

Treatment of Clinical Mastitis Protocols

Mastitis treatment protocols are based on mastitis signs and milk culture results. Examples of treatment algorithms are provided. Treatment based on culture requires on-farm laboratory programs for effective implementation.

Review Laboratory Manual

Clinical Mastitis

Definition:

Score 1: Mild (signs; milk)

- abnormal milk

Score 2: Moderate (signs; milk & gland)

- abnormal milk
- swelling, pain

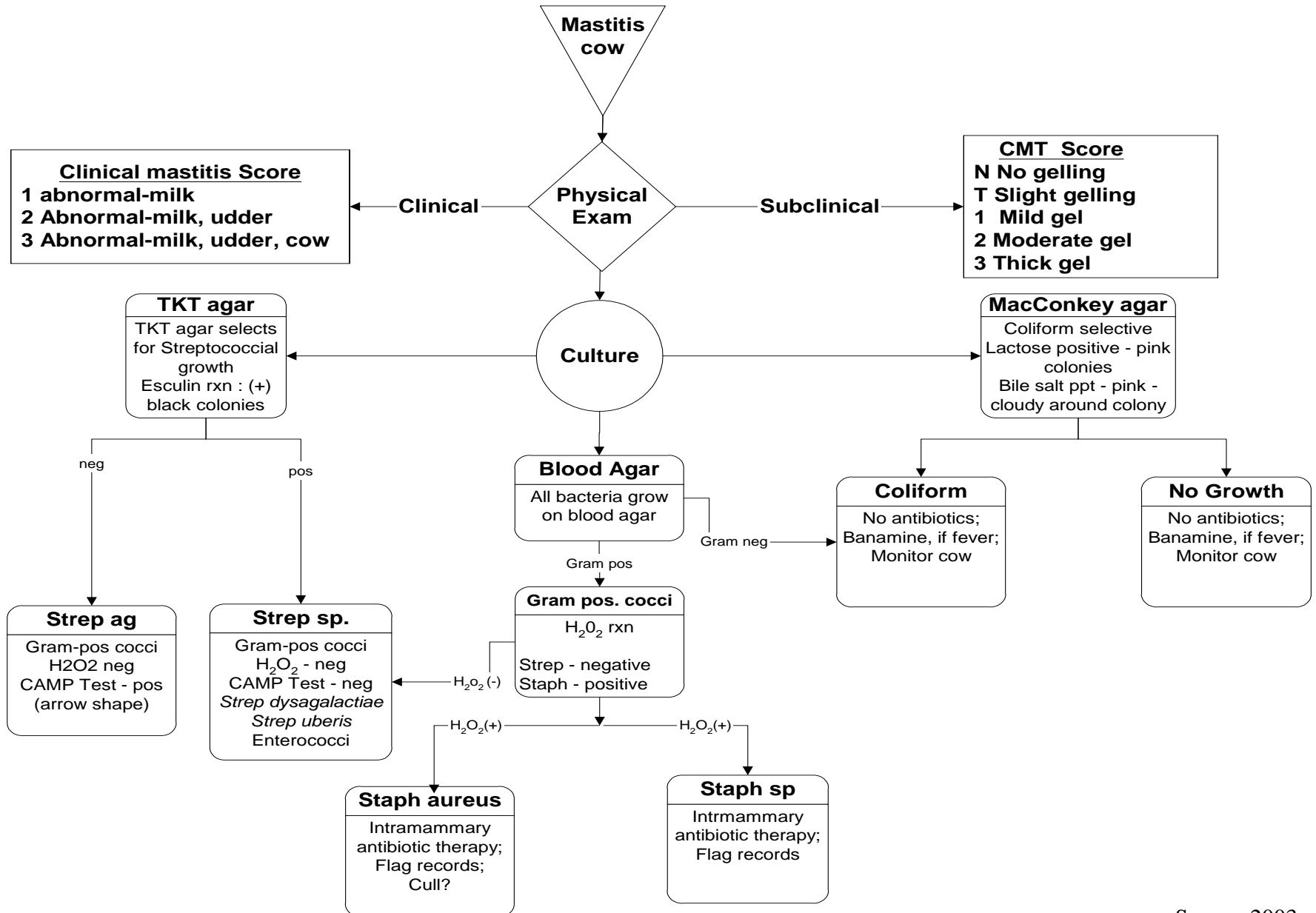
Score 3: Severe (signs; milk, gland & cow)

