A calf gets scours when it accidentally eats more scours-causing germs than its immune system can handle. This happens if:
- Its food/environment contains too many scours-causing germs (hygiene) AND/OR
- Its immune system isn’t working as well as it could be (colostrum management)

A new-born calf’s immune system is immature. It needs antibodies from colostrum (the cow’s first milk) to help protect it from getting sick during the first months of life.

COLOSTRUM MANAGEMENT BEST PRACTICES

About a third of calves in New Zealand don’t get enough colostrum as new-borns. To check colostrum management on your farm, ask your vet to blood test 12 healthy 2-7 day old calves.

To improve colostrum management, focus on the “3 Q’s:”
1. **Quickly:** feed every calf enough good colostrum by 12 hours of age. A calf’s gut can only absorb antibodies from colostrum into its bloodstream during the first 12 hours of life.
2. **Quantity:** feed every new-born calf 10-15% of its body weight (4-6L) of colostrum. About half of calves don’t drink enough colostrum if left on their mother in the paddock for 24 hours without additional feeding.
3. **Quality:** management influences colostrum quality
   a. feed only clean, fresh, first-milking (“gold”) colostrum to new-borns
   b. Ideally, this should measure 22% or higher on a Brix refractometer. Feed more colostrum, sooner, if it measures <22% on Brix.
      (see diagram)

c. Adjust dry cow, springer and colostrum management to improve colostrum quality
   i. cows vaccinated with Rotavec® Corona make colostrum with more antibodies against rotavirus, coronavirus and E. coli than unvaccinated cows
   ii. cows that are well-fed before calving make better colostrum than poorly-fed animals
   iii. cows milked right after calving give better colostrum than cows milked 12 hours later

Example Strategy

Check Quality with Brix

- <22% Brix → 2 x 3 litre feeds
- ≥22% Brix → 2 x 2 litre feeds

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