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**Article:**

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**Figure 1: AutoAbs in Healthy Controls.** Levels of AutoAbs detected in serum from healthy controls presented as violin plot. Left for anti-Collagen and right for anti-CarP AutoAbs. The line represents the cut off value set above the mean+2SD. Healthy controls (n=98 for the Collagen ELISA, n=174 for the anti-CarP ELISA). AU arbitrary unit.

**Figure 2: AutoAbs in sera** from patients with and OA and RA. Patient's numbers are displayed as the height of each bar. Filled bars: number of positive patients; open bars: number of negative patients; the % of positive samples is displayed at top of the bar. *P*-values were calculated by Pearson's chi-square test between the OA and RA groups and given on top of each AutoAb measurement: \*  $p=0.033$ ; \*\*\*\*  $p<0.0001$ ; N.S: not significant.

**Figure 3: AutoAbs in sera from OA patients with knee OA or multiple anatomical sites (MJ) disease.** Patient's numbers are displayed as the height of each bar. Filled bars: number of positive patients; open bars: number of negative patients; % of positive samples is displayed at top of the bar; *P*-value calculated by Pearson's chi-square test are shown on top of each group. #  $p=0.100$ ; \*  $p=0.041$ ; N.S: not significant.

**Figure 4: a) Frequency for AutoAbs positivity in SF in RA, OA and Others. b) Matched serum-fluid AutoAb positivity in 10 knee OA pairs.** Patient's numbers are displayed as the height of each bar. Filled bars: number of positive patients; open bars: number of negative patients; % of positive samples is displayed at top of the bar; *p*-value were calculated by Pearson's chi-square test between the OA and RA groups and given on top of each AutoAb measurement. \*\*  $p<0.010$ ; \*\*\*\*  $p<0.0001$ .

