

Reproductive Diseases and Pregnancy Losses: Occurrence, Prevention and Management of Diseases



Dan Grooms DVM, PhD

Michigan State University

College of Veterinary Medicine

Department of Large Animal Clinical Sciences

Today's Objective



- ◆ Overview of microbial causes of bovine reproductive losses
- ◆ Focus on BVDV as a model
 - The disease
 - Control and Prevention

Microbial Causes of Bovine Fetal Loss in US

◆ Viruses

- BVDV
- IBR

◆ Bacteria

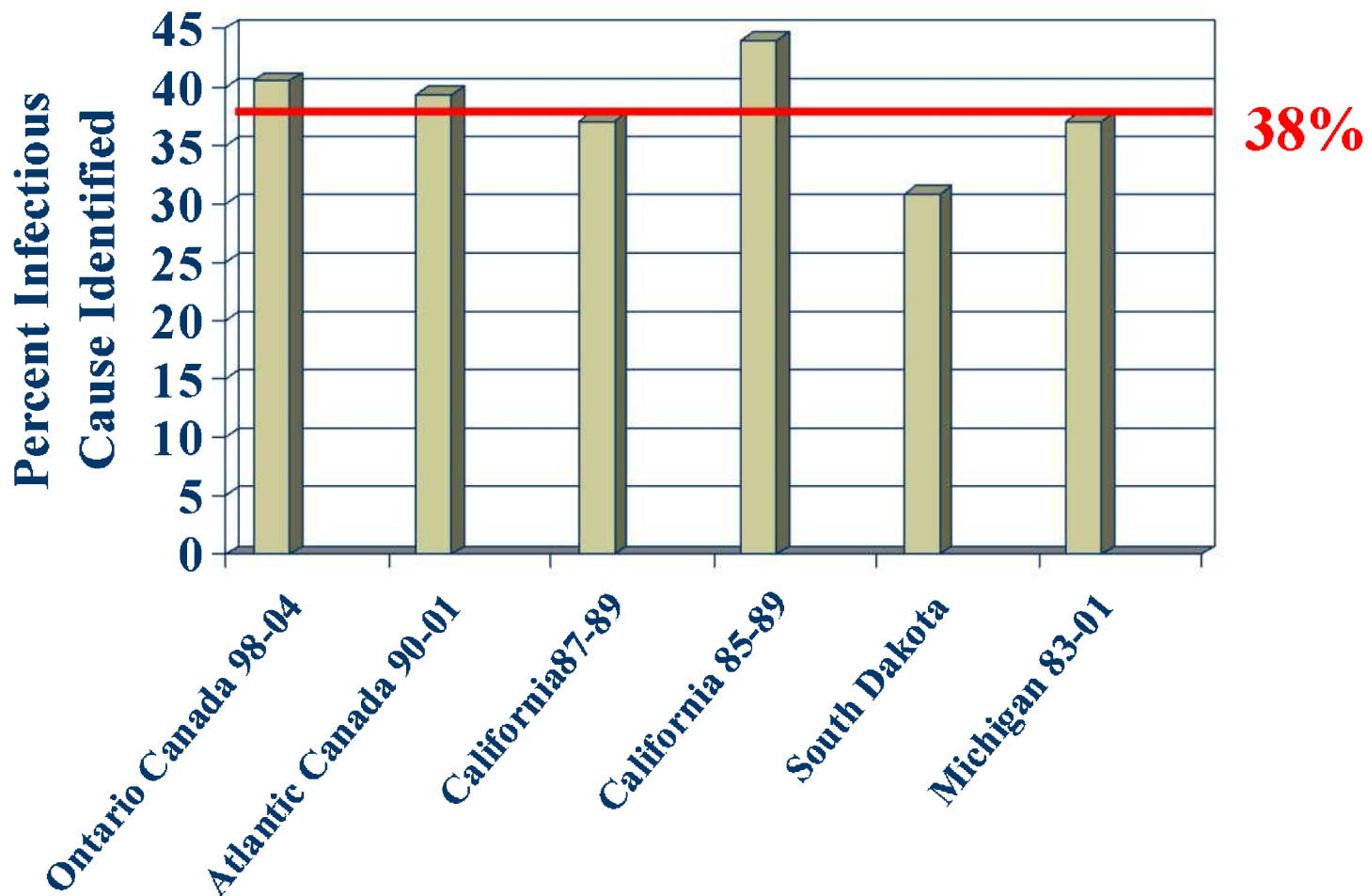
- Leptospirosis spp.
- Listeria
- *A. pyogenes*
- *C. fetus*
- *Salmonella* spp.
- Coliforms
- Brucellosis

◆ Other

- ◆ Neospora
- ◆ Tritrichomonas
- ◆ Mycotic



Microbial Causes of Abortion



Michigan Diagnostic Lab Submissions

- ◆ Yamini et al Michigan State University
 - Bovine Practitioner 2004:38(1):59
- ◆ 1618 abortions form 1983-2001
- ◆ Infectious cause identified in 37 % of cases
 - Non infectious found in 9 %
 - No cause found in 54 %



Bacterial Causes of Fetal Loss

