



• Mastitis

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Bulk Tank Culture

- Screen herds for contagious pathogens:
 - *Streptococcus agalactiae*
 - *Staphylococcus aureus*
 - *Mycoplasma*

Situations..

- Initial screen for presence of pathogen
- String samples to isolate an infected group in large herds
- During an eradication protocol to ensure the clean group remains clean
- Continuous monitor following eradication

How accurate is screening ?

- Godkin & Leslie (1990) reported BTA only correctly identified *S.aureus* in 9.2 % of infected herds and *Strep ag* in 20.5 % of infected herds
- Not good !!!

Predictive Value

- 1841 herd surveys 1992 – 1996 in NYS, 96 % cows individually cultured
- Positive bulk cultures are highly predictive that infected cows are present

	<u>Sensitivity</u>	<u>PV+</u>
<i>S. agalactiae</i>	77	98
<i>S.aureus</i>	58	97
<i>Mycoplasma</i>	33	80

Wilson & Gonzales (1997)