Artesunate-Amodiaquine Dose Impact Study Group
Acknowledgements

WWARN thanks the following investigators who contributed individual patient data from published or unpublished clinical studies to the AS-AQ Dose Impact Study Group pooled analysis investigating:

- the mg/kg dosing range of the clinically-adopted ACT partner drug amodiaquine; and
- the effects of amodiaquine mg/kg dosing on clinical outcome.

1. Adjuik M, Agnamey P, Babiker A, Borrmann S, Brasseur P, Cisse M, et al. Amodiaquine-artesunate versus amodiaquine for uncomplicated Plasmodium falciparum malaria in African children: a randomised, multicentre trial. *Lancet* 2002 Apr 20;359(9315):1365-72
2. Adjei GO, Kurtzhals JA, Rodrigues OP, Alifrangis M, Hoegberg LC, Kitcher ED, et al. Amodiaquine-artesunate vs artemether-lumefantrine for uncomplicated malaria in Ghanaian children: a randomized efficacy and safety trial with one year follow-up. *Malaria Journal* 2008;7:127.
3. Andriantsoanirina V, Ratsimbasoa A, Bouchier C, Tichit M, Jahevitra M, Rabearimanana S, et al. Chloroquine clinical failures in P. falciparum malaria are associated with mutant Pfmdr-1, not Pfcrt in Madagascar. *PLoS One* 2010;5(10):e13281.
4. Anvikar AR, Sharma B, Shahi BH, Tyagi PK, Bose TK, Sharma SK, et al. Artesunate-amodiaquine fixed dose combination for the treatment of Plasmodium falciparum malaria in India. *Malaria Journal* 2012 Mar 30;11:97
5. Bonnet M, Broek I, van Herp M, Urrutia PP, van Overmeir C, Kyomuhendo J, et al. Varying efficacy of artesunate+amodiaquine and artesunate+sulphadoxine-pyrimethamine for the treatment of uncomplicated falciparum malaria in the Democratic Republic of Congo: a report of two in-vivo studies. *Malaria Journal* 2009;8:192.
6. Bonnet M, Roper C, Felix M, Coulibaly L, Kankolongo GM and Guthmann JP. Efficacy of antimalarial treatment in Guinea: in vivo study of two artemisinin combination therapies in Dabola and molecular markers of resistance to sulphadoxine-pyrimethamine in N'Zerekore. *Malaria Journal* 2007;6:54
7. Brasseur P, Agnamey P, Gaye O, Vaillant M, Taylor WR, Olliaro PL. Efficacy and safety of artesunate plus amodiaquine in routine use for the treatment of uncomplicated malaria in Casamance, southern Sénégal. *Malaria Journal* 2007 Nov 15;6:150
8. Brasseur P, Agnamey P, Gaye O, Cisse M, Badiane M, Vaillant M, et al. Dosing accuracy of artesunate and amodiaquine as treatment for falciparum malaria in Casamance, Senegal. *Tropical Medicine and International Health* 2009 Jan;14(1):79-87
9. Bukirwa H, Yeka A, Kamya MR, Talisuna A, Banek K, Bakyaita N, et al. Artemisinin combination therapies for treatment of uncomplicated malaria in Uganda. *PLoS Clinical Trials* 2006;1(1):e7.
10. Dorsey G, Staedke S, Clark TD, Njama-Meya D, Nzarubara B, Maiteki-Sebuguzi C, et al. Combination therapy for uncomplicated falciparum malaria in Ugandan children: a randomized trial. *JAMA* 2007;297(20):2210-9.
11. Epicentre. Genotyping of antimalarial resistance markers, and in vivo efficacy of artesunate plus sulfadoxine-pyrimethamine vs artesunate plus Amodiaquine in Nuba, Sudan, 2003.
12. Epicentre. A Phase 4 randomised study to assess the tolerability of AS-AQ (Winthrop FDC) and artemether-lumefantrine for the treatment of uncomplicated falciparum malaria in Liberia, 2009.
