In vitro studies with combinations of standard anthelmintics against *Trichuris muris* (n=10)

All combinations revealed synergistic properties in vitro

Single drug. Establish IC\textsubscript{50} against *Trichuris muris* in vitro

In vitro studies with combinations of standard anthelmintics against *Trichuris muris* (n=10)

Single drug. Establish ED\textsubscript{50} against *Trichuris muris* in vivo

Five antagonistic combinations in vivo

Four synergistic combinations in vivo

One additive combination in vivo

Mebendazole-ivermectin

Mebendazole-levamisole

Albendazole-mebendazole

Albendazole-ivermectin

Albendazole-levamisole

Results from clinical trials available?

Moderate CR, high ERR (single trial); higher efficacy than monotherapy\textsuperscript{1}

Similar low efficacy as monotherapy\textsuperscript{2}

Moderate CR, high ERR (single trial); higher efficacy than monotherapy\textsuperscript{3}

Varying CRs and ERRs (5 trials), higher efficacy than monotherapy\textsuperscript{1,4,5,6}

Not yet studied in *T. trichiura* patients

Low CR and moderate ERR observed with mebendazole-ivermectin against hookworms

Safety and efficacy should be further evaluated

No enhanced activity observed in patients infected with hookworms. **Combination covers full range of parasites and has enhanced trichuricidal activity**

Drug interactions observed in healthy volunteers\textsuperscript{7}, hence spaced administration preferable

Moderate CR, high ERR (single trial); higher efficacy than monotherapy\textsuperscript{1}