

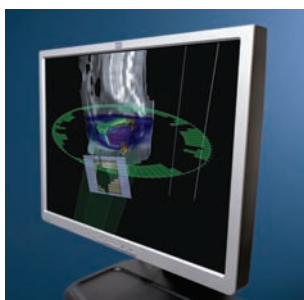
# News update

Latest developments on products and services from the industry. To have your news included contact Patricia McDonnell on [patricia@oncologynews.biz](mailto:patricia@oncologynews.biz) or T/F: +44 (0)288 289 7023.

## St James's Institute of Oncology first in the UK to use new VMAT radiation technique

St. James's Institute of Oncology, Leeds is the first radiotherapy centre in the UK to employ a new treatment procedure using Nucletron's Oncentra VMAT (Volumetric Modulated Arc Therapy). The new method was introduced into clinical routine at the end of 2010. VMAT reduces treatment time and may significantly reduce the risk of serious side effects for patients.

Dr Vivian Cosgrove, leading physicist, Radiotherapy Department, St. James's Institute of Oncology, says, "We achieve shorter treatment time by moving the linac



continuously around the patient during radiation. At the same time, we can change the speed of this movement, strength of radiation and shape of the radiation field throughout the procedure. In conventional IMRT treatment, radiation can be given only from certain angles. During the move from angle to angle, the beam has to be switched off again and again."

For further information visit:

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## Leeds Teaching Hospitals NHS Trust Pass 100th Patient Milestone for Treatment for Lung Cancer

Setting the pace for lung SBRT, clinicians at St. James's University Hospital are gaining more confidence at seeing and hitting lung tumours, a difficult task before the introduction of advanced technology. For many of the more than 100 patients treated, doctors have used Symmetry™ motion management software, new imaging technology from Elekta that enables clear visualisation of moving targets.

"For certain patients – those with lung tumours that move a large amount during breathing – Symmetry has been incredibly useful," says John Lilley, physicist at St. James's, part of Leeds Teaching Hospitals NHS Trust.

"The standard 3D volume imaging system on our Elekta Synergy® system is great for imaging targets that remain still, but moving objects become blurred," he explains. "However, by taking the 4DCT planning scan – which shows the 'envelope' of space within which the tumour is moving – and matching that to



Symmetry reconstructions, which show the tumour's position during the breathing cycle, we can easily localise moving tumours."

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## Nucletron UK successfully gains ISO 14001 accreditation

Nucletron UK, a leading provider of state-of-the-art radiotherapy solutions for cancer treatment has recently been awarded an ISO 14001 Certificate. ISO 14001 is a voluntary environmental management system, which requires constant commitment to environment planning and improvement.

Simon Richardson, Quality & Operations Manager at Nucletron UK comments, "ISO 14001, which is in addition to our ISO 901 certification, is a significant accomplishment for us, as it allows us to reduce the environmental impact of our products and provide a safer, healthier place in which to work. Nucletron in the UK takes quality issues very seriously and it is

high on our agenda. As a responsible organisation we seek to achieve high standards, particularly in the handling of radiation oncology materials."

ISO 14001 is an internationally recognised accreditation. Its key requirement is that an environmental policy exists within the organisation, and is fully supported by the senior management of the company.

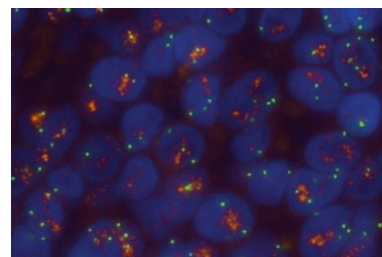
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## Leica Microsystems Releases Fully Automated HER2 FISH Test



Breast Cancer Specimen stained with the Leica HER2 FISH System showing amplification of the HER2 gene.

Leica Microsystems has announced the European release of the fully automated Leica HER2 FISH System for the Leica BOND advanced staining system. The Leica HER2 FISH System combines the use of the gold standard PathVysion® HER2 FISH probes, supplied by Abbott Molecular Inc, with Leica's industry-leading BOND automated platform.

Automation of labour intensive FISH techniques reduces process variation while offering walk-away convenience. Samples can be processed continuously, saving valuable hands-on time and allowing rapid reporting of patient results. This fully automated system uses an optimised ready-to-use Leica HER2 FISH reagent kit with a robust BOND protocol to produce consistent, high quality stained slides. The system enhances the laboratory workflow, increasing efficiency and enabling the laboratory to provide a responsive service to their clinicians and clients.

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Mr Simon Richardson, Quality & Operations Manager at Nucletron UK.

## Launch of relocatable radiotherapy treatment suite

Radiotherapy treatment in the UK and Europe is being transformed with the launch the modular, relocatable, stand-alone radiotherapy treatment suite, Pioneer™.

