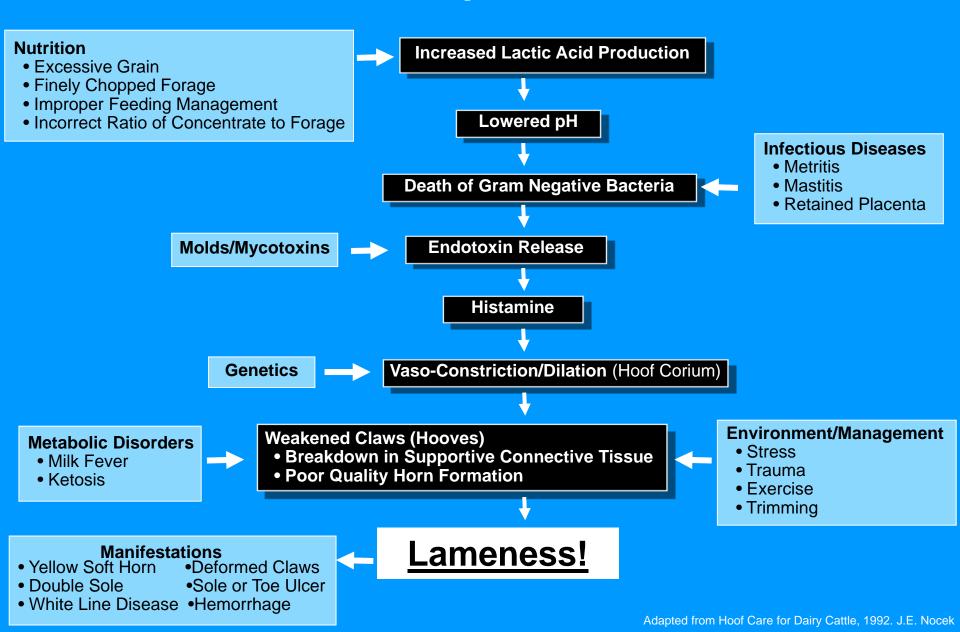
Lameness: Causes and Sequence of Events



Lameness prevalence as a function of housing type and stall surface

•30 herds - 14 stanchion/tie-stall, 16 free-stall

•Herds averaged 67 (tie-stall) and 175 (free-stall) cows

 Cows were lameness scored in summer and winter 1 = normal2 =slight lameness

3 = moderate lameness 4 = severe lameness

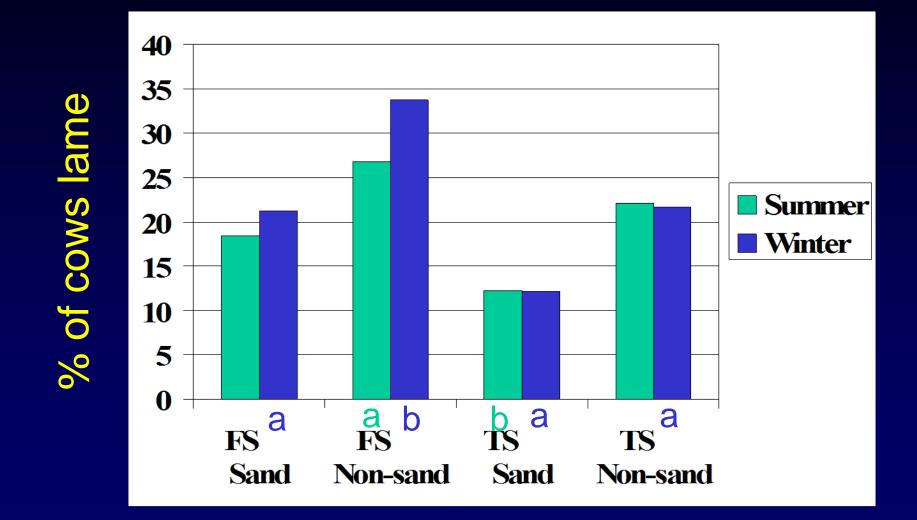
>3,600 cows evaluated

•Stall base Sand Non-sand

> (rubber mat, rubber filled mattress, concrete with added straw, shavings, etc.)

