

Your partner in innovation...



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Fourth NHS Innovations Competition



After the success of the previous competitions, Medipex is pleased to announce that their fourth Yorkshire and Humber NHS Innovations Competition will be launched on 3rd December 2007. The award ceremony for the winners will be held at The Royal Armouries in Leeds on 14th May 2008 and we will be offering over £8000 in prize money. The four categories are: Medical Devices & Diagnostics; Software & ICT; Assistive Technology & Rehabilitation and Publications & Training Materials. Eligibility: any NHS employee based in Yorkshire and Humber region. The closing date for entries is 29th February 2008.

For more information and to enter, please complete the application form online at www.medipex.co.uk or download, complete and return to Stephanie Bridgford.

INNOVATOR OF THE QUARTER

New game stops clients getting board

A fresh take on the way Occupational Therapists (OT) discover their clients' needs could be the number one present on Hospitals Christmas lists this year, after winning the Medipex Innovator of the Quarter award.

Samantha Marston, an OT from the Humber Mental Health Teaching NHS Trust, has designed and developed a new board game to be used by OTs, to help people with learning disabilities understand how occupational therapy can help them (see page 2 for further information).



L to R: Ann Starkey (Medipex), Samantha Marston, Lucy Flower

To nominate someone for Innovator of the Quarter, just fill out the enclosed application form. The winning nomination will receive £150 and the nominator a luxury hamper worth £50 for nominating them and will be featured in our next quarterly newsletter.

We are moving...

Medipex are pleased to announce we will be moving to new offices at the Leeds Innovation Centre as of 2nd January 2008. We will have a suite of offices on the top floor and car parking available for our guests and visitors. Our e-mail address and website contact details will remain the same but the telephone numbers will alter. Our new address will be:-

Medipex Ltd
NHS Innovation Yorkshire & Humber
Leeds Innovation Centre
103 Clarendon Road, Leeds LS2 9DF

We would like to formally express our thanks to Leeds Teaching Hospitals Trust who have provided Medipex with offices and services which have been a massive support for us from early days in 2003.

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"

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

Standards for Better Health

Are you confident that your Trust has a set of minimum standards in place that can ensure a consistent level of care is provided across the Trust? Often clinical wards and departments rely on a range of tools, which they are expected to complete, however these only give them an overview of one particular area of practice and are often not coordinated.

The Clinical Assurance Toolkit (CAT) was developed by a team coordinated by Sam Debbage, Practise Development Manager at Sheffield Teaching Hospitals NHS Foundation Trust to provide wards and departments with a coordinated, comprehensive, up-to-date range of standards, which can be self assessed, providing accurate, timely feedback. The toolkit is set out under the seven domains of Standards for Better Health, and each section has a detailed set of standards with prompts and a traffic light scoring system.

Hilary Scholefield (Chief Nurse at STH) said: "The Toolkit has now been adopted across all 85 wards and 15 departments at STH and the feedback from ward staff using this is really positive. Clinical staff have stated that the CAT links with current issues, captures areas of excellence for sharing across the organisation, provides a vehicle for improvements and acts as a prompt for ongoing assessments including monthly fire and health and safety assessments."

The toolkit will not only help ward and department leaders assess their areas, but will also act as a point of reference for both existing and newly appointed ward and department leaders, who can often go into their posts relatively unprepared for the challenges they face.

Additionally, it will provide the Trust with an overview of the common issues to feedback through the Directorate and Trust governance arrangements.

The Toolkit consists of a colourful simple to follow booklet with templates and instructions to use. Any Trust or ward looking to implement these guidelines would be better served by signing up for a half-day training session delivered by Sam Debbage and her team and then to take a site-wide licence to the Toolkit so that they can reproduce the information and templates as frequently as they need. Further information can be found on www.ennovations.co.uk





L to R: Ann Starkey and Lucy Flower

New game stops clients getting board! (continued)

The game, created in June this year, consists of a board, dice and cards and is colour-coded to make it easy to understand and play. As the player lands on the squares, they pick up a card that reflects what the person may do in their lives, such as going to college.

As part of her work with the Trust's Community Team for Learning Disabilities, Samantha wanted to discover how to get across to clients the help OTs can deliver, whilst making this as fun and effective as possible.

"I'd been driving home after doing some group work with clients with profound and multiple disabilities, where we had seen a good response

to things like obstacle courses and relay races, and I just thought a game, a game!

