

Dr J.A. van Wyk

Publications

Peer-reviewed Publications

1. Maia, D., Rosalinski-Moraes, F., **Van Wyk, J.A.**, Weber, S., Sotomaior, C.S., 2014. Assessment of a hands-on method for FAMACHA[®] system training. *Veterinary Parasitology*, 200:165-171.
2. **Van Wyk, J.A.**, Mayhew, E., 2013. Morphological identification of parasitic nematode infective larvae of small ruminants and cattle: A practical lab guide. *Onderstepoort Journal of Veterinary Research*, 80, Art. #539, 14 pages. [http:// dx.doi.org/10.4102/ojvr.v80i1.539](http://dx.doi.org/10.4102/ojvr.v80i1.539).
3. Leask, R., **Van Wyk, J.A.**, Thompson, P.N., Bath, G.F., 2013. The effect of application of the FAMACHA[®] system on selected production parameters in sheep. *Small Ruminant Research*, 110:1-8.
4. Molento, M.B., Verissimo, C.J., Amarante, A.T., **Van Wyk, J.A.**, Chagas, A.C.S., De Araujo, J.V., Borges, F.A., 2013. Alternative techniques for the control of gastrointestinal nematodes in small ruminants. *Arquivos Do Instituto Biologico, Sao Paulo*, 80, 11pp.
5. Sotomaior, C.S., Rosalinski-Moraes, F., Da Costa, A.R.B., Maia, D., Monteiro, A.L.G., **Van Wyk, J.A.**, 2012. Sensitivity and specificity of the FAMACHA[®] system in Suffolk sheep and crossbred Boer goats. *Veterinary Parasitology*, 190:114-119.
6. **Van Wyk, J.A.**, Reynecke, D.P., 2011. Blueprint for and automated specific decision support system for countering anthelmintic resistance in *Haemonchus* spp. at farm level. *Veterinary Parasitology*, 177:212-223.
7. Reynecke, D.P., **Van Wyk, J.A.**, Gummow, B., Dorny, P., Boomker, J., 2011. Application of ROC curve analysis to FAMACHA[®] evaluation of haemonchosis on two sheep farms in South Africa. *Veterinary Parasitology*, 177:224-230.
8. Reynecke, D.P., **Van Wyk, J.A.**, Gummow, B., Dorny, P., Boomker, J., 2011. A stochastic model accommodating the FAMACHA[®] system for estimating worm burdens and associated risk factors in sheep naturally infected with *Haemonchus contortus*. *Veterinary Parasitology*, 177:231-241.
9. Reynecke, D.P., **Van Wyk, J.A.**, Gummow, B., Dorny, P., Boomker, J., 2011. Validation of the FAMACHA[®] eye colour chart using sensitivity/specificity analysis on two South African sheep farms. *Veterinary Parasitology*, 177:203-211.
10. Riley, D.G., **Van Wyk, J.A.**, 2011. The effects of penalization of FAMACHA[®] scores of lambs treated for internal parasites on the estimation of genetic parameters and prediction of breeding values. *Small Ruminant Research*, 99:122-129.
11. Bath, G.F., **Van Wyk, J.A.**, Malan, F.S., 2010. Targeted Selective Treatment of sheep using the Five Point Check[®]. *Journal of the Commonwealth Veterinary Association*, 26:29-32.
12. Kenyon, F., Greer, A.W., Coles, G.C., Cringoli, G., Papadopoulos, E., Cabaret, J., Berrag, B., Varady, M., **Van Wyk, J.A.**, Thomas, E., Vercruyse, J., Jackson, F., 2009. The role of targeted selective treatments in the development of refugia-based approaches to the control of gastrointestinal nematodes of small ruminants. *Veterinary Parasitology*, 164:2-11.
13. Riley, D.G., **Van Wyk, J.A.**, 2009. Genetic parameters for of FAMACHA[®] score and related traits for host resistance/resilience and production at differing severities of worm challenge in a Merino flock in South Africa. *Veterinary Parasitology*, 164:44-52.
14. Bath G.F., **Van Wyk, J.A.**, 2009. The Five Point Check[®] for targeted selective treatment of internal parasites in small ruminants. *Small Ruminant Research*, 86:6-13.
15. Jex, A.R., Waeschenbach, A., Hu, M., **Van Wyk, J.A.**, Beveridge, I., Littlewood, D.T.J., Gasser, R.B., 2009. The mitochondrial genomes of *Ancylostoma caninum* and *Bunostomum phlebotomum* – two hookworms of animal health and zoonotic importance. *BMC Genomics*, 10, 79:1-10.
16. **Van Wyk, J.A.**, 2008. Production trials involving use of the FAMACHA[®] system for haemonchosis in sheep – preliminary results. *Onderstepoort Journal of Veterinary Research*, 75:331-345.
17. **Van Wyk, J.A.**, Hoste, H., Kaplan, R.M., Besier, R.B., 2006. Targeted selective treatment for worm management - how do we sell rational programs to farmers? *Veterinary Parasitology*, 139:336-346.
18. Bath, G.F., **Van Wyk, J.A.**, Pettey, K.P., 2005. Control measures for some important and unusual goat diseases in southern Africa. *Small Ruminant Research*, 60:124-140.
19. Van Schalkwyk, P.C., **Van Wyk, J.A.**, Morgan, E., Coles, G., 2005. Tapeworm control in sheep. *Veterinary Record*, September, 3:298.
20. Molento, M.B., Van Wyk, J.A., Coles, G.C., 2004. Sustainable worm management. *Veterinary Record*, July, 17:95-96.

