



PPR case study for Kingdom of **Bahrain**



Prof Dr. Ahmed Almajli

Dr.Fajer Al Salloom

Animal Health Director







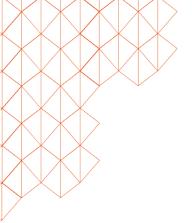
Introduction

- The Kingdom of Bahrain is a group of islands located off the central southern shores of the Arabian Gulf.
- The livestock population in Bahrain, according to the latest censes, is 7816, 63005, and 26447 head of cattle, sheep and goats, respectively. The total population of camels in the kingdom of Bahrain is estimated to be 1092 head.
- Bahrain imports livestock (cattle, sheep and goats) from several countries (Somalia, Oman, Jordan, UAE).

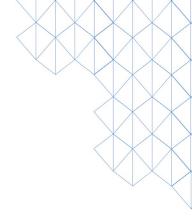


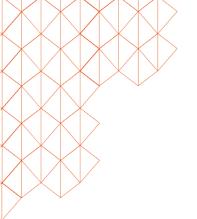
Introduction

- Bahrain has one land port with KSA (King Abduallah Bridge).
- PPR has never been reported in indigenous livestock in Bahrain
- PPR vaccination is prohibited.
- The Veterinary Authority in Bahrain is devoted towards strengthen its surveillance and early warning systems to maintain its health status as historically PPR free country.
- Continuous passive surveillance (at all entry points "sea, air and land").
- In addition, clinical surveillance is carried on farms and slaughterhouses levels.











METHODOLOGY

1 Study Population

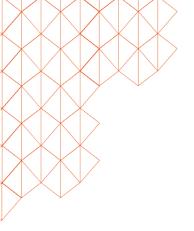
2 Sampling

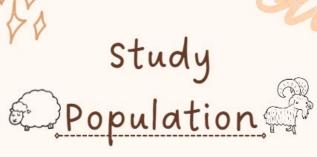
3 Analaysis







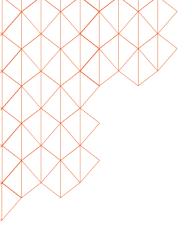


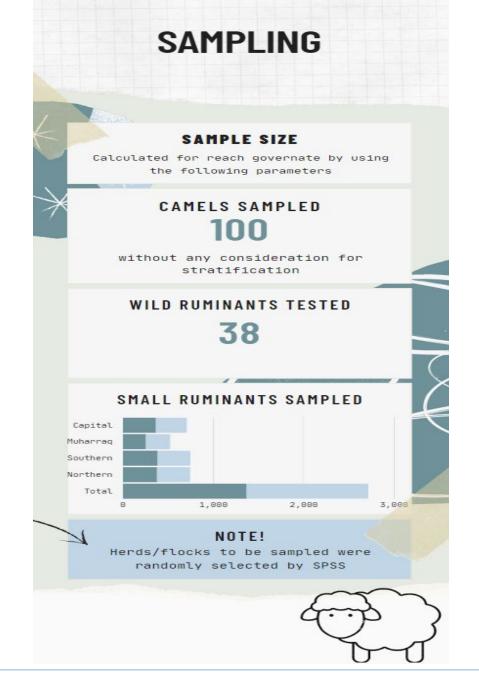


- All livestock (small ruminants and camels)
- · Ruminant wildlife
- 4 governorates in Bahrain
- livestock are kept indoors with zero grazing
- pre-tested structured questionnaire

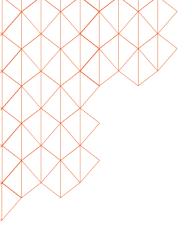


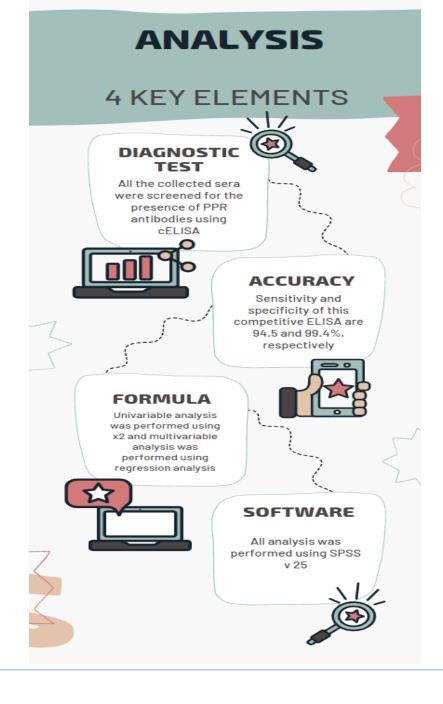




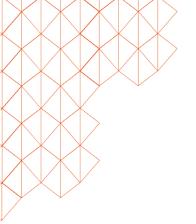


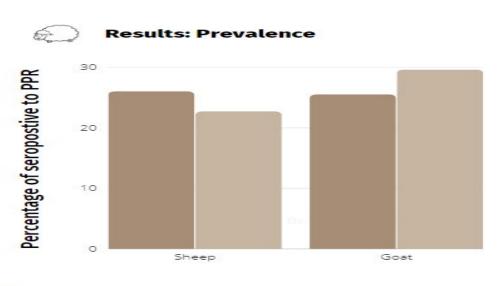








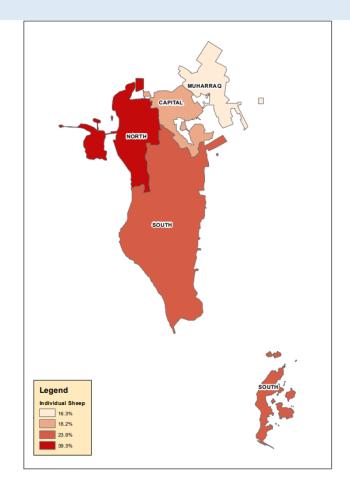


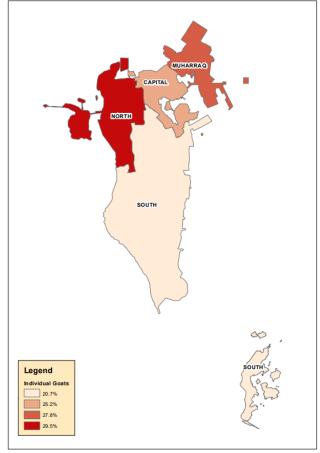




Results: Map

 The Northern governorate showed the highest prevalence (p < 0.05) of PPR seropositive sheep and goats.





Results: Risk factors analysis

- Sheep and goats from the Northern governorate are <u>more likely to be</u> <u>seropositive to PPR</u>
- On the <u>individual animal level, the univariable analysis</u> suggested; age (< 12 months), sex (male), and health status (weak animals)
- On the <u>flock/herd level, the multivariable logistic regression analysis</u> identified large flock/herd size and semi-intensive farming