Figure 1

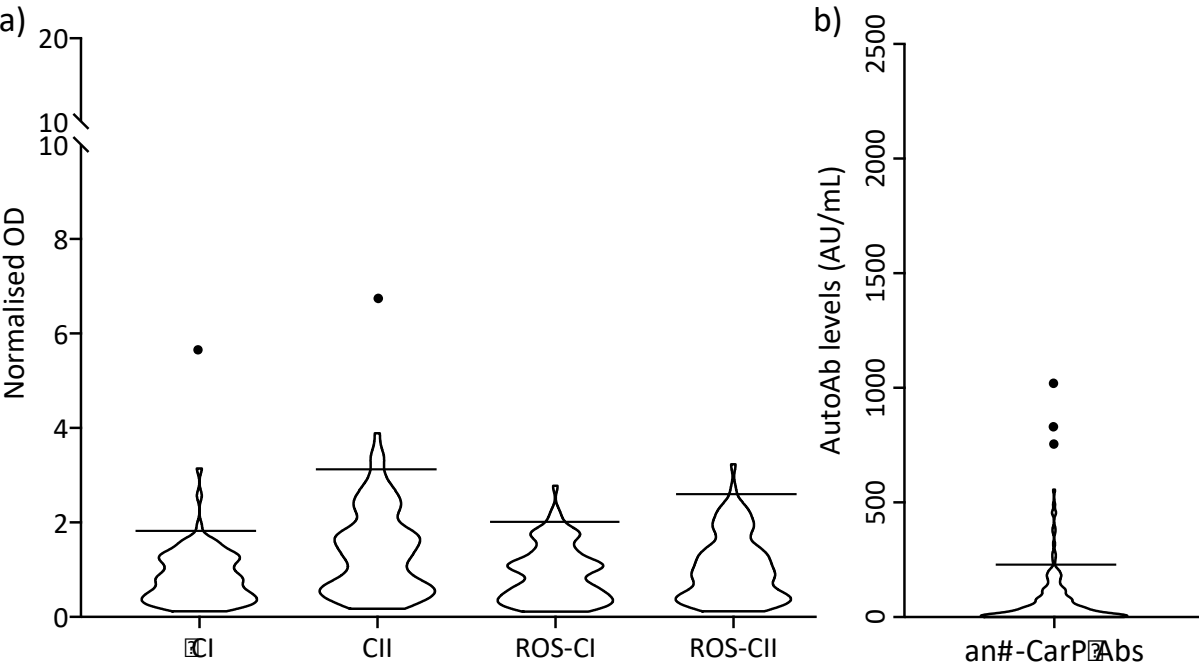


Figure 2

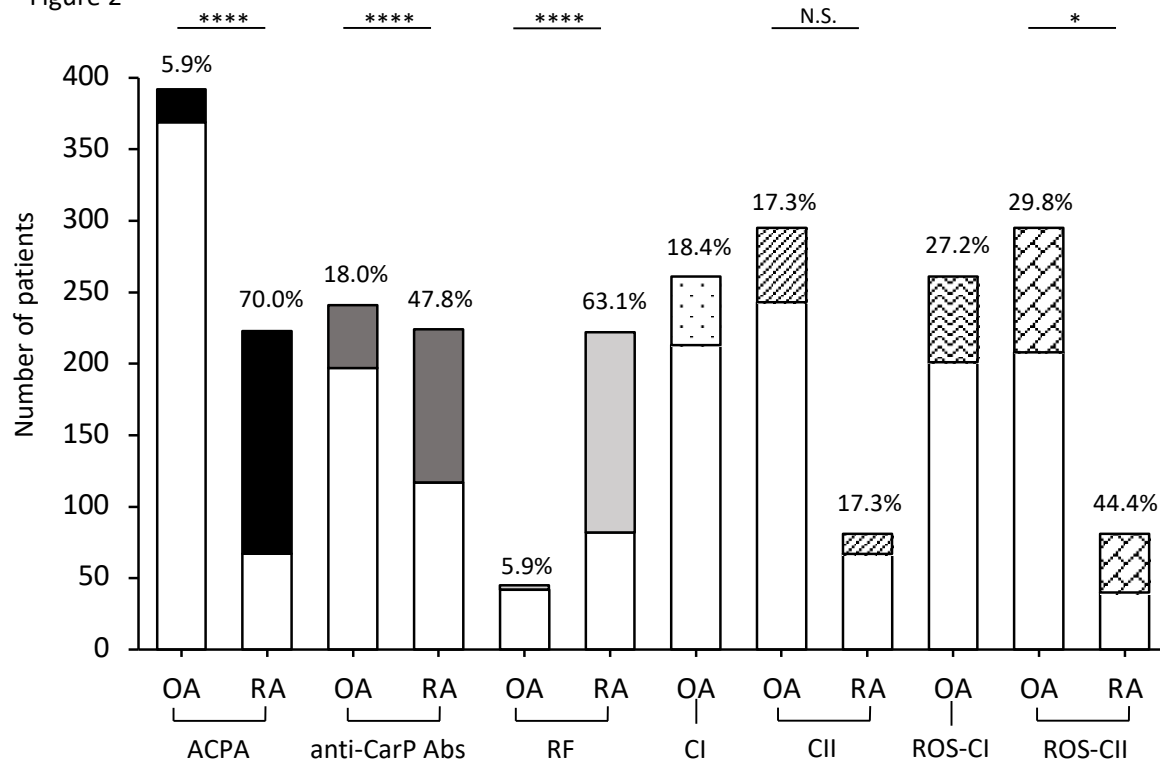


Figure 3

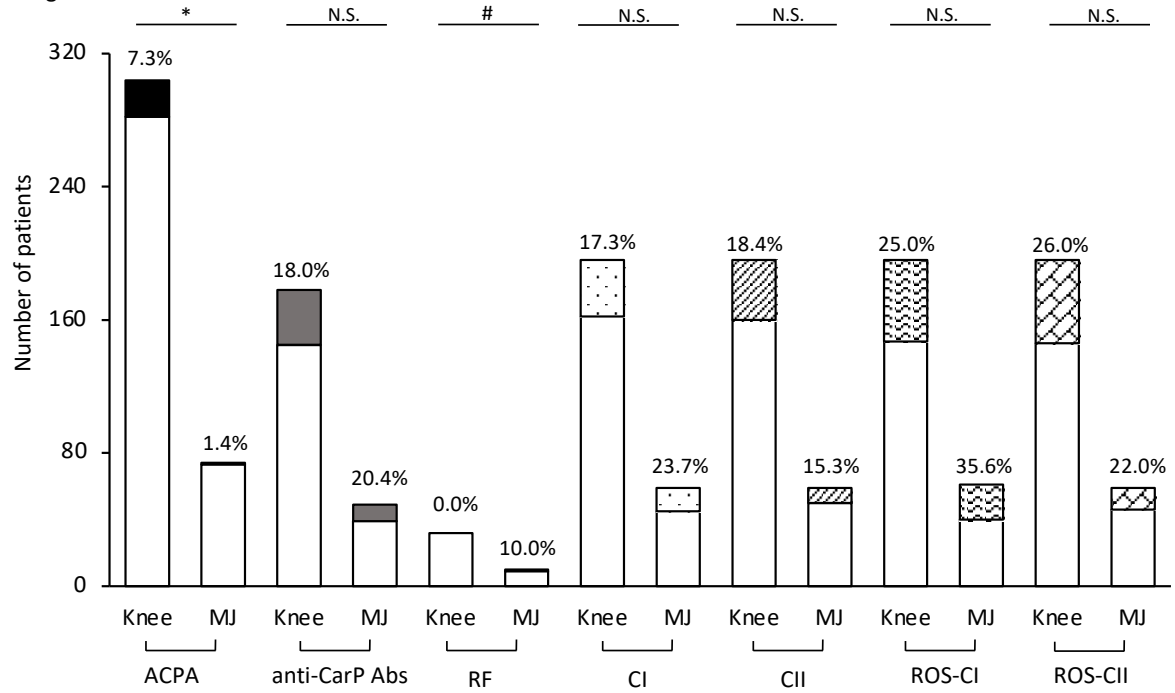


Figure 4