Julie Mead, Clinical Director of OSL said: "Pioneer reduces the risk and costs for hospital trusts. It can be moved closer to areas of patient need as they are identified over time and there's no need to undertake lengthy, costly bunker building projects."

The Pioneer is positioned on a pre-constructed concrete pad with access to utilities. The suite has changing rooms for



patients, a reception and waiting area and treatment room housing a TomoTherapy HD.

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T: +44 (0)1743 462 694,  
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## New TimestripPlus™ shows when +8°C is breached

New TimestripPlus™ 8° temperature indicators can show at a glance whether your vaccine or medication has breached the recommended temperature level of +8°C and for how long.

TimestripPlus™ indicators are easy to use, simply activate at room temperature and apply the disposable indicator to your temperature sensitive item using the adhesive backing. Store the item below 8°C and the indicator will remain inactive. As soon as the temperature of the item rises above 8°C, a colour will travel along the view window. If a product is returned to a refrigerated environment and the temperature falls back to below 6°C, the indicator will stop. In addition TimestripPlus™ gives you the confidence to reallocate any unused medications that are returned to pharmacy, reducing waste and



saving time. Helapet are the exclusive distributor of TimestripPlus™ for the NHS. TimestripPlus 8 deg has been independently validated for accuracy in both temperature and time.

For more information and FREE SAMPLES call 0800 0328 42.

## 1st Varian High Dose Rate Brachytherapy Afterloader in China

Jilin University No. 1 Hospital is now offering state-of-the-art treatment using GammaMed® brachytherapy afterloader from Varian Medical Systems. Brachytherapy treats cancer by placing radioactive sources directly into or next to the area requiring treatment, enabling clinicians to deliver a high dose with minimal impact on surrounding healthy tissues.



Varian machines was based on the company's reputation for advanced systems and excellent service, as well as a desire to integrate the hospital's brachytherapy offering with its external beam systems, which are also supplied by Varian Medical Systems."

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Doctors at Jilin said early brachytherapy treatments would focus on cervical and rectal cancers, explaining the decision to install

## Quick and easy test for colorectal cancer

The launch of the new ScheBo® • M2-PK Quick™ 'rapid test' brings benefits for doctors, patients and biomedical laboratory staff. Quick and easy to perform on a small 'one-off' stool sample, this is a sensitive and specific non-invasive test which facilitates the identification of those who require further investigation for colorectal cancer, polyps or other significant gastrointestinal diseases. The ScheBo® • Quick-Prep tubes provided in the test kit are a convenient method for patients to collect a small faecal sample and return it for testing. A positive M2-PK test result should

be followed by appropriate further investigation (e.g. colonoscopy) for diseases of the gastrointestinal tract. Because M2-PK is a biomarker of altered glucose metabolism typical for colorectal and other cancers it can detect both bleeding and non-bleeding tumours and polyps, without imposing pre-test restrictions on the patient's diet or medication.

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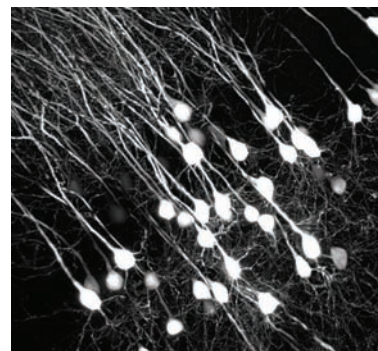
## Nikon introduces streamlined A1 MP imaging system

In response to demand, Nikon has developed a streamlined version of its groundbreaking A1R MP multiphoton confocal imaging system. The new A1 MP scanner has been developed for simplified, cost-effective multiphoton imaging, whilst maintaining the sensitivity and quality of the highly respected A1R MP system. Multiphoton imaging is becoming increasingly popular for cell-friendly, dynamic live cell and deep tissue imaging. Budgetary constraints have, historically, prevented some laboratories from realising the full potential of this exciting technique.

Fluorescence detection is undertaken by Nikon's highly sensitive NDD detectors (Non Descan Detectors). The scanner is capable of frame rates up to 10 fps, depending on image size and can easily be upgraded to true spectral imaging using Nikon's renowned spectral detector.

The A1 MP imaging system can be used in conjunction with Nikon's upright FN1 microscope and inverted Nikon Ti-E microscope, where it can also be combined with a TIRF system and incorporated with the award winning Perfect Focus System for long term, deep tissue imaging with unsurpassed clarity and stability.

For more information on Nikon microscopes contact Nikon Instruments,  
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E: [info@nikoninstruments.eu](mailto:info@nikoninstruments.eu)  
W: [www.nikoninstruments.eu/](http://www.nikoninstruments.eu/)



Fixed neuronal cells of mouse brain expressing eGFP. Image courtesy of Dr Satoru Kondo, Dept. of Cellular Neurobiology, Graduate School of Medicine, University of Tokyo, Japan.

