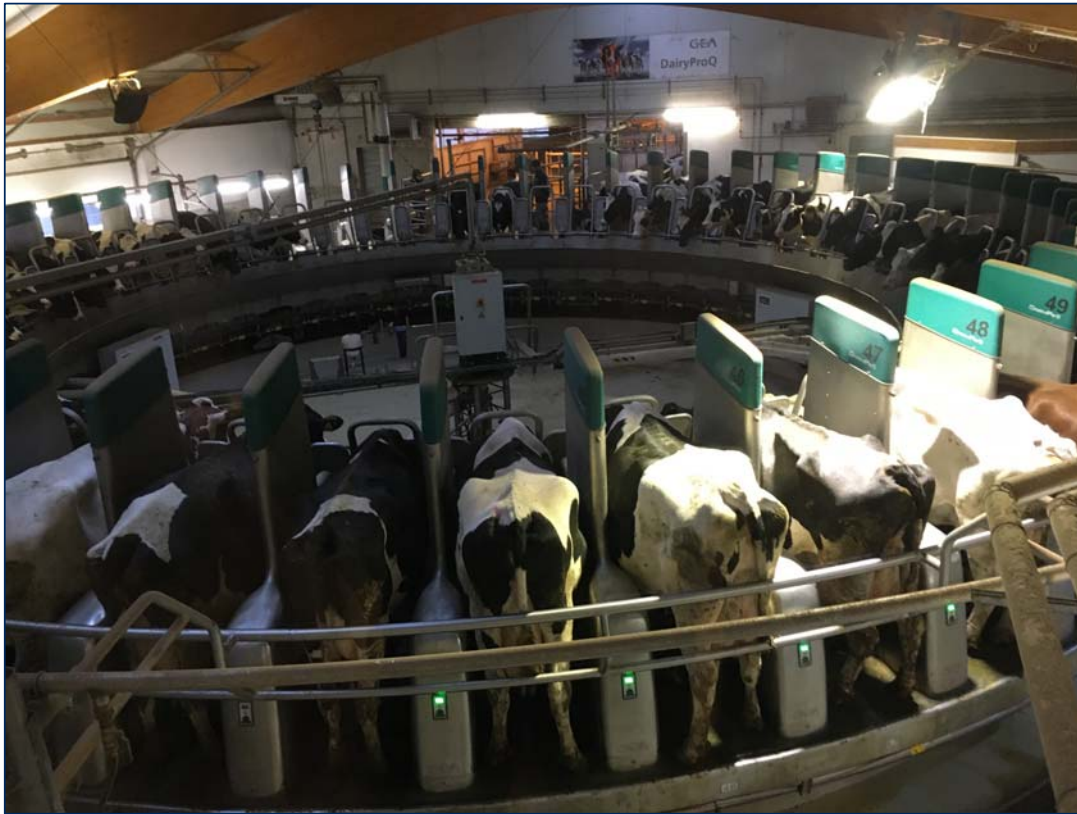


PRACTICAL EXPERIENCE FROM THE IMPLEMENTATION OF A NEW UDDER HEALTH MONITORING SERVICE THROUGH REGULAR DHI TESTING

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02 JUNE 2022

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EPJ, ESTONIA

Key figures:

- 80,000 dairy cows in 400 herds (200 cows/farm)
- 96.3% of dairy farms are using DHI services
- Average annual production:
 - 10,484 kg milk
 - 394 kg fat
 - 345 kg protein



QNETICS, GERMANY



Key figures:

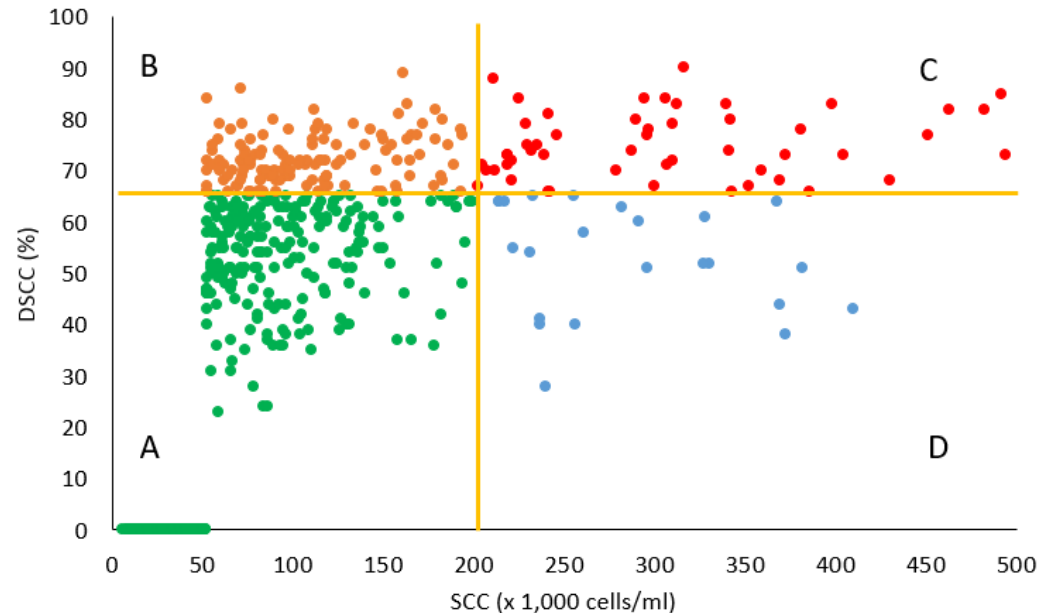
- 94,548 dairy cows in 282 herds (335 cows/farm)
- 98.2% of dairy farms are using DHI services
- Average annual production:
 - 9,978 kg milk
 - 404 kg fat
 - 345 kg protein



COMBINATION OF SCC AND DSCC TEST DAY RESULTS

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- Regularly available DHI samples
- Udder Health Group concept:
 - A – healthy: SCC <200,000 cells/ml and DSCC ≤65%,
 - B – onset of mastitis: SCC <200,000 cells/ml and DSCC >65%
 - C – mastitis: SCC >200,000 cells/ml and DSCC >65%
 - D – chronic mastitis: SCC >200,000 cells/ml and DSCC ≤65%

