MANAGEMENT

- # Feed in = investment in future
- # Feed as if you would feed a baby (hygienically)
- # Colostrum intake 3-4 litres or 10% of BW within 2 hours of birth
- # Second similarly sized amount within 12 hours

(See Colostrum quality)

- # Milk replacer = >13% birthweight in milk replacer (at 125g/litre)
- (> 25% CP) + cold weather allowance
- # Concentrate calf starter from 3 days of age and >2kg at weaning

20°C

10°C

0°C

Source: Teagasc

Concentrate + forage to maximise rumen development

- # Disease information recorded
- #Treat at correct time as per protocol
- # Vaccination as standard
- # Calf health scoring daily
- # Protocols in place and used

- # Calves sourced from known supplier
- # Optimise genetics
- for calf health and welfare
- # Optimise dam feeding for delivery of fit calf

- # Reduce disease challenge = Stocking
- density + bedding + hygiene 😁 # Housing by age group
- # Use both natural + artificial airflow
- # Avoid changes at high risk periods

0

1.4

2.7

#CALFMATTERS

Calf Health and Welfare Blueprint

1.5m²/calf 2m²/calf 45 kg 0 to 2 months 1.5m³/calf 3m²/calf 46 kg to 99 kg 1.5m²/calf 4m²/calf 3 to 5 months 100 kg to 149 kg 2m²/calf 5m²/calf 150 kg to 199 kg 5 to 7 months



50kg calf, >3 weeks

*Additional milk replacer (L)

0.9

1 – Legs entirely visible when lying down

1.8

- 2 Legs partially visible when lying down
- 3 Legs generally not visible when lying down





Tips and tricks to help calf rearing go from good to great

Designated quarterly calf health review # Review calf health and welfare checklist to identify weaknesses

- # Maximise colostral protection (see Colostral quality)
- # Maximise nutrition (see Nutrition management)
- # Water hygiene +/- non-antibiotic water treatments
- # Probiotics
- # Calves delivered unaided / free from disease
- # Appropriate vaccination of calves as standard # Non-vaccination only where metrics show it's not needed
- # Long term genetic selection for resistance
- # Pre-condition suckled calves
- # Vaccinate cows for scour pathogens



Training

Set roles

Collaboration

What's the goal?

Enough to do the job

Stockmanship scoring

review (+ve reinforcement)

PREVENTION



- # Hygiene of feeding/water equipment and food/water itself
- # Hygiene of bedding Clean and well drained
- # Environment Clean to touch, drainage in place, disinfect between batches
- # Air Ventilation (natural + artificial) minus drafts at calf level
- # Guide for calf housing (AHDB)

+25 -

-20 -

Calf <3 weeks/50kg

House in age groups from same farms and appropriately stocked

Thermoneutral

Calf >3weeks/50kg

Minimise stressful events together



MONITORING

- # Stillbirth rates

Weight at first calving

Wisconsin calf scoring chart

Calfornia calf scoring chart

- # Untagged calf mortality
- # Age at first calving = 24

Nesting

- # Hygiene: ATP tests/coliform counts
- # Quality: Brix = >22 %2.3

同時認知

Humidity – <75-80%

Airflow - <0.5m/s

Building temperature 🔝 💳

Hygiene [Dry and clean knees]

#Transfer: Serum IgG >20 g/ITP >10 g/dl*

NH4 detectors: Ammonia <20 ppm (CIGR)

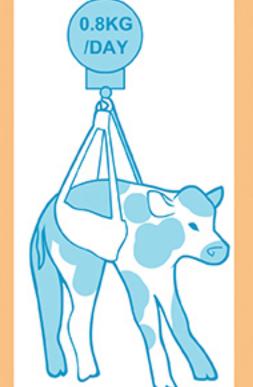
Temperature loggers from practice to farm fridge # Doses used = enough to protect all animals?

Calf temperature recording = <39.5°C

- # Weights - Note arrival/birth weight
- Weigh tapes vs crush DLWG = >0.8 kg / day ¹
- # Teagasc heifer growth calculator

Mortalities per day on holding

- # US scanning of lungs
- # Morbidity (all treatments)
- # Post mortem SOPs
- Full vs targeted
- Perform PMs during video call with your vet
- # Medicines used (always available, as is mortality)



- # Request abattoir results
- # Request or supply disease prevalence/susceptibility markers in purchased calves
- # Request or supply info from origin farm on antimicrobial/vaccine sales (vet to provide)

- # Medicines sales (threshold alert)
- # Health scoring/treatment follow ups
- # No. of treatments vs DLWG
- # Screening for disease
- (temperature recording on calf / regular checking)







TEAM WORK

- #5 max # Review and change 1 quarterly

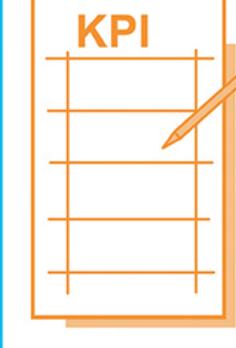
Consistent benchmarking within farm and amongst farming groups to enable realistic goals and incentive. Alters perception of the norm.

Protocols for all (consistency) - Set and

Measure appropriately: Medians and range

Separate enterprise to main herd

- = Separate calf rearing cost of production
- = Lifetime monitoring/EID



CURRENT COST OF PRODUCTION

/heifer or kg

/heifer or kg

References, 1, Sherwin VE et al. (2016) In Practice 38: 113-122 2, Bielmann V et al. (2010) J Dairy Sci 93: 3713-3721 3. Vandeputte S et al. (2014) Vet Record 175: 353-354) 4, Deelen et al. (2014) J Dairy Sci 97: 3838-3844 5, Esmay & Dixon (1986) AVI Westport 166-167: 256 An educational service from Boehringer Ingelheim Animal Health UK Ltd, makers of Bovalto. Further information available in the SPC or from Boehringer Ingelheim Animal Health UK Ltd, RG12 8YS, UK. Bovalto and the steerhead logo are registered trademarks of the Boehringer Ingelheim Group, ©2018 Boehringer Ingelheim Animal Health UK Ltd. All rights reserved. Date of preparation: Oct 2018. AHD11489. Use Medicines Responsibly.

