Visceral leishmaniasis – malaria co-infections
van den Bogaart, E.

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Concomitant infections by multiple pathogen species represent a serious threat to human health. Affecting over a billion people worldwide, co-infections are an important cause of human morbidity and mortality, and a powerful driver of pathogen evolution. Their clinical and pathological spectrum reflects the ability of co-infecting pathogens to interact with each other, resulting in synergistic or antagonistic effects that may alter the course and clinical presentation of disease, posing significant diagnostic and therapeutic challenges.

Visceral leishmaniasis and malaria are two vector-borne diseases that co-exist in many areas around the world. Caused by parasites of the genus Leishmania and Plasmodium, respectively, visceral leishmaniasis and malaria share part of their environmental, clinical and pathogenetic features. This suggests that the two diseases could co-occur and cross-interact in the same host, although limited data are available on this subject. This thesis presents an overview of clinical and experimental studies focusing on the epidemiology, immunology and parasitology of visceral leishmaniasis – malaria co-infections. By combining clinical and field evidence gathered from across East Africa with in vitro data on the mutual effects of the two parasites on and through the immune system, this thesis provides evidence that visceral leishmaniasis and malaria frequently co-exist in patients living in co-endemic areas, and can interact at immunological and non-immunological level, with potential implications on the course and resolution of the two diseases.
VISCERAL LEISHMANIASIS – MALARIA CO-INFECTIONS

Epidemiological, immunological
and parasitological aspects

Erika van den Bogaart
Colofon

VISCERAL LEISHMANIASIS — MALARIA CO-INFECTIONS
Epidemiological, immunological and parasitological aspects


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VISCERAL LEISHMANIASIS – MALARIA CO-INFECTIONS

Epidemiological, immunological and parasitological aspects

ACADEMISCH PROEFSCHRIFT

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aan de Universiteit van Amsterdam
op gezag van de Rector Magnificus
prof. dr. ir. K.I.J. Maex

ten overstaan van een door het College voor Promoties ingestelde commissie,
in het openbaar te verdedigen in de Agnietenkapel
op vrijdag 20 januari 2017, te 10.00 uur

door
Erika van den Bogaart
geboren te Bergamo, Italie
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What you get by achieving your goals is not as important as what you become by achieving your goals.

Zig Ziglar

to my family
# Table of Contents

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction</td>
<td>9</td>
</tr>
<tr>
<td>2</td>
<td>Prevalence, features and risk factors for malaria co-infections amongst visceral leishmaniasis patients from Amudat Hospital, Uganda <em>PLoS Neglected Tropical Diseases 2012, 6(4):e1617</em></td>
<td>41</td>
</tr>
<tr>
<td>3</td>
<td>Concomitant malaria among visceral leishmaniasis in-patients from Gedarif and Sennar States, Sudan: a retrospective case-control study <em>BMC Public Health 2013, 13:332</em></td>
<td>59</td>
</tr>
<tr>
<td>4</td>
<td>Cytokine profiles amongst Sudanese patients with visceral leishmaniasis and malaria co-infections <em>BMC Immunology 2014, 15:16</em></td>
<td>81</td>
</tr>
<tr>
<td>5</td>
<td><em>Leishmania donovani</em> infection drives the priming of human monocyte-derived dendritic cells during <em>Plasmodium falciparum</em> co-infections <em>Parasite Immunology 2015, 37(9):453-69</em></td>
<td>103</td>
</tr>
<tr>
<td>6</td>
<td>Duplex quantitative Reverse-Transcriptase PCR for simultaneous assessment of drug activity against <em>Leishmania</em> intracellular amastigotes and their host cells <em>International Journal for Parasitology: Drugs and Drug Resistance 2014, 4:14-19</em></td>
<td>133</td>
</tr>
<tr>
<td>8</td>
<td>Phagocytosis of hemozoin by RAW 264.7 cells, but not THP-1 cells, promotes infection by <em>Leishmania donovani</em> with a nitric oxide-independent mechanism <em>Parasitology International 2016, In Press</em></td>
<td>165</td>
</tr>
<tr>
<td>9</td>
<td>Discussion</td>
<td>187</td>
</tr>
<tr>
<td>Section</td>
<td>Page</td>
<td></td>
</tr>
<tr>
<td>--------------------------</td>
<td>------</td>
<td></td>
</tr>
<tr>
<td>Chapter 10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Summary</td>
<td>206</td>
<td></td>
</tr>
<tr>
<td>Samenvatting</td>
<td>209</td>
<td></td>
</tr>
<tr>
<td>Sommario</td>
<td>213</td>
<td></td>
</tr>
<tr>
<td>Addendum</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Authors and Affiliations</td>
<td>219</td>
<td></td>
</tr>
<tr>
<td>Acknowledgments</td>
<td>221</td>
<td></td>
</tr>
<tr>
<td>PhD Portfolio</td>
<td>225</td>
<td></td>
</tr>
<tr>
<td>List of Publications</td>
<td>228</td>
<td></td>
</tr>
<tr>
<td>About the author</td>
<td>230</td>
<td></td>
</tr>
</tbody>
</table>