RADAIs-5 remission represents 2011 ACR/EULAR proposal for remission with high specificity

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Objective
To approve RADAIs-5 remission criteria with the recent proposed new ACR/EULAR remission criteria for rheumatoid arthritis (RA) [1,2].

Method
729 RA outpatients (characteristics see table 1) were assessed according to the RADAIs-5 as well as the two approaches of the recently published ACR/EULAR proposal (Boolean based and index based) being in remission or not. Sensitivity, specificity, positive and negative likelihood ratio (+LR, -LR) and ROC-analysis (area under the curve (AUC)) were performed to illustrate the relation of the 3 different approaches defining remission. Student’s t-test was applied to compare the core set parameters from patients in RADAIs-5 remission with the two different groups defined to be in ACR/EULAR remission.

Results
1844 assessments were included in this study (see table 1). 184 assessments were classified being in remission according to the Boolean based definition and 379 according to the index based definition of the newly ACR/EULAR remission proposals, 358 according to the RADAIs-5 remission definition. 151 assessments could be classified to be in remission according to all 3 remission definitions, 1 presented to be in remission according to the RADAIs-5 as well as the two approaches of the recently published ACR/EULAR proposal (Boolean based and index based) and their overlapping.

Core set parameters were significant different comparing assessments of the RADAIs-5 and Boolean- as well as index based remission group except patient’s global assessment compared with the index based and ESR with the Boolean based definition group (table 3).

Conclusion
• RADAIs-5 remission definition indicates ACR/EULAR remission proposals with high specificity
• On group level, RADAIs-5 remission definition is comparable to the ACR/EULAR remission proposal especially when compared to the index based proposal.
• Core set parameters are different in RADAIs-5 defined remission and the two ACR/EULAR remission definitions.

References