Mycobacterium bovis

Case fatality in companion animals
Comment :
Value : © Low © Medium © High © Unknown © Non-existent © Not applicable

Case fatality in humans
Value : © Low © Medium © High © Unknown © Non-existent © Not applicable

Case fatality in production animals
Comment : ( OIE Disease Factsheets)
Value : © Low © Medium © High © Unknown © Non-existent © Not applicable

Contagiousness and/or efficiency of transmission by vectors
Comment : (Exp.M.Govaerts): Depends on immune status etc. (OIE Disease factsheets). Both in natural and experimental conditions, contact transmission of Mb is a very limited/unpredictable event
Value : © Low © Medium © High © Unknown © Non-existent © Not applicable

Economic impact for individual companion animal owners
Comment : (Exp.M.Govaerts): In general terms, given the current incidence among CA and the recommended euthanasia.
Value : © Low © Medium © High © Unknown © Non-existent © Not applicable

Economic impact in human medicine
Comment :Prevention, treatment, work inability
Value : © Low © Medium © High © Unknown © Non-existent © Not applicable

Economic impact in production animals
Value : © Low © Medium © High © Unknown © Non-existent © Not applicable

Economic impact in the breeding of companion animals
Comment :
Value : © Low © Medium © High © Unknown © Non-existent © Not applicable

Economic impact in wildlife
Comment : Possibly high Anonymus, 2009 (Vet. Rec): about eradication in badgers in UK
Value : © Low © Medium © High © Unknown © Non-existent

Genetic stability
Comment:

Value: ☐ Medium ☐ Unknown ☑ High ☐ Low

**Impact on human life comfort**
Comment:

Value: ☐ Low ☐ Medium ☑ High ☐ Unknown ☐ Non-existent ☐ Not applicable

**Impact on life comfort of companion animals (animal welfare)**
Comment:

Value: ☐ Low ☐ Medium ☑ High ☐ Unknown ☐ Non-existent ☐ Not applicable

**Impact on life comfort of production animals (animal welfare)**
Comment: OIE Disease Factsheets Acha and Szyfres, 2005

Value: ☐ Low ☐ Medium ☑ High ☐ Unknown ☐ Non-existent ☐ Not applicable

**Impact on life comfort of wildlife species (animal welfare)**
Comment: (Exp. M.Govaerts): deer and wild boar do not die of Mb, unlike zoo species

Value: ☐ Low ☐ Medium ☑ High ☐ Unknown ☐ Non-existent

**Influence of production type on infection risk**
(Exp. M.Govaerts): intensive/extensive production (PT) Acces of badgers to stables and feeding facilities

Value: ☑ Medium ☐ Unknown ☑ High ☐ Low ☐ Not applicable

**Influence of way of living of companion animal on infection risk**
Comment: (Exp. M.Govaerts): Allowed contacts with infected humans or cattle, feeding raw milk. Determine exposure.

Value: ☑ Medium ☐ Unknown ☑ High ☐ Low ☐ Not applicable

**Morbidity in companion animals**
Comment: (Exp. M.Govaerts): cats and dogs are in general very resistant

Value: ☑ Low ☐ Medium ☑ High ☐ Unknown ☐ Non-existent ☐ Not applicable

**Morbidity in game species**
Comment: (Exp. M.Govaerts): if morbidity = lesions

Value: ☐ Low ☑ Medium ☑ High ☐ Unknown ☐ Non-existent ☐ Not applicable

**Morbidity in humans**
Comment: ( Acha and Szyfres, 2005 (I, p 261-278) )

Value: ☐ Low ☐ Medium ☑ High ☐ Unknown ☐ Non-existent ☐ Not applicable

**Morbidity in production animals**
Comment: ( OIE Disease Factsheets )
Morbidity in threatened or protected species
Comment: (badgers): (Exp.M.Govaerts): protected or unprotected species (depends on country)

Morbidity in unprotected or pest species
Comment: (badgers): (Exp.M.Govaerts): protected or unprotected species (depends on country)

Mortality in companion animals
Comment:

Mortality in game species
Comment: (Exp.M.Govaerts): NE

Mortality in humans
Comment: (Exp.M.Govaerts): Low

Mortality in production animals
Comment: OIE Disease Factsheets

Mortality in threatened or protected species
Comment:

Mortality in unprotected or pest species
Comment:

Notifiable disease in Belgium
Comment:

Occupational hazard in man
Comment: Abattoir workers, cattle breeders, vets, milk consumers. Acha and Szyfres, 2005 (I, p 261-278) (Exp.M.Govaerts): most human Mb cases are raw milk consumption linked (children!)

http://wildtool.var.fgov.be/index.php/pa/printpa
OIE listed
Comment:
Value: ⬜ Yes ⬜ No

