SOP-Calving

SOP-calving describes the procedures that ensure best practice regarding calving.

The description includes

- Handling of highly pregnant cows with and without Para tuberculosis
- Calving signs
- Guidelines for fetal monitoring
- Difficult calving's
- Treatment of calves and calving cows with Para tuberculosis
- · Identification and registration of calving and calf
- Daily tasks around the calving box

All topics are illustrated with drawings and short texts that you can edit so it fits the conditions on your farm.

When you organize and implement SOP on your farm, it is an advantage to involve a Lean-certified cattle adviser. You'll find them on <u>www.leankvaeg.dk</u> Experience shows that an introductory course with the help of an expert is crucial for the output of SOP in the long run.

In the guide "Getting Started with SOP" (attached), there are some guidelines you can consider before you begin to adapt SOP for your work procedures.

Enjoy your SOP.





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1a. Calving - move para TB close up cow

		c para i d ciuse up cum
1.1a	Check cow's Para TB status and days to expected calving	Dansk Kvæg Malkekvæg ParaTB Mælkefodringsliste Bes-nr CHR Udskrevet 11.07.08 10.42 Side Kontroldato 29.05.08 7 Lxo, Kvæga fdelingen 76 58 75 00 Baseret på mælkeresultater i CHR målt den 29.05.08
	If cow's status is Green → OK	Baseret på mælkeresultater i Urk mail ten 25.0.06 Risiko = Høj: mælk bruges ikke til fodring af kvie-kajre; Høj kælvingsshygjene Ckr-Dyrnr. ELISA Forvige Kælv Velsesnedgang 01290 0.3 0.0 5 14.08.08 sindsynligt 01473 afg 0.7 0.5 Megtet sandsynligt 01700 0.7 0.0 2 03.08.08 sandsynligt 01702 0.4 0.1 1 25.00.08 sadsynligt
	If cow's status is <mark>Yellow</mark> or Red	01733 0.8 0.8 1 02.12.08 Meget sandsynligt 01741 0.5 0.5 1 11.10.08 Meget sandsynligt 01766 2 Sandsynligt 01769 0.8 0.9 1 27.07.08 Meget sandsynligt 01789 0.8 0.9 1 27.07.08 Meget sandsynligt 1864 0.3 0.1 5 17.10.08 Sandsynligt
	Remove calf from the cow immediately after birth	2018 0.3 4 Saldsynligt 2130 0.5 Meget sandsynligt 2132 0.3 0.0 21.07.08 Sandsynligt 2140 0.7 0.2 3 24.09.08 Miligt 2185 0.6 4 Heget sandsynligt 2200 0.3 4 Gandsynligt
1.2a	Move the cow into a clean calving pen (2-3) days prior to expected calving	
	Green cow ➔ Calving pen No	
	<mark>Yellow</mark> / <mark>Red</mark> cow → calving pen No	
	If the calving has started, do not move the cow before limbs of the calf are visible The calving pen should be big enough to perform birth assistance without problems. It should be possible to open or move sides of the pen.	
1.3a	Provide feed and water	