- abnormal milk
- swelling, pain
- systemic: fever, dehydration & shock

Treatment Guidelines AABP

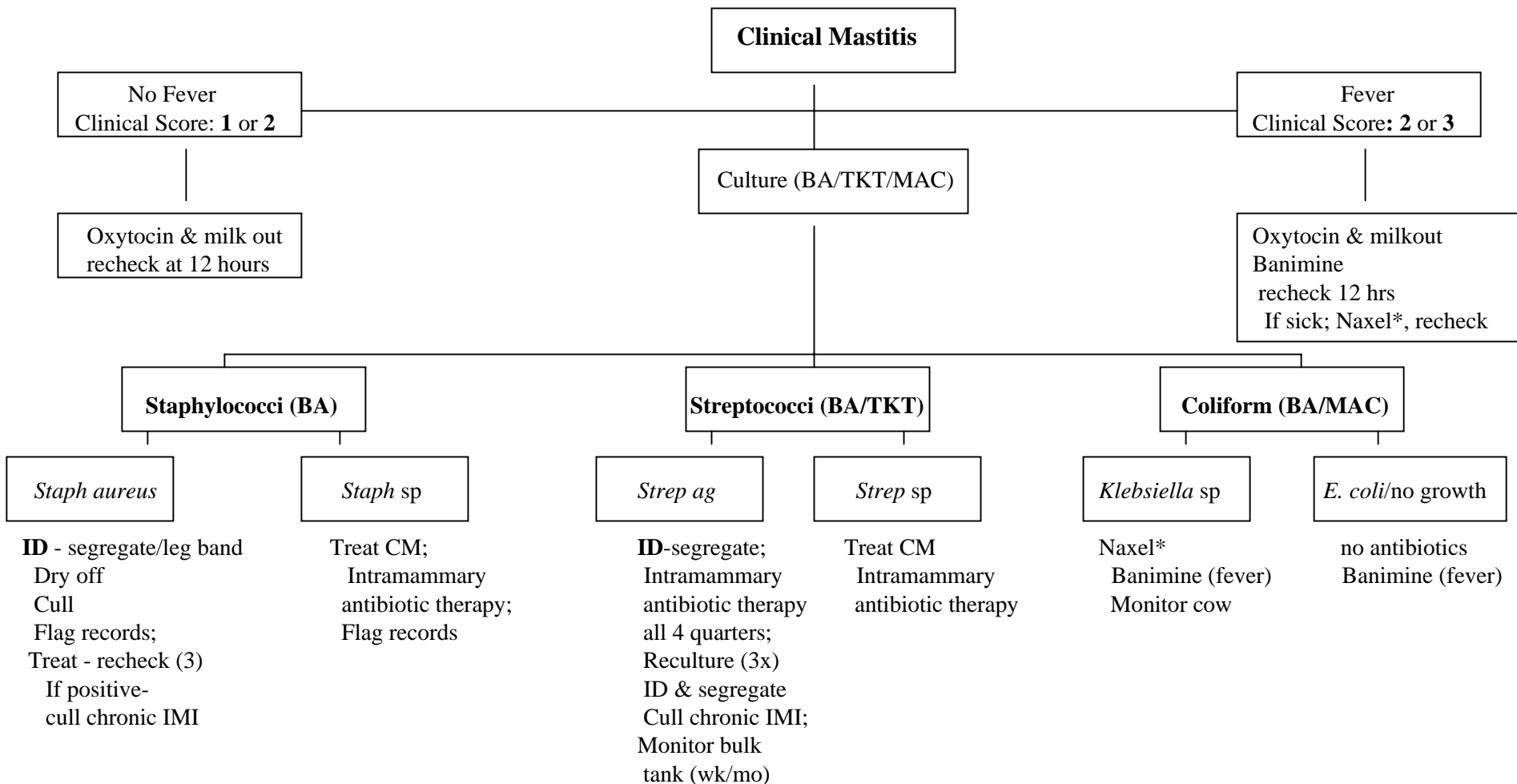
Severity	Symptoms	Treatment Plan (general)
Mild (Score 1)	Abnormal milk	Oxytocin & milk out No antibiotics, unless no response in 2-3days
Moderate (Score 2)	Abnormal milk swollen quarter pain, no fever	Oxytocin & milk out Antibiotic IMM and/or systemic (chronic case non-responsive)
Severe (Score 3)	Temp >102 ⁰ pain, swelling	Oxytocin & milk out Antibiotic IMM and/or systemic Anti-inflammatory drugs (Rx)
Toxic (Score 3)	Severely ill depressed, off-feed dehydration	Systemic antibiotics Anti-inflammatory drugs (Rx) Fluids (intravenous or oral) Contact veterinarian

