Is Q Fever hiding on your farms?

10



One out of two farms could be at risk of Q Fever

Q Fever is a dangerous threat for you and your farms. Protect your farms, their profit and human health.



40 ml





Vaccinate now

Q Fever

A potential threat to your farms



With more than **one out of two herds** testing positive for Q Fever (in some areas of the UK), farmers can no longer afford to ignore this disease^{1,2}

The values per country indicate the percentage of herds that tested positive to Q fever. Herd prevalence was determined by ELISA or PCR on bulk tank milk³.

Coxiella burnetii: Born to create trouble

67%

8%

59%

67%



DIAGNOSTIC FLOW CHARTS

REPRODUCTIVE DISORDERS

Icons represent the herd status.



ABORTIVE EPISODES

Icons represent the herd status and dotted boxes represent actions and recommendations.





Q Fever is involved in the cause for the abortions but further analysis are needed



COXEVAC®

A unique vaccine that effectively reduces bacterial load

5 times lower

risk of becoming a shedder - if naive and vaccinated before being serviced7



Coxevac is the only ultra-purified phase I *C. burnetii* vaccine endowing an optimal cellular and humoral immune response

helps tackle the reproductive impacts of Q Fever

30% less risk of abortion⁸

40% increase in pregnancy rate at 1st Al⁵



2 weeks less to become pregnant⁵



Vaccination could represent a gain of £56/cow/lactation, just considering the reduction in days open



A risk to the reproductive performance of herds



- A seropositive cow to Q fever has 2.5 times more risk of abortion and 1.5 times more risk of retained placenta⁸
- Herds with a positive bulk tank milk have 2.5 times greater risk to have a high incidence of metritis and endometritis¹¹

DO YOU RECOGNISE THESE SIGNS? Weak newborn Abortion Infertility Stillbirth Retained placenta Premature calving Metritis

A serious threat to farm profitability

Any decrease in the herd reproductive performance **strongly impacts farm profitability**



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cost of an extra day open¹⁰



Q Fever is zoonotic

Professionals like vets, farm advisers, farmers or abattoir workers are at increased risk of contracting Q fever. In most human cases it will remain asymptomatic. In 40% of cases, an acute disease will occur as a flu-like syndrome, miscarriage can occur in pregnant women. In 2% of cases, it will become chronic and can lead to hepatitis and/ or endocarditis.

Protect your farms¹³, vaccinate!



References: 1. Velasova M. *et al.* 2017. Herd-level prevalence of selected endemic infectious diseases of dairy cows in Great Britain. J. Dairy Sci. 100:9215-9233 • **2.** Valergakis G. *et al.* 2012. *Coxiella burnetii* in bulk tank milk of dairy cattle in south-west England. Vet Record 11;171(6):156, 1-2 • **3.** Guatteo R. *et al.* 2010. Prevalence of *Coxiella burnetii* in faction in domestic ruminants: A critical review. Veterinary Microbiology 149 (2011) 1–16 • **4.** Guatteo, R. *et al.* 2006. Shedding routes of *Coxiella burnetii* in dairy cows: implications for detection and control. Vet. Res. *37*, 827–833. • **5.** Hawker JI. *et al.* 1998 A large outbreak of Q fever in the West Midlands: windborne spread into a metropolitan area? Commun Dis Public Health. 1998; 1:180–74. • **6.** Clark N.J. and Soares Magalhães RJ. 2018. Airborne geographical dispersal of Q fever from livestock holdings to human communities: a systematic review and critical appraisal of evidence. BMC Infect Dis. 2018 May 15;18(1):218. • **7.** Guatteo R. *et al.* 2008. Prevention of *Coxiella burnetii* indecide dairy herds using a phase I *C. burnetii* inactivated vaccine. Vaccine. 26(34):4320-4328 • **8.** Ordronneau, S., 2012. Impact de la vaccination et de l'antibiothérapie sur l'incidence des troubles de la reproduction et sur la fertilité dans des troupeaux bovins laitiers infectés par *Coxiella burnetii*. INRA - ONIRIS, 1300 BioEpAR Biologie, Epidémiologie et Analyse du Risque. Centre de Recherche Angers-Nantes, Nantes, France • **9.** Lopez Helguera, I. *et al.* 2014. Vaccinating against Q-fever with an inactivated phase-I vaccine (COXEVAC[®]) improves reproductive performance in *Coxiella burnetii* -infected dairy herds. Presented at the XXVIII World BuiatricsCongress, Cairns, Australia 2014, pp. 274–275. • **10.** Cabrera, V.E., 2014. Economics of fertility in high-yielding dairy cows on confined TMR systems. Animal 8 Suppl 1, 211–221. • **11.** Valla, G., 2014. Prevalenca di *Coxiella burnetii* nel latte di massa in allevamenti di bovine d

COXEVAC[®] suspension for injection for cattle and goats contains inactivated *Coxiella burnetii*, strain Nine Mile ≥72 QF Unit*/ml. *Q-fever Unit: relative potency of phase I antigen measured by ELISA in comparison with a reference item. **INDICATIONS:** Cattle: For the active immunisation of cattle to lower the risk for non-infected animals vaccinated when non-pregnant to become shedder (5-times lower probability in comparison with animals receiving a placebo), and to reduce shedding of *Coxiella burnetii* in these animals via milk and vaginal mucus. Onset of immunity: not established. Duration of immunity: 280 days after completion of the primary vaccination course. Goats: For the active immunisation of goats to reduce abortion caused by *Coxiella burnetii* and to reduce shedding of the organism via milk, vaginal mucus, faeces and placenta. Onset of immunity: not established. Duration of immunity: one year after completion or the primary vaccination course. **Legal Category:** UK POM-V IE POM

Please refer to the product packaging and leaflets for information about side effects, precautions, warnings and contra-indications. Further information is available from the product SPC, data sheet or pack insert.

Prescription decisions are for the person issuing the prescription alone. Use medicines responsibly (www.noah.co.uk/responsible)

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