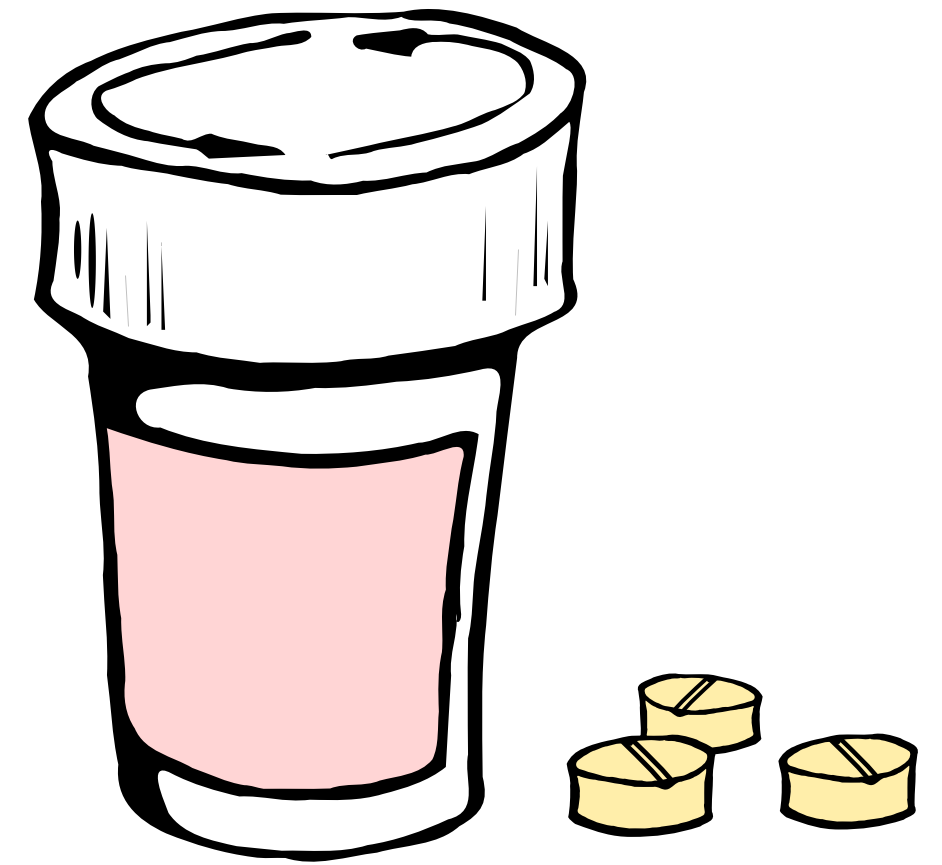
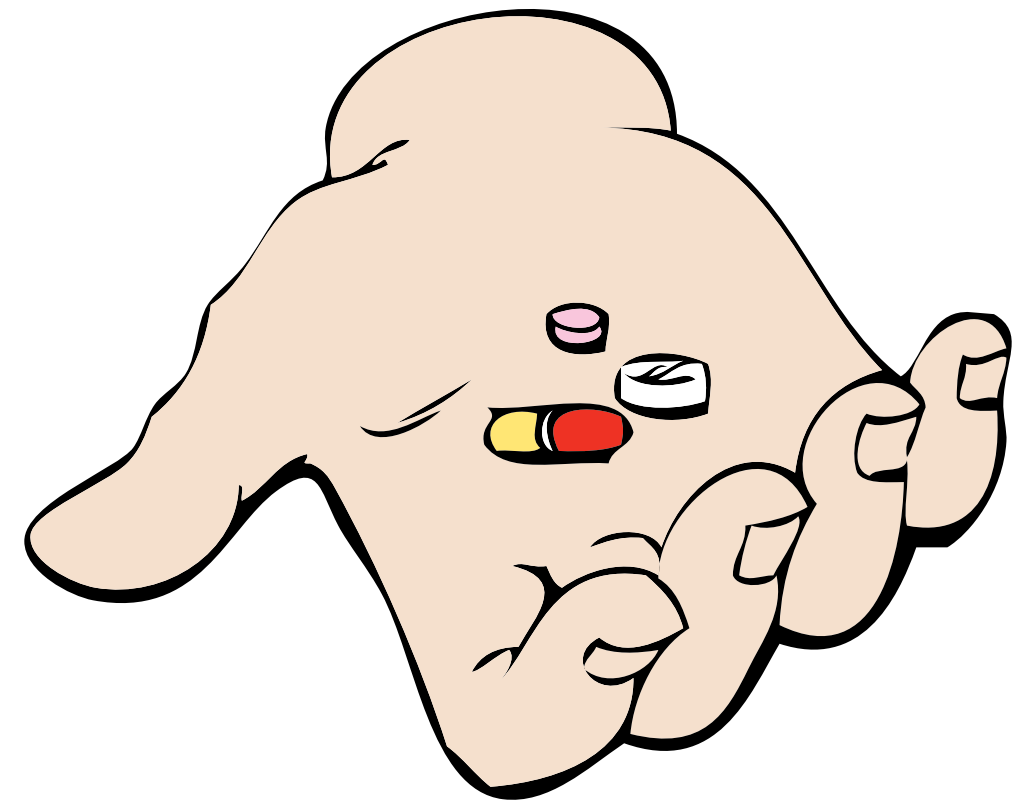