13. Epicentre. Efficacy of chloroquine + sulfadoxine-pyrimethamine, artesunate + amodiquine and artesunate + sulfadoxine-pyrimethamine for the treatment of uncomplicated Plasmodium falciparum in Amudat, Uganda, 2003.
14. Epicentre. Efficacy of amodiaquine-artesunate and artemether-lumefantrine for the treatment of uncomplicated Plasmodium falciparum malaria in Nimba county, Liberia, 2009.
15. Espie E, Lima A, Atua B, Dhorda M, Flevaud L, Sompwe EM, et al. Efficacy of fixed-dose combination artesunate-amodiaquine versus artemether-lumefantrine for uncomplicated childhood Plasmodium falciparum malaria in Democratic Republic of Congo: a randomized non-inferiority trial. *Malaria Journal* 2012;11:174.
16. Faucher JF, Aubouy A, Adeothy A, Cottrell G, Doritchamou J, Gourmel B, et al. Comparison of sulfadoxine-pyrimethamine, unsupervised artemether-lumefantrine, and unsupervised artesunate-amodiaquine

fixed-dose formulation for uncomplicated plasmodium falciparum malaria in Benin: a randomized effectiveness noninferiority trial. *Journal Infectious Disease* 2009;200(1):57-65.
17. Faye B, Ndiaye JL, Tine R, Sylla K, Gueye A, Lo AC, et al. A randomized trial of artesunate mefloquine versus artemether lumefantrine for the treatment of uncomplicated Plasmodium falciparum malaria in Senegalese children. *American Journal Tropical Medicine and Hygiene* 2010;82(1):140-4.
18. Faye B, Offianan AT, Ndiaye JL, Tine RC, Toure W, Djoman K, et al. Efficacy and tolerability of artesunate-amodiaquine (Camoquin plus) versus artemether-lumefantrine (Coartem) against uncomplicated Plasmodium falciparum malaria: multisite trial in Senegal and Ivory Coast. *Tropical Medicine and International Health* 2010;15(5):608-13.
19. Gaye O. Study on the efficacy of antimalarial drugs in the suburbs of Dakar in collaboration with the NMCP and the WHO, 2010.
20. Grandesso F, Hagerman A, Kamara S, Lam E, Checchi F, Balkan S, et al. Low efficacy of the combination artesunate plus amodiaquine for uncomplicated falciparum malaria among children under 5 years in Kailahun, Sierra Leone. *Tropical Medicine and International Health* 2006;11(7):1017-21.
21. Guthmann JP, Ampuero J, Fortes F, van Overmeir C, Gaboulaud V, Tobback S, et al. Antimalarial efficacy of chloroquine, amodiaquine, sulfadoxine-pyrimethamine, and the combinations of amodiaquine + artesunate and sulfadoxine-pyrimethamine + artesunate in Huambo and Bie provinces, central Angola. *Transactions of the Royal Society of Tropical Medicine* 2005;99(7):485-92.
22. Guthmann JP, Cohuet S, Rigutto C, Fortes F, Saraiva N, Kiguli J, et al. High efficacy of two artemisinin-based combinations (artesunate + amodiaquine and artemether + lumefantrine) in Caala, Central Angola. *American Journal of Tropical Medicine and Hygiene* 2006;75(1):143-5.
23. Hasugian AR, Purba HL, Kenangalem E, Wuwung RM, Ebsworth EP, Maristela R, et al. Dihydroartemisinin-piperaquine versus artesunate-amodiaquine: superior efficacy and post-treatment prophylaxis against multidrug-resistant Plasmodium falciparum and Plasmodium vivax malaria. *Clinical Infectious Disease* 2007;44(8):1067-74.
