

Table S1. Veterinarian's perception of health problems prevalence in dairy farms and prevalence score (PS), according to a 5-points scale^[1] (mean and 95% confidence interval) by the practitioners.

Health problem	PS Average	95% CI
Rearing problems		
Pneumonia (calves)	4.2	3.8-4.6
Diarrhea (calves)	4.0	3.4-4.6
Calves/heifers poor management	3.7	3.3-4.1
Umbilical alterations and infections	2.1	1.6-2.5
Meningitis	1.9	1.6-2.3
Congenital defects	1.4	1.1-1.8
Udder problems		
Mastitis (lactation)	4.1	3.7-4.6
Mastitis (dry cows)	2.6	2.1-2.9
Adult cows and heifers' problems		
<u>Metabolic problems</u>		
Diarrhea (adult cows)	3.7	3.1-4.3
Ketosis	3.6	3.0-4.2
Acidosis	3.4	2.9-4.0
Displacement abomasum	3.3	2.7-3.9
<u>Reproductive problems</u>		
Poor fertility (overall)	4.0	3.6-4.4
Abortion	3.4	2.8-3.9
Retained placenta	3.4	2.7-4.0
Repeat breeder's	3.1	2.5-3.7
<u>Infectious problems</u>		
IBR/BVDV ^[2]	3.7	3.1-4.3
Paratuberculosis	3.5	3.0-4.1
Clostridial diseases	2.2	1.7-2.7
<u>Others</u>		
Pneumonia (heifers and cows)	4.0	3.6-4.4
Lameness	3.9	3.2-4.5
Poor dry cow management	3.3	2.9-3.7
Toxins (fungal/vegetal)	3.0	2.5-3.5
Photosensitization	2.8	2.1-3.5
Parasitism	2.5	1.9-3.1
Sudden death	1.7	1.4-2.1
Nutritional problems		
Poor nutrition (low BCS) ^[3]	3.0	2.4-3.6
Mineral/vitamins deficiency	2.7	2.1-3.3
Hypomagnesemia	1.5	1.1-1.9

^[1] Scale 1 to 5: 1, scarcely prevalent (in<10% farms); 2, sometimes occurring (10–40% farms); 3, moderately prevalent (40-60% farms); 4, highly prevalent (>60% farms); 5, completely ubiquitous (100% farms).

^[2] IBR, infectious bovine rhinotracheitis; BVDV, bovine viral diarrhea virus.

^[3] BCS, body condition score.

Table S2. Specific veterinary procedures and degree of implementation score (IS), according to a 5-point scale^[1] (mean and 95% confidence interval) by the practitioners.

Procedure ^[2]	IS Average	95% CI
Hoof health procedures		
Digit amputation	1.0	1.0-1.0
Trimming	1.1	0.9-1.3
Disease control and surveillance		
Abortion pathogens diagnosis (laboratory)	2.0	1.4-2.6
Fecal samples for parasitology analyses	1.3	0.9-1.7
Serological study (specific pathogens)	2.3	1.8-2.9
Brucellosis surveillance	2.3	1.3-3.3
Tuberculosis surveillance	2.2	1.2-3.1
Monitoring BVDV ^[2]	2.0	1.2-2.8
Monitoring IBR ^[2]	2.0	1.4-2.7
Monitoring paratuberculosis	2.1	1.5-2.6
Monitoring leptospirosis	1.7	1.1-2.3
BRD (laboratory diagnosis) ^[2]	1.9	1.4-2.3
Postpartum (puerperal) disease management	3.1	2.4-3.9
Surgical procedures		
Castration (males)	1.1	0.9-1.3
Cesarian	1.5	1.1-2.0
Dehorning	1.3	0.9-1.7
RDA surgery ^[2]	1.7	1.3-2.2
LDA surgery ^[2]	2.6	2.1-3.2
Eye enucleation	1.1	0.9-1.2
Excision of eyelid tumors	2.2	1.6-2.8
Reproduction		
Routine ultrasound scanner reproductive examination	2.3	1.5-3.1
Pregnancy diagnosis	2.3	1.5-3.1
Dystocia/calving assistance	2.7	2.0-3.4
Ambulatory clinic		
Photosensitization	1.9	1.3-2.5
Necropsies	1.5	1.2-1.8
Intestinal torsion	1.3	1.1-1.6
Uterine torsion	2.5	1.8-3.1
Abomasal ulceration	1.6	1.1-2.1
Nutrition		
Body condition scoring	1.9	1.2-2.6
Blood monitoring for minerals	1.0	1.0-1.0
Udder health		
Mastitis control	2.8	2.1-3.4
Milk quality control	2.2	1.3-3.1
Preventive measures adopted by farmers ^[3]	3.0	2.5-3.5

^[1] Scale 1 to 5: 1, <10 procedures performed during the last 18 months; 2, 10–30 procedures; 3, 31–50 procedures; 4, >50 procedures (*e.g.*, diagnosis, treatments, prevention, control).

^[2] BVDV, bovine viral diarrhea virus; IBR, infectious bovine rhinotracheitis; BRD, bovine respiratory disease; RDA, right displacement abomasum; LDA, left displacement abomasum.

^[3] According to 55.6% (10/18) of the veterinarians.

Table S3. Degree of seasonal transhumance and implementation score (IS) preventive measures by farmers regarding the veterinarian's perception and according to a 5-point scale^[1].

Procedure	Percentage (n/N)	IS mean±SEM
Seasonal transhumance	88.9 (16/17)	3.3±0.2
Appropriate biosecurity and hygiene programs	35 (6/17)	2.1±0.3
Implementation of preventive measures	73.7 (14/19)	2.6±0.3

^[1] Scale 1-5: 1, low intensity/frequency of implementation and 5, maximal implementation.
SEM: standard error of the mean.