The prevalence of gastrointestinal parasites in Danish goats and the presence of anthelmintic resistance (AR) in 10 selected herds were investigated during April-September 2012. All Danish herds (n = 137) with 10 or more adult goats were invited to participate, and of these 27 herds met the inclusion criterion of more than 10 young kids never treated with anthelmintics. Questionnaire data on management were collected, and faecal samples from 252 kids were analysed by the McMaster technique. From all herds with a mean faecal egg count (FEC) above 300 eggs per g of faeces, pooled samples were stained with peanut agglutinin (PNA) for specific detection of Haemonchus contortus. Strongyle eggs were detected with an individual prevalence of 69%, including Nematodirus battus (3.6%) and other Nematodirus species (15.0%). Eimeria spp. were observed in 99.6% of the kids. H. contortus was found in 11 of 12 (92%) tested herds. Anthelmintics were used in 89% of the herds with mean treatment frequencies of 0.96 and 0.89 treatments per year for kids and adults, respectively. In 2011, new animals were introduced into 44% of the herds of which 25% practised quarantine anthelmintic treatments. In 10 herds the presence of AR was analysed by egg hatch assay and FEC reduction tests using ivermectin (0.3 mg/kg) or fenbendazole (10.0 mg/kg). AR against both fenbendazole and ivermectin was detected in seven herds; AR against fenbendazole in one herd, and AR against ivermectin in another herd. In conclusion, resistance to the most commonly used anthelmintics is widespread in larger goat herds throughout Denmark.

General information
State: Published
Organisations: National Veterinary Institute, Section for Bacteriology, Pathology and Parasitology, Technical University of Denmark, University of Copenhagen
Contributors: Holm, S. A., Sørensen, C., Thamsborg, S. M., Enemark, H. L.
Number of pages: 10
Publication date: 2014
Peer-reviewed: Yes

Publication information
Journal: Parasite
Volume: 21
Issue number: 37
ISSN (Print): 1252-607X
Ratings:
BFI (2018): BFI-level 1
Web of Science (2018): Indexed yes
BFI (2017): BFI-level 1
Scopus rating (2017): CiteScore 2.41 SJR 0.893 SNIP 1.15
Web of Science (2017): Impact factor 2.069
Web of Science (2017): Indexed yes
BFI (2016): BFI-level 1
Scopus rating (2016): CiteScore 2.09 SJR 0.901 SNIP 1.149
Web of Science (2016): Impact factor 2.545
BFI (2015): BFI-level 1
Scopus rating (2015): CiteScore 1.47 SJR 0.721 SNIP 0.908
Web of Science (2015): Impact factor 1.781
BFI (2014): BFI-level 1
Scopus rating (2014): CiteScore 1.14 SJR 0.464 SNIP 0.633
Web of Science (2014): Impact factor 1.092
Web of Science (2014): Indexed yes
BFI (2013): BFI-level 1
Scopus rating (2013): CiteScore 0.8 SJR 0.371 SNIP 0.682
Web of Science (2013): Impact factor 0.822
ISI indexed (2013): ISI indexed yes
BFI (2012): BFI-level 1
Scopus rating (2012): CiteScore 1.16 SJR 0.46 SNIP 0.697
Web of Science (2012): Impact factor 1.116
ISI indexed (2012): ISI indexed yes
BFI (2011): BFI-level 1
Scopus rating (2011): CiteScore 1.36 SJR 0.727 SNIP 0.784
Web of Science (2011): Impact factor 1
ISI indexed (2011): ISI indexed yes
BFI (2010): BFI-level 1
Scopus rating (2010): SJR 0.691 SNIP 0.784
Web of Science (2010): Impact factor 1.71
BFI (2009): BFI-level 1
Scopus rating (2009): SJR 0.546 SNIP 0.681
BFI (2008): BFI-level 1
Scopus rating (2008): SJR 0.393 SNIP 0.552
Scopus rating (2007): SJR 0.439 SNIP 0.763
Scopus rating (2006): SJR 0.362 SNIP 0.605
Scopus rating (2005): SJR 0.416 SNIP 0.675
Scopus rating (2004): SJR 0.435 SNIP 0.55
Scopus rating (2003): SJR 0.315 SNIP 0.43
Scopus rating (2002): SJR 0.542 SNIP 0.484
Scopus rating (2001): SJR 0.477 SNIP 0.973
Web of Science (2001): Indexed yes
Scopus rating (2000): SJR 0.418 SNIP 0.62
Scopus rating (1999): SJR 0.386 SNIP 0.787
Original language: English
Keywords: PARASITOLOGY, HAEMONCHUS-CONTORTUS, VETERINARY IMPORTANCE, PARASITIC NEMATODES,
DRUG-RESISTANCE, SMALL RUMINANTS, SHEEP, IVERMECTIN, PREVALENCE, FARMS, SWITZERLAND, Goat,
Parasites, Nematode, Parasite control, Herd management, Anthelmintic resistance
Electronic versions:
2014_Holm_et_al._GIN_AR_in_Danish_goats.pdf
DOIs:
10.1051/parasite/2014038
Source: Findit
Source-ID: 269625158
Research output: Research - peer-review › Journal article – Annual report year: 2014