Remission of rheumatoid arthritis (RA): not so long ago this concept was illusory and far out of reach for rheumatologists. In fact, there was also little scientific interest, as the main focus of RA therapy was to prevent severe disability, which was evident in a good portion of patients until even the 1990s. It can easily be appreciated that things have changed by looking at the trend over time in the scientific interest in remission of RA: if one simply pulls publications on ‘rheumatoid arthritis’ and compares those including the term ‘remission’ with those including the term ‘therapy’, it is striking that when comparing the number of publications in the year 1980 with the respective number in 2010, the indexed articles increased 4.4-fold when the term ‘therapy’ was used, and 15-fold with the term ‘remission’ (Figure 1). The current article on sustainment of remission by Prince and colleagues [1] thus hits a very timely topic.

In recent years, particularly the treat to target concept has engaged therapy towards reaching the goal of remission in patients with RA [2], and this has also been reflected in recent management recommendations for RA by the European League Against Rheumatism (EULAR) [3], and finally culminated in the publication of new remission criteria by the American College of Rheumatology (ACR) and EULAR [4]. Throughout the years, a central question in the definition of remission has been whether it should be at a single point in time or should include a time perspective. The most recent decision on this in the aforementioned ACR/EULAR remission criteria was the former.

This single time point definition of remission may sound contradictory to the concept of RA being a progressive and destructive disease, and disease activity over time being the most robust predictor of such progression. On a closer look, and considering the treat to target approach, it begins to make more sense: as long as remission at a single point in time is not reached, treatment needs to be adapted. There is no doubt, however, that achieving remission is just the beginning of therapeutic success in RA: years ago, for example, in their definition of remission, the US Food and Drug Administration had adopted the concept of reaching a good state without radiographic progression [5], and this concept can similarly be found in some of the most recent clinical trials.

Still, little definite is known about how often sustained remission can be achieved, and what then the minimum time requirements would be. The current paper by Prince and colleagues provides insights into the question of maintenance of remission, troubling insights in fact, as they conclude that only about half of individuals in remission at a single time point (by any instrument) remain in remission at a subsequent measurement a year later. Among those losing the remission status, only one in four patients was able to regain the remission status subsequently.

Another aspect of the data, as can be deduced from the Kaplan-Meier plots in the pulication of Prince and colleagues [1], is the fact that the greatest loss of remission status occurred after a single remission visit, and once remission was seen on two subsequent visits, the chance of remaining in remission became much higher. This matches other reports on the fact that frequency of remission in patients in a typical outpatient
remission is an ambitious goal for patients with RA, and with the current article we have learned that it is only infrequently seen. At the same time we have also noticed the developments in therapies and therapeutic strategies in the past decades, and extrapolating this to the future, it may be more than timely to start thinking about sustain-ment of remission, its definition as an outcome measure of successful treatment, and eventually also its definition in regards to the right timing of a therapeutic withdrawal.

Abbreviations
ACR, American College of Rheumatology; EULAR, European League Against Rheumatism; RA, rheumatoid arthritis.

Competing interests
The author declares that they have no competing interests.

Published: 9 May 2012

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Cite this article as: Aletaha D. Nothing lasts forever - a critical look at sustained remission. Arthritis Research & Therapy 2012, 14:116.