

Radiological procedures for pediatric patients with down syndrome

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Abstract

Introduction:

Down syndrome is a condition of the chromosomes that is caused when an error occurs during cell division creating an extra chromosome 21 (Gardiner et al., 2010). People with Down syndrome especially pediatric patients may develop several health conditions that may require to be diagnosed through imaging (Bull, 2011).

Purpose:

This research was used to identify environmentally friendly methods for pediatric patients with Down syndrome. These methods are aimed at reducing the radiation dose for a patient during a radiological procedure. Additionally, the methods should be able to provide the best quality images to improve diagnosis and hasten recovery.

Method:

We used the PRISMA guidelines to perform a systematic review of the current literature obtained from various databases. We searched for several articles and found a total of 51 articles related to environmentally friendly radiological procedures. Out of the 51 articles, 17 were analyzed in detail.

Result:

Caring for pediatric patients with Down syndrome requires environmentally friendly methods to improve the quality of care. Patients may not respond well to high dosages of radiation because they sometimes cause irritations. Both patients and clinicians need improved image quality of the radiological procedures to make the diagnosis of the condition easier and hasten the process of recovery.

Conclusion:

Methods that create a friendly environment for pediatric patients with Down Syndrome during radiological procedures such as CT scans and X-rays are important in the diagnosis of disease. High radiation dosages may not suit patients sometimes thus affecting the quality of care. Improving image quality is also important in the diagnosis and management of the condition.

Biography:

Hissa Mohammed has completed her master's degree in medical imaging at the age of 33 years from Aberdeen University. She is the Radiology supervisor in Communicable disease Centre, member of HMC. She has published 1 paper in online OMICS Journal of Radiology and member of Quality team in CDC.

Speaker Publications:

1. "The Efficiency of Applying the Radiology Technologist of the Radiation Dose Monitoring Technique During the Fluoroscopy Procedures for Oncology in Paediatrics Care Aged Between 4 to 7 Years January 2017.

[5th International Conference on Pediatrics and Pediatric Surgery](#); Rome, Italy- March 11-12, 2020.

Abstract Citation:

Hissa Mohammed, Radiological procedures for pediatric patients with down syndrome, Pediatrics Surgery 2020, 5th International Conference on Pediatrics and Pediatric Surgery; Rome, Italy- March 11-12, 2020

<https://pediatrics.insightconferences.com/abstract/2020/radiological-procedures-for-pediatric-patients-with-down-syndrome>

