

UDDER HEALTH MONITORING...

...The Art and the Science

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ABPA, November 2010





OBJECTIVES, CHALLENGES...

OBJECTIVES VARY...



- And my work varies accordingly
 - Not to be penalized...
 - Qualify for 0,50 \$ / hl premium (< 300 SCC)
 - Decrease incidence of mastitis
 - Maintain SCC below 150



CHALLENGES...



- So many variables to control!
- Easy to lose motivation / time
- Vet-Client contact limited
 - Many vets will neglect or periodically neglect
 - Routine, Routine, Routine...





THE DATA

THE DATA...

- Valacta SCC (quasi-essential...)
- Cultures + Petrifilms
- Mastitis events + incidence
- Treatment info.
- Observation
 - Hygiene
 - Teat ends
- Lactocorder graphs







Who to culture...



- Vet school training vs. Real world
 - Systematic at calving?
 - When problems occur?
 - Strategic targeting at every visit.
- Petrifilms
 - Staph Xpress (at CVC not on-farm)
 - In herds where S.aureus segragation is organized.
 - TAC and CC
 - Not yet, eventually, need SOPs to make it worth it





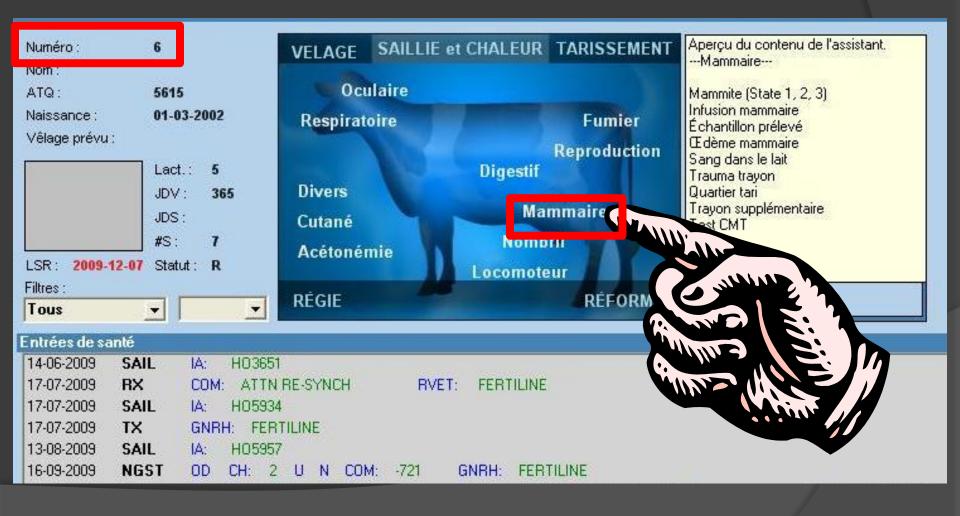




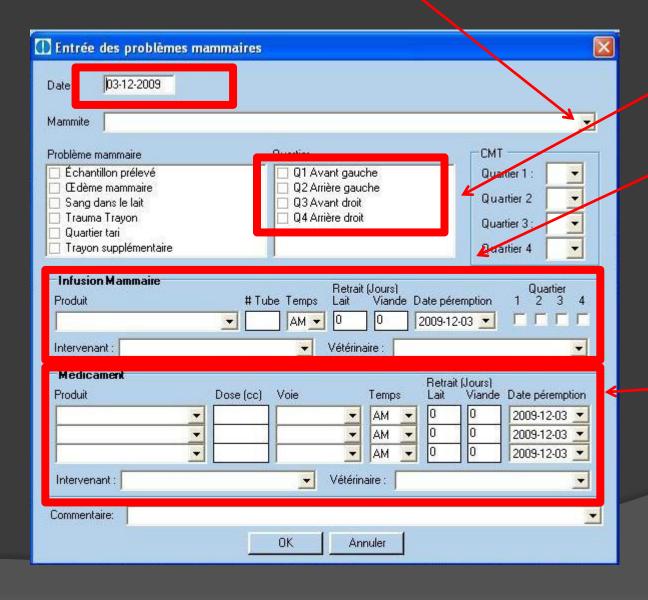
DATA COLLECTION TOOLS

TREATMENT ENTRY...

