

American Goat Initiative

Small Ruminant Vaccine Development Roundtable

Tuesday Afternoon, January 21, 2020

Scottsdale, Arizona

ATTENDEES: Bob Buchholz (AGF), Tom Boyer (AGI & AGF), Randy Dusek (AGI & AGF), Dr. Gary Newton (AGF), Jan Carlson (AGF), Tammy Fisher (AGF), Anita Dahnke (AGI & AGF), Dr. Reid Redden (AGF), Peter Orwick (ASI), Dr. Randall Berrier (Colorado Serum), Dr. Paul Plummer (Iowa State University), Dr. Roselle Busch (AGF, UC Davis), Dr. Jim Miller (retired from Louisiana), Dr. Stephen White (USDA/ARS), Dr. Diane Sutton (USDA), Dr. Natalie Urie (USDA), Corlena Patterson, Allan Ribbink and Morgan Moore (Canadian Sheep Federation), Victoria Powers (TSGRA), Larry Campbell, and Naomi Gordon.

See attached list of desired vaccines from AGF Member Organizations. The two vaccines that topped the list from all were for *Haemonchus* (Barberpole worm) and Coxiellosis (Q Fever).

Dr. Paul Plummer, Executive Director, National Institute of Antimicrobial Resistance Research and Education (NIAMRRE), described his work in vaccine development and the challenges involved. Dr. Stephen White described the initial research they are doing on a Coxiellosis (Q Fever) vaccine. AGF has been cooperating with APHIS on Q Fever disease incidence and suppression activities for several years. Dr. James Miller discussed the benefits and challenges of BarberVax, the barber pole worm vaccine which is currently available in Australia, New Zealand and South Africa. Dr. Randall Berrier, Senior Vice President of Scientific Affairs at Colorado Serum Company shared vaccine manufacturing possibility and interest.

Attendees discussed the possibilities of future FDA and USDA fast-tracking approval of vaccines that have already been approved and are in use in other countries to provide US sheep and goat farmer and ranchers with needed tools to combat internal parasites and Coxiellosis (Q fever). At a minimum, the industry needs clearly documented paths for these products to be approved for use in the US, so that private pharmaceutical companies, researchers, and industry organizations can direct concerted efforts to gain access to these products and/or develop new products in the near future.

After Corlena Patterson, Executive Director of the Canadian Sheep Federation and the Chairman, Allan Ribbink provided information on what they've been able to accomplish, attendees agreed that coordination with Canada to have dual approval processes that would create a shared pathway to multi-species small ruminant approval in both countries

for vaccines would be beneficial and should be explored. Dr. Reid Redden, Texas A&M AgriLife Extension suggested that AGF work in cooperation with ASI to clearly express to congressional representatives the need for new vaccines and anthelmintics, some of which are already available to international sheep and goat producers whose products are being consumed in the US. It is important to emphasize the fact that if there are human or animal health risks to consuming products from animals treated with these products, why are imported sheep and goat meat allowed to be eaten in the US when the source has likely been given these products.

Roundtable members will continue to gather information and explore action items in order to develop a detailed action plan before taking the next step (i.e. going to USDA). Dr. Stephen White recommended that AGF immediately communicate the industry's needs to Roxann Motrony, Program Leader for Animal Production and Protection at USDA/ARS. The American Goat Initiative is in the process of setting up a fund where tax deductible donations can be sent to support research for vaccine development and availability in the United States.

Comments from the following individuals are attached:

Dr. Jim Miller

Dr. Reid Redden

David Smith

Randy Dusek

Dr. Randal Berrier

Dr. JD Rowe

Kim Royer

More information will be available at <https://AmericanGoatFederation.org/vaccineroundtable/>