21. **Van Wyk, J.A.**, Cabaret, J., Michael, L.M., 2004. Morphological identification of nematode infective larvae of small ruminants and cattle simplified. *Veterinary Parasitology*, 119:277-306.
22. Bath, G.F., **Van Wyk, J.A.**, 2004. Background and use of the FAMACHA[®] system for managing ovine and caprine haemonchosis. *Zambian Journal of Veterinary Science* (Special Issue): Lusaka, 4-6 August 2004.
23. **Van Wyk, J.A.**, Meyer, J., Van Rensburg, L.J., 2003. Little or no drenching required for lambs finished over winter and spring on annually re-established irrigated pasture on the Highveld of Gauteng Province, South Africa. *Tydskrif van die Suid-Afrikaanse Veterinêre Vereniging / Journal of the South African Veterinary Association*, 74:2-6.
24. **Van Wyk, J.A.**, Van Rensburg, L.J., 2003. Description and classification of abnormal cercariae of *Schistosoma mattheei* and a method of concentration and collection. *Onderstepoort Journal of Veterinary Research*, 70:121-129.
25. Van Rensburg, L.J., **Van Wyk, J.A.**, 2003. *Schistosoma mattheei*: An ovum containing two miracidia. *Onderstepoort Journal of Veterinary Research*, 70:69-71.
26. **Van Wyk, J.A.**, Bath, G.F., 2002. The FAMACHA[®] system for managing haemonchosis in sheep and goats by clinically identifying individual animals for treatment. *Veterinary Research*, 33:509-529 (Review paper on invitation).
27. **Van Wyk, J.A.**, Coles, G.C., Krecek, R.C., 2002. Can we slow the development of anthelmintic resistance? An electronic debate. *Trends in Parasitology*, 18:336-337.
28. **Van Wyk, J.A.**, Van Wyk, Laetitia, 2002. Freezing of sheep faeces invalidates *Haemonchus contortus* faecal egg counts by the McMaster method. *Onderstepoort Journal of Veterinary Research*, 69:299-304.
29. **Van Wyk, J.A.**, 2002. Principles for the use of macrocyclic lactones to minimise selection for resistance. *Australian Veterinary Journal*, 80:40-41 (Comment, by invitation, on article by Dobson, R.J., Besier, R.B., Barnes, E.H., Love, S.C.J., Vizard, A., Bell, K., Le Jambre, L.F., *Australian Veterinary Journal* 79:756-761).
30. **Van Wyk, J.A.**, 2001. Refugia - overlooked as perhaps the most potent factor concerning the development of anthelmintic resistance. *Onderstepoort Journal of Veterinary Research*, 68:55-67.
31. Smith, W.D., **Van Wyk, J.A.**, Van Strijp, M.F., 2001. Preliminary observations on the potential of gut membrane proteins of *Haemonchus contortus* as candidate vaccine antigens in sheep on naturally infected pasture. *Veterinary Parasitology*, 98:285-297.
32. Malan, F.S., **Van Wyk, J.A.**, Wessels, C.D., 2001. Clinical evaluation of anaemia in sheep: early trials. *Onderstepoort Journal of Veterinary Research*, 68:165-174.
33. **Van Wyk, J.A.**, Gerber, H.M., 2000. Oral infectivity of cryopreserved *Haemonchus contortus* infective larvae that recovered relatively slowly when thawed after more than 15 years in liquid nitrogen. *Onderstepoort Journal of Veterinary Research*, 67:149-152.
34. **Van Wyk, J.A.**, Gerber, H.M., De Villiers, F.J., 2000. Parenterally administered gastrointestinal nematode infective larvae viable after more than 15 years in liquid nitrogen. *Veterinary Parasitology*, 88:239-247.
35. **Van Wyk, J.A.**, 1999. A comparison of the infectivity of cryopreserved versus unfrozen infective larvae of *Haemonchus contortus*, *Trichostrongylus colubriformis* and *Trichostrongylus axei*. Results of the Onderstepoort Veterinary Institute and collaborators from 1977 to the present. *Onderstepoort Journal of Veterinary Research*, 66:285-289.
36. **Van Wyk, J.A.**, 2000. Anthelmintic resistance: conventional recommendations for control reviewed in relation to novel methods of biological worm control. *Journal of the South African Veterinary Association*, 71:135-136.
37. **Van Wyk, J.A.**, Stenson, M.O., Van Der Merwe, J.S., Vorster, R.J., Viljoen, P.G., 1999. Anthelmintic resistance in South Africa: Surveys indicate an extremely serious situation in sheep and goat farming. *Onderstepoort Journal of Veterinary Research*, 66:273-284.
38. **Van Wyk, J.A.**, 1998. Viability of nematode larvae after exsheathment with sodium hypochlorite. *Parasitology Today*, 14:474-475.
39. **Van Wyk, J.A.**, Bath, G.F., Malan, F.S., 1998. The need for alternative methods to control nematode parasites of ruminant livestock in South Africa. *World Animal Review*, 91:30-33.
40. **Van Wyk, J.A.**, Malan, F.S., Van Rensburg, L.J., Oberem, P.T., Allan, M.J., 1997. Quality control in generic anthelmintics: Is it adequate? *Veterinary Parasitology*, 72:157-165.
41. **Van Wyk, J.A.**, Malan, F.S., Randles, J.L., 1997. How long before resistance makes it impossible to control some field strains of *Haemonchus contortus* in South Africa with any of the modern anthelmintics? *Veterinary Parasitology*, 70:111-122.
42. **Van Wyk, J.A.**, Van Rensburg, L.J., Heitmann L.P., 1997. *Schistosoma mattheei* infection in cattle: The course of the intestinal syndrome, and an estimate of the lethal dose of cercariae.