EVALUATING THE VETERINARIAN ROLE IN ONE HEALTH APPROACH AT ANTIMICROBIAL RESISTANCE PERSPECTIVES, JORDAN.

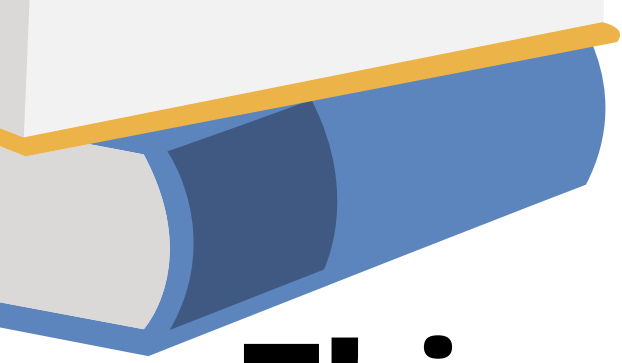
Presenter Randa Bazzi

Authors : Randa Bazzi, Akram Alaboudi, Racs Gabor



A close-up photograph of a variety of pharmaceuticals, including round tablets in shades of pink, white, yellow, and red, and capsules in blue, yellow, and white. The pills are scattered on a plain white background, with some showing signs of wear or discoloration.

Veterinarians play a critical role in regulating and supervising the use of antimicrobials and offering professional advice on their use to farmers and animal owners.

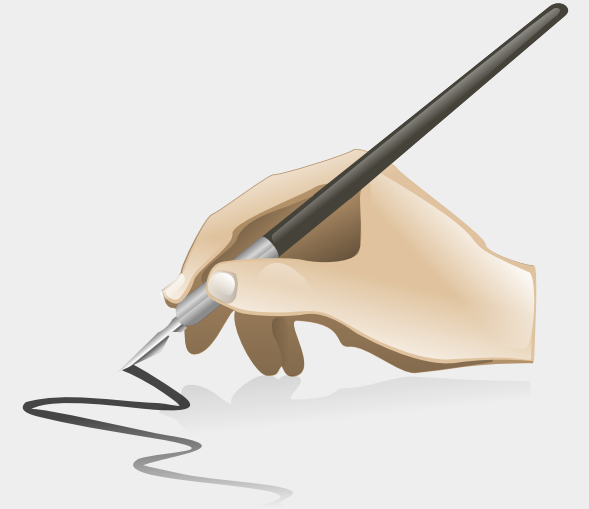


This cross-sectional study aims to evaluate the knowledge; the practices and attitudes of the veterinarian in Jordan to tackle antimicrobial resistance (AMR). as well as it summarized the registered veterinary pharmaceutical products between 2017-2020.

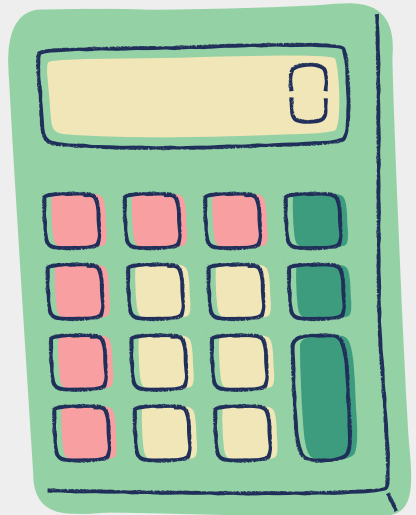




The study area :The Hashemite Kingdom of Jordan



The sample size : The recruited sample size of this study is 215.



Calculations: Rasoft® application was used to calculate it, by submitting the total number of the registered veterinarian, which is 1649 after excluding the dead, with confidence 95% degree of confidence and 5% as an acceptable rate of error. The respondent participants are 119, four of them did not complete the survey and were excluded from the study, only 115 participants were included.