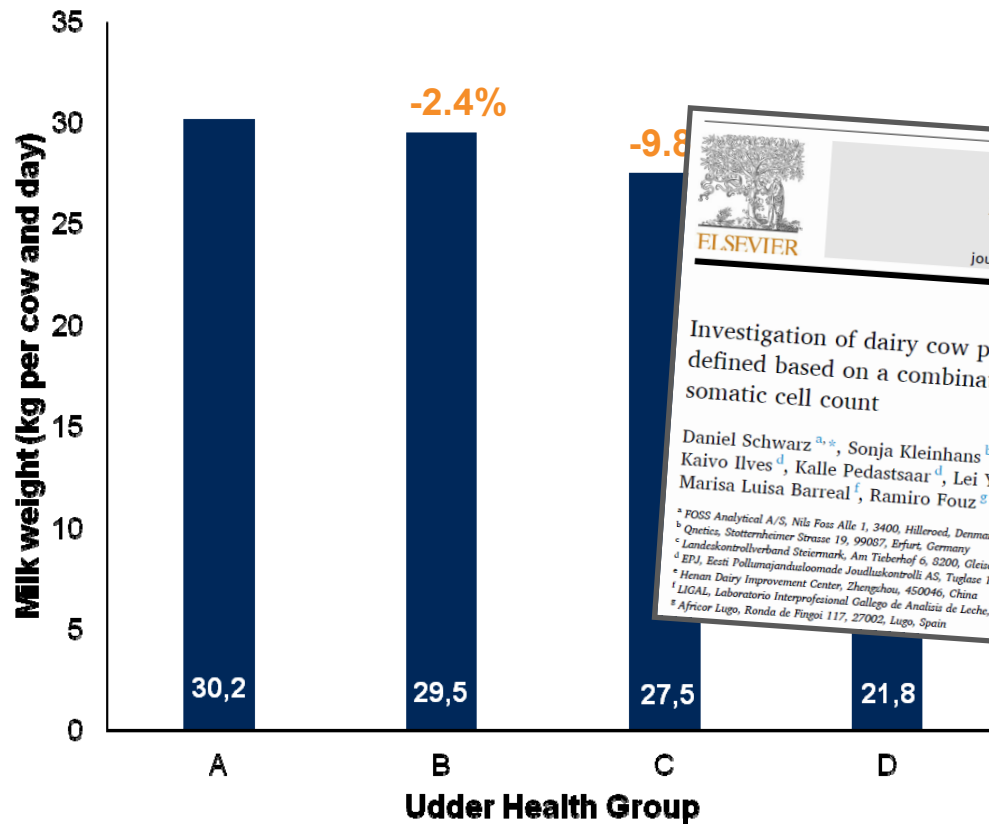


CREATING INTEREST IN THE MARKET

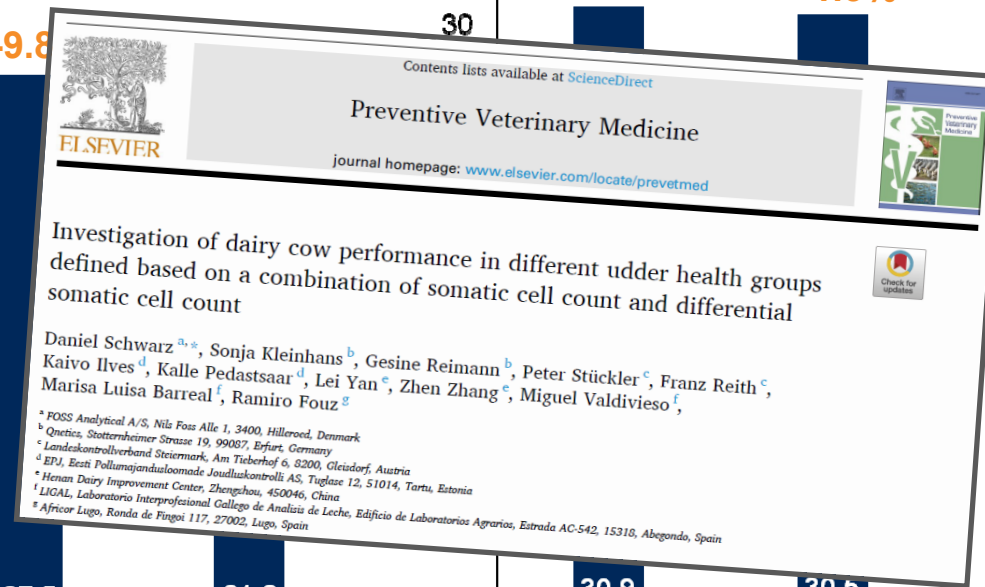