Cook, JAVMA 2003:1324

Interaction between locomotion score & stall base and its effect on time standing up in stall



Effect of free stall surface on daily activity patterns in dairy cows

Twelve herds

6 sand based

6 mattress filled with rubber crumbs, organic bedding on cover

Video cameras, 1 sec per 30 sec 10 cows per herd (60 sand, 60 mattress) Lameness scored

Effect of free stall surface on daily activity patterns in dairy cows

Herd parameters

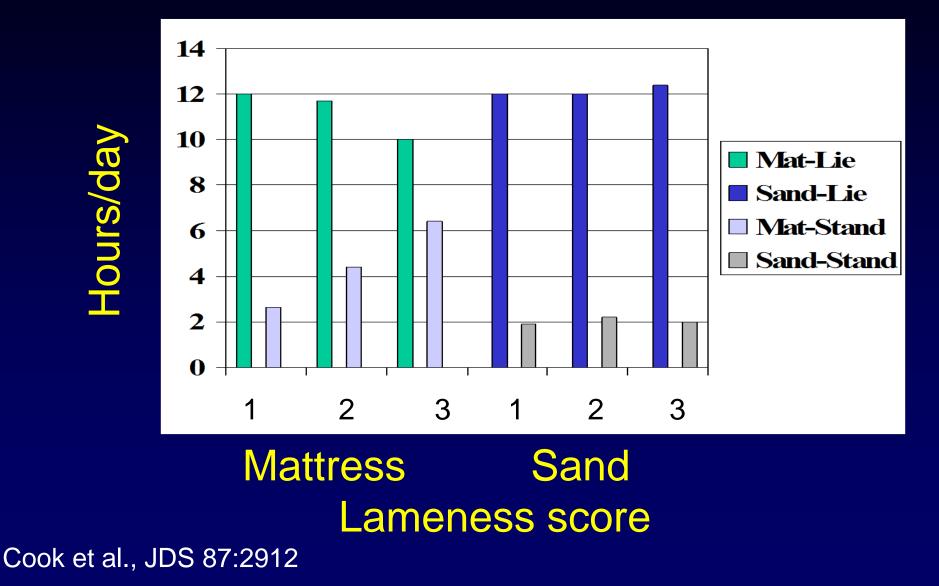
	<u>Mattress</u>	<u>Sand</u>	<u>P</u>
Herd size, #	305	298	
Cows in pen, #	77	96	.12
Stocking rate	108	108	
RHA, Ibs.	24,800	26,728	
Annual turnover rate	36.5%	28.8%	.09
Herd prevalence of clinical lameness	24.0%	11.1%	<.001

Effect of free stall surface on daily activity patterns in dairy cows

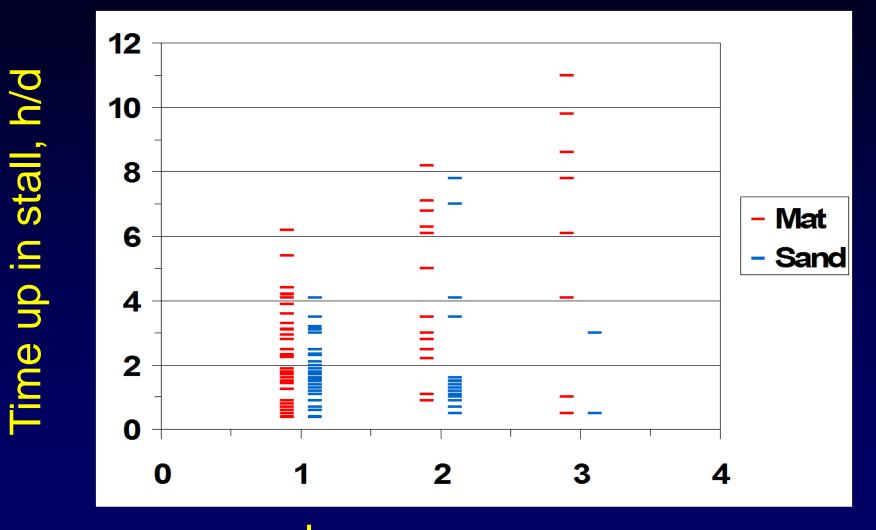
Daily activity, h/d

	<u>Mattress</u>	<u>Sand</u>	<u>P</u>
Time lying in stall	11.7	12.0	
Time standing in stall	3.4	1.8	.002
Time up in alley	2.3	2.3	
—			~~
Time up feeding	4.1	4.6	.03
Time up milking	2.6	3.2	

