



Chief Investigator: Professor Marian Knight
NPEU, University of Oxford

Co-Lead: Dr Kate Duhig
University of Manchester

The Monoclonal Antibody Medications in inflammatory Arthritis: stopping or continuing in pregnancy (MAMA) trial

Aim

To answer the research question: Is there a difference in arthritis disease control between women who continue their biologic disease-modifying anti-rheumatic drugs (bDMARDs) throughout pregnancy, compared to those who are asked to stop before the third trimester?

The trial aims to recruit 328 women over a 48-month recruitment period in approximately 35 obstetric units with a maternal medicine service in the UK.

Intervention

MAMA will compare two existing pathways of care for bDMARD use in pregnancy that are already being used in the UK, albeit with wide variation. MAMA is a pragmatic, comparative effectiveness trial of these two pathways of care:

1. Intervention: continuing bDMARDs throughout pregnancy. The woman's current bDMARD, dose and frequency of administration will continue.
2. Comparator: stopping bDMARDs before the third trimester (week 28) of pregnancy and restarting no earlier than 2 weeks after the end of pregnancy.

Eligibility

Pregnant women with Autoimmune Inflammatory Arthritis (AIA), satisfying the following criteria:

- Have a diagnosis of rheumatoid arthritis (RA), juvenile idiopathic arthritis (JIA), psoriatic arthritis (PsA) or axial spondyloarthritis (axSpA)
- Pregnant at less than 28 completed weeks' gestation
- Prescribed a regularly dosed biologic disease-modifying anti-rheumatic drug (bDMARD) for RA, JIA, PsA or axSpA
- Aged 16 years or over
- Has provided informed consent

Primary outcome

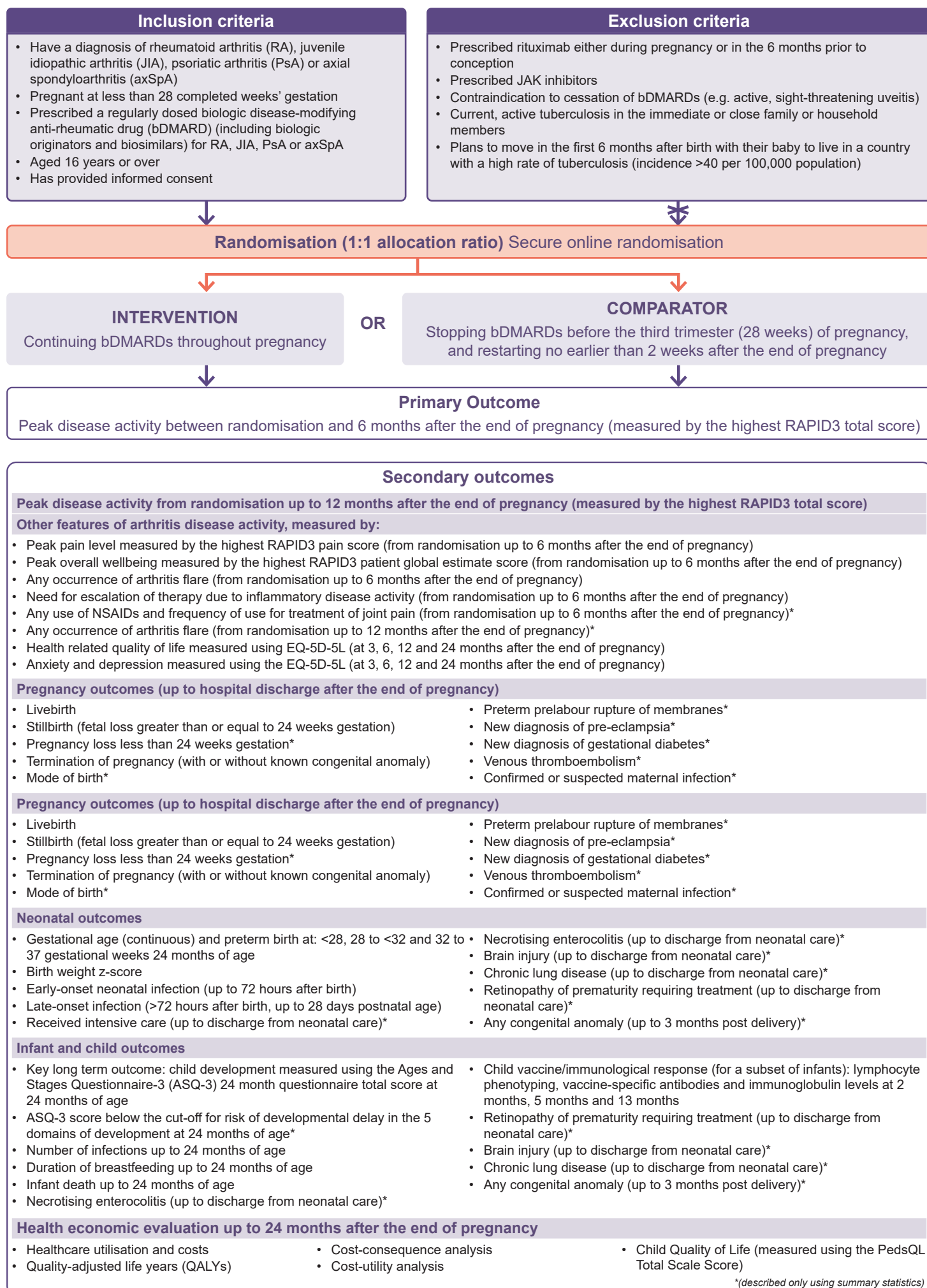
Peak disease activity between randomisation and 6 months after the end of pregnancy (measured by the highest RAPID3 total score)

Secondary outcome

- Peak of disease activity up to 12 months after the end of pregnancy
- Other features of arthritis disease activity from randomisation up to 24 months after the end of pregnancy
- Pregnancy outcomes up to hospital discharge after the end of pregnancy
- Neonatal outcomes in babies born to women up to 3 months post-delivery
- Infant and child outcomes including global development at 24 months of age, infection, infant death, and duration of breastfeeding up to 24 months of age, and in a subset of infants to investigate Immune function (including response to vaccines) at 2, 5 and 13 months
- Economic evaluation up to 24 months after the end of pregnancy
- Assessment of acceptability to women and clinicians will be developed using co-applicants and patient and public involvement advisory group)

Number of participants required:	328	
Recruitment start/planned:	September 2024	Recruitment finish/planned: August 2028
Number of centres:	35	
Funding source:	NIHR Health Technology Assessment (HTA) programme	

Monoclonal Antibody Medications in inflammatory Arthritis: stopping or continuing in pregnancy (MAMA) trial



*(described only using summary statistics)