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 44. **Van Wyk, J.A.**, Groeneveld, H.T., 1997. Comments on the paper "World Association for the Advancement of *Veterinary Parasitology* (W.A.A.V.P.) Second Edition of Guidelines for Evaluating the Efficacy of Anthelmintics in Ruminants (Bovine, Ovine, Caprine)". *Veterinary Parasitology*, 70:283-288.
 45. **Van Wyk, J.A.**, Titoy, G.A.P., 1996. Radiolabelled adult *Haemonchus contortus* obtained from eggs voided in the faeces of a sheep injected with ⁵⁹Fe. *Onderstepoort Journal of Veterinary Research*, 63:263-264.
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 47. **Van Wyk, J.A.**, Van Wijk, E.F., 1992. Weerstand van klein strongiele van 'n perdestoetery in Suid-Afrika teen die bensimidazole wurmmiddels/Resistance of small strongyles in an equine stud in South Africa to the benzimidazole anthelmintics. *Tydskrif van die Suid-Afrikaanse Veterinêre Vereniging/Journal of the South African Veterinary Association*, 63:144-147.
 48. **Van Wyk, J.A.**, Van Schalkwyk, P.C., Bath, G.F., Gerber, H.M., Alves, Regina M.R., 1991. Die gevaar van wye verspreiding van weerstandbiedendheid teen wurmmiddels deur veldramprestasietoetsentra/The threat of wide dissemination of anthelmintic resistance by veld ram performance testing units. *Tydskrif van die Suid-Afrikaanse Veterinêre Vereniging/Journal of the South African Veterinary Association*, 62:171-175.
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 59. **Van Wyk, J.A.**, Van Schalkwyk, P.C., Gerber, H.M., Visser, Evelyn L., Alves, Regina M.R., Van Schalkwyk L., 1989. South African field strains of *Haemonchus contortus* resistant to the levamisole/morantel group of anthelmintics. *Onderstepoort Journal of Veterinary Research*, 56:257-262.
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85. **Van Wyk, J.A.**, 1971. Kits diagnose van Bilharzia/Rapid diagnosis of Bilharzia. *Tydskrif van die Suid-Afrikaanse Veterinêr-Mediese Vereniging/Journal of the South African Veterinary Medical Association*, 42:p.378.
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Letter to the Editor