Interaction between locomotion score & stall base and its effect on time standing up in stall

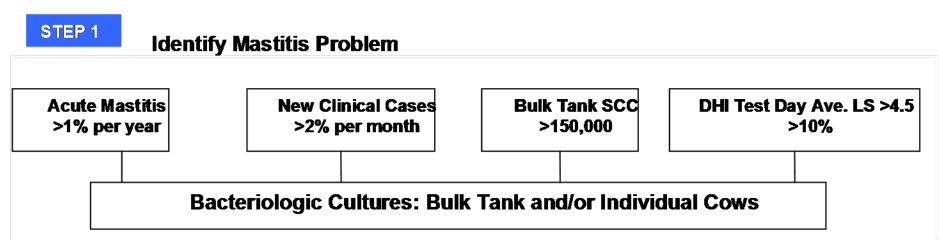


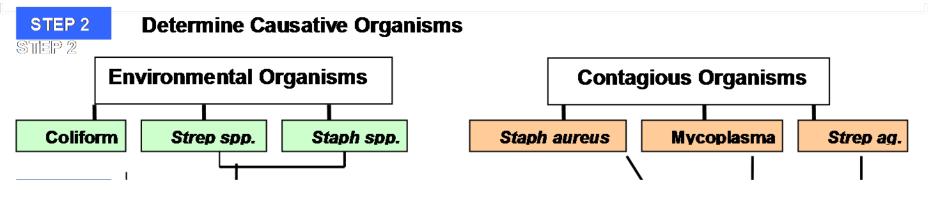
Interaction between locomotion score & stall base and its effect on time standing up in stall



Cook et al., JDS 87:2912 Lameness score

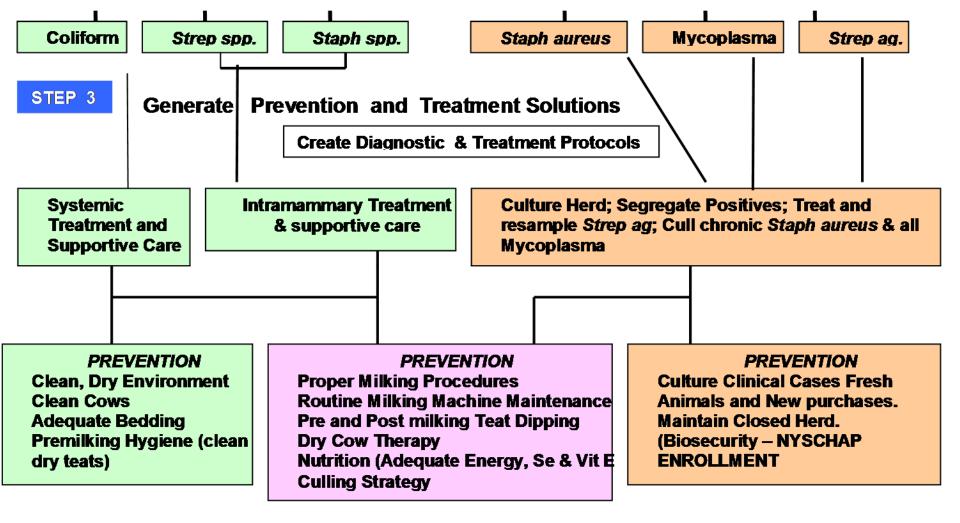
Mastitis Problem Solving Scheme















	Generate Strategic Plan - Establish Herd Goals	
TEP 5	Generate Tactical Plan	
	Operational Tactical Plan – Standard Operating Procedu	ures
	Management Tactical Plan - Employee Training & Evalu - Effective Records System	
STEP 6	Monitor Performance, Reassess Goals, and Tactical Pla	ns







The New York State Cattle Health Assurance Program

Mastitis

Background and Best Management Practices