CQM actually helps us



Type 1, 2 or 3?



Which quarter?

CQM info if Imammary tube

CQM info if systemic Tx



DURING AND BETWEEN HH VISITS...

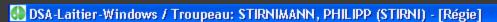


STANDARD APPROACH...



- Beginning of visit
 - 2 minutes discussion SCC graph + paycheck +/- Handshake
 - 2 minute « Bulk-tank contribution list » screening
 - Selection of cows for CMT
- During Repro exams
 - CMTs, cultures, recommendations for...
 - Treatment
 - Milking order
 - Culling





Fichier Entrée Rapport Graphique Outils Analyse Configuration Module mammite Aide

5 Récupérer Ouvrir Sauver

Entrée













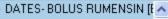


Tous

Régie

\grap\Ccsres.eb

Numéro	Nom	Contrôle	1
111	111-714853	356	ı
116	116-714853	359	
521	521	513	
849	849-T69	522	
851	851-T71	515	
852	852-T72	504	
1474	1474	648	
1482	1482	638	
1487	1487	649	
1493	1493	694	
1501	1501	665	
1581	1581	550	
1613	1613	559	
1627	1627	573	
1674	1674	1002	
1677	1677	1001	
1702	1702	742	
1704	1704	743	•

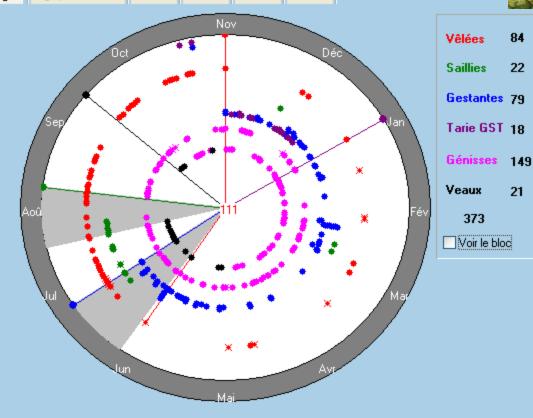


- L2S-1 vs L2S1
 - Distribution du CCS
 - CCS TAR vs CCS VELA
- INVENTAIRE (cescompfinal.PE

Statut microb. vs. % CCS réserv

Vaches à vacciner rota-corena

Production par groupe d'âge et



Intervention list (Top of list)

Focus on critical cows

CMT

 New high contributors of unknowm status

« Tag » cows

Monitor treatment compliance

num	NOM	L#	JEL	SANTE_PIS	PROD	CCS		%RES	TEST
4692		2	184	E.COLI	26.4	9165	241956	22.523	15-09-10
4698		2	116	→	29.6	6139	181714	16.915	15-09-10
3491	3491	3	369		20.8	4579	95243.	8.866	15-09-10
3279	3279	2	211	S.AUREUS	38.2	2344	89540.	8.335	15-09-10
4644		2	123		25	1613	40325	3.754	15-09-10
851	851-T71	6	177	TEAT_TRAUMA	30.8	1233	37976.	3.535	15-09-10
3265	3265	2	354	S.SPP	23.8	1243	29583.	2.754	15-09-10
849	849-T69	7	288	CULT_IF_HI	21.4	1301	27841.	2.592	15-09-10
1402	1482	5	126	S.AUREUS	34.2	790	27018	2.515	15-09-10
4633		1	306		16.2	1638	26535.	2.470	15-09-10
9428		2	212		31.6	435	13746	1.280	15-09-10
5909	5909	4	301	S.BOVIS+S.SP	30	455	13650	1.271	15-09-10
4674		2	299		31.4	346	10864.	1.011	15-09-10
4603		1	304		31.2	264	8236.8	0.767	15-09-10
111	111-71485	8	147	S.AUREUS	33.4	240	8016	0.746	15-09-10
0617	0617	3	116	S.DYSGAL	40.6	177	7186.2	0.669	15-09-10
5898	5898	4	245		34	202	6868	0.639	15-09-10
4624	4624	1	298		25.6	252	6451.2	0.601	15-09-10
0655	0655	3	331		32.2	193	6214.6	0.578	15-09-10
8960		2	265	S.AUREUS	31.2	197	6146.4	0.572	15-09-10
8943	8943	2	361		19.8	279	5524.2	0.514	15-09-10
3495	3495	4	235	S.AUREUS	31.2	173	5397.6	0.502	15-09-10
4613		1	298		26.6	200	5320	0.495	15-09-10
8495	8495	6	335	S.SPP	28.4	178	5055.2	0.471	15-09-10
4631		2	99		40.8	116	4732.8	0.441	15-09-10

