



Egypt Current Situation

Animal Health Situation,
Ongoing Programs & Future Plans

Diagnostic facilities workgroup



Continue...

- ▶ The Veterinary Labs in Egypt.
 - One central Diagnostic Lab and 26 regional Lab in the different governorates(AHRI).
 - One Vaccine & Serum Production Research Institute (VSVRI).
 - One Reproduction Research Institute (ARRI).
 - One Evaluation for Vaccines & Biologics Institute (EVBL).



The Animal Health Research Institute (AHRI)

- The Main Diagnostic Lab in Egypt.
- Well Equipped Diagnostic Lab.
- Virology, Bacteriology and Parasitic Depts.
- Testing and Isolation facilities.
- Recent Reference Lab for HPAI.
- Staff (include Researchers, PhD, Lab Technicians, Administration...etc..).



AHRI cont..

- Reference Lab for Food Safety.
- Food Safety Lab responsible for examination of food parcels (food of animal origin, feedstuffs, animal byproducts) either the national ones or the imported parcels.
- 26 Regional Labs, one in each Governorate.
- The regional Labs performing rapid diagnosis & rapid tests .
- The regional Labs have no facilities for virus isolation.



AHRI cont..

- Due to the Lack of resources the regional Labs are not well equipped.
- Their Staffs also responsible of taking samples from the field together with the competent authority staff for virus isolation and diagnostic tests in the central Lab.
- Conjoint cooperation between AHRI & GOVS in the field of analysis of samples taken from the serosurveillance activities for disease of priority in Egypt.



Future Plan

1. Extensive epidemiological studies on animal diseases throughout the country and developing effective strategies for control and eradication of such diseases.
2. Development of Bacteria and Virus Bank for preserving the isolated strains.
3. Genetic mapping for local strains known to be resistant to some diseases.
4. Reference laboratory for exotic diseases.
5. Detection of various sources of environmental pollution (practical method to reduce pollution).
6. Updating and computerizing the Institute's library and using the Internet and telecommunication facilities for scientific purposes.



Veterinary Serum & Vaccine Research Institute (VSVRI)

- VSVRI carries out its role of protecting animals and poultry against contagious and infectious diseases through the production of about 50 various biological products, vaccines.
- Exportation of vaccines to the Arab, African, Asian countries.
- Conducting research for improving and innovating veterinary biologics
- Preparation of new veterinary biologics according to the current disease situations and the policies of Vet. authorities for controlling exotic diseases



Animal Production Research Institute (ARRI)

- Providing extension services for dairy and beef farms.
- Conducting reproductive management and artificial insemination programs for cattle and buffalo farms.
- Gynecological examination for diagnosis of reproductive disorders causing abortion and infertility.
- Laboratory examination for diagnosis of reproductive infections causing abortion and infertility.
- Examination and evaluation of bulls used for natural and artificial insemination purposes.
- Application of artificial insemination using locally prepared frozen semen
- Application of ultra-sonography for early diagnosis of pregnancy & reproductive disorders.



Animal Production Research Institute (ARRI) cont...

- Examination of imported frozen semen for reproductive diseases.
- Examination, diagnosis and treatment of microbial causes of mastitis.
- Examination of milk tanks in dairy farms to ensure compliance with animal health & the hygienic condition of milking system.
- Rapid and early diagnosis diseases of the newly born farm animals and their control.
- Estimation of trace elements levels in sera of farm animals using radio immuno assays.
- Analysis of scientific research data through a well developed computer unit.
- Training of veterinarians and workers in the fields of reproduction, udder health and neonates rearing for improvement of their performance and service in governmental and private farms as well as small holders.



Future Plan

- Further establishment of modern technology for improvement of productive and reproductive capacity in farm animals.
- Application of genetic engineering technology in diagnosis of reproductive diseases that may lead to failure of fertilization as well as further epidemiological investigation or such diseases.
- Application of modern techniques for preparing of monoclonal antibodies to neonatal pathogens that would reflect positively on improving diagnosis of such diseases.
- Application of finger print technology in diagnosis of reproductive pathogens.



Future Plan cont ...

- Application of modern biotechnology and genetic engineering techniques in sire selection purposes and amplification of the recommended chromosomal genes to improve the native Egyptian breeds.
- Establishment of selected embryo bank for the wide application of molecular biology transfer technology.
- Application of molecular biology techniques for production of hormonal detectors and preparation of biological products used for treatment of reproductive problems to replace the imported preparations.
- Preparation of immunoglobulins and ant globulins to be used in improving the diagnosis of reproductive problems of the Egyptian farm animals.



Evaluation of Vaccines & Biologics (EVBL)

- Mainly its role is the evaluation of all the vaccines and biologics produced nationally and also the imported ones.
- Its an independent Institute, well equipped Lab.



EGYPT

THANK YOU