1.4a **Important**

Yellow /Red cow → remove calf immediately after birth

Discard all milk

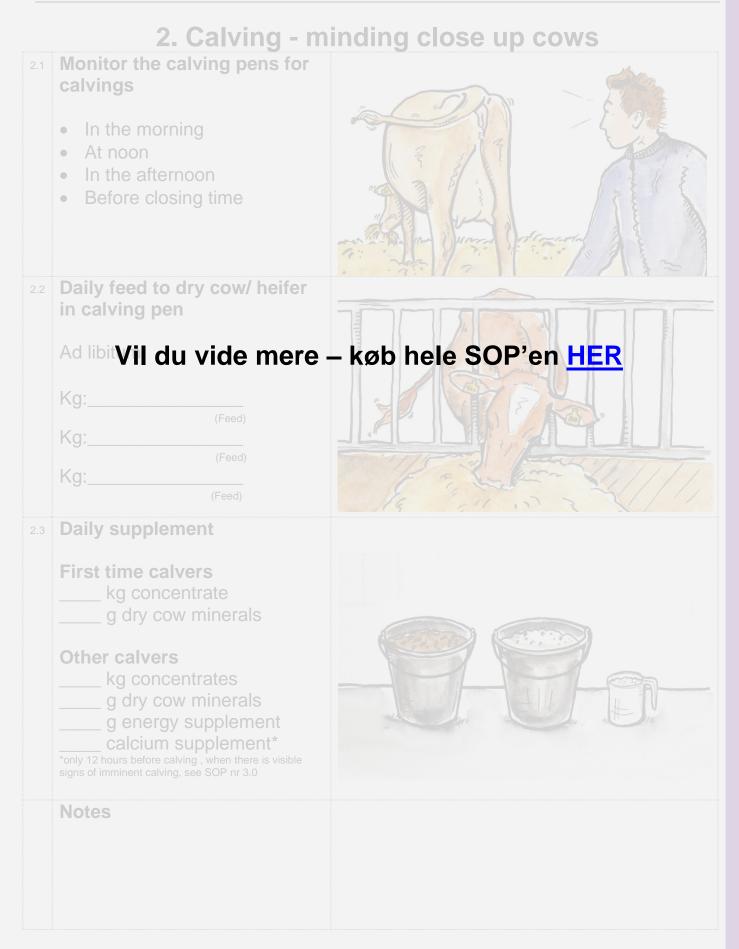




1b. Calving - move close up cow Check days to cow's 1.1b Dansk Kvæg Malkekvæg Forventede kælvninger Udskrevet 02.01.09 08.30 Side 2 expected calving, on Dk Nysrstorebesætninger, v. 37 40 50 00 Juli 2009 (Report expected calving) Ko nr/ Kvie nr Calv Sta-Kα Prap. Inseminering/Løbn. Køns-Para' EKM CTV Golddato kælvning Dato dag tus Tyr sort inf.g 32,2 13.05.09 25.09.08 V Exces 07.10.08 VH Silas 10.10.08 D Cresten 18.10.08 VH Rauno 0177 13 Ko 25.7 1 25.05.09 0 16 24 Ko Ko 31,1 27,4 28.05.09 05.06.09 0194 1 ō 0197 0 01649 26 20,6 1 07.06.09 20.10.08 Rakuuna Ko 37,8 30,0 07.06.09 10.06.09 20.10.08 Rakuuna 23.10.08 Rakuuna 0179 26 Ko 1 0 016 Move the cow into a clean 1.2b and dry calving pen _____ (2-3) days prior to expected calving If the calving has started, do not move the cow before limbs of the calf are visible The calving pen should be big enough to perform birth assistance without problems. It should be possible to open or move sides of the pen. Provide feed and water 1.3b











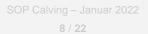
	3. Calving - signs of calving					
3.1	Tense udder Remember: 10-20 % of first time calvers do not show any signs before calving	A de la de l				
3.2	 Cow lay down and get up The coll duy vides mer Stay alone Swollen soft vulva Soft pelvic tendons This normally starts 12-24 hours before calving	e – køb hele SOP'en HER				
	Tail whipping and the cow shifts its weight from one hind leg to another Starts few hours before calving					





	4. Calv	ing - monitoring
4.1	Amnionic sack (water bag) appears	uii (BE
	Monitor the cow discreetly and without stress every (30) minutes	
	Do not remove the cow during this phase (the cow can be moved when 2 legs are visible)	
4.2	If the calf legs and head is not visible within (3) where the same the water calf: Examine the birth canal - check that the calf is placed correct or call (Vet, colleague, owner)	- køb hele SOP'en HER
4.3	Normal position of the calf on birth Hoofs, legs and head appear Check up on the cow every (20) minutes. If the head is out, stay with the cow Stagnation in calving for (20) minutes is a sign of difficult calving → Give birth assistance (SOP No 5)	



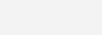


	5. Calving -	Birth Assistance
5.1	Get clean bucket with water and soap Get gloves, birth coat, gel, clean and disinfected pulling chains	
5.2	Wash the cow's vagina opening in	- køb hele SOP'en HER
5.3	Wash hands and arms thoroughly with water and soap Put on clean gloves. Use rectal gloves with nitrile gloves on top.	
5.4	The calving continues = do not pull. Total stagnation for 20-30 minutes → start pulling (Se item 5.6) The expulsion phase begins when legs are visible and takes up to 1 – 1.5 hours.1st calvers use 3-4 hours more time than other cows	And the And





5.5	Make sure the calf is in the correct position2 forelegs and head, or two 2 hind legs and tail visible in the birth way?Yes = OK No = Push calf inside a bit, pull legs or head toward the opening again. If necessary call(vet, colleague, phone)	
5.6	Place pulling chains above the cvir du vide mere – Alternately, pull the left and the right chain - when the cow bears down app. 1 cm per pull. Pause when the cow does not bear down Stagnation for 10 -15 minutes and eyes not visible, contact 	<image/>
5.7	If the calf is stuck at the hips, twist it sideways 45°C and continue the pulling Stagnation, call (vet, colleague, phone)	



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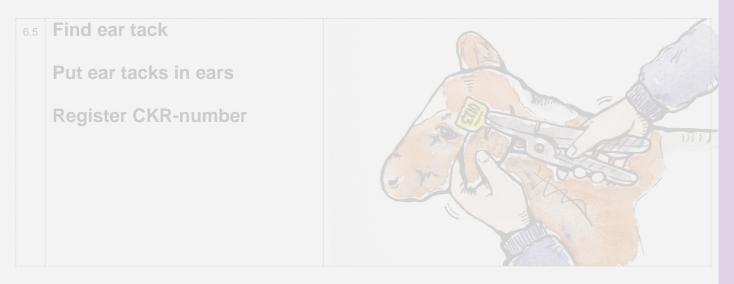
5.8	Mechanical facilitator Use a licensed facilitator that pulls with max. 165kg Pulling chains should be cleaned and disinfected after use.	
5.9	Place pulling chains above the calific pastern joints Vil du vide mere – Attach the pulling chains to the facilitator Pause when the cow does not bear down Stagnation for 10 -15 minutes and eyes not visible, contact 	købhele SOP'en HER
5.10	Notes	











