

Researchers compare cost effectiveness of different types of treatments for rheumatoid arthritis

July 29 2019, by Bob Yirka



Credit: CC0 Public Domain

A team of researchers affiliated with several institutions in Finland has created a model to compare the cost-effectiveness of different types of

treatments for rheumatoid arthritis. In their paper published in the open access journal *PLOS One*, the group describes how they created their model and what it showed.

For some conditions such as rheumatoid arthritis, it is difficult for patients to decide which [treatment option](#) is best for them. Because there are several types of medications available and because they have different associated costs, it is difficult, if not impossible, to choose from among the options available. To address this problem, the team in Finland created a model using real-world data to calculate which among several options is the most cost-effective.

In their work, the researchers used their model to compare the four main options available to patients with [rheumatoid arthritis](#): two types of anti-tumor necrosis factor (anti-TNF) therapies and the drugs tocilizumab and abatacept. They also considered multiple factors associated with such treatments, such as whether the therapies were given subcutaneously or intravenously, history of drug use, how patients responded to prior treatments, and other predictors of future outcomes. They also included data that described direct costs such as the actual cost of a drug, administration, how much it would cost to switch from one [therapy](#) to another, and inpatient and outpatient care. Also included were [indirect costs](#) such as those associated with a disability pension or [sick leave](#). The team also factored in several health assessment scores for the patients included in the study. The researchers noted that most of the patients in the study were female, and their median age was 56. Also, more than half of them had a treatment response to a TNF inhibitor.

The researchers report that their model showed that rituximab was the lowest cost option of those tested, but that changed when they added in costs associated with switching therapies and administration costs. When such factors were included, the model showed anti-TNF agents to have the lowest costs and also the highest gains on quality-adjusted life year

scores.

More information: Cost-effectiveness of abatacept, tocilizumab and TNF-inhibitors compared with rituximab as second-line biologic drug in rheumatoid arthritis, *PLOS One* (2019).

journals.plos.org/plosone/article?id=10.1371/journal.pone.0220142

© 2019 Science X Network

Citation: Researchers compare cost effectiveness of different types of treatments for rheumatoid arthritis (2019, July 29) retrieved 22 September 2024 from

<https://medicalxpress.com/news/2019-07-effectiveness-treatments-rheumatoid-arthritis.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.