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Monitoring the Efficacy of Anthelmintic Drugs in Small Ruminants in the State of São Paulo, Brazil: Preliminary Results

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The sheep and goat industry in the state of São Paulo (SP) is relatively new with animals, and their parasites, coming from many parts of Brazil without previous drug history. Producers have focus on meat producing animals with large investment. Helminths, mainly *Haemonchus* sp., *Trichostrongylus*

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sp. and *Cooperia* sp. maybe found throughout the year due to SP's subtropical climate (hot and dry to mild and humid areas). The objective of this 2-year project is to determine the efficacy of ivermectin, moxidectin, albendazole, levamisole and closantel in small ruminants by faecal egg count reduction test (FECRT) and coproculture in 32 farms. The DNA from larvae and adults will be collected for -tubulin determination. Although there is no data regarding previous drug testing the actual management will be investigated. Comparison will be made using RESO 2.0. So far, 08 farms were tested and the results showed a disturbing situation to all compounds with high efficacies reaching less then 80%. The most prevalent genus found was *Haemonchus* sp.. Taken these first results one may presume that the sheep and goat industry will suffer to have a positive balance for investments if no interventions are made towards the introduction of a new set of sustainable parasite control strategies. These must include the introduction of parasite-tolerant breeds, FAMACHA, herbal therapy and the introduction of susceptible parasite isolates. Results will be present at the individual level.