Measurement of Ureteric Stones using Computed Tomography

قياس حصاوي الحالب باستخدام تقنية الأشعة المقطعية

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Diagnostic Radiological Technology

By

Fekri Suleiman Hamad Ibrahim

Supervised

Dr.Muna Ahmed Mohamed Ahmed

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Image(1) CT Scan Image, sagittal view for Male(40 years), show Ureteric stone, measure (13.70 mm).

Image(2) CT Scan Image, sagittal view for Male(40 years), show Above Ureteric stone, measure (11.65 mm).
Image(3) CT Scan Image, sagittal view for Male(40 years), show below ureteric stone, measure (5.86 mm).

Image(4) CT Scan Image, sagittal view for Male(40 years), show HU of ureteric stone, measure (531).
Image(5) CT Scan Image, Coronal view for Male(31 years), show Ureteric stone, measure(8.41 mm).

Image(6) CT Scan Image, Coronal view for Male(31 years), show Above Ureteric stone, measure(12.02 mm).
Image(7) CT Scan Image, Coronal view for Male(31 years), show
Below Ureteric stone, measure (4.33 mm).

Image(7) CT Scan Image, Coronal view for Male(31 years), show
HU of Ureteric stone, measure (251).
Appendix A
Sudan University for Sciences and technology
College of Graduate studies

**Measurement of Ureteric Stones using CT KUB**

Data collection sheet

<table>
<thead>
<tr>
<th>Number</th>
<th>Age (years)</th>
<th>Gender (Male-Female)</th>
<th>Stones Size (mm)</th>
<th>Width Above Ureteric Stones (mm)</th>
<th>Width Below Ureteric Stones (mm)</th>
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Appendix B

Hounsfield Units (HU) for Stones

1-Radio opaque stones on CT:

- Calcium Oxalate\+\- calcium phosphate 400-600HU.
- Struvite (Triple phosphate) usually opaque but variable.
- Pure Calcium phosphate 400-600HU.
- Uric acid 100-200HU.
- Cystine Opague.

2-Radio lucent stones on CT:

- Indinavir stones.
- Pure matrix stones.
References
References


https://doi.org/10.1097/01.Ju.000005560892669.3a.


Lois E. Romans, 2011, computed tomography for technologists: a comprehensive text, Wolters Kluwer Health/Lippincott Williams & Wilkins, Philadelphia, Chapter 1, Pages 3-12.


