**Table 4:** Noise measured in the liver parenchyma on an axial slice without any visible artifacts. Mean noise was lowest at 80 keV. No significant difference between iMAR and non-iMAR images was found.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **non-iMAR** | **iMAR** | **p-value** |
| **180 keV** | 12.30(11.11;13.11) | 61.98(61.21;64.76) | 0.5625 |
| **160 keV** | 12.05(11.55;12.85) | 10.98(10.38;12.14) | 0.4375 |
| **140 keV** | 11.48(10.34;12.50) | 11.65(11.16;12.48) | 0.1562 |
| **120 keV** | 9.83(9.35;10.08) | 10.50(9.68;11.10) | 0.0625 |
| **100 keV** | 8.08(7.71;8.44) | 8.90(8.44;9.25) | 0.2188 |
| **80 keV** | 5.68(5.20;5.96) | 5.58(5.08;6.04) | 0.9062 |
| **60 keV** | 10.93(10.64;11.06) | 11.35(10.58;11.83) | 0.1875 |
| **40 keV** | 37.65(33.63;40.44) | 39.88(36.48;41.21) | 0.6875 |
| **DE Q30-3 (M 0.5)**Sn140/100 kVp | 6.10(5.96;7.66) | 7.50(7.00;8.26) | 0.0938 |
| **SE I30-3**120 kVp | 5.83(5.40;6.40) | 6.13(5.60;6.54) | 0.4688 |
| **p-value** | **<0.00011** | **<0.00012** |  |

Dunn’s test for multiple comparisons:

**1**  I30-3 13.5 mGy vs. 180 keV p-value: 0.0157

 I30-3 13.5 mGy vs. 160 keV p-value: 0.0131

 I30-3 13.5 mGy vs. 40 keV p-value: <0.0001

 Q30-3 13.5 mGy vs. 40 keV p-value: 0.0019

 180 keV vs. 80 keV p-value: 0.0157

 160 keV vs. 80 keV p-value: 0.0131

 140 keV vs. 80 keV p-value: 0.0425

 100 keV vs. 40 keV p-value: 0.0189

 80 keV vs. 40 keV p-value: <0.0001

**2** I30-3 13.5 mGy iMAR vs. 180 keV iMAR p-value: 0.0131

 I30-3 13.5 mGy iMAR vs. 40 keV iMAR p-value: <0.0001

 Q30-3 13.5 mGy iMAR vs. 40 keV iMAR p-value: 0.0028

 180 keV iMAR vs. 80 keV iMAR p-value: 0.0042

 140 keV iMAR vs. 80 keV iMAR p-value: 0.0269

 100 keV iMAR vs. 40 keV iMAR p-value: 0.0269

 80 keV iMAR vs. 40 keV iMAR p-value: <0.0001