Bact. status

% Bulk tank SCC

Intervention list (Top of list)

						•												
Fos	elle op	critics	l cows	nui	n	NOM	L#	JEL	SANTE_	PIS		PROD	CCS		%RES		TEST	
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				469	98		2	116	→			29.6	6139	181714	16.915	5	15-09-	10
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	10000																	
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Gra	as	Prot.																
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	Mars 31.4		Avr. 33.4	Mai		Juin 31.8		Juil			Août 27			Sept.	6.2	(Oct.	
	36		35.4 15			16					26				638			
	50		10			10					20	,			000			
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				890	60		2	265	S.AURE	US		31.2	197	6146.4	0.572		15-09-1	10
				89	43	8943	2	361				19.8	279	5524.2	0.514		15-09-1	10
				349	95	3495	4	235	S.AURE	US		31.2	173	5397.6	0.502		15-09-	10
																_		
				461				298				26.6	200	5320	0.495		15-09-1	

8495

4631

8495

335 S.SPP

99

28.4

40.8

178

116

5055.2

4732.8

0.471

0.441

15-09-10

15-09-10

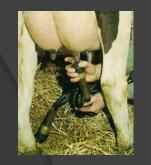
Intervention list (Bottom)

- Culture (Petrifilm)
 - Fresh S.aureus cows that have very low SCCs

During the visit, the CMT's and cultures are the moment I use to evaluate teat ends + hygiene

7886	7886	1	456		17.5	64
23	23	9	131	S.AUREUS	31.2	30
2026	2026	1	53		30.1	29
7786	7786	3	93	S.SPP	34.6	24
7908	7908	1	253		15.6	50
7784	7784	3	259		26	28
7896	7896	1	248		30.5	21
7847	7847	2	336		16.7	38
1990	1990	1	180		25.7	23
1997	1997	1	143		23.1	22
7866	7866	2	52		31.6	15
7876	7876	2	66		35.3	13
7826	7826	3	84	ENVIRO+MALAD	21.6	18
7887	7887	1	463		16	24
2020	2020	1	74		26.4	14
7846	7846	2	141		35.7	10
7890	7890	1	286		20.5	17
7821	7821	2	193		24.6	12
1991	1991	1	52		35	8
7907	7907	1	230		24.6	9
7903	7903	1	265		21.6	9
7914	7914	1	283		15.6	12
7898	7898	1	315		19.3	6

END OF VISIT...