"When we played the new game with service users they wanted to win, and the activities on it proved really useful in helping them to understand how their quality of life can be improved and what is on offer to them."

Lucy Flower, the Trust's PR Officer, who nominated Samantha for the Medipex Innovator of the Quarter Awards said:

"I just thought it was a fantastic idea and really innovative, I hadn't seen anything like it before, so when the Medipex Innovator of the Quarter came up I thought that would be brilliant."

The team are now looking at developing the game for paediatric and elderly use, and are also looking to provide it to other Trusts around the region.

National NHS Innovations Awards

All four category winners from the Medipex Innovations Competition 2006/07 have been automatically entered in to a national 'Winner of Winners' event to be held at Wellcome Trust Gallery, London on 3rd December. The ceremony will be hosted by Dr Maire Smith, Director of the NHS National Innovation Centre. VIP guests for the prize ceremony include Dawn Primarolo MP, Minister of State for Health plus CEOs from the winning Trusts.

Medipex at Medica 2007

In November, representatives from Medipex were part of the contingent representing the NHS Innovation Hubs in Düsseldorf, Germany at Medica 2007, the world's largest medical devices trade fair with over 4,000 exhibitors in attendance. As well as being an opportunity to exhibit some of the innovations from Trusts in the Yorkshire and Humber region which have been licensed to companies and which are now available on the market, Medica gave an opportunity to showcase some of the opportunities available from Trusts in the region to some of the leading medical device companies in the world.

Business Development Manager Chris Herbert said of the event: "Medica is a great opportunity to observe some state-of-the-art medical equipment. Medica makes you realise just how innovative NHS staff are when you see that their ideas, which have major healthcare benefits, are often things that companies have not considered before."



NHS Innovations stand: Chris Herbert(second from left) pictured with staff from Health Enterprise East and NHS Innovations North



Scheduling System

developed by Carrie, and a prototype version was developed and trialled in the Trust. Medipex have since marketed and demonstrated the scheduling system to a number of companies and are currently in negotiation with one company to incorporate the scheduling system into a product so that the wider healthcare community can benefit from the work carried out by Carrie in Harrogate.

Carrie feels that this sort of innovation, where clinical staff solve the problems they identify, is essential to the provision of the best possible healthcare to patients and that Medipex really can make a difference in the process by taking away some of the pressure and giving the support needed to inventors to help their ideas reach their full potential and a wider audience.

In focus: Carrie Ross

Our inventor in focus in this newsletter is Carrie Ross of Harrogate and District NHS Foundation Trust, who was the keynote speaker at Medipex's recent AGM. Carrie is a Surgical Business Manager at the Trust, but prior to taking up this position was the Trust's lead chemotherapy nurse. In 2004, driven by the need to provide the best service possible to patients undergoing chemotherapy, Carrie realised that the way staff worked on the chemotherapy unit needed to change and after an extensive period of analysis developed a 'points-based' scheduling system for use on the unit. Although only paper-based, the system delivered instant results with patient waits on the unit decreasing to less than one-third of what they were. The system has also benefited staff on the unit, as now the unit never operates at more than its maximum capacity and staffing shortages can be quickly identified. To aid efficiency further, the pharmacy also adopted the system, as a result wastage of prepared drugs was reduced as the pharmacy could better coordinate its activities with those on the ward. However, it was apparent that the paper-based system was not ideal as it required some time to put in order each day.

It was at this point that Medipex became involved in the project and they met with Carrie to discuss the system and provide support to her. It was apparent that an electronic version of the scheduling system was needed, especially if other NHS Trusts were to be able to benefit from the system

Dodds launches innovative health service centre of excellence in Belfast



Richard Clark

A new £1.6 million Innovation Hub in Belfast will help commercialise ground breaking products and concepts developed within the Health Service.

Economy Minister Nigel Dodds launched the Health and Social Care (HSC) Innovations Centre of Excellence (Innovation Hub) which will provide innovation management services and exploit the Intellectual Property (IP) assets developed from health service employee innovations and ideas arising from research and healthcare delivery.

The Hub will identify and explore opportunities to obtain, protect and use these IP assets, using methods such as patents and design

rights. The initiative will identify new technologies and services to create commercial opportunities, possible collaborations with local businesses and spin-out companies. This will ultimately bring potential products to market that will improve patient care.