24. Jullien V, Ogutu B, Juma E, Carn G, Obonyo C, Kiechel JR. Population pharmacokinetics and pharmacodynamic considerations of amodiaquine and desethylamodiaquine in Kenyan adults with uncomplicated malaria receiving artesunate-amodiaquine combination therapy. *Antimicrobial Agents and Chemotherapy* 2010;54(6):2611-7.
25. Juma EA, Efficacy of co-adminsitered amodiaquine plus artesunate and artemether/lumefantrine for the treatment of uncomplicated falciparum malaria in children less than five years in different epidemiological settings in Kenya, 2004.
26. Karema C, Fanello CI, van Overmeir C, van Geertruyden JP, van Doren W, Ngamije D, et al. Safety and efficacy of dihydroartemisinin/piperaquine (Artekin) for the treatment of uncomplicated Plasmodium falciparum malaria in Rwandan children *Transactions of the Royal Society of Tropical Medicine* 2006 Dec;100(12):1105-11
27. Laminou I. Randomized, double blind study comparing the therapeutic efficacy and safety of artemether-lumefantrine and artesunate amodiaquine in Gaya, Niger 2011.
28. Martensson A, Stromberg J, Sisowath C, Msellem MI, Gil JP, Montgomery SM, et al. Efficacy of artesunate plus amodiaquine versus that of artemether-lumefantrine for the treatment of uncomplicated childhood Plasmodium falciparum malaria in Zanzibar, Tanzania. *Clinical Infectious Disease* 2005;41(8):1079-86.
29. Ménard D, Andrianina NN, Ramiandrasoa Z, Randriamanantena A, Rasoarilalao N, Jahevitra M et al. Randomized clinical trial of artemisinin versus non-artemisinin combination therapy for uncomplicated falciparum malaria in Madagascar. *Malaria Journal* 2007;6:65
30. Nikiema F and Zongo I. Evolution of therapeutic efficacies of artemisinin-based combination therapies (ASAQ and AL) for treatment of uncomplicated falciparum malaria in Burkina Faso during five years adoption as first-line treatments, 2010.
31. Ndiaye JL, Faye B, Gueye A, Tine R, Ndiaye D, Tchania C, et al. Repeated treatment of recurrent uncomplicated Plasmodium falciparum malaria in Senegal with fixed-dose artesunate plus amodiaquine versus fixed-dose artemether plus lumefantrine: a randomized, open-label trial. *Malaria Journal* 2011;10:237.
32. Ndiaye JL, Randrianarivelojosia M, Sagara I, Brasseur P, Ndiaye I, Faye B, et al. Randomized, multicentre assessment of the efficacy and safety of ASAQ--a fixed-dose artesunate-amodiaquine combination therapy in the treatment of uncomplicated Plasmodium falciparum malaria. *Malaria Journal* 2009;8:125.
33. Ndiaye JL, Faye B, Diouf AM, Kuété T, Cisse M, Seck PA, et al. Randomized, comparative study of the efficacy and safety of artesunate plus amodiaquine, administered as a single daily intake versus two daily intakes in the treatment of uncomplicated falciparum malaria. *Malaria Journal* 2008;7:16

34. Oguike M, Falade C, Ademowo G and Sutherland C. Clinical and parasitological evaluation of the comparative efficacy and effectiveness of artemether-lumefantrine, artesunate-amodiaquine and artesunate-amodiaquine plus chlorpheniramine in Nigerian children with acute uncomplicated malaria, 2007.
35. Osorio L, Gonzalez I, Olliaro P, Taylor WR. Artemisinin-based combination therapy for uncomplicated Plasmodium falciparum malaria in Colombia. *Malaria Journal* 2007;6:25.
36. Penali L. Assessment of the efficacy of first-line antimalarial drugs after 5 years of deployment by the National Malaria Control Programme in Côte d'Ivoire, 2008.