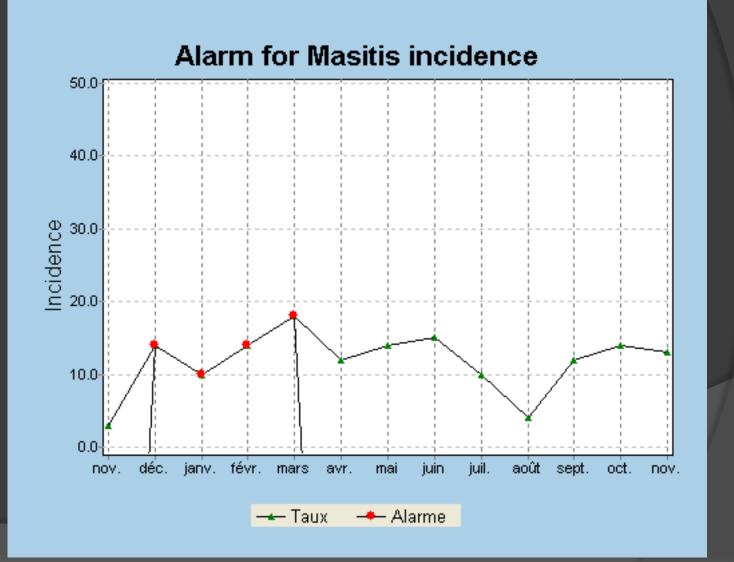


Date	Animal	Information sur le traitement
2010-11-11	7866	CHAL: Basé sur prostaglandine
2010-11-11	2041	VDIV:SCOURGUARD 2E DOSE
2010-11-11	2080	IA AM BELLE CHAL SEUL.
2010-11-11	9940	IA AM BELLE CHAL SEUL.
2010-11-12	7877	KETOTEST ?
2010-11-12	7847	TRANSILAC A COMMENCER
2010-11-12	7811	PIRS. 3X 48 H APART + NOVODRY
2010-11-13	5023	CHAL Hotesi de saiille
2010-11-14	7826	CHAL: Basé sur Chaleur précéd
2010-11-14	7811	CHAL: Retour de saillie
2010-11-14	7823	VDIV:SCOURGUARD 2E DOSE
2010-11-14	7826	SURV IA

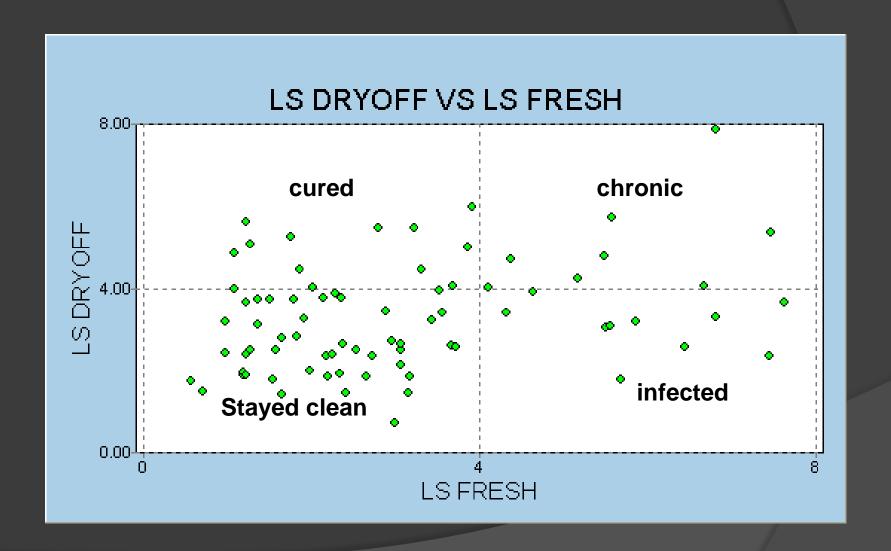


MONITOR / ANALYZE...