The Innovation Hub will also create a culture of IP awareness and innovation through an integrated staff training programme. The training will look at IP assets and how they have been successfully applied to such equipment as the world's first mobile defibrillator which was created in Belfast in 1965, novel therapies and diagnostic procedures and new medications.

Speaking at the launch event, Richard Clark, CEO Medipex said: "I am very pleased to see the establishment of a Northern Ireland NHS Innovation Hub. This is a massive opportunity for NHS staff to work with David Brownlee and his colleagues on new products and to exploit first class research that is ongoing in the region."

The Department of Health, Social Services and Public Safety, through its Research & Development Office, has part-funded the Innovation Hub.

Health Minister Michael McGimpsey said: "To make real improvements in health and social care, we need to exploit new ideas and innovations. The aim is to identify new technologies and services arising from

research and clinical practice, and ensure they are developed to improve patient care. The Innovation Hub will help channel these novel developments in a way that will enable all the people of Northern Ireland to benefit from the latest advances in knowledge and technology, for better health and social wellbeing."

Dr David Brownlee, Innovation Advisor at the Clinical Research Support Centre (CRSC), said: "The CRSC has been leading IP asset management within the Health Service since 2005. This new Hub, set up with Invest Northern Ireland support, will provide an improved IP and innovation management service for the HSC in Northern Ireland. This will ensure that ideas for new therapies, devices and procedures with the potential to improve health and social care are developed in conjunction with industry and clinical partners."

The initiative is supported by Invest Northern Ireland through its successful Centres of Excellence programme. The Health and Social Care (HSC) Innovation Hub project will be delivered by the CRSC based at the Royal Victoria Hospital. The CRSC provides support for research carried out in the Health Service across Northern Ireland and is hosted by the Belfast Health & Social Care Trust.

The project is also funded through the HSC Research and Development Office and the Public Sector Research Exploitation (PSRE) fund, a programme of the Department of Innovation, Universities and Skills.

Medical Innovation Forum

Medical Innovation Forum is a prestigious one day medical technology conference and exhibition hosted annually in the UK and for the first time came to Harrogate Exhibition Centre in October. The event was supported by Yorkshire Forward and attracted 50 exhibitors and around 300 delegates. However, the major purpose of this event is a series of interactive round table discussions and the business to business networking that is organised on behalf of all those attending. Each delegate submits an electronic profile via the event website beforehand indicating their interests, which formal sessions they wish to participate in, what questions they would like answered. On top of this one-to-one meetings can be requested and organised with exhibitors and other delegates who have also submitted their profiles and hence the day is fully utilised.

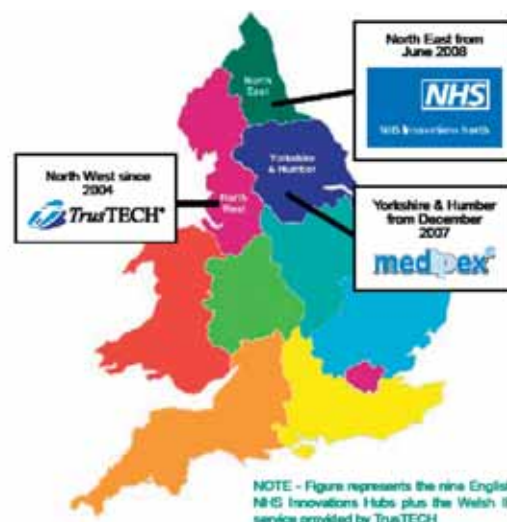
This type of proactive conferencing works much better than walking around large exhibition halls because there is usually a long wait to speak to the most popular exhibitors whereas each one-to-one has a set time and location a bit like speed dating. The organisers have agreed to repeat the event in Yorkshire again next year and this is something well worth attending.

Clinical Expertise Mapping data is going live!

