Prevalence and Distribution of Chloroquine resistance marker- Pfcrt K76T in Tanzania and Kenya

Group 3
Literature search

• Literature sources
  – HINARI
  – PubMed Central
  – Google Scholar
  – WWARN

• Key words
  – Prevalence of Pfcrt from 2010 to 2018 in Tanzania
  – Prevalence of Pfcrt from 2010 to 2018 in Kenya
<table>
<thead>
<tr>
<th>Author, Year</th>
<th>Setting</th>
<th>Journal</th>
<th>Prevalence (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kiarie et al, 2015,</td>
<td>Msambweni, Kenya</td>
<td><em>Malaria Journal</em></td>
<td>41</td>
</tr>
<tr>
<td>Mohammed et al, 2013</td>
<td>Tanzania</td>
<td><em>Malaria Journal</em></td>
<td>9</td>
</tr>
<tr>
<td>Golassa et al, 2015</td>
<td>Ilemela Mwanza</td>
<td><em>Malaria Journal</em></td>
<td>7.2</td>
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<tr>
<td>Kamugisha et al, 2012</td>
<td>Tanzania</td>
<td><em>Acta tropica</em></td>
<td>40.5</td>
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</tbody>
</table>
Prevalence of 76T in Tanzania and Kenya

<table>
<thead>
<tr>
<th>0-10%</th>
<th>11-20%</th>
<th>21-30%</th>
<th>31-40%</th>
<th>41-50%</th>
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Map showing the distribution of 76T prevalence in Tanzania and Kenya.
Prevalence of 76T in Tanzania and Kenya

Publication years
- Kiarie et al, 2015
- Okombo et al, 2014
- Golassa et al, 2015
- Kamugisha et al, 2012
- Mohammed et al, 2013
Prevalence of Pfcrt in Siaya and Bondo Kenya (Lucchi et al, 2015)
Temporal prevalence of Pfcrtn K76T in Fukayosi village Bagamoyo Tanzania (Malmberg et al, 2013)
Conclusion

• Prevalence of PfcrT
  – Mutant type and mixed type been decreasing since withdrawal
  – There is temporal increase in wild type PfcrT
  – Higher in Kenya than Tanzania – Reason?

• Distribution
  – Both mutant and wild types detected throughout Tanzania and Kenya
References


