24 Hours to Weaning

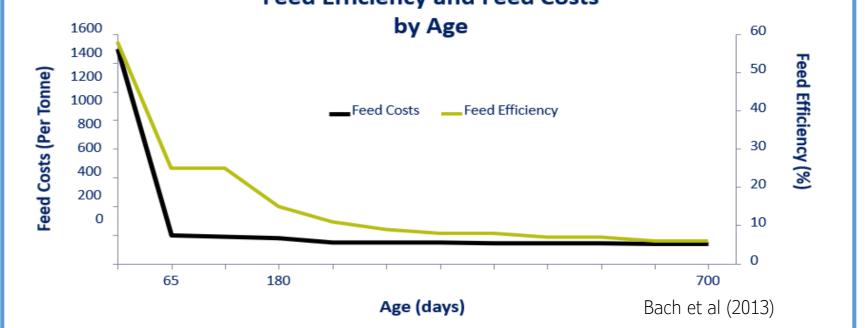


Milk Whole milk vs Calf Milk Replacer (CMR)	
Whole Milk	CMR
 Advantages 100% dairy protein Rich in fat (high in energy) Contains IgGs and other antibacterials 	 Advantages Consistent Stored easily Tailored to calves nutritional requirements Accelerated growth?
 Disadvantages Disease transmission risk (especially Johnes) Contains pathogens Antibiotic trace (AMR) 	 Disadvantages Cost Labour to mix Less digestible (depends on CMR)

Aim for 8I at 12.5-15% inclusion rate (>1kg CMR/calf/day)

Every 100g of DLWG in the first two months of life is associated with a

Feed Concentrate pellet – protein %, other raw materials Fresh clean water must be offered – solid feed consumption is reduced by 40% when milk is the only liquid provided Forage – chopped straw provided Milk only Milk and grain Milk and hay PENNSTATE PENNSTATE **Feed Efficiency and Feed Costs**

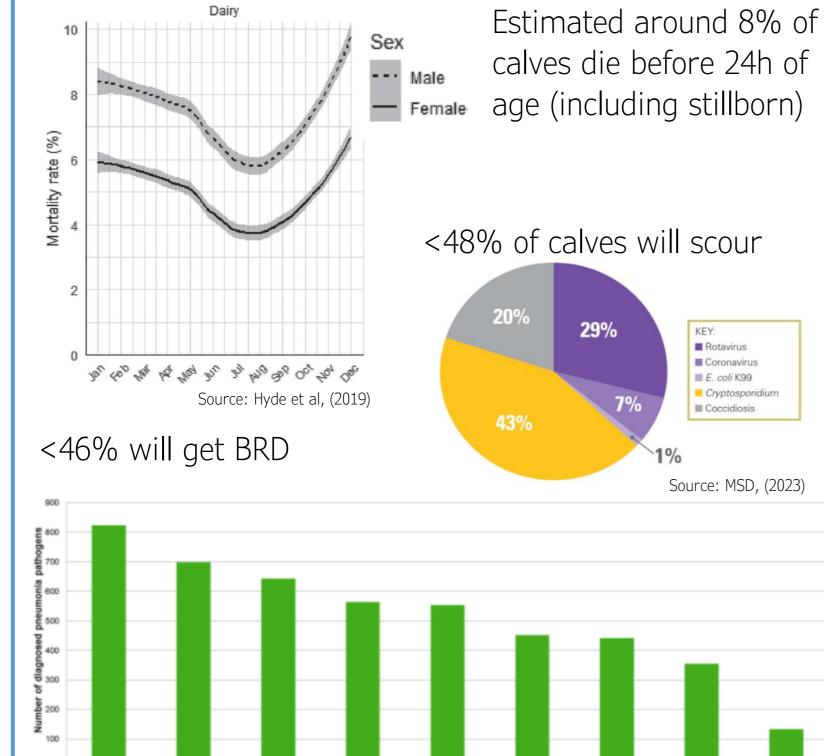


85–225 kg increase in milk yield during first lactation



Health

25% of on farm deaths happen within the first 3 months 6% mortality rate in dairy <3mo with seasonal influence (Neonatal >24hrs old)



Environment

- Dry with excess moisture continually removed
- Draught free (Ideal air speed around 0.25m/sec)
- Clean and cleanable

Ventilation

- Remove excess heat and water vapor
- Remove microorganisms, dust and gases •
- Provide uniform distribution of air

Cold Stress

Average daily gain increase of 30g is associated with a 1°C increase in calf building temperature

