You will learn about how to apply for funding, what we are looking for, and hear of examples of what we have already supported. An application form will be available at the AGM.

Please note: this applies to members only, please see page 2 of this newsletter for a list of Member Trusts. If you would like to attend the AGM, please contact Stephanie Bridgford on 0113 392 6454 or visit our website at www.medipex.co.uk

We are seeking Commercial Partners for:

- Fibreoptic Bougie (ref: 141). Device for emergency tracheal intubations.
- Urological Digital Diary (ref: 419). Digital diary for urological problems.
- Colorectal surgery (ref: 515). Training device for colorectal surgery.
- Lifting Device (ref: 538). Padded cocoon with lifting and carrying straps for patient lifting.
- Stretcher Accessory Support (ref: 540). Oxygen bottle and drip retainer for use with stretchers.
- Hip Stick (ref: 701). A specialist tool for accurately assessing wheelchair users' requirements.
- Radiology Training Simulator (ref: 705). An augmented reality simulator for training of Ultrasound guided needle insertion procedures.
- Personnel Management database (ref: 128). Staff training and record system, contact info, details of training, CPD and HR records, compliant with National Framework.
- Radiographic Callipers (ref: 440). Allow the accurate sizing of prosthetics from X-ray images.
- Focussed Imprinted Gene Array (ref: 429). Development of a focussed gene expression micro array.
- Digital Video Sleep Monitoring System (ref: 433). Sleep monitoring system for assessing sleep apnoea in patient's own home.

What is Medipex?

Medipex is the NHS Innovation Hub for the Yorkshire and Humber region. It is one of a national network of NHS Innovation hubs that manage and exploit Intellectual Property (IP) within the NHS.

IP is any new idea or invention. Such ideas can arise out of routine work as well as research and may result in a product which is commercially valuable.

Example ideas are:

- **Medical Devices and Equipment**
E.g. Motorised Drip Stand used in operating theatres to lift heavy irrigation bags.
- **Diagnostic and Pharmaceutical**
E.g. Novel solution for storing transplant organs; a cancer diagnostic technique to aid cancer detection.
- **Pharmaceutical products and processes**
Medical Software
E.g. Software tool to assess motor skills and IT capabilities of users of electronic assistive technology.
- **Pharmaceutical products and processes**
Training Materials
E.g. Toolkit to distinguish between service evaluation, research and clinical audit.
- **Radiotherapy**
E.g. Software procedure to assess digital image manipulation, radiographic callipers to accurately size prosthetics from X-ray images.

What can Medipex provide?

- Confidential advice and guidance
- Identification, assessment and exploitation of inventions/ideas
- Expert advice e.g. legal, financial, commercial, sources of funding
- Provision of proof-of-concept funding: buying out time, market intelligence
- Commissioning of prototypes and clinical trials
- Identification of commercial partners and collaborators
- Project management and ongoing support
- Brokering of collaborative R&D (industry and NHS)
- Supporting commercially sponsored research and trials
- Innovative services: business plans, spin out companies, joint ventures

What next?

All the above services are free to you providing that you work for an NHS Trust based in Yorkshire & Humber and your Trust is a member of Medipex. If you are unsure whether your Trust is a member, please see the list on page 2 or contact Medipex on the number below. Any enquiry whether your Trust is a member or not will be treated in strictest confidence and if we can, we will give guidance over the phone.

Feedback

Do you have any comments on issues raised in this newsletter or would you like us to write about your idea? If so email us at enquiries@medipex.co.uk

Motorised Drip Stand

Overview

A new design of motorised drip stand that offers an ergonomic loading height which circumvents potential health and safety risks of current models. It is a simple, easy-to-operate powered drip stand.

Problem

Urological procedures have high volume irrigation requirements and to ensure adequate head pressure and flow rates, bags of saline or glycine have to be elevated to heights well above shoulder height. Standard drip stands provide no assistance to theatre staff in raising irrigation bags to the required height and even mounting bags onto them can be a challenge for many shorter theatre nurses and ODAs, because the stands cannot be lowered to shoulder height. Such a repetitive manual task can place theatre staff involved in urological procedures at risk of both acute and chronic back and shoulder injuries.

Solution

Clinical engineers and technologists at Sheffield Teaching Hospitals NHS Foundation Trust have designed a product which provides a safe method to elevate drip bags where a high gravity-fed flow rate of fluid delivery is required. It may have uses for other theatre procedures, although it is not intended for use in central nervous system or central circulatory system operations.

Technical Features

- Maximum extended height 2.07 m
- Loading height 1.32 m
- Up and down buttons
- Emergency stop
- Emergency lowering button
- Electrical safety cut-out
- Battery powered
- 24V DC (overnight recharge)
- Stable 5-point base of support
- Set on lockable castors for safe and easy positioning
- Unladen weight 17.5 kg
- CE marked
- Capacity: Two 3L drip bags

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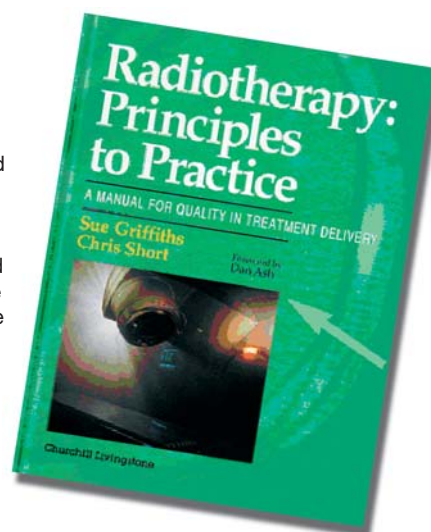


Radiotherapy Clinical Training Textbook

Radiotherapy: Principles to Practice – a manual for quality in treatment delivery.

This textbook, written by two highly experienced therapeutic radiographers in consultation with a teaching colleague, provides an easily accessible source of information regarding current concepts and developments in the field of radiotherapy. The book represents both a valuable learning resource and a practical working manual as it closely combines theories and working practices and will be an invaluable source of information to all members of the multidisciplinary team concerned with the safe planning and delivery of radiotherapy treatment. Students of radiotherapy and qualified staff alike will find that it is indispensable for their needs.

The book can be purchased from the NHS Innovations website (www.nhs-innovations.com).



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