



John Snow

- ◆ London
- ◆ Cholera
- ◆ Broad Street Pump
- ◆ "Remove the pump handle"

Summary

- ◆ Snow-ball
- ◆ PCR-DGGE
- ◆ Should *M. bovis* be on OIE list?
- ◆ North American manifestation seems different than European; however, CBPP and *M. bovis* appear very similar
- ◆ *M. bovis* spread from lung to udder, not udder to udder

- ◆ Polyarthritis uncommon in western dairy industry
- ◆ *M. bovis* manifested in older animals but initiated at calf-hood stage
- ◆ Is *M. bovis* a primary pathogen or merely the "last one standing?"
- ◆ Is *M. bovis* a 'complicator' or an 'initiator'?
- ◆ What proportion of the cases that recover from respiratory disease can be attributed to *M. bovis*?

- ◆ No association between BVD and caseonecrotic *M. bovis* pneumonia
- ◆ Is there an association between nasal and lung isolates?
- ◆ MIC values are more a metric of AB resistance than sensitivities
- ◆ The “tool box” is expanding!
- ◆ Virulence factors are known, lots of strains available but lack resources to continue research
- ◆ Millions of combinations of VSPs

- ◆ Different models, but do they mimic the natural infection?
- ◆ Debate on whether subunit vaccines will work
- ◆ Agreement that vaccines are the way forward
- ◆ Need to be concerned with CBPP in NA: eradication +/-
- ◆ Progress is being made

- ◆ What next?

Communication

- ◆ Exchange ideas
- ◆ Exchange data
- ◆ Exchange reagents
- ◆ Exchange students
- ◆ Organize for future meetings (OIM)
- ◆ Funding
- ◆ Position statements