37. Penali L. Amondate FDC vs Co-artesiane from the Institute Pastuer, Cote D'Ivoire, 2005.
38. Rwagacondo CE, Karema C, Mugisha V, Erhart A, Dujardin JC, Van Overmeir C, et al. Is amodiaquine failing in Rwanda? Efficacy of amodiaquine alone and combined with artesunate in children with uncomplicated malaria. *Tropical Medicine and International Health* 2004 Oct;9(10):1091-8
39. Sagara I, Fofana B, Gaudart J, Sidibe B, Togo A, Toure S, et al. Repeated artemisinin-based combination therapies in a malaria hyperendemic area of Mali: efficacy, safety, and public health impact. *Americal Journal of Tropical Medicine Hygiene* 2012;87(1):50-6.
40. Sanofi, Fixed dose AS-AQ in Uganda, 2010.
41. Sirima SB, Tiono AB, Gansane A, Diarra A, Ouedraogo A, Konate AT, et al. The efficacy and safety of a new fixed-dose combination of amodiaquine and artesunate in young African children with acute uncomplicated Plasmodium falciparum. *Malaria Journal* 2009;8:48.
42. Smithuis F, Kyaw MK, Phe O, Win T, Aung PP, Oo AP, et al. Effectiveness of five artemisinin combination regimens with or without primaquine in uncomplicated falciparum malaria: an open-label randomised trial. *Lancet Infectious Diseases* 2010;10(10):673-81.
43. Staedke SG, Mpimbaza A, Kamya MR, Nzarubara BK, Dorsey G, Rosenthal PJ. Combination treatments for uncomplicated falciparum malaria in Kampala, Uganda: randomised clinical trial. *Lancet* 2004;364(9449):1950-7.
44. Syafruddin D and Asih P. Evaluation of the parasite clearance day following treatment with artesunate-amodiaquine in subjects with uncomplicated Plasmodium falciparum malaria in West Sumba District, East Nusa Tenggara Province, Indonesia, 2011.
45. Swarthout TD, van den Broek IV, Kayembe G, Montgomery J, Pota H and Roper C. Artesunate + amodiaquine and artesunate + sulphadoxine-pyrimethamine for treatment of uncomplicated malaria in Democratic Republic of Congo: a clinical trial with determination of sulphadoxine and pyrimethamine-resistant haplotypes. *Tropical Medicine and International Health* 2006;11(10):1503-11.
46. The 4ABC Study Group, A head-to-head comparison of four artemisinin-based combinations for treating uncomplicated malaria in African children: a randomized trial. *PLoS Medicine* 2011;8(11):e1001119.
47. Thwing JI, Odero CO, Odhiambo FO, Otieno KO, Kariuki S, Ord R, et al. In-vivo efficacy of amodiaquine-artesunate in children with uncomplicated Plasmodium falciparum malaria in western Kenya. *Tropical Medicine and International Health* 2009;14(3):294-300.
48. van den Broek I, Amsalu R, Balasegaram M, Hepple P, Alemu E, Hussein el B, et al. Efficacy of two artemisinin combination therapies for uncomplicated falciparum malaria in children under 5 years, Malakal, Upper Nile, Sudan. *Malaria Journal* 2005;4(1):14.
49. van den Broek I, Kitz C, Al Attas S, Libama F, Balasegaram M, Guthmann JP. Efficacy of three artemisinin combination therapies for the treatment of uncomplicated Plasmodium falciparum malaria in the Republic of Congo. *Malaria Journal* 2006;5:113.
50. Yeka A, Banek K, Bakyaita N, Staedke SG, Kamya MR, Talisuna A, et al. Artemisinin versus nonartemisinin combination therapy for uncomplicated malaria: randomized clinical trials from four sites in Uganda. *PLoS Medicine* 2005;2(7):e190.
51. Zwang J, Olliaro P, Barennes H, Bonnet M, Brasseur P, Bukirwa H, et al. Efficacy of artesunate-amodiaquine for treating uncomplicated falciparum malaria in sub-Saharan Africa: a multi-centre analysis. *Malaria Journal* 2009;8:203.