Monitoring / Analysis



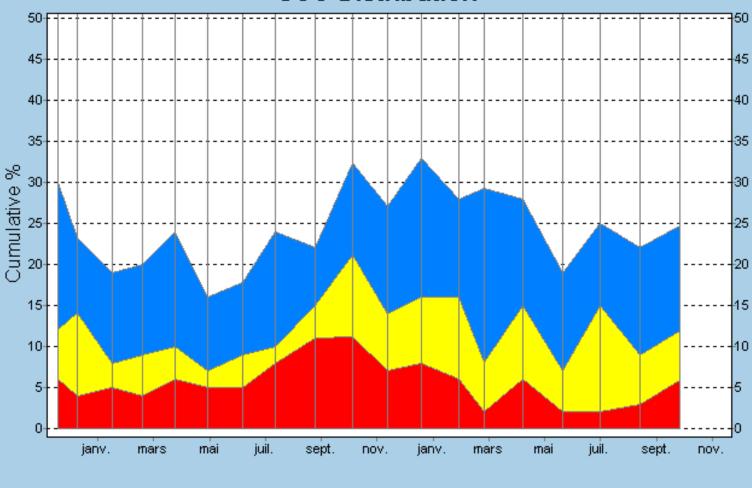
MONITORING / ANALYSIS

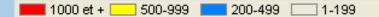






SCC Distribution

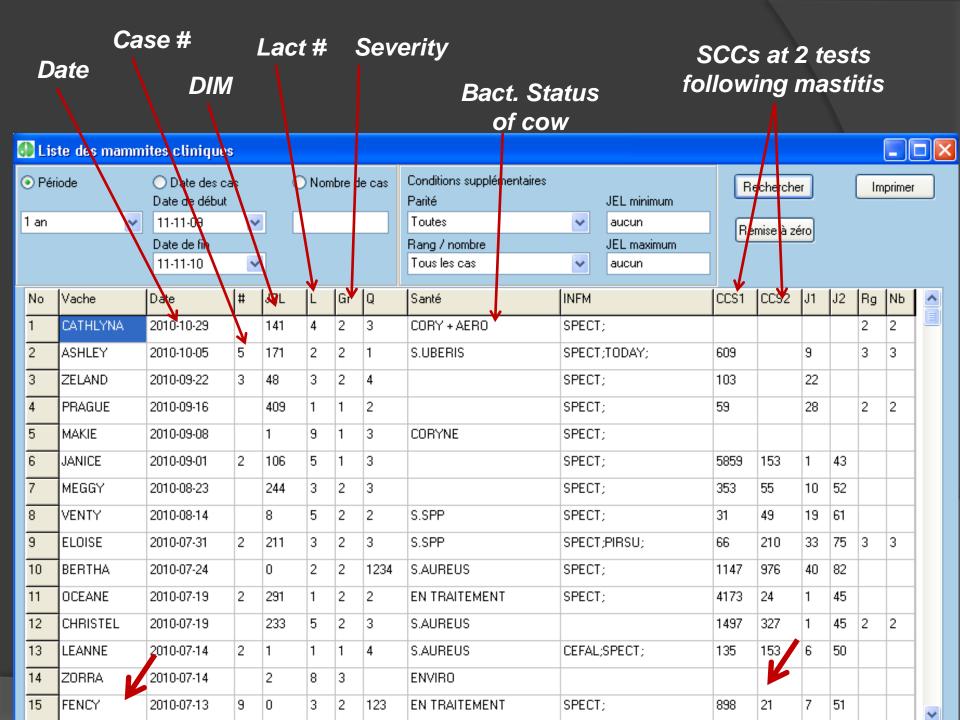


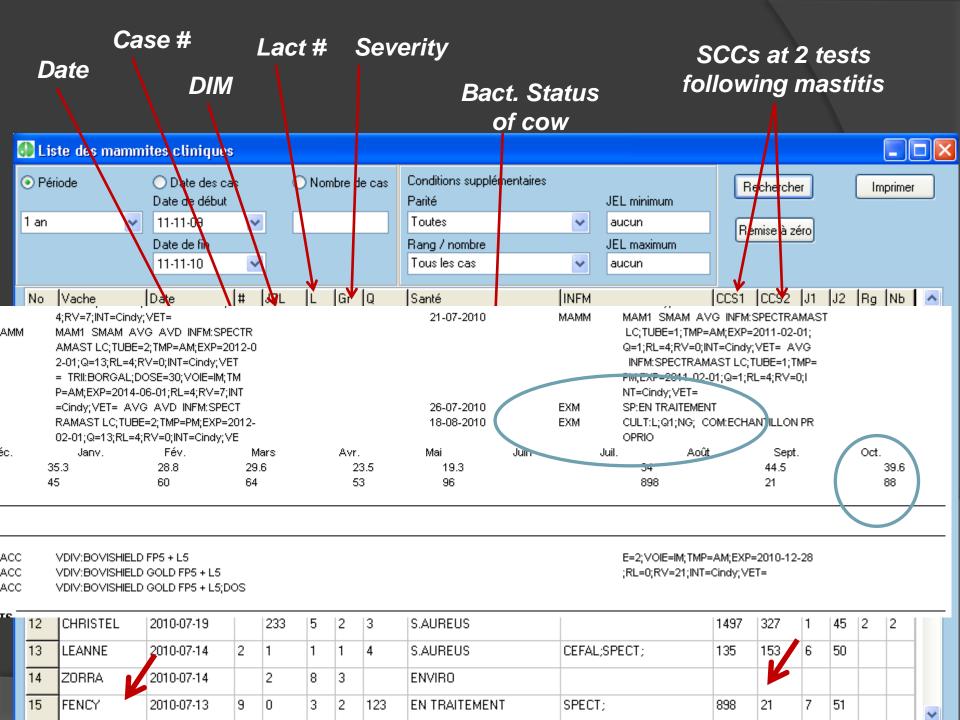


MASTITIS MODULE...



- Possibility to search and analyze cases of clinical mastitis
 - DIM ?
 - Case 3 (1st, 2nd or chronic...)
 - Lactation #
 - « Severity » (type 1,2 or 3)
 - Treatment success







CRISIS MANAGEMENT...

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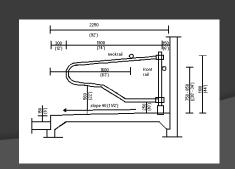


- The standard routine approach almost always controls contagious mastitis satisfactorily
- Occasionally, even then, clinical case incidence will suddenly increase dramatically
