**Table S1**

**DTI parameters in the cortex and medulla of the kidney.**

Mean values ± SD of the right kidney in ten volunteers. λ1, λ2, λ3, ADC and FA are

defined in Materials and Methods and were analyzed using b=0, 500 s/mm2. λ1, λ2, λ3 and ADC are in units of 10-3 (mm2/s). *p*-values were obtained by two tailed paired Student’s t-test.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Cortex**  | **Medulla** | ***p* value** |
| **λ1** | 3.09 ± 0.22 | 3.07 ± 0.20 | 0.8 |
| **λ2** | 2.38 ± 0.15 | 2.14 ± 0.18 | <0.005 |
| **λ3** | 1.92 ± 0.14 | 1.63 ± 0.17 | <0.001 |
| **FA** | 0.24 ± 0.04 | 0.32 ± 0.05 | <0.005 |
| **ADC** | 2.46 ± 0.14 | 2.28 ± 0.15 | <0.01 |