



Pediatric brain CT scans in a developing country

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Abstract:

The purpose of this study was to assess scan parameters and to propose strategies to optimize the examinations of children (from 0 to 15 years old) on adult scanners in developing countries. A study was done in 2015 and 2018 on 312 pediatric patients to verify improved practices through the proposed strategies. Dose and scan parameters was available for prospective dose analysis. Head trauma CT was the most common (90%). For every pediatric CT scan in 2015, a kV of 120 was used in the various hospitals. The mAs ranged from 57.75 to 283.33 mAs, slice thicknesses from 1.25 to 2.5 mm and pitch from 0.525 to 1.375 mm. Implementing the recommendations we proposed in 2015, in 2018, CTDI decreased by 21.27% for children <1 year, 31.97% for children 1-4 years, 17% for children 5-9 years.

Biography:

Eddy was born in Long Beach, Los Angeles, CA, and attended the University of Hawaii for both his BFA and his MFA. He also did postgraduate.



References:

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