

BRUCELLOSIS in IRAN

Iran Veterinary Organization

Livestock population

- **Cattle:** 8,708,340 Animals in 52,640 Establishments
- **Buffalo:** 502,000 Animals in 3,360 Establishments
- **Sheep/goat:** 78,104,000 Animals in 57,500 Establishments
- **Camelidae:** 153,980 Animals in 4,270 Establishments
- **Equidae:** 1,547,100 Animals
- **Bird:** 964,599,000 Animals in 20,250 Establishments
- **Fish:** 324,708 Tonnes 9,388 in Establishments
- **Crustacean:** 10.410 Tonnes in 189 Establishments
- **Bee:** 517,208,2 Hives 35,283 in Apiaries

Brucellosis situation

	Total outbreaks	species	Routine vaccinated	units	susceptible	cases	deaths	destroyed	slaughtered
Brucellosis (brucella abortus)	270	bov	2131494	animals	119987	638	2	22	614
Brucellosis (brucella melitensis)	97	Bov-buf-cap-cml-olc	2037733 1	animals	5502	133	11	6	116

Animal Surveillance programme(1)

- **Notification of disease:** *There is a national legal obligation to report any suspected or confirmed case of the disease to Iran Veterinary Organization*
- **Target surveillance:** *Continuous investigation of susceptible population to detect the disease, including the investigation of significant part of the population by use of serological test for antibody detection (in addition of investigation into heard and flocks involve with abortion).*

Animal Surveillance programme(2)

- **Monitoring:** *Continuous diseases detection and reporting programme to detect changes in the prevalence of disease in susceptible population.*
- **Screening** (Bovine/ more than 24 month age/ in intensive & semi-intensive farms): *Diagnostic tests (Rose Bengal test followed by Wright -2ME test for positive result of RB test) are carried out systematically within the framework of control programme for the disease in all national territory.*

Animal Control Programme(1)

- **Precaution at border:** *post arrival quarantine, requirement of a certificate attesting the healthy status of origin country presented with the animals or animal products and also control tests carried out with favourable results before loading.*
- **Movement control inside country:** *diagnostic tests in the herd of origin before loading, certificates accompanying animals in transit attesting the healthy status of the herd of origin, controls on entry into a new herd.*

Animal Control Programme(2)

- **Modified stamping out (Bovine):** *Slaughter of all sick animals (detected during screening programme or investigation of abortions), followed by cleansing and disinfection of the premises.*
- **Routine Vaccination:** *Vaccination programme covering an epidemiologically significant part of the target population in the entire territory (female Bovine, 6-12 month age using RB51 vaccine/ female Ovine & Caprine, 3-11 month age using Rev. 1 vaccine).*

Laboratory organization

- There are 30 laboratories located in 30 provincial veterinary offices, authorized by and under supervision of central *governmental* Veterinary Service (IVO), carrying out Brucellosis diagnostic tests

Diagnosis strategy

- Screening program in bovine more than 24 month age, in intensive & semi-intensive farms
- Rose Bengal test followed by Wright -2ME test for positive result of RB test
- Elisa method will be set up as soon



Thank you