Supplemental Digital Content 2

**Main Effects**

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| **Main Effects** |  | **ANOVA-Factors** | **Values** |
| **Control state** | CR | *Hand*: F (1,19) = 4.7; *p* < 0.05 | Right (0.98+/-0.03); Left (0.97+/-0.04) |
|  |  | *Viewpoint*: F (3,57) = 4.9; *p* < 0.01 | Palm (0.98+/-0.01); Back (0.97+/-0.03); Thumb (0.98+/-0.03); Pinkie (0.96+/- 0.03) |
|  |  | *Orientation*: F (1,19) = 20.9; *p* < 0.0001 | Natural (0.99+/-0.03); Unnatural (0.96+/-0.04) |
| RT | *Hand*: F (1,19) = 7.8; *p* < 0.01 | Right (1,177+/-204); Left (1,204+/-210) |
|  |  | *Viewpoint*: F (3,57) = 15.7; *p* < 0.0001 | Palm (1,179+/-162); Back (1,178+/-169); Thumb (1,167+/-184); Pinkie (1,240+/-190) |
|  |  | *Orientation*: F (1,19) = 42.7; *p* < 0.0001 | Natural (1,095+/-180); Unnatural (1,287+/-200) |
| **Acute** | CR | *Condition*: F (1,19) = 101.5; *p* < 0.0001 | Control (0.97+/-0.04); Deafferented (0.87+/-0.16) |
| **Peripheral** |  | *Hand*: F (1,19) = 8.5; *p* < 0.009 | Right (0.93+/-0.08); Left (0.91+/-0.08) |
| **Deafferentation** |  | *Viewpoint*: F (3,57) = 19; *p* < 0.0001 | Palm (0.94+/-0.04); Back (0.92+/-0.04); Thumb (0.94+/-0.06); Pinkie (0.90+/-0.08) |
|  |  | *Orientation*: F(1,19) = 103.1;  *p* < 0.0001 | Natural (0.95+/-0.08); Unnatural (0.89+/-0.08) |
|  | RT | *Condition*: F (1,19) = 74.5; *p* < 0.0001 | Control (1,191+/-300); Deafferented (1,500+/-542) |
|  |  | *Hand*: F (1,19) = 21.4; *p* < 0.0001 | Right (1,316+/-321); Left (1,374+/- 422) |
|  |  | *Viewpoint*: F (3,57) = 15.1; *p* < 0.001  *Orientation*: F (1,19) = 45.3;  *p* < 0.0001 | Palm (1,319+/-316); Back (1,342+/-320); Thumb (1,310+/-475); Pinkie (1,409+/-401)  Natural (1,228+/-370); Unnatural (1,462+/-540) |
| **Dominant** | CR | *Laterality*: F (1,18) = 4.6; *p* < 0.01 | Dominant limb (0.90+/-0.02); Nondominant limb (0.94+/-0.02) |
| **Limb** |  | *Hand*: F (1,18) = 6.9; *p* < 0.01 | Right (0.94+/-0.08); Left (0.91+/-0.04) |
| **Deafferentation** |  | *Viewpoint*: F (3,54) = 22.7; *p* < 0.0001 | Palm (0.94+/-0.04); Back (0.91+/-0.04); Thumb (0.94+/-0.04); Pinkie (0.90+/-0.04) |
|  |  | *Orientation*: F(1,18) = 106.7;  *p* < 0.0001 | Natural (0.95+/-0.08); Unnatural (0.89+/-0.08) |
| RT | *Laterality*: F (1,18) = 10.45; *p* < 0.005 | Dominant limb (1,418+/-156); Nondominat limb (1,272+/-154) |
|  |  | *Hand*: F (1,18) = 36.5; *p* < 0.0001 | Right (1,316+/-401); Left (1,378+/-390) |
|  |  | *Viewpoint*: F (3,54) = 9.85; *p* < 0.0001  *Orientation*: F (1,18) = 52.2; *p* < 0.0001 | Palm (1,394+/-284); Back (1,342+/-256); Thumb (1,310+/-368); Pinkie  (1,409+/-365)  Natural (1,228+/-272); Unnatural (1,462+/-465) |
| **Visual** | CR | *Condition*: F (2,36) = 102.7; *p* < 0.0001 | Control (0.97+/- 0.04); Deafferented (0.87+/-0.12); Visual information (0.95+/-0.04) |
| **Information** |  | *Laterality*: F (1,18) = 5.2; *p* < 0.03 | Dominant limb (0.92+/-0.02); Nondominant limb (0.94+/-0.02) |
|  |  | *Hand*: F (1,18) = 22.6; *p* < 0.0001 | Right (0.94+/-0.08); Left (0.92+/-0.04) |
|  |  | *Viewpoint*: F (3,54) = 44.7; *p* < 0.0001 | Palm (0.95+/-0.04; Back (0.92+/-0.04); Thumb (0.95+/-0.08); Pinkie (0.90+/-0.04) |
|  |  | *Orientation*: F(1,18) = 171.4;  *p* < 0.0001 | Natural (0.96+/-0.04); Unnatural (0.91+/-0.08) |
|  | RT | *Condition*: F (2,36) = 118.3; *p* < 0.0001 | Control (1,191+/-300); Deafferented (1,499+/- 450); Visual information (1,196+/-240) |
|  |  | *Laterality*: F (1,18) = 4.6; *p* < 0.04 | Dominant limb (1,340+/-132); Nondominant limb (1,245+/-134) |
|  |  | *Hand*: F (1,18) = 47.9; *p* < 0.0001 | Right (1,270+/-340); Left (1,320+/-238) |
|  |  | *Viewpoint*: F (3,54) = 24.1; *p* < 0.0001 | Palm (1,273+/-288); Back (1,286+/-240); Thumb (1,265+/-322); Pinkie (1,357+/-334) |
|  |  | *Orientation*: F (1,18) = 63.7; *p* < 0.0001 | Natural (1,185+/-244); Unnatural (1,405+/-324) |

In order to assess the effects of regional anesthesia on subject’s performance, ANOVAs for repeated measures were run on RTs (responses times) and CR (proportion of correct responses) for all the subjects during studied conditions.