

Workshop on the Surveillance, Diagnosis, Control and Prevention of Brucellosis in Arab Countries

EGYPT

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World Organisation
for Animal Health
Founded as OIE



وزارة البيئة والمياه والزراعة
Ministry of Environment Water & Agriculture
المملكة العربية السعودية Kingdom of Saudi Arabia



Brucellosis constitutes a serious problem to livestock , also direct the work of researchers due to its severe economic losses and its public health significance



After calving, lambing or abortion of brucella infected animal, brucella organisms are present in large numbers in uterine discharges, fetal membranes and the aborted foeti



such infected materials represent a great risk by spreading the infection in the environment and contamination of pastures and feeds



Brucella organisms have been isolated from dogs and rats obtained from farms where cattle and sheep were serologically positive



Therefore dogs and rats are incriminated in spreading of brucella infection through feeding on infected materials of animal origin such as the aborted materials



Number of new cases of Brucellosis in last 6 months

| Governorate | Cattle | Bufflo | Sheep | Goat | Total |
|-----------------|--------|--------|-------|------|-------|
| Minufia | 5 | 1 | 3 | 1 | 10 |
| Ghrbia | 3 | 6 | 0 | 0 | 9 |
| Buhayra | 5 | 0 | 1 | 1 | 7 |
| Kafar-Elshaykha | 2 | 0 | 0 | 0 | 2 |
| Sharqia | 1 | 1 | 1 | 0 | 3 |
| Giza | 2 | 0 | 0 | 0 | 2 |
| Beni-Suayf | 1 | 0 | 0 | 0 | 1 |
| Alwadi-Aljadid | 0 | 0 | 1 | 0 | 1 |
| Total | 19 | 8 | 6 | 2 | 35 |

National Prevention and Control plan

Control of brucellosis in Egypt is carried out through program that depends on serotesting , slaughtering and compensation of reactor animals + vaccination of young calves with strain 19 . young lambs & kids with Rev-1



- **14 Dairy farms of cattle are officially declared as free from brucella based on requirement of the WOA (OIE) represent about 41 cattle herd.**
- **Expanding the proper acts to include more farms free from brucellosis that will impact on public health and support exportation of dairy products.**



| Measure | Y/N | Description |
|--|-----|--|
| 1-Programme to control or eradicate disease | Y | slaughtering and compensation of reactor animals and vaccination |
| 2-Veterinary legislation | Y | Ministerial Resolution No. 1329 of 1999 |
| 3-Emergency preparedness and response plans | N | |
| 4-Disease surveillance (general-targeted...) | Y | Targeted surveillance to female animal in production every 6 month |
| 5-Disease reporting-notification | Y | Notification positive cases to WOAHP every 6 month |
| 6-Detection and management of cases | Y | slaughtering positive cases |
| 7-Measure to prevent introduction or spread of disease | Y | Quarantine measure applied |
| 8-Vaccination | Y | vaccination of young calves with strain 19 . young lambs & kids with Rev-1 |
| 9-Measure to protect public health | Y | Toasting milking farms every 6 month |
| 10-Communication and collaboration among all competent | Y | One Health approach |
| 11-Awareness programme for relevant stakeholders | Y | Organization of awareness meeting to the owners |

Vaccination of animals against Brucellosis

| vaccine | Strain 19 | | Rev1 | |
|----------------|------------------|---------------|--------------|-------------|
| species | Cattle | Bufflo | Sheep | Goat |
| 2024 | 65696 | 21225 | 75865 | 11592 |



Economic Impact Of Brucellosis

Brucellosis have impact economics and public health.

The economic aspects include losses due to clinical disease, restrictions of agricultural markets for animals and their products, and the cost of replacements for diseased animals.

The economic losses from human brucellosis in reduced productivity, medical care and suffering can be enormous.



Challenges and solution

| Challenges | Solution |
|--|---|
| Reduction in the value of compensation allocated to positive cases of brucellosis | Raising the value of compensation to match market prices, pursuant to a ministerial decision regulating this. |
| There is no legal legislation that enables communicators to vaccinate compulsorily and enter and test farms. | Enacting laws and ministerial decisions that regulate this. |
| Declining numbers of veterinarians working in the field of control of zoonotic diseases. | Increasing the number of doctors and appointing new doctors in the field of combating zoonotic diseases. |
| Lack of financial allocations necessary for the control of zoonotic diseases (brucellosis). | Providing the necessary financial appropriations in the next financial budget |

One Health Approach

- Country experience in response using OH approach
- All intended parties taking responsibilities in debating brucellosis working together through OH approach .
- Periodical meeting and workshops are held for information sharing ,discussing current situation, present polices and future challenge..



Thank you

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