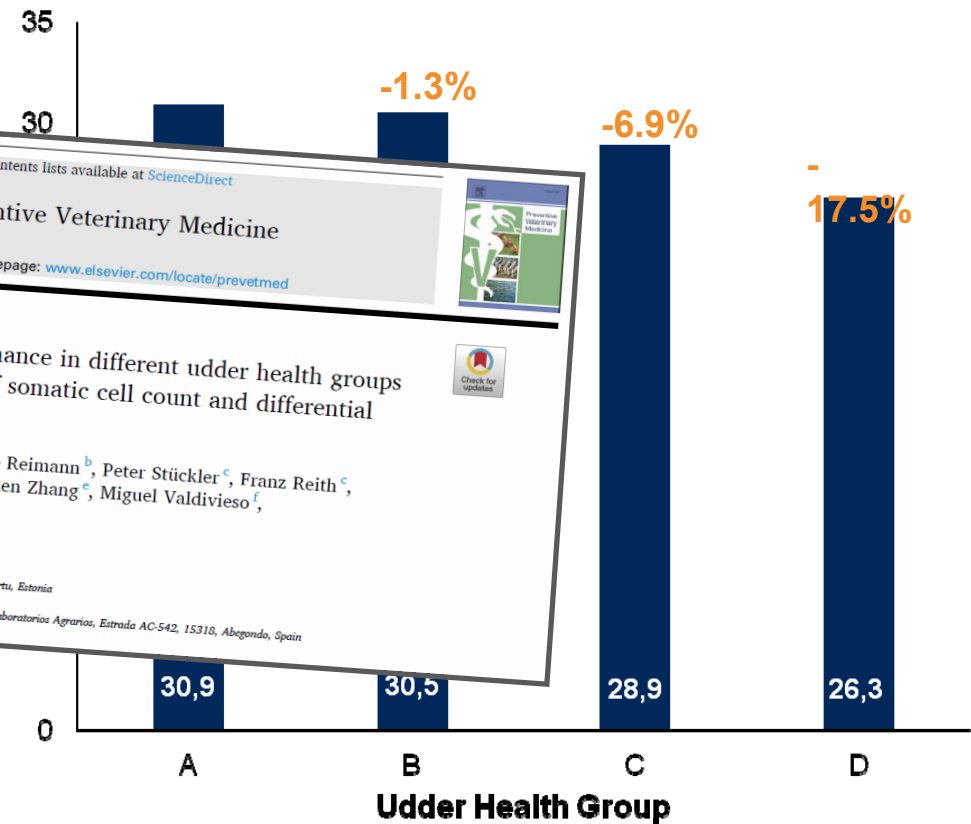
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ANALYTICS BEYOND MEASURE