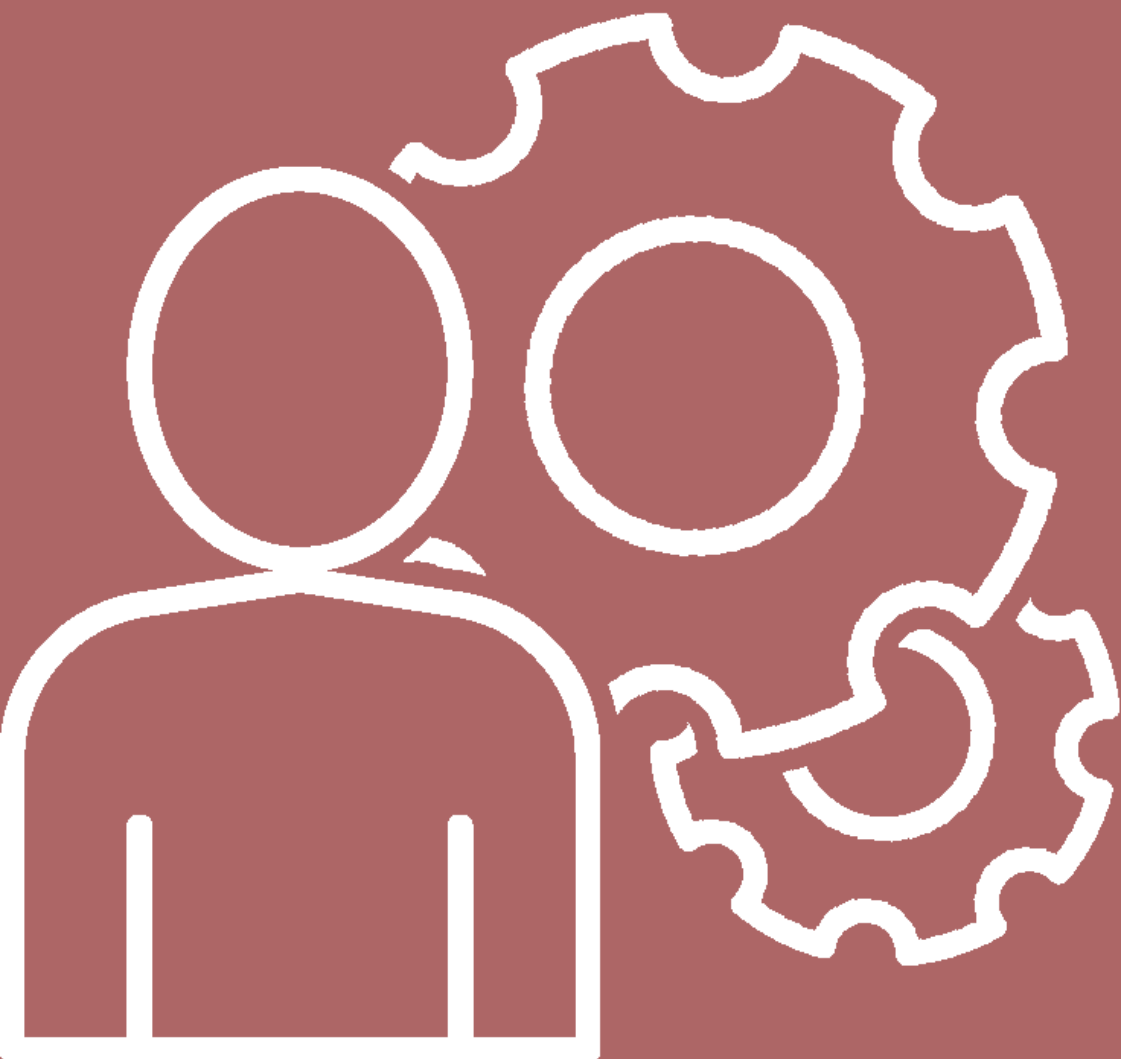


- **The collected results were coded; entered and analyzed using XLSTAT® 2021.**
- **The data were divided into four sections: Demographics, Knowledge, Practice, and Attitudes., and then examined descriptively.**
- **A bivariant analysis was performed using Pearson's Chi-square , to assess the relationship between one of the practices outcome variable “participating in AMR continuous educational material” with only the following selected variable “veterinary vocational sector : private, public and academic.**

The registered veterinary pharmaceutical drugs from 2017-2020 were directly requested from the JVA