**Probability of eradication achievement in companion animals**
Comment: (Exp. M. Govaerts): Mb does not maintain itself in dogs: eradication was obtained by culling dogs together with cattle in the 50's
Value: ⬜ Medium ⬜ Unknown ⬜ High ⬜ Low ⬜ Non-existent ⬜ Not applicable

**Probability of eradication achievement in human medicine**
Comment: (Exp. M. Govaerts): safe food practice is sufficient (pasteurisation) + biosafety practice.
Value: ⬜ Medium ⬜ Unknown ⬜ High ⬜ Low ⬜ Not applicable

**Probability of eradication achievement in production animals**
Value: ⬜ Medium ⬜ Unknown ⬜ High ⬜ Low ⬜ Not applicable

**Probability of eradication achievement in wildlife**
Comment:
Value: ⬜ Medium ⬜ Unknown ⬜ High ⬜ Low ⬜ Not applicable

**Probability of transmission from wildlife to companion animals**
Comment: (Exp. M. Govaerts): in endemic areas: limited contacts with dogs
Value: ⬜ Low ⬜ Medium ⬜ High ⬜ Unknown ⬜ Non-existent ⬜ Not applicable

**Probability of transmission from wildlife to man**
Comment: (Exp. M. Govaerts): risk is present! (badgers): low
Value: ⬜ Low ⬜ Medium ⬜ High ⬜ Unknown ⬜ Non-existent ⬜ Not applicable

**Probability of transmission from wildlife to production animals**
Comment: Badgers to cattle (Acha and Szyfres, 2005 (I, p 261-278)) (Exp. M. Govaerts): wild boar, deer to cattle
Value: ⬜ Low ⬜ Medium ⬜ High ⬜ Unknown ⬜ Non-existent ⬜ Not applicable

**Resistance in environment**
Value: ⬜ Low ⬜ Medium ⬜ High ⬜ Unknown

**Resistance to desinfectants**
Value: ⬜ Low ⬜ Medium ⬜ High ⬜ Unknown
Risk concerning use as a weapon in bioterrorism
Comment :
Value : Low Medium High Unknown

Risk of introduction
Comment :
Value : Low Medium High Unknown Enzootic Non-existent

Risk of population decrease in game species
Comment :(Exp.M.Govaerts): not described in infected game populations (France, Austria,, Spain, NZ, USA, Canada)
Value : Low Medium High Unknown Non-existent Not applicable

Risk of population decrease in threatened or protected species
Comment :(Exp.M.Govaerts): "U"
Value : Low Medium High Unknown Non-existent Not applicable

Risk of population decrease in unprotected or pest species
Comment :(Exp.M.Govaerts): "U"
Value : Medium Unknown Non-existent High Low Not applicable

Risk of secondary transmission from humans
Comment :To cattle; to other humans Acha and Szyfres, 2005 (I, p 261-278) (Exp.M.Govaerts): only from clinical cases
Value : Low Medium High Unknown Non-existent Not applicable

Risk of secondary transmission from companion animals
Comment :Acha and Szyfres, 2005, p 269
Value : Low Medium High Unknown Non-existent Not applicable

Risk of secondary transmission from production animals
Value : Low Medium High Unknown Non-existent Not applicable

Transmission efficiency between different wildlife species
Comment :(Exp.M.Govaerts): often one-way (dead-end, spill-over): New Zealand, Spain
Value : Low Medium High Unknown Non-existent

Transmission influenced by extrinsic factors (anthropogenic, environmental)
Comment :(Exp.M.Govaerts): high: translocations, fencing, population control, feeding techniques, protection of species (badger), hunting pressure,..
Value : Low Medium High Unknown
Treatment possibilities in companion animals
Comment : (Exp.M.Govaerts): euthanasia is recommended

Value :  Medium  Unknown  Non-existent  High  Low  Not applicable

Treatment possibilities in human medicine

Value :  Medium  Unknown  Non-existent  High  Low  Not applicable

Treatment possibilities in production animals
Comment : (Exp.M.Govaerts): legally defined

Value :  Medium  Unknown  Non-existent  High  Low  Not applicable

Treatment possibilities in wildlife
Comment :

Value :  Medium  Unknown  Non-existent  High  Low

Vaccination efficiency in companion animals
Comment : (Exp.M.Govaerts): BCG is available for horses but efficacy is unknown

Value :  Medium  Unknown  Non-existent  High  Low  Not applicable

Vaccination efficiency in human medicine
Comment : (Exp.M.Govaerts): protective in pediatric TB only

Value :  Medium  Unknown  Non-existent  High  Low  Not applicable

Vaccination efficiency in production animals
Comment :

Value :  Medium  Unknown  Non-existent  High  Low  Not applicable

Vaccination possibilities in wildlife
Comment : (Exp.M.Govaerts): in development (intensive research in UK + NZ)

Value :  Medium  Unknown  Non-existent  High  Low