

1.0 Abstract

Title

Effectiveness and Safety of Adalimumab in Rheumatoid Arthritis Patients in Routine Clinical Practice

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Keywords

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Adalimumab, rheumatoid arthritis, adverse events, effectiveness, disease activity

Rationale and Background

Rheumatoid arthritis (RA) affects approximately 2.5% of adults in Germany. Non-interventional observational studies supplement clinical trials by providing data on the real-world clinical activity of therapeutic agents such as adalimumab.

Research Question and Objectives

The research question explored in this study was whether the effectiveness and safety of adalimumab was maintained during long-term therapy in routine clinical practice in Germany.

Primary study objectives were:

- Effectiveness (as assessed by changes in Disease Activity Score-28 joints [DAS28] scores and clinical remission rate)
- Safety (as assessed by reports of drug-related AEs)

Secondary objectives included changes in:

DAS28 response as assessed by the critical difference (d_{crit}), a criterion for therapeutic response in an individual patient, and changes in disease activity classifications

Additional disease activity parameters

Patient-reported outcomes, including function and pain

Socioeconomic parameters, including sick leave and hospitalization

RA-related concomitant medication

Exploratory analyses included:

Patient and disease parameters influencing therapeutic response at Month 6

Subgroup analysis of DAS28 response by number of previous biologic therapies

Study Design

Prospective, multicenter, observational (case-only) non-interventional

Setting

Routine clinical practice in Germany

Subjects and Study Size, Including Dropouts

Adult RA patients: 5745 subjects in safety set and 4400 subjects in full analysis set (FAS)

Variables and Data Sources

Key variables: DAS28; AEs; patient-reported assessments of function (Funktionsfragebogen Hannover [FFbH]), global disease activity, pain, and fatigue; socioeconomic outcomes (days of impairment, sick leave, and in-patient hospitalization)

Data sources: Case report form (CRF)

Results

Adalimumab treatment was associated with reductions in mean DAS28 and increases in clinical remission rates throughout 60 months of therapy. A therapeutic response (DAS28-d_{crit}) was achieved by 40.8% of patients at Month 3 and 65.5% at Month 60. Additional disease activity parameters, including joint counts and inflammatory markers, and patient-reported outcomes, including function and pain, also improved during therapy. Marked reductions were observed in days of impairment, sick leave, and hospitalization. Baseline DAS28 and baseline MTX were positive predictors of improvement in disease activity and function at Month 6. The number of previous biologic agents was a negative predictor. A subgroup analysis showed that patients treated with previous biologic agents had a poorer response to adalimumab than patients with no previous biologic therapy. In the safety set, drug-related AEs were reported in 21.3% of patients and serious AEs (SAEs) in 2.8%. Twenty-five deaths occurred during the study. AE reports were consistent with the known adalimumab safety profile and no new safety signals were observed.

Discussion

Data at 60 months were available for 972 (22.1%) subjects in the FAS; 42.3% discontinued treatment and 35.6% were lost to follow-up. Adalimumab showed consistent and sustained effectiveness throughout 60 months, although continued improvements at later time points may have been influenced by responder bias. The findings of this non-interventional study support the conclusion that adalimumab is effective and safe during long-term therapy of adult RA patients in Germany.

Marketing Authorisation Holder(s)

AbbVie Ltd.

Names and Affiliations of Principal Investigators

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