Vil du vide mere – køb hele SOP'en HER





7a. Labeling and registration – monitoring the calving pen – Para TB GRØN

7.1a	Monitor the calving pen (4) times daily for new	
	born calves	
	First round in the stable	
	Before lunch	2200 /11
	Before dinner	
	Before closing time	– køb hele SOP'en <u>HER</u>
7.2a	Ear tacking the calf	
	Find ear tags and tong at	
	(Shelf, the yellow box, at the office)	
	The cow must <u>never leave</u> the calving pen before the calf is ear tagged	
7.3a	Register CKR-Number of calf and cow:	and and a service and a servic
	 In PDA/Kvikko At the time calender, On whiteboard near the calving pen With SMS On the scheme "Registration af kalve" (see table 1) 	11/1/2 1 2 9

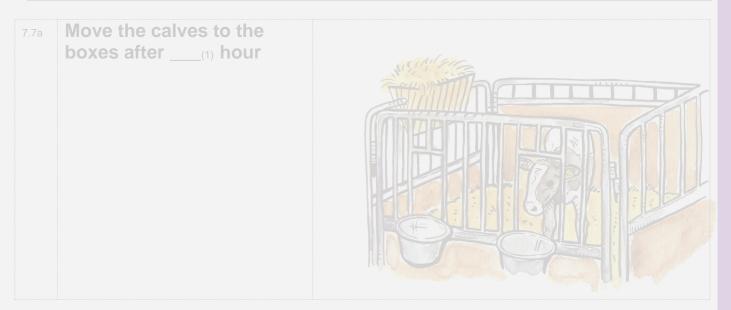




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7.4a	If you are not sure about what cow are the			stration for cows			ation betwo	en
	mother for the calf	Cow- number	Calv- numbe r	Calving date	Doubt		Progressi ng	
	Note the expected correlation.	33333- 00101	00233	12.03.				
		33333-)0105	00234	17.03.				
	Observe on subsequent visits if the connection is	33333- 00109	00235	19.03.				
	right.	33333- <u>)0111</u>	00236	28.03.	?			
	Still unsure make a		00237	28.03.	?			
	pateVil du vide mere	33333- 20080 K	øb h	ele S	SOP'	en <mark>HE</mark>	<u>ER</u>	
7.5a	Register						1	
	 Date of birth and sex In PDA/Kvikko At the time calender, On whiteboard near the calving pen with SMS on scheme "Registration of calves" (see table 1") 	The second se	and and and			11 12 1 2 3 10 7 6 5 9	An an	
7.6a	Assess and registre Describe calving process and size of calf • In PDA/Kvikko • At the time calender, • On whiteboard near the calving pen • with SMS • on scheme "Registrering af kalve" (see tabel 1)			A A A A A A A A A A A A A A A A A A A	Marrie Barris	Conceptor 1		- man





Vil du vide mere – køb hele SOP'en HER





		egistration – observation of – Para TB Yellow or <mark>Red</mark>
7.1b	The calving boxes are observed (4) times daily for new born calves First visits in the stable	
	Before lunch	
	Last visits in the stable Vil du vide mere	e – køb hele SOP'en HER
7.2b	Calf of a Para TB Yellow or Red cow is moved to a calf pen immediately	
7.3b	Ear tag the calf immediately after moving Find ear tag and the tong at the (Bookcase, yellow box, at the office)	



7.4b	 Register CKR-Number for calf and mom In PDA/Kvikko At the time calender, On whiteboard near the calving pen with SMS on scheme "Registrering af kalve" (see tabel 1) 	Andrew and a second
7.5b	Registri du vide mere Date of birth and sex • In PDA/Kvikko • At the time calender, • On whiteboard near the calving pen • with SMS • on scheme "Registrering af kalve" (see tabel 1)	- køb hele SOP'en HER
7.6b	Assess and register Calving process and size - In PDA/Kvikko - At the time calender, - On whiteboard near the calving pen - with SMS - on scheme "Registrering af kalve" (see tabel 1)	





Size	
Progressing	
Condition	Vil du vide mere – køb hele SOP'en <u>HER</u>
Doubt	
Calving date	
Calv-number	
Cow-number	



8. Calving - The cow after calving		
8.1	Register on (Paper, board, register, PC) • Cow's CKR-No. • Time of calving • Calf's sex • Calving procedure • Calf's CKR-No.	And
8.2	pump with liters of water with (electrolyte)	– køb hele SOP'en <u>HER</u>
	Avoid milk fever and give energy supplement to (2nd and older cows) After calving give (Type, volume) Plus water and straw feed	
8.4	Leave the cow in the calving pen, and monitor its condition every (1) hour If you are in doubt, contact: (Manager, Vet, colleague, phone)	