Van Wyk, J.A., 1997. [Letter to the Editor] 1997. Kommentaar oor die artikel "A primary health care approach to an outbreak of cutaneous larva migrans", deur C.M.E. McCrindle, I.T. Hay, R.D. Kirkpatrick, J.S.J. Odendaal, E.M. Calitz. *Tydskrif van die Suid-Afrikaanse Veterinêre Vereniging*, 1996, 67:133-136). *Tydskrif van die Suid-Afrikaanse Veterinêre Vereniging/Journal of the South African Veterinary Association*, 68:2-7.

Conference papers

1. **Van Wyk, J.A.**, Besier, R.B., 2013. Refugia revisited for sustainable integrated parasite management (SIPM). In: *Proceedings of the Australian Sheep Veterinarians 2013 Albany Conference, 31 August-1 September, 2013*: p5-19.
2. **Van Wyk, J.A.**, Bath, G.F., 2013. Leave the best, treat the rest - Targeted Selective Treatment for the Resource-Poor in Africa. In: *Proceedings, ACSRPC (American Consortium for Small Ruminant Parasite Control) 10th Anniversary Conference, Fort Valley State University, Fort Valley, Ga, USA, 20-22 May, 2013*: p80-85.
3. **Van Wyk, J.A.**, 2012. Anthelmintic resistance and sustainable holistic Integrated Parasite Management - Present and future. In: *Proceedings, International Conference On Holistic Approaches for Combating Anthelmintic Resistance - An Update in Parasitology. Chennai, India, 26-27 March, 2012*: p55-59.
4. **Van Wyk, J.A.**, 2011. Controlling *Haemonchus contortus* - Where To Next ? In: *Proceedings, LHPG Congress 2011. Gariiep Dam, March 23-25, 2011*: p32-46.
5. Bath, G.F., **Van Wyk, J.A.**, Malan, F.S., 2010. Targeted Selective Treatment of sheep using the Five Point Check[®]. In: *Proceedings of the 3rd International Scientific Conference on Small Ruminants Development. 12-15 April 2010, Hurghada, Egypt. Special Edition "Egyptian Journal of Sheep and Goat Sciences."* 5:369-374.
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7. Anderson, R., Bath, G.F., **Van Wyk, J.A.**, 2009. The effect of application of the FAMACHA[®] System on selected production parameters in sheep. In: *Proceedings of the Livestock Health, Production Group of the SAVV, 21-23 July 2009, Mossel Bay, Western Cape*: p29-30.
8. Bath, G.F., Bester, P., **Van Wyk, J.A.**, 2006. Principles of holistic internal parasite management applied to wildlife. In: *Proceedings of a symposium "Update on diseases of Southern African*

