

**Collaborating in implementing a standard** set of outcomes benefits patients with rheumatoid arthritis and accelerates innovation: lessons learned from Dutch Santeon hospitals.

## Background

Santeon members St. Antonius Hospital, Medisch Spectrum Twente and Maasstad Hospital collaborate improving in outcomes for patients with rheumatoid arthritis (RA) as part of the Together Better Program.

Guidelines advise to target on low disease activity score (DAS), the ICHOM standard set showed that patient's targets different DAS. than are Therefore we aimed to get transparency in all relevant ICHOM outcomes and to improve on these domains.

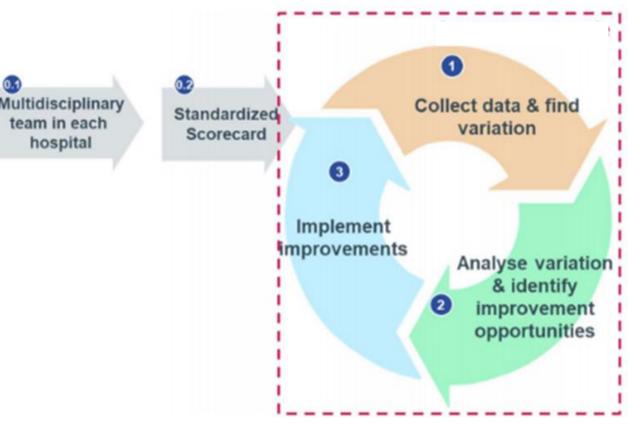
# Method

Figure 1: scorecard

- 1. Definition of a common set of outcome measures and casemix variables, based on the ICHOM standard: the score card (fig. 1).
- 2. Implementation of the **Santeon improvement cycle** (fig. 2)
- Implementation of **improvement teams** (central and local). 3.
- 4. Patient participation is guaranteed by having patients as members of the local improvement teams.

#### atients in remission or with a low disease activity Disease activity per patient % patients experiencing adverse events ROM pain OUTCOME ROM fatigue PROM activity limitations ROM health impact ROM Work/ housework ability and productivit Jse of DMARDs(conventional and biological) Outpatient visits per patient per year COST Diagnostic activities per patient per year Total days from referral to first consultation with a rheumatologis Total days from the first consultation with a rheumatologist to start treatment csDMAR PROCESS % patients with an appointments with the specialised nurse

#### Figure 2: Santeon improvement cycle

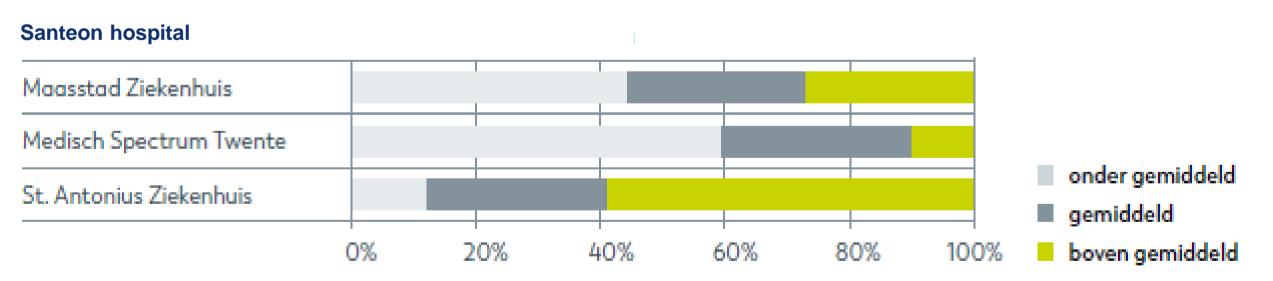


### Results

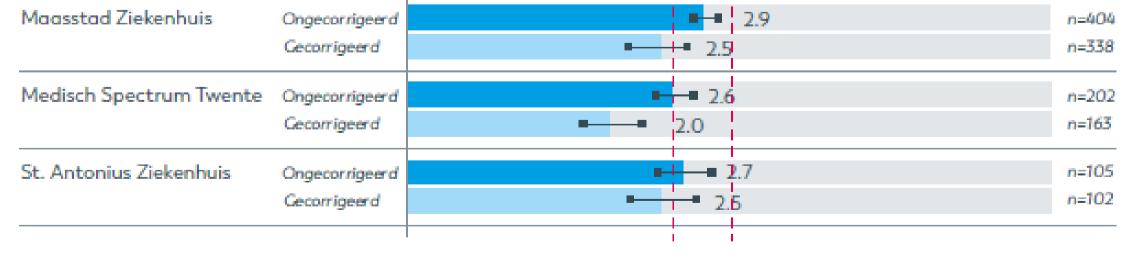
After 3 years of collaborating we have 6 benchmarks available and we have analyzed outcomes of almost 900 new patients and 4.500 chronic patients over period 2016-2020.

### **Our lessons learned:**

- Improve clinical outcome and diagnoses registrations (e.g. SES; fig 3).
- 2. Outcomes are influenced by casemix (fig 4).
- PROMS implementation accelerated when 3. educating and focusing on implementation together.
- 4. Cost drivers (like medication) should be related to outcomes to evaluate differences in benchmarks.
- Differences in cost-drivers are based on lack of 5.







#### Figure 3: Social economical status (SES) for chronic patients (2020)

#### international 'organization' protocols.

Corrected for age, gender, RF/anti-CCP and social economical status

### Conclusion

After 3 years we find that it is possible to benchmark on ICHOM outcomes between centers. By implementing the Santeon improvement teams we catalyzed the multicenter insights and improvements on outcome and cost. We demonstrate that together we achieve more to transform to personalized care.

For more information: groenestijnj@maasstadziekenhuis.nl English publication available: <u>www.santeon.nl</u>