Clinical Mastitis Pathogen Isolation



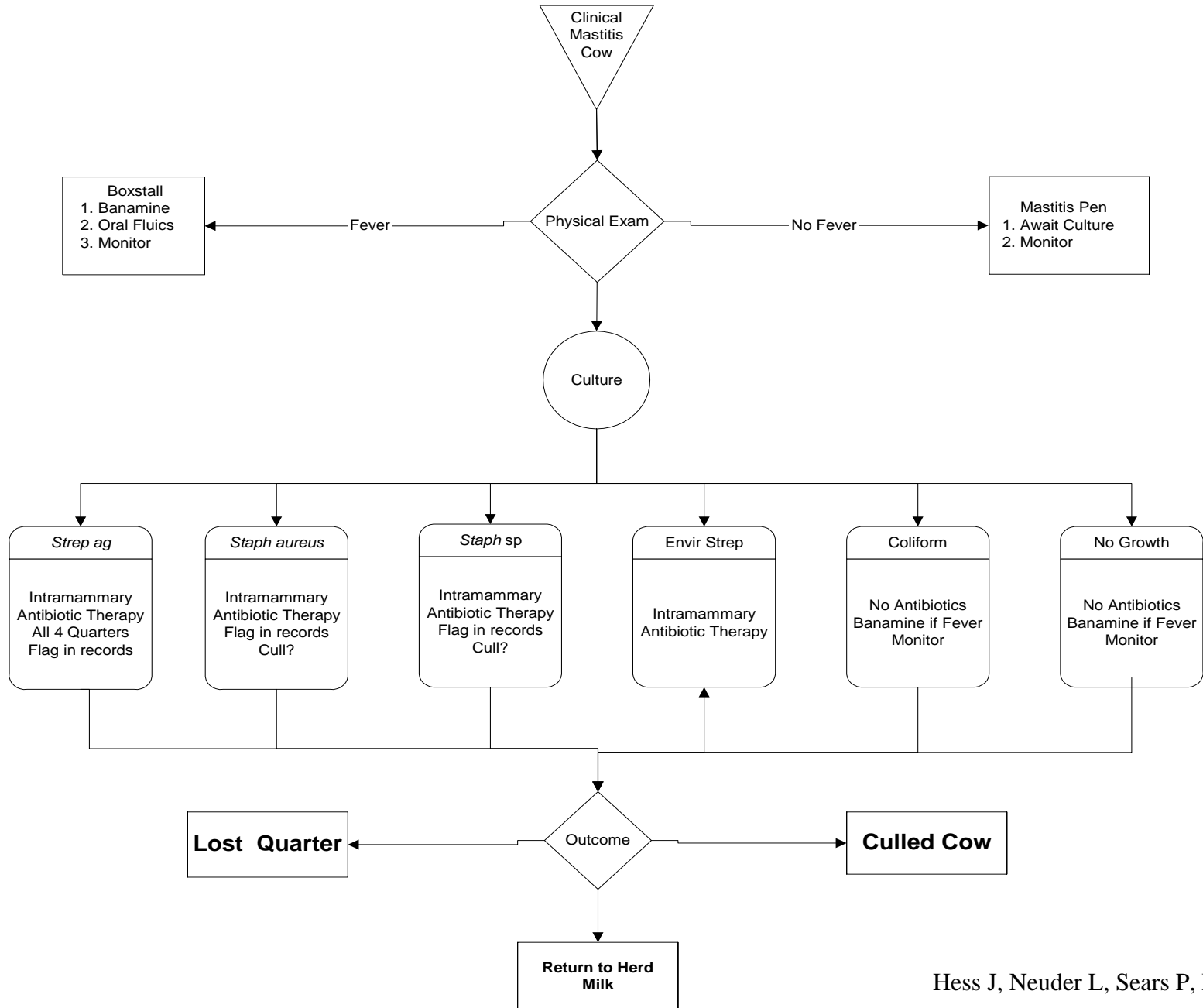
Clinical Mastitis Decisions

Clinical Mastitis Score
1 abnormal milk
2 abnormal milk, quarter
3 abnormal milk, quarter, cow



* Extra-label Use

Clinical Mastitis Treatment Protocol



CLINICAL MASTITIS PROTOCOL

Submit aseptically
collected milk sample

Mild Cases
milk abnormal
udder normal
cow normal

Day 1: no therapy

Day 2: re-evaluate severity;
IMM treatment based on
presumptive culture

Moderate Cases
milk abnormal
udder abnormal
cow normal

Day 1: no therapy, re-evaluate
severity within 6-8 hours

Day 2: re-evaluate severity;
IMM treatment based on
presumptive culture

Severe Cases
milk abnormal
udder abnormal
cow abnormal

Day 1: fluids, systemic
antibiotics, anti-inflammatory,
calcium as needed

Day 2: re-evaluate severity;
continue treatment as needed;
IMM treatment based on
presumptive culture

Culture

No Growth

Mild E. coli

Yeast or
Mycoplasma

*Streptococcus
agalactiae*

other
Streptococci

*Staphylococcus
aureus*

Severe E. coli

Klebsiella sp

Other
Gram-negative

No intramammary
treatment

Approved intramammary antibiotic
therapy

Approved intramammary therapy
unlikely to be effective; consider
systemic or extra-label antibiotic
therapy

Treatment Protocol for Staphylococcal Mastitis

