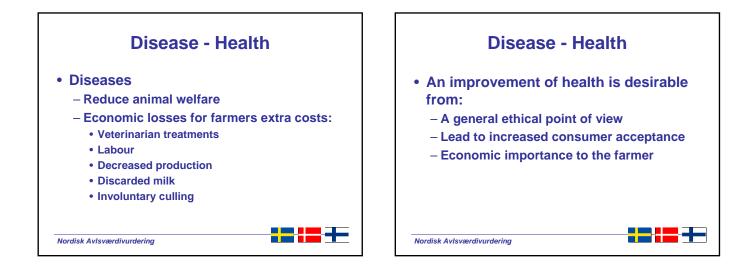


Use of health data in genetic evaluation and breeding

- 1. Introduction
- 2. Data collection
- 3. Genetic evaluation for health traits

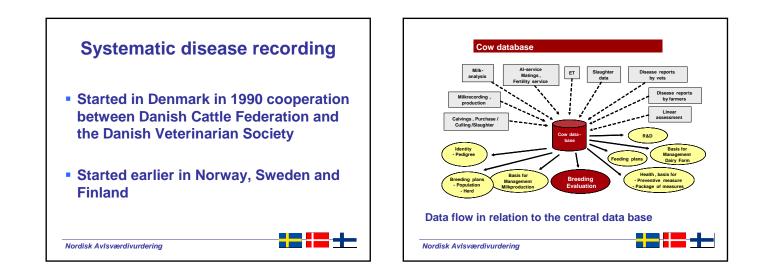
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- 4. Health traits in the breeding goal
- 5. Final remarks and conclusion



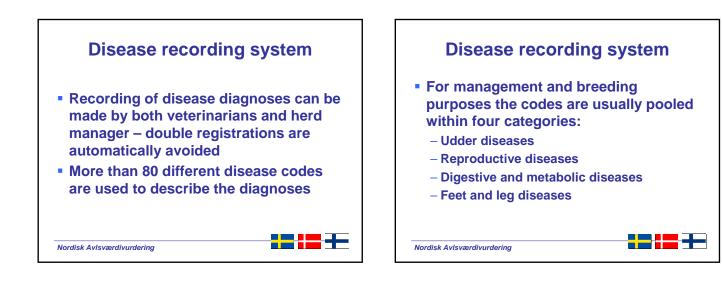




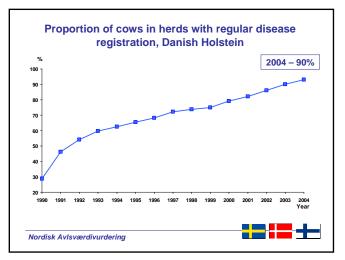




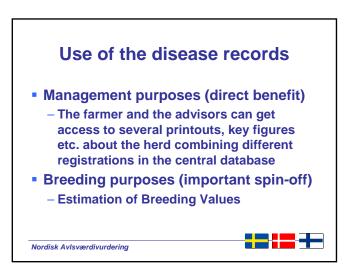










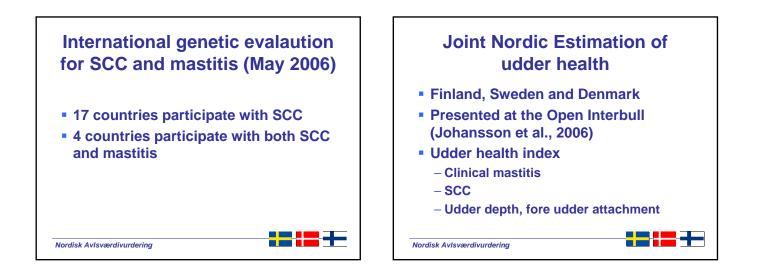




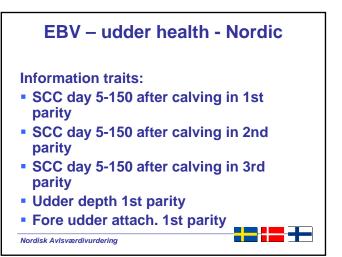
Parity	Red Breeds		
	DNK	SWE	FIN
1st day -15-50	13.8	5.8	6.8
1st day 51-305	8.5	4.5	5.1
2nd day -15-150	19.0	9.5	11.1
3rd day -15-150	25.6	12.9	14.4

