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Kamera SPECT bantu kesan barah payudara

Kamera gamma dinaik taraf dengan penambahan kollimator bagi membantu pesakit barah payudara.

UNIVERSITI Putra Malaysia (UPM) berjaya menghasilkan sebuah kamera diagnostik pengimejan nuklear mudah alih dipertingkatkan dengan kaedah pengesanan sinar gamma bagi membantu mengesan kanser payudara.

Kamera itu mampu mempamerkan tumor atau sista secara tiga dimensi (3D) bagi membolehkan doktor mendapat paparan yang lebih jelas dan besar sekali gus mudah mengambil sampel biopsi.

Dicipta oleh ketua Jabatan Kejuruteraan Komputer dan Sistem Komunikasi, Fakulti Kejuruteraan UPM, Prof. Madya Dr. Iqbal Saripan, peranti tersebut tergolong sebagai kamera *Single-Photon Emission Computed Tomography* (SPECT).

Sebelum ini, beliau banyak melakukan kajian-kajian asas mengenai peranti pengimejan nuklear yang menggunakan sinar gamma dua dimensi.

Dalam penyelidikannya, mesin tersebut boleh dipanjangkan hayatnya melalui ketepatan diagnostik secara 3D.

Jika mesin-mesin itu ditingkatkan, ia mampu mengurangkan kos pembelian peranti baharu yang mahal.

Menurutnya, secara perbandingan, mesin jenis sinar-X biasa tidak menggunakan tenaga sebanyak sinar gamma selain tidak mampu melihat

melalui tulang.

"Bagaimanapun, sinar gamma hanya mampu mengesan tumor dan ketumbuhan luar biasa di dalam tubuh setelah seseorang pesakit disuntik dengan isotop radio berukuran lemah dalam tempoh tertentu," ujarnya.

Selepas berbincang dengan beberapa pihak termasuk syarikat pengeluar seperti Toshiba dan Siemens Iqbal berkata, penambahan kollimator membantu

meningkatkan prestasi sinar gamma tersebut.



Melalui usaha tersebut, beliau berjaya mendaftarkan satu paten berkaitan kollimator kasa dawai dan memenangi beberapa anugerah di peringkat kebangsaan dan antarabangsa.

Ketika ini, Iqbal dan pasukannya sudah bersedia untuk memasang kamera mudah alih sinar gamma prototaip ciptaannya atau

SPECT untuk mengesan barah payudara.

Hasil maklumat yang dikumpul pasukan penyelidikannya, kamera mudah alih SPECT ini digunakan terhadap wanita muda dan ibu yang mempunyai susu badan.

Iqbal menerima Anugerah Saintis Muda daripada Menteri Sains, Teknologi dan Inovasi, Datuk Dr. Ewon Ebin pada November lepas, manakala pada bulan berikutnya, beliau menerima pengiktirafan daripada Akademi Sains Malaysia.



IQBAL bersama peralatan kamera SPECT yang boleh digunakan dalam rawatan kanser payudara.

PENCIPTAAN teknologi tersebut membantu pihak hospital mengurangkan kos pembelian mesin baharu. - Gambar hiasan.



New Sarawak Tribune

Important to preserve traditional knowledge

By : NORNASHEILA ZAIDI

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KOTA SAMARAHAN: The state government is dedicated to develop skills and infrastructure that are necessary through various initiatives to ensure that we develop our bioeconomy in a way which is truly sustainable and beneficial to our local communities.

Chief Minister Tan Sri Datuk Amar Haji Adenan Satem said that the Sarawak Corridor Of Renewable Energy (SCORE) was included in one of the initiatives where SCORE will play a vital role in ensuring that the state not only retains but also grows in terms of manpower and scientific excellence in our bioeconomy.

"Sarawak, is rich in diversity in terms of its ethnic communities and biological resources and each of these communities have for centuries relied on traditional knowledge handed down through generations to utilise the resources sustainably and manage the resources around them.

"Therefore, it is important to preserve traditional knowledge and ensure that it is given a high level of recognition in its possible contribution as a starting point in developing a bioeconomy," said Adenan.

Adenan said this in his text speech which was read by Deputy Chief Minister Datuk Patinggi Tan Sri Alfred Jabu Numpang during the opening ceremony of **Bio Borneo 2014 Conference and Exhibition** with the theme 'Sustaining the Bioeconomy Community' held at DeTAR Putra of Universiti Malaysia Sarawak (UNIMAS) near here yesterday.

According to Adenan, it was also important to document, research and protect the Intellectual Property (IPs) arising from this pathway.

He also pointed out that the importance of traditional knowledge of ethnic communities and its connection to intellectual property has been highlighted at the international level.

As early as 2001, the state had directed Sarawak Biodiversity Centre or SBC to facilitate traditional knowledge documentation among our ethnic communities knowing that it has wide potential for discovering new applications, Adenan said.

He added that the knowledge in the communities was declining in terms of preservation and practice.

"Traditional Knowledge or TK is a lead for scientific discovery and sometimes it is considered a short cut for pharmaceutical research.

"TK is not only useful for medicinal purpose but it also leads the way to the discovery of new food source, nutrition and health promoting plants.

"SBC also works closely with the indigenous communities through its Traditional Knowledge Documentation Programme to identify plants of potential and also to ensure that the communities receive equitable sharing of benefits should their knowledge on these plants lead to commercialisation," Adenan said.

In an effort to get the community on board bioeconomy activities, SBC will be amending its ordinance to define access to genetic resources and benefit sharing for the communities whose knowledge provide leads to commercial or product development.

Also present at the ceremony yesterday was the Deputy Minister of Science, Technology and Innovation Datuk Dr Abu Bakar Mohamad Diah.

