Dairy farmers' compliance with culling recommendation in paratuberculosis programme

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Dairy farmers' compliance with culling recommendation in paratuberculosis programme

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**Background**

**Danish ParaTB Programme**
- Started in 2006
- Incl. 30-40% of dairy cattle
- To improve animal health & farming profitability
- 4 annual ELISA screenings required
- Culling specific cows has proven effective

**Recommendations to farmers**
- Identify high risk animals (“Red” and “Yellow”)
- Avoid use of milk and colostrum from high risk cows
- Segregate high and low risk cows at calving
- Clean calving area after high risk animals
- Swift removal of calves born to high risk dams
- Cull “Red” cows quickly – before next calving

**Prevalence of Red cows (not culled)?**
- Did Red cows calve after being Red (3,364/11,789)
- How long did Red cows stay in the herd?

**Results**

- 11,789/1,366,015 (0.9%) records were Red cows that were recommended culled & could possibly calve
- Study population: 30,848 possible calvings by Red cows

- 71% did NOT calve after becoming Red (8,425/11,789)
- Stayed in herd
  - Median: 1.4 years
  - Max: 6.9 years

- 29% calved after being Red
  - (3,364/11,789)
- Stayed in herd
  - Median: 0.3 years
  - Max: 4.7 years

**Conclusion**

71% of farmers culled their cows as recommended
Still, some red cows stayed in the herd for long and can thus infect their offspring and herd-mates

**Materials & Methods**

- Indirect Milk ELISA (ID-Screen®)
- Positive if S/P ratio >0.33

**Herds and animals**
- Enrolled herds in 2008-15
- All lactating animals tested in programme

- Did Red cows calve again?
- How long did Red cows stay in the herd?