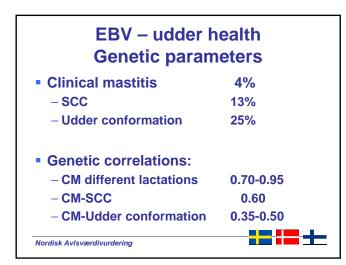
Parity	Holstein		
	DNK	SWE	FIN
1st day -15-50	13.5	7.2	8.4
lst day 51-305	10.7	7.2	7.5
2nd day -15-150	21.7	12.9	13.3
Brd day -15-150	25.9	16.6	15.3

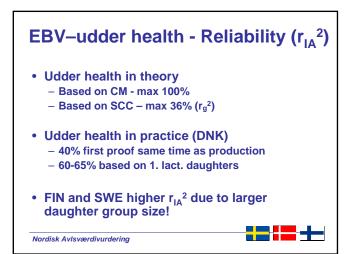
udder health index				
	СМ	SCC	Udder conformation	
Outside Scand.		x	(X)	
Norway	x			
Sweden	x	x		
Finland	x	x		
Denmark	x	x	x	

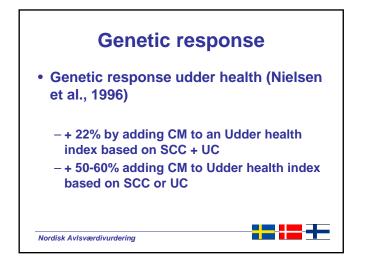


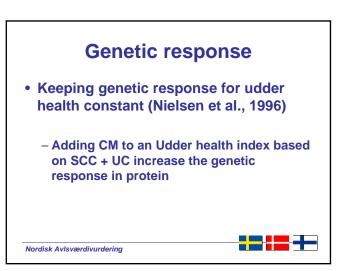


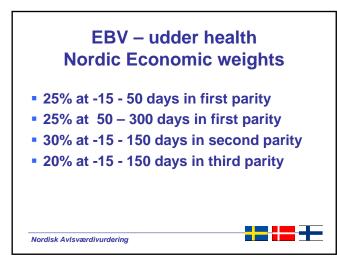




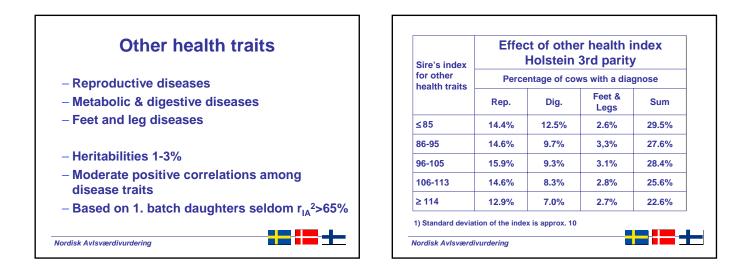








	Percentage of cows with mastitis		
Sire's index for udder health	1st parity	3rd parity	
≤85	21.7%	28.9%	
86-95	18.3%	26.0%	
96-105	15.3%	23.8%	
106-113	13.9%	21.0%	
≥ 114	10.7%	17.0%	





 A substantial weight has to be given to health to balance the unfavorable correlation with production

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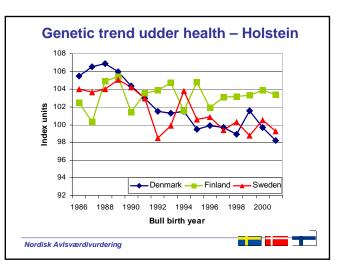
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Nordisk Avlsværdivurdering

Correlation \	with	TMI –	Holstein
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	Denmark	Sweden	Finland
Yield	0.67	0.45	0.74
Fertility	0.18	0.40	-0.03
Mastitis	0.35	0.43	0.18
Other disease	0.37	0.24	-

	Denmark	Sweden	Finland
Yield	0.73	0.56	0.72
Fertility	0.15	0.20	0.03
Mastitis	0.44	0.34	0.19
Other disease	0.32	0.19	



6