- Usually it's an « environmental crisis »

CRISIS MANAGEMENT...3 QUESTION



- Hygiene: any changes ?
 Bedding? Comfort? Cleaning
- 2. Teat end health OK?
 Milking system? Teat dip?
 Milking routine? Comfort?
- 3. Immunity OK?
 - 1. Nutrition? Stress?

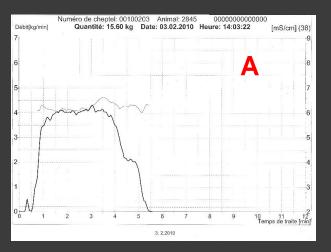


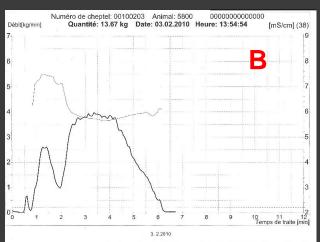


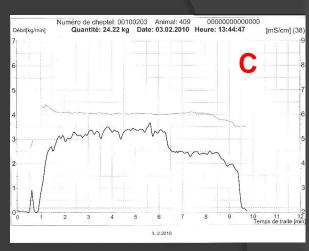


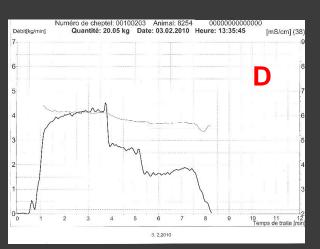
LACTOCORDER...

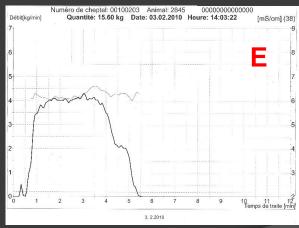


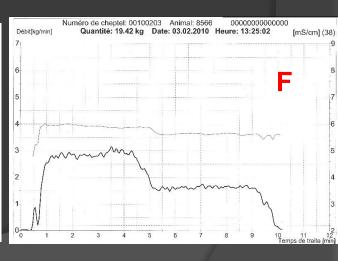












Conclusion...



- Thorough udder health monitoring can be integrated easily into routine HH visits.
- A system based on health records helps.
- Occasionally crisis situations will still occur, be prepared...

