

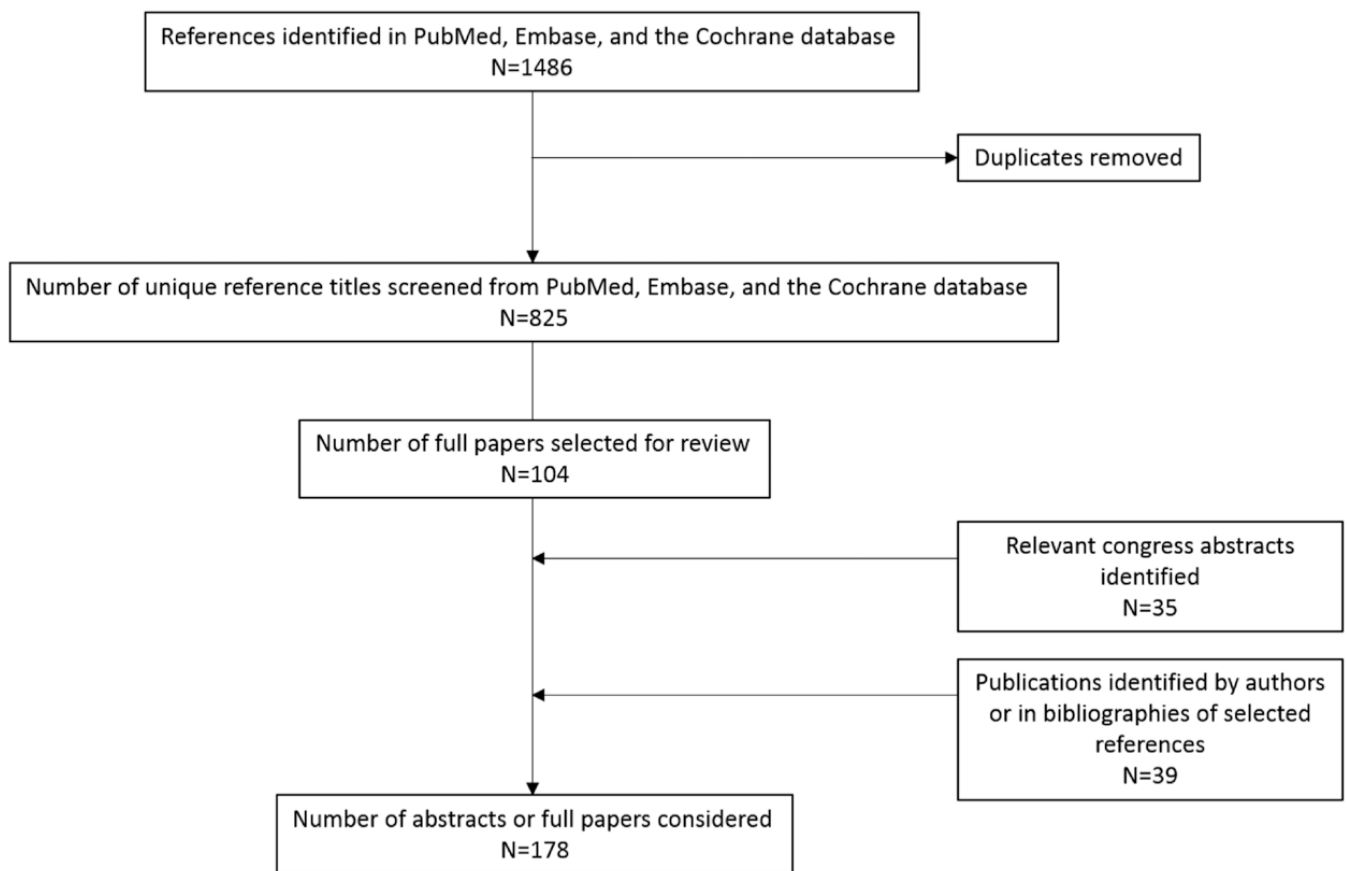
**Supplementary information**

**Search methodology**

A literature review was conducted (from 2006) using PubMed, Embase and the Cochrane database, using the following search terms: [zoster OR shingles] AND [vaccine OR vaccination], AND either [rheumatoid arthritis OR psoriatic arthritis OR autoimmune] OR [guideline OR policy OR consensus OR recommendation] OR [biologic

OR DMARD OR bDMARD OR TNF OR tumour necrosis OR adalimumab OR certolizumab OR etanercept OR golimumab OR infliximab OR abatacept OR rituximab OR tocilizumab OR csDMARD OR methotrexate OR sulfasalazine OR sulphasalazine OR leflunomide OR hydroxychloroquine OR corticosteroid OR JAK OR tofacitinib OR baricitinib OR upadacitinib OR filgotinib]. American College of Rheumatology (ACR) and European League Against Rheumatism (EULAR) con-

gress databases were searched for relevant abstracts from 2012 onwards, and internet-based searches were conducted to identify vaccination guidelines and policies. Articles were included if they were published in English. Titles and abstracts were reviewed for relevance; case studies were excluded. Additional publications of interest were identified from article bibliographies identified in the literature search, or were provided by the authors based on their knowledge of the literature.



**Supplementary Fig. S1.** Search results.