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Research Article

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Negative correlation of patient-specific quality assurance failure rates with Monitor Units for Volumetric-Modulated Arc Therapy

Published On: February 10, 2020 | Pages: 004 - 006

Author(s): Murshed Hossain and Nathan M Papalia*

Purpose: Failure rates of patient-specific Quality Assurance tests in intensity modulated external beam radiation therapy are known to be correlated with both the degree of modulation and Monitor Units (MU). Our goal is to examine if this remains true for Volumetric-Modulated Arc Therapy (VMAT). Methods: We have analyzed the pass rates for 118 VMAT patient-plans for ...

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Review Article

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Performing shielding calculations for diagnostic radiology based on NCRP Report 147 Methodology

Published On: November 05, 2020 | Pages: 027 - 030

Author(s): Mustafa Majali* and Ali Al Remeithi

Structural radiation shielding calculations for diagnostic X-ray facilities is most commonly performed using the recommendations of National Council on Radiation Protection and Measurements (NCRP) Report No. 49 which continues to be the primary guide for diagnostic x-ray structural shielding design for a while. Many changes have occurred over the years that have caus ...

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The impact of Gamma Ray on DNA molecule

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Author(s): Anwar Qasim Ahmed*, Ali Yahya Salman, Adhraa Baqir Hassan, Ali Abid Abojassim, Hussien Abid Ali Mraity and Hussien Abid Ali Mraity

The aim of this review is to provide an overview concerning the effect of one type of ionization radiation (e.g. gamma ray) on DNA considering three axes. ...

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Case Report

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Autologous flap reconstruction as a unique opportunity for weight loss and breast cancer risk reduction: A case report

Published On: September 07, 2020 | Pages: 017 - 021

Author(s): Brian P Dickinson*, Ayushi Patel, Judy Pham, Nikkie Vu-Huynh, Monica B Vu, Heather Macdonald, Abigail Madans, Merry Tetef, Kevin Lin, Jennifer Overstreet, Lucia Vu and Peter Ashjian

Objective: The purpose of this paper is to discuss how autologous flap reconstruction following mastectomy can serve as a unique opportunity for patients with breast cancer to reduce their risk of recurrence through weight reduction in the pre-operative, intraoperative and postoperative phases of healing. Background: Autologous mastectomy reconstruction with tissu ...

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Juvenile granulosa tumor of the ovary: Report of two cases

Published On: June 04, 2020 | Pages: 014 - 016

Author(s): Mohammed Lahfaoui*, Ahmed Azahouani, Mohamed Belahcen and Houssine Benhaddou

Sex cord ovarian tumours are rare tumours that develop in non-germinal ovarian cells. The pathogenesis of these tumours remains undetermined and several cellular and molecular alterations may be involved in the development of juvenile granulosa cell tumours. The individualization of juvenile granulosa cell tumors has been a major advance in the

treatment of these tumo ...

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Successful multidisciplinary management of giant nasal fibromyxoma: Case report and literature review

Published On: May 13, 2020 | Pages: 007 - 010

Author(s): Ismail Essadi, Issam Lalya*, Mohamed Kaakoua, Haddou Aammar, Mustapha Alaoui and Mohamed Lakouichmi

Introduction: Fibromyxomas are very rare benign tumors of the head and neck region. They are characterized by the replacement of normal bone by a fibrous cellular stroma. These tumors are slow-growing benign lesions, which may cause extensive local destruction with a tendency to recurrence after surgical excision. ...

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Intraventricular ganglioglioma with unusual location and morphology-A case report

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Author(s): Mugdha Kamat Timble*, Aruna Patil, Arun L Naik, Swarna Shivakumar and Bhushan Chaudhary

Ganglioglioma is one of the common tumour responsible for refractory temporal lobe epilepsy in children and young adults. Positioned in the group glioneural tumours, it is mostly of low grade histology. Here we outline a rare case of intraventricular ganglioglioma at atypical location with atypical morphology, lacking its most classical symptom of epilepsy. ...

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Retrospective Study

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Surveillance Computed tomography scan– Is there a role at five years in post curative resection of colorectal cancer?

Published On: October 10, 2020 | Pages: 022 - 026

Author(s): Ishani Mukhopadhyay*, Dariush Kamali and Venkatesh Shanmugam

Objectives: There are significant worldwide variations in the use of Computed Tomography (CT) scan for postoperative surveillance of patients after curative treatment for colorectal cancer. The NICE (National Institute of Clinical Excellence) guidelines (CG131/NG151) recommends the use of 2 CT scans of chest, abdomen and pelvis in the first three years following cura ...

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