- wildlife”, Onderstepoort, 2-3 November 2006: p62-68.
9. **Van Wyk, J.A.**, 2006. Face facts: drenching with anthelmintics for worm control selects for drug resistance – and no excuses! Keynote presentation: *Proceedings of the New Zealand Society of Animal Production Annual Congress, Napier, 26-28 June 2006*: p4-13.
 10. **Van Wyk, J.A.**, 2003: Think refugia or lose the battle against drug resistance. In: *Proceedings of the Vth International Seminar in Animal Parasitology, October 1-3, Merida, Yucatan, Mexico*: p39-47.
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Training: Presentations to Groups of Farmers/Veterinarians/Scientists

1. Van Wyk, J.A., 2012. "Application of FAMACHA" (Interaction Sessions with Veterinarians and Progressive Farmers). 28 March 2012, Tiruchirappalli, Tamil Nadu, India.
2. Van Wyk, J.A., Raman, M., 28 March 2012. "Application and Field Demonstrations of FAMACHA on sheep farms". 28 March 2012, Tiruchirappalli, Tamil Nadu, India.
3. Van Wyk, J.A., et al., 2012. Evaluation of FAMACHA trials and discussions with local Field Veterinarians. 28 March, Tiruchirappalli, Tamil Nadu, India.
4. Van Wyk, J.A., et al., 2012. Evaluation of FAMACHA trials and discussions with Faculty of BRS. 29 March 2012, Ooty, India.
5. Van Wyk, J.A., 2012. FAMACHA[®] application: personnel at agricultural experimental farm. 29 March 2012, Ooty, India.
6. **Training in Worm Management and Targeted Selective Treatment (TST), and practical demonstration of FAMACHA and Five Point Check in Southern Africa:**
 - a) **South Africa:** Van Wyk, J.A. and Others (Tables 1 and 2). "Theory and Practice of Targeted Selective Treatment (TST) for Worm Management, With the Emphasis on FAMACHA[®] and the Five Point Check Clinical Evaluation Systems for Farmers and Their Advisers in South Africa": Initial meetings on the intent and scientific content and motivation for trials, followed by initial training and subsequent farm visits for continued, repeat training of farmers (commercial and communal) and farm hands in standardised

clinical evaluation of the animals involved, together with quality control of trial execution and sampling.

- Cedara Agricultural Research Institute, KwaZulu-Natal: Training of **Veterinarians, Animal Scientists and Veterinary and Agricultural Technologists** involved in trial at Cedara.
- Cedara Agricultural Research Institute, KwaZulu-Natal: Training of **Resource-Poor communal farmers**, principally from **Msinga District** in the Province.
- **Msinga Rural District** Resource-Poor Communal Farmers.
- **Commercial Farmers and Farm Hands**, Commercial Farmers: Cape and Free State Provinces, South Africa:
 - (i) Vlaklaagte Farm, Bothaville, Free State Province,
 - (ii) Elandsberg Estate, Wellington, S-W Cape Province,
 - (iii) Eenzaamheid Estate, Stellenbosch, S-W Cape Province.
- b) **Botswana**: Morgan, E.R., Van Wyk, J.A., Walker, J. Training of Farmers, Farm Hands, Students, Veterinarians, Scientists (about 60% being women):
 - 8 October 2013: Khumaga Village: 25 Resource-Poor (R-P) farmers plus about 8 other agricultural technologists and veterinarians, as listed above,
 - 9 October 2013: Moreomaoto Village: Group of 10 R-P farmers plus others, as above,
 - 10 October 2013: Phuduhudu Village: Group of 32 R-P farmers plus others, as above.