

Pyronaridine-artesunate for treating uncomplicated *Plasmodium falciparum* malaria

January 8 2019



Credit: CC0 Public Domain

Researchers from LSTM have looked at the efficacy of using a novel artemisinin-based combination therapy (ACT), pyronaridine-artesunate, to treat malaria in areas where resistance to other ACTs is becoming a problem. The analysis finds it at least as effective as the currently used ACTs, if not better.

The World Health Organization (WHO) recommends ACTs to treat uncomplicated *Plasmodium falciparum* (*P. falciparum*) malaria. However, concerns over rising artemisinin resistance have led global initiatives to develop new partner drugs to protect their efficacy.

In this update of a Cochrane Review, independent authors Joseph Pryce and Paul Hine at LSTM assessed the efficacy of pyronaridine-artesunate in treating malaria. They found that the treatment was as good, if not better than other ACTs; and while some people receiving it have [liver function tests](#) suggesting mild liver injuries, there was no evidence that this injury was severe or irreversible.

LSTM's Dr. Hine is corresponding author on the review. He said: "The need to find novel ACTs is important so that we can protect the efficacy of the artemisinin derivatives within them. The evidence that we found clearly showed that pyronaridine-artesunate performs as well, if not better than some of the currently marketed ACTs."

The review team looked at the results from 10 included trials that compared pyronaridine-artesunate with other currently-used treatments for *P. falciparum* malaria. Five of the studies looked specifically at the safety of the drug, and two of the trials exclusively recruited children under the age of 12.

Joe Pryce, one of the authors, said: "We found that pyronaridine-artesunate did increase the risk of having blood tests that showed mild liver injury, but there was no evidence that this caused severe or

irreversible damage. The findings of this review's efficacy analysis support the recommendation for using pyronaridine-artesunate in areas of multiple drug resistance, providing effective [malaria](#) treatment where other treatments may be failing."

More information: Pyronaridine-artesunate for treating uncomplicated *Plasmodium falciparum* malaria. *Cochrane Database of Systematic Reviews*. [DOI: 10.1002/14651858.CD006404.pub3](https://doi.org/10.1002/14651858.CD006404.pub3).

Provided by Liverpool School of Tropical Medicine

Citation: Pyronaridine-artesunate for treating uncomplicated *Plasmodium falciparum* malaria (2019, January 8) retrieved 1 May 2024 from <https://medicalxpress.com/news/2019-01-pyronaridineartesianate-uncomplicated-plasmodium-falciparum-malaria.html>

<p>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.</p>
--