

BETA

BTG Education, Training & Audit

www.btg-beta.com

BETA™

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STOP EXPOSING YOURSELF to unnecessary radiation

Eyes

The eyes are a key risk area for radiation exposure. By using the ⁹⁰Y glass microspheres administration kit, you are protected by the acrylic shielding which stops 100% of the beta radiation and the lead pot which reduces bremsstrahlung exposure to 1/7th of levels to operator without shielding^{1,2}

Whole body dose

Whole body dose can be reduced through the use of lead aprons and the acrylic and lead shielding provided by the ⁹⁰Y glass microspheres administration kit^{1,2}

Fingers

Dose vials are ready to use and require no preparation or manipulation – avoiding unnecessary radiation exposure. System tubing is also primed independently of the dose vial. These features, combined with the infusion time of less than 5 minutes, further reduce exposure levels^{1,2}

BTG βETA

Discover IT

EDUCATION

The βETA programme has been designed to minimise the risk of radiation exposure when performing selective internal radiation therapy (SIRT) by increasing awareness of radiation safety and providing risk education.

Background

The β ETA programme has been designed to minimise the risk of radiation exposure when performing selective internal radiation therapy (SIRT) by increasing awareness of radiation safety and providing risk education.

The programme is aimed at any healthcare professionals that are working with, around or near radiation.

The online tool will act as the enabler for the education, audit, and training to take place.

Goals

The β ETA programme online tool website will be developed using Kentico and hosted on BTG's servers. It will be supported by BTG IT in terms of Information Security. When operational, it will be part of Discover IT's Kentico Website Support agreement.

The key objectives of this programme were:

- To increase understanding and awareness of potential radiation exposure when performing SIRT with TheraSphere® and provide risk education
- To provide advice on best practice for all steps in the process
- To offer an educational initiative to help train others regarding the potential risk of exposure to radiation and ways to reduce this risk
- To provide audit tools to enable staff to undertake simple measures that can assess current staff performance and exposure to radiation; this will allow improvements to be made and reduce environmental exposure

Challenges

The client set a strict deadline for the development of this site, so the primary challenge was to meet this deadline whilst meeting all requirements.

One challenge was filling the custom tables with all the question and answer matrix, and testing of it to make sure that correct answers gave the correct scores.

"It was an absolute pleasure working with Adam and the team on the BETA programme. It's a programme that is going to benefit a number of healthcare professionals globally and the Discover IT team did a fantastic job in pulling the Kentico platform together throughout.

The project ran extremely smoothly thanks to the Discover IT team and they were faultless throughout.

I would highly recommend Adam and his team to anyone looking to build a fantastic and impactful website."



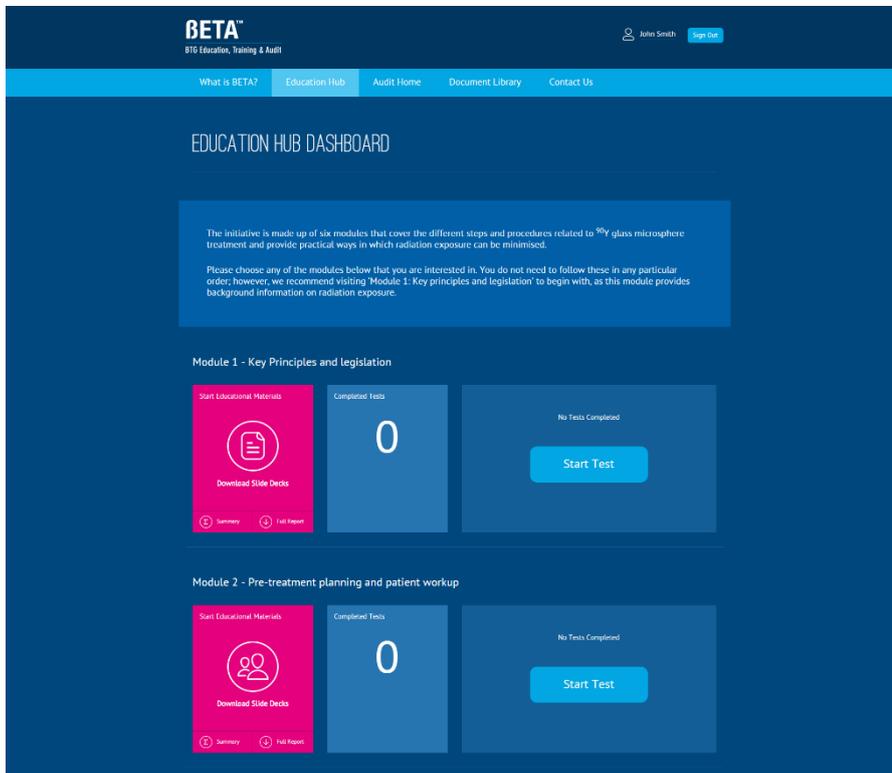
Christopher Matthews
EMEA Brand Manager
TheraSphere

Solution

Due to Kentico's ease of use and comprehensive API we were able to develop this application within the time constraints.

The vast majority of the website development used Kentico Web Parts, for example, the screenshot below uses a repeater to display the users' scores for each module.

The website uses responsive design so that it can be used on mobile with the same functionalities as it would have on desktop.



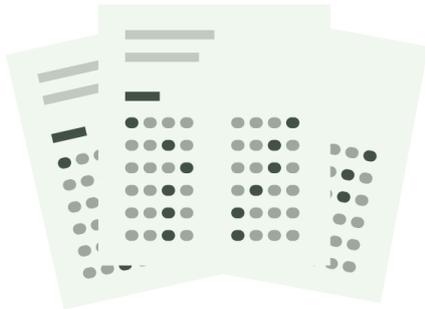
Results

The site was launched in September 2016 at the CIRSE (Cardiovascular and Interventional Radiological Society of Events) Conference in Barcelona.

Since go-live there has been:



75 New Registrations



625 Tests Taken



150 Audits Taken

Key Criteria for Choosing Kentico

- All-in-one Solution – Kentico is a unified solution, and it is highly flexible and customisable. It allows the developer to quickly meet the customers' requirements
- Core Functionality and Additional Applications – Easy-to-use Content Management (uploading of updated materials, etc.)
- Reusability – There are various Kentico components and functionalities that are reusable and the development of custom Kentico web parts, which can be re-used in this website, and others
- Kentico Support – Kentico provides an exceptional support and documentation
- Security – Kentico is secure and stable

All in all, Kentico is an outstanding platform to develop rapid applications that are easy to manage and customise.

Discover IT

Discover IT is a Web application development company which specialises in designing and building Web business applications including e-commerce solutions integrated in real-time with Sage 50 Accounts. They also have many years' experience working for the insurance industry, developing Internet-based insurance applications such as full-cycle online quote engines, monthly renewable policies and temporary policies with online payment, and automatic generation of policy documentation.

Discover IT was an early adopter of Kentico, having used it since 2005. They are a Kentico Gold Development and Integration Partner and they use Kentico CMS exclusively for their content management solutions. They have developed Sage 50 Connect for Kentico—a Kentico Web Store Integration solution that is connected directly, in real-time, with a remotely located Sage 50 Accounts system. In addition, they offer a Sage Pay Payment Gateway for the Kentico CMS E-commerce module.



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