Estonia



Germany

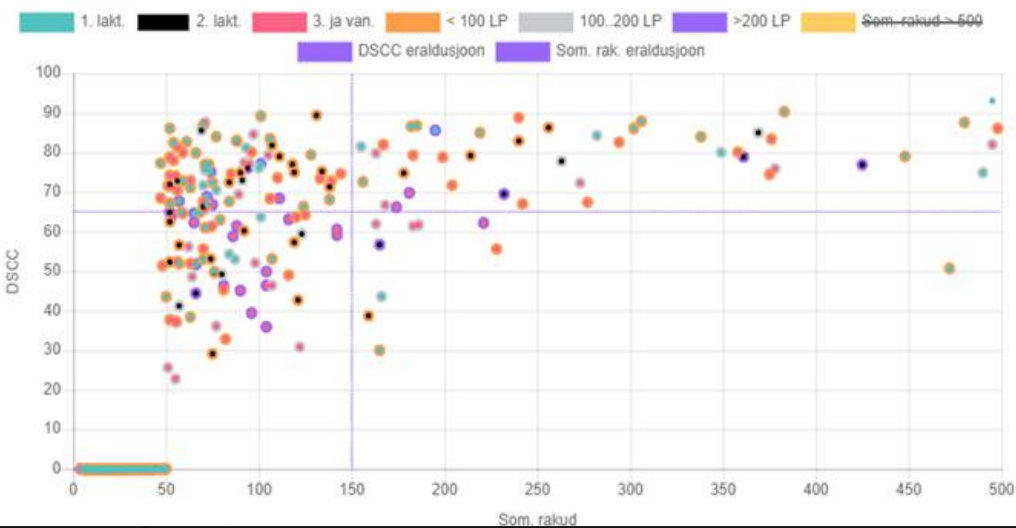


<https://doi.org/10.1016/j.prevetmed.2020.105123>

NEW UDDER HEALTH REPORT

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Näita graafiliselt

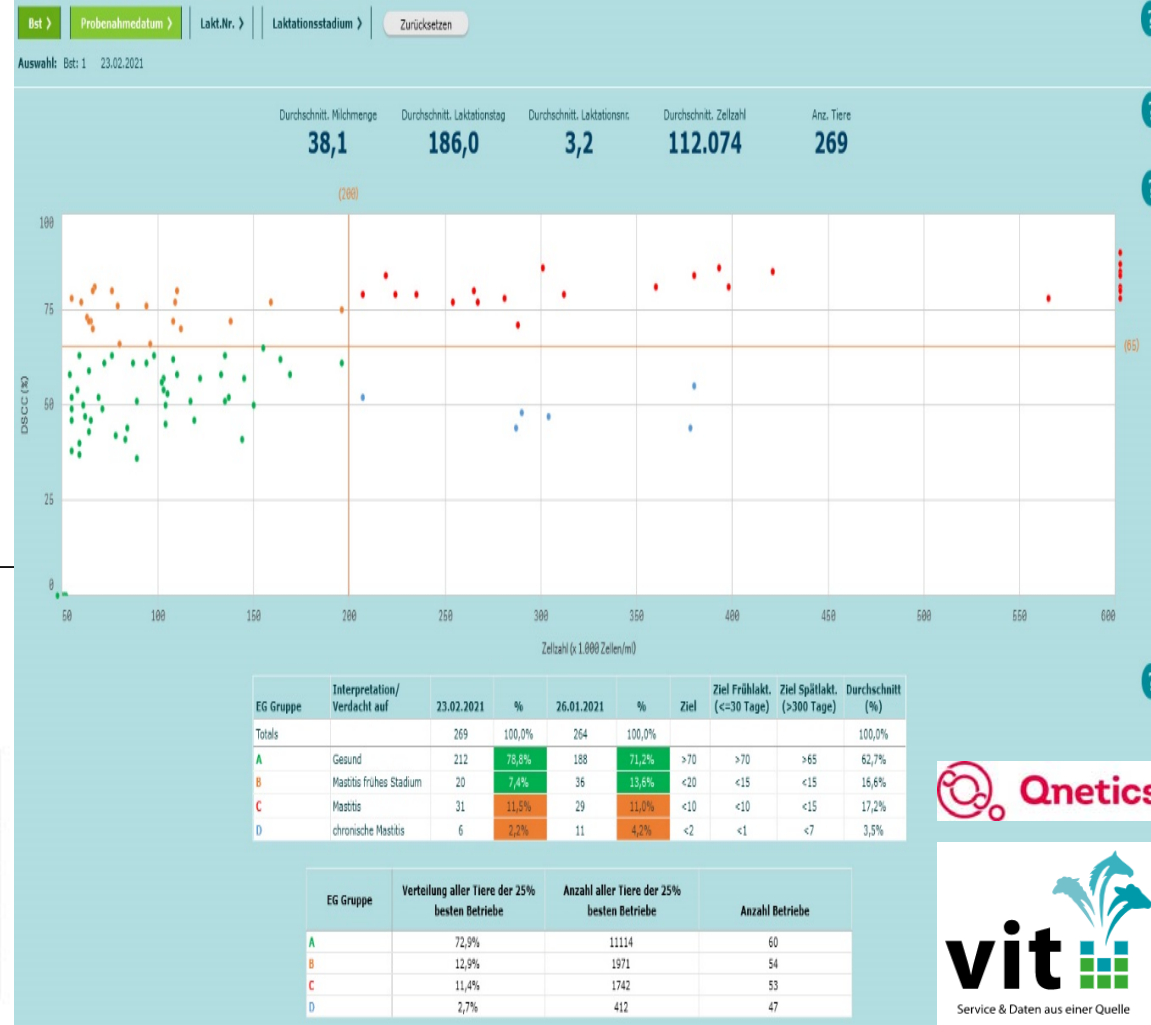


Gr.: Kõik
Kuu: Jaanuar
Täida

Eesti
Põllumajandusloomade
Jõudluskontroll

Diferentseeritud somaatiliste rakkude aruanne

UT grupp	Jaanuar		Eelmise kuu		Eesmärk	3 kuu keskmine		Jaanuar piima keskmiselt
	arv	%	arv	%		arv	%	
A Tervet	516	70,6	506	72,5	>70%	1022	71,5	36
B Haiguseelne seisund	96	13,1	83	11,9	<20%	179	12,5	34
C Udarapõletik	89	12,2	67	9,6	<10%	156	10,9	36
D Krooniline udarapõletik	30	4,1	42	6	<2%	72	5	22
Kokku	731		698			1429		

