**S5 Table**

Muscle activation data:Inner-group comparison of the alterations within SIJs patient and controls related to moderate and maximum tension (*p*-values refer to the RMS data given in Tab. 4)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***p-value*** | **ΔRMSmoderate tension : ΔRMSmaximum tension** | | | |
|  | **SIJ patients** | | **controls** | |
|  |  | |  | |
| **Muscle** |  |  |  |  |
| Biceps femoris | *0.878* | | *0.407* | |
| Gluteus maximus | *0.169* | | *0.287* | |
| Rectus femoris | ***0.007*** | | *0.877* | |
| Medial vastus | *0.959* | | *0.981* | |