

Korelasi nilai t2 pankreas dengan kadar glukosa darah pada subjek thalassemia anak dan dewasa = Correlation between pancreatic t2 values against blood glucose levels in thalassemic children and adults

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Abstrak

ABSTRAK

Latar Belakang dan tujuan: Pemeriksaan MRI T2 pankreas merupakan pemeriksaan yang lebih akurat dalam menilai hemosiderosis pankreas, namun memiliki keterbatasan karena hanya tersedia di kota-kota besar. Penelitian ini bertujuan untuk mengetahui korelasi nilai T2 pankreas dengan kadar glukosa darah, karakteristik T2 pankreas dan kadar glukosa darah subyek penelitian, serta pengaruh letak ROI terhadap nilai T2 pankreas. Metode: Penelitian menggunakan desain potong lintang pada 52 subyek anak dan 12 subyek dewasa antara September 2015-Juni 2016. Hasil: Nilai T2 pankreas anak antara 2,71-48,77 ms dan dewasa 6,49-41,82 ms. Kadar glukosa darah puasa anak rerata 87,31 11,01 mg/dL dan dewasa 88,00 10,27 mg/dL. Korelasi nilai T2 pankreas terhadap kadar glukosa darah puasa anak $r=0,198$ $p=0,160$ dan dewasa $r=0,004$ $p=0,991$. Hubungan nilai T2 pankreas dengan letak ROI didapatkan $p=0,105$. Kesimpulan: Tidak terdapat korelasi nilai T2 pankreas dengan kadar glukosa darah puasa pada anak dan dewasa. Tidak terdapat perbedaan signifikan nilai T2 pankreas menurut letak ROI.

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ABSTRACT

Background and Objective T2 MRI examination is more accurate in assessing pancreatic hemosiderosis but lack of availability to be used routinely in daily practice. This study aimed to determine the correlation value of T2 pancreas with blood glucose levels in thalassemic children and adults. Methods Cross sectional study that held in September 2015 June 2016, involving 52 children and 12 adults. Results Pancreatic T2 values of children are 2.71 to 48.77 ms and values of adults are from 6.49 to 41.82 ms. Mean of fasting blood glucose levels in children are 87.31 11.01 mg dL and mean of adults are 88.00 10.27 mg dL. Correlation r between value of pancreatic T2 against children's fasting blood glucose levels was 0.198 p 0.160 and adults was 0.004 p 0.991. Significance value p of relationship between pancreatic T2 and ROI of pancreas was 0.105. Conclusion There was no significant correlation between pancreatic T2 values with fasting blood glucose levels in children and adults, nor significant difference in T2 values according to ROI of pancreas.