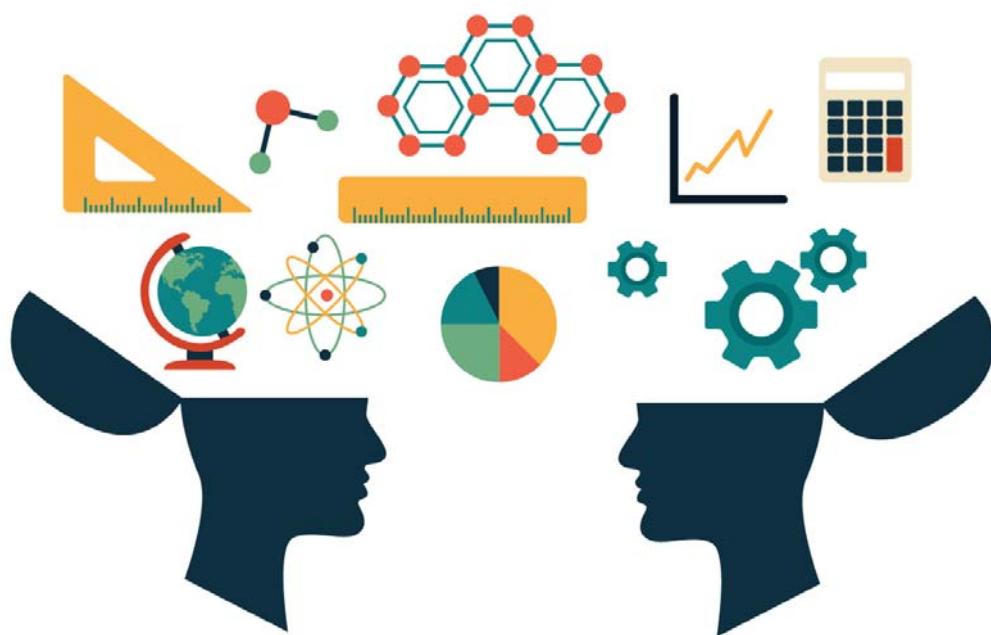


Qnetics

vit
Service & Daten aus einer Quelle

KNOWLEDGE TRANSFER

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- Pilot phase
- Promotion of tool at seminars, annual meetings, exhibitions, agricultural magazines
- Presentation of examples

REAL-LIFE EXAMPLE (HERD WITH 400 LACTATING COWS)

February

UHG	% of herd
A	61.7
B	19.6
C	15.5
D	3.2

Item	% of herd
Milk weight (kg/d)	29.96
Fat (%)	4.34
Protein (%)	3.59
ECM	31.51

March

UHG	% of herd
A	68.3
B	16.8
C	12.1
D	2.8

Item	% of herd
Milk weight (kg/d)	30.97
Fat (%)	4.39
Protein (%)	3.67
ECM	32.99

+4%

Revenue	€
Per cow and day	0.63
Per herd and day	252
Per herd and month	7,560

CHECKLIST – FOCUS AREAS



ANALYTICS BEYOND MEASURE

Herd level:

- Cubicle management
- Milking hygiene
- Feeding hygiene

Individual cow level

- Better monitoring of udder health in fresh lactating cows
- Earlier detection of mastitis
- Selective dry cow therapy



PERSPECTIVE OF VETERINARIANS

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ANALYTICS BEYOND MEASURE

7.1.2019

EN

Official Journal of the European Union

L 4/43

REGULATION (EU) 2019/6 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

of 11 December 2018

on veterinary medicinal products and repealing Directive 2001/82/EC

(Text with EEA relevance)

THE EUROPEAN PARLIAMENT AND THE COUNCIL OF THE EUROPEAN UNION,

- (48) The prudent use of antimicrobials is a cornerstone in addressing antimicrobial resistance. All the stakeholders concerned should together promote prudent use of antimicrobials. It is therefore important that guidance on the prudent use of antimicrobials in veterinary medicine be taken into account and further elaborated. The identification of risk factors and the development of criteria for the initiation of administration of antimicrobials, as well as the identification of alternative measures, could help in avoiding the unnecessary use of antimicrobial medicinal

→ Prevention of diseases is key – proactive vs. reactive

REGULATION (EU) 2016/429 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

of 9 March 2016

on transmissible animal diseases and amending and repealing certain acts in the area of animal health ('Animal Health Law')

(Text with EEA relevance)

FARM COMPARISON BASED ON NEW UDDER HEALTH REPORT

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ANALYTICS BEYOND MEASURE

	Percentage of cows in UHG A				
	>65 (n = 13)	55-65 (n = 14)	<55 (n = 14)	All herds	p-value
Herd size	252 ^a	367 ^a	263 ^a	295	0.64
Geometric bulk tank SCC over last 3 months, × 1,000 cells/ml	114 ^a	157 ^b	196 ^c	157	0.05
Daily production (kg per day)	31.7 ^a	28.8 ^b	27.5 ^c	29.3	0.05
Number of antibiotic mastitis treatments per month and 100 cows	1.7 ^a	2.3 ^a	3.2 ^b	2.4	0.01

Publication in preparation

SUMMARY

Mastitis is still a huge challenge on dairy farms

New SCC and DSCC-based udder health report helps dairy farms to better manage udder health

Improvements in terms of dairy cow health, welfare, performance, reduced number of antibiotic mastitis treatments already seen – longevity and milk quality expected to improve in long run

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