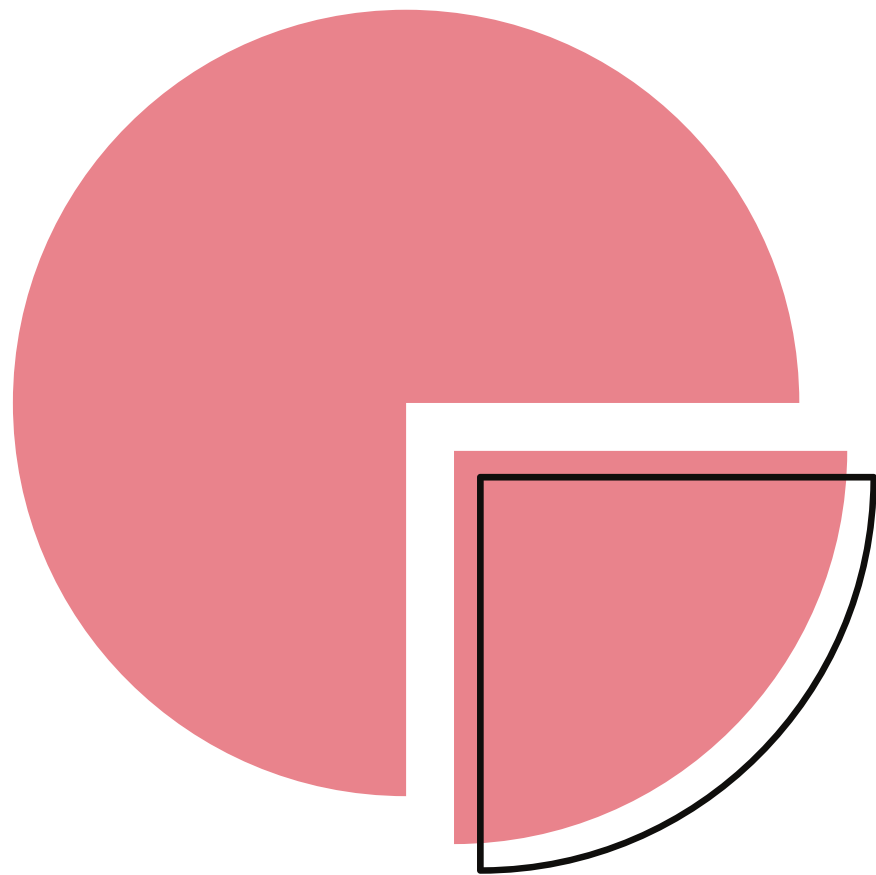


- **manually counted according to the registration number.**
- **categorized into antibiotic (per oral; parenteral and intramammary only (topical route of administration was not included), antiparasitic and alternatives to antibiotics.**



- **Data were entered and quantitatively analysed using Microsoft® Office Excel 2010.**

Results



KAP survey

- Only 87.83% of the respondents are residing in Jordan
- The average of their knowledge was 84%,
- Only 51.98% have constantly done practices toward AMR and recommending the customers (farmers, owner, etc..) to practice good animal husbandries was frequently reported
- Only 68.70% believed that the misuse and overuse of antimicrobial by quacks is the most contributing challenge.
- The assessed results of Chi- square test of independence for participating in AMR continuous education indicated a significant difference across the 98 responses level and the participant vocational sector variable (private, public and academic) , $\chi^2 (df 2, N= 98)=8.34$, $p=.015$.

Results

The percentage of the registered and re-registered veterinary pharmaceutical drugs between, 2017 -2020.

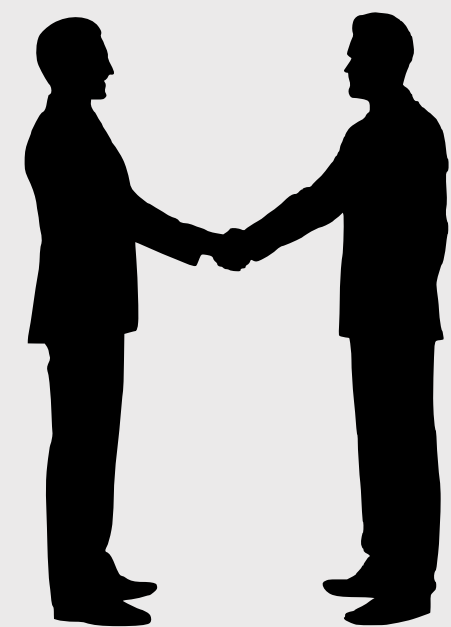
- Colistin and fluoroquinolones are used as a growth promoter
- Ionophores, such as monensin; maduramycin; salinomycin, appeared to be registered, as it fed to the livestock as a growth promotor.
- Cephalosporins are only administered in the parenteral route
- Total registered phytobiotocs was around 1% from the total registered drugs



? Conclusion

The veterinary stewardship in the National Action Plan needs a strategic intervention to be empowered in :

- Implementing antimicrobial resistance continual educational program to enhance their advisory skills.
- Obligating legislations that exclusively authorize the veterinarian in prescribing antimicrobial and under their supervision especially for reserved groups .
- Developing surveillance systems to monitor the antimicrobial consumption and to include the data of zoonotic antimicrobial susceptibility tests, as they are needed.



THANK
you