The CEM data is going live on the Yorkshire and Humber section of ACTNoW® website from December. We have been working closely with the ACTNoW® team over the summer to refine and develop the joint questionnaire, which is now available via the CEM Portal on the Medipex website homepage: www.medipex.co.uk

For those staff in the region who have already completed questionnaires, individuals' details (excluding personal contact details) will be going live from the beginning of December on the Yorkshire and Humber section of the ACTNoW® website www.actnow-database.co.uk

The questionnaire will shortly be available to NHS staff in the North East of England, which means ACTNoW® will then cover the whole of the North of England. Potentially this makes the ACTNoW® database a very powerful tool for attracting companies to look for collaborators across the North of England. However to make the database really effective we need as many NHS staff as possible who are interested in taking part in clinical trials, particularly medical device trials, to complete the questionnaire to add their details to the database. So come on everyone visit the Medipex website: www.medipex.co.uk and fill in the questionnaire.



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.
- **Diagnostics and Pharmaceutical**
e.g. Novel solution for storing transplant organs; a cancer diagnostic technique to aid cancer detection.
- **Medical Software**
e.g. Software tool to assess motor skills and IT capabilities of users of electronic assistive technology.
- **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 invention/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 contact Medipex on the number below. Any enquiry whether your Trust is a member or not will be treated in strict confidence and if we can, we will give guidance over the phone.



New Product to be Launched at Medica - Mammography Test Phantom

X-rays are often used to detect breast abnormalities, but in many cases it is not possible to tell from the imaging studies alone whether a growth is benign or cancerous. Under such circumstances it is often necessary to obtain a tissue sample for subsequent analysis using a hollow biopsy needle which is passed through the skin into the area of interest. The sample of breast tissue obtained in this way can show whether the sample is malignant or benign and the procedure is much less invasive than the surgical approach. A computerized mammography X-ray machine with a stereotactic biopsy unit is used for this procedure.



Mammography Test Phantom

Dr Giles Morrison of Medical Physics Department at Sheffield Teaching Hospitals NHS Foundation Trust was asked to develop an appropriate simple phantom that is hoped will quickly become a national standard. The phantom works on both GE DMR and Siemens Mammomat units which covers the vast majority of units in the NHS. It is also being evaluated on other manufacturers' equipment at different NHS centres in the Yorkshire region.

Whilst specific manufacturers' phantoms exist for at least one supplier they are bespoke i.e. can't be used on any other manufacturers' machines. The mammography test phantom designed by Sheffield has been optimised for both GE DMR and Siemens units as used nationally in the NHS Breast Screening Program. The phantom allows the assessment of stereotactic localisation for core biopsy needles, allowing accurate alignment of the core biopsy needle.

Medipex were asked by Giles to assess the commercial prospects for the phantom and identify a commercial partner. We are pleased to announce that a deal has been agreed with Leeds Test Objects Ltd a local SME who are world leaders in both X-ray phantoms and mammography. Medipex had negotiated a previous deal with Leeds Test Objects for a dental phantom from Leeds Medical Physics which is very successful and sells worldwide.

The Mammography Test Phantom will be launched at Medica in November on the NHS Innovation stand.

Commercial Opportunities

| Innovation | Description | Commercial Opportunity |
|---------------------------------|--|--|
| Cancer Care Scheduling System | This system allows patients to receive chemotherapy with minimal waiting times so that the department works at optimum efficiency. | We are looking for partners to commercialise this innovative cancer scheduling system. |
| X-Ray Paddle Stand | Portable X-ray paddle stand for digital image collection; very useful in A&E settings. | We are seeking a partner for manufacturing/distributing this product. |
| Fluid Disposal System | A safe and effective automated fluid management and disposal system that requires virtually no maintenance and does not entail any landfill or other consumables. | The system is currently undergoing extended field trials in a busy urology theatre and Medipex is seeking enquiries from commercial partners. |
| Bladder Cancer Prediction Model | Neuro-fuzzy logic for the prediction of cancer behaviour and progression, leading to better clinical management, patient care and economic benefits. | After a successful clinical trial, Medipex is looking for a commercial partner to collaborate on the exploitation of neuro-fuzzy logic for bladder cancer disease prediction and other cancers. |
| DFOR | 'DFOR' is a graphical icon that provides detailed visual representation of the image pre- and post-processing thereby, clearly indicating changes and potential artefacts. | The target market could be X-ray depts, clinical depts using digital imagery and sectors of forensic science, CCTV, manufacturing and QC systems. It is covered by a UK Patent and Medipex is seeking a partner for commercial exploitation. |

Contact Details: Medipex Ltd, NHS Innovation Yorkshire & Humber, Leeds Innovation Centre, 103 Clarendon Road, Leeds LS2 9DF

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www.medipex.co.uk

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