

CT KORONAROGRAFIJA – POMEN CT KORONAROGRAFIJE V DIAGNOSTIKI BOLEZNI SRCA IN OŽILJA

CT CORONAROGRAPHY – IMPORTANCE OF CT CORONAROGRAPHY IN THE DIAGNOSIS OF CARDIOVASCULAR DISEASES

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Prejeto/Recived: 31. 1. 2024

Sprejeto/Accepted: 17. 4. 2024

IZVLEČEK

Uvod: Bolezni srca in ožilja so danes v razvitih državah eden glavnih vzrokov umrljivosti. Za diagnosticiranje bolezni srca in ožilja se kot zlati standard uporablja DSA. Izjemen razvoj CT z zmanjšanjem doze sevanja je privedel do tega, da se CT koronarografija, t.i. koronarna angiografija, vse pogosteje uporablja kot neinvazivna preiskava za oceno koronarnih arterij.

Metode: V tem prispevku bomo opisali način delovanja CT koronarografije, njen pomen pri diagnostiki srčno-žilnih bolezni, pripravo bolnikov na to preiskavo ter prednosti in slabosti te vrste diagnostike srčno-žilnih bolezni v primerjavi z drugimi diagnostičnimi metodami. Prikazali bomo tudi nekaj zanimivih primerov, opravljenih na napravi Siemens Somatom Definition Edge.

Rezultati: Na Inštitutu za klinično radiologijo UKC RS je bilo od 10. aprila 2022 do danes v omenjenem postopku z napravo Siemens Somatom Definition Edge uspešno opravljenih 600 preiskav.

Razprava in zaključek: Na podlagi navedenega lahko sklepamo, da postaja CT koronarografija vse bolj priljubljena in zelo uporabna metoda za odkrivanje bolezni srca. Gre za obetavno tehniko, ki jo morajo izvajati izkušeni operaterji. Njeni klinični rezultati so zelo odvisni od optimizacije vsakega koraka postopka.

ABSTRACT

Introduction: Cardiovascular diseases are one of the leading causes of mortality in developed countries today. For the diagnosis of cardiovascular diseases, DSA is used as the gold standard. However, the exceptional development of CT, with the reduction of the radiation dose, has led to the fact that CT coronary angiography is increasingly used as a non-invasive examination for assessing coronary arteries.

Methods: In this paper, we will describe the working method of CT coronary angiography itself, its importance in the diagnosis of cardiovascular diseases, the preparation of patients for this examination, and the advantages and disadvantages of this type of diagnosis of cardiovascular diseases in relation to other diagnostics. We will also show a couple of interesting cases performed on the Siemens Somatom Definition Edge device.

Results: From April 10, 2022, 600 examinations have been successfully performed at the Institute for Clinical Radiology, UKC RS to date, in the mentioned procedure using the Siemens Somatom Definition Edge device.

Conclusion: We can conclude from the above that CT coronary angiography is becoming an increasingly popular and very useful method for detecting heart diseases. It is a promising technique that should be performed by experienced operators. Its clinical results are highly dependent on the optimization of each step of the procedure.

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