

Epidemiology of *B. suis*



Future use of RB51

USAHA Subcommittee on Brucellosis working group updates

Janemarie Hennebelle, DVM, MPVM
Georgia Department of Agriculture

Epidemiology of *B. suis* in cattle and bison



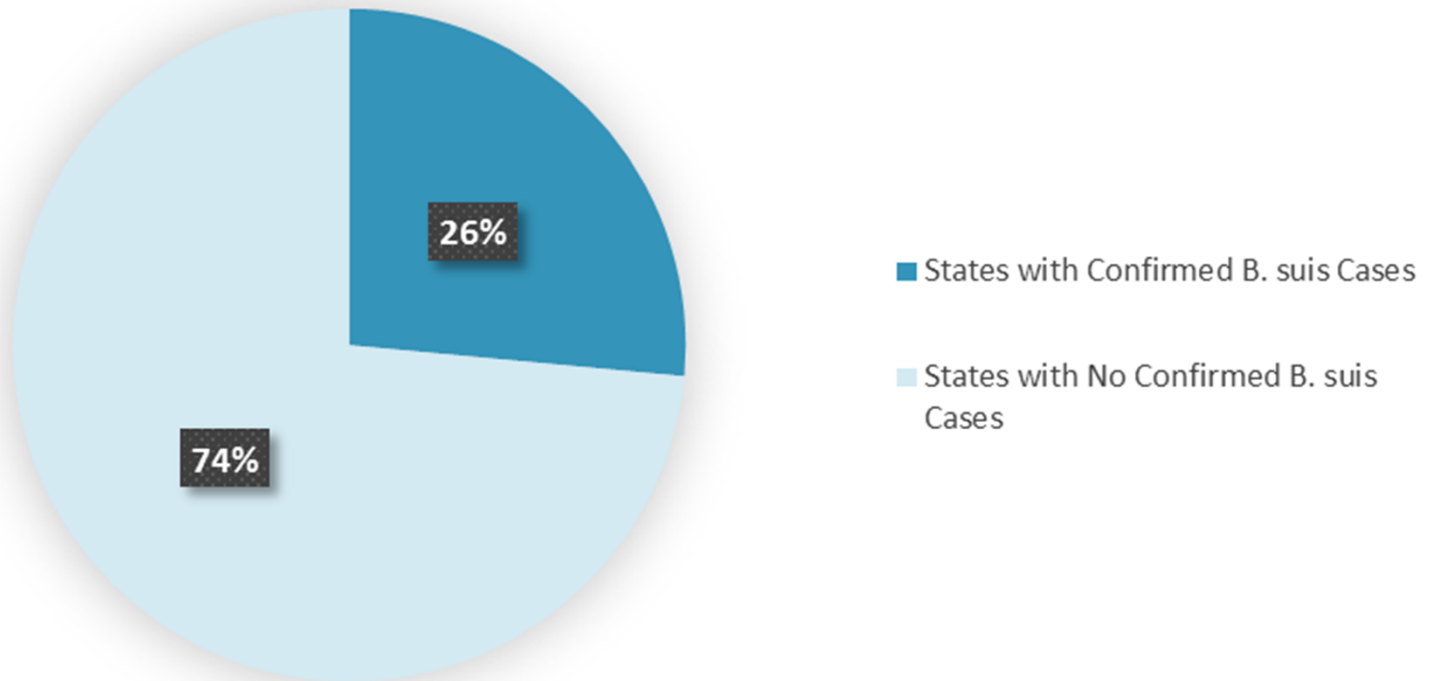
Current serologic methods do not differentiate between *B. abortus* and *suis*.

B. suis and the risk of transmission among non-suidae species is poorly understood.

Methods for management formulated for the eradication of *B. abortus*.

NASAHO survey

Percentage of States With *B. suis* Cases in Non-Suidae Species



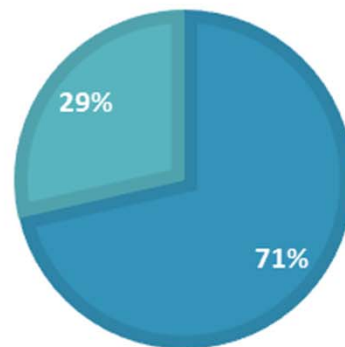
Future use of RB51 vaccine

- To find out each state's requirement for Brucella testing and vaccination in cattle and domestic bison.
- To find out each state's standards for a legible tattoo.
- To find out each state's willingness to make changes to current Brucella testing and vaccination requirements.
- To find out each state's process to change current Brucella testing and vaccination requirements.

Future use of RB51 vaccine

BRUCELLA VACCINATION OR TEST REQUIREMENT WITHIN THE STATE

■ No Requirement ■ Test or Vaccination Requirement



Working Group Recommendations

Administration of Brucellosis Vaccine and Interstate Movement of Vaccinated Animals:

1. Vaccination with RB51 should be continued in areas where exposure to *B. abortus* infected-wildlife is a documented risk and discontinued elsewhere.
2. States without a documented exposure risk to *B. abortus* should rescind requirements that may be based on brucellosis vaccination status, or documentation of vaccination status of U.S. origin cattle and domestic bison.
3. Brucellosis vaccination requirements should not be kept in place solely for traceability needs.
4. USDA APHIS is encouraged to revise the definition of official brucellosis vaccinate with RB51 vaccine to remove the requirement for a legible tattoo.

Working Group Recommendations

Need for Continuing Efforts:

1. Research is needed to develop an effective brucellosis vaccine for both domestic and wildlife species and improved diagnostic tests for *Brucella* species.
2. Remove *Brucella abortus* from the select agent list to enable needed research.



Thank you!

RB51:

**Jim Logan, Tony Frazier, Robert Cobb, Randy Berrier,
Kent Fowler, Bill Barton, Marty Zaluski**

B. suis:

Susan Rollo, Rod Hall, Diane Kitchen

Students:

Kendra Doctor, Helen Jones