AgSURS - Reviewer 1 View

Abstract Title	Antibiotic Sensitivity test on Nasal Swabs Collected from Calves at Ridiyagama NLDB Dairy ~~farm~~ Farm: —A ~~case~~ Case Study~~.~~
Abstract Body	Calves Pneumonia is critical and widespread diseases among calves. It leads to losses in the dairy sector. Antibiotics are recommended for this disease, which leads to the development of resistance against the antibiotic, which harm human health. Predisposing factors should identified to mitigate this condition.This study aimed to identify antibiotic sensitivity of calves' pneumonic condition at Ridiyagama NLDB dairy farm and detect susceptibility of these isolates to ten commonly used antibiotics ~~Norfloxacin~~ norfloxacin (NX 10mcg), ~~Enrofloxacin~~ enrofloxacin (EX 10mcg), ~~Streptomycin~~ streptomycin (S 25mcg), ~~Doxycycline~~ doxycycline ~~Hydrochloride~~ hydrochloride (DO 30mcg), ~~Trimethoprim~~ trimethoprim (TR 25mcg), ~~Nalidixic~~ nalidixic Acid (NA 30mcg), ~~Ciprofloxacin~~ ciprofloxacin (CIP 30mcg), ~~Ampicillin~~ ampicillin (AMP 10mcg), ~~Amoxicillin~~ amoxicillin (AMX 30mcg) & ~~Tetracycline~~ tetracycline (TE 30mcg). Based on clinical observations, swab~~s~~ samples (n = ?) were collected from infected bull~~s~~ and heifer calves of 2 to 8 weeks. Swab~~bed~~ samples were ~~dipped~~ inoculated in lactose agar broth media and then spread on prepared Muller Hinton Agar. Kirby—Bauer disk diffusion method was conducted, and the inhibition zone~~'s~~ diameters were measured. It exhibited that two samples were resistant to all antibiotic types ~~(sample numbers 15800 & 16024)~~. ~~In one sample (sample number 15390), there was~~There was a sample with an inhibition zone around the NX 10mcg disc. Of the 10 samples, only one had ~~an~~ inhibition zone~~s~~ around all the antibiotic discs. All ~~the~~ other samples did not have an inhibition zone for Trimethoprim (TR 25mcg), Ampicillin (AMP 10mcg), and Amoxicillin (AMX 30mcg) and showed a high resistance against those antobiotics. ~~The causative agents of calves' Pneumonia at NLDB Ridiyagama Farm are highly resistant to Trimethoprim (TR 25mcg), Ampicillin (AMP 10mcg), and Amoxicillin (AMX 30mcg).~~ In conclusion, ~~Since~~ the causative microorganism~~s~~ ~~shows~~ showed a sensitivity to ~~Norfloxacin~~ norfloxacin ~~(NX 10mcg)~~ and ~~Ciprofloxacin~~ ciprofloxacin ~~(CIP 30mcg),~~ ~~both~~ and ~~antibiotics~~ those can be used as a quick remedy to mitigate ~~Calves'~~ calves Pneumonia pneumonia at the NLDB dairy farm, Ridiyagama. The effectiveness of ~~both~~ norfloxacin and ciprofloxacin ~~antibiotics~~ and their combination~~s~~ with other antibiotics should be further investigate~~d~~ to get the best results.
Key Words (5 Words)	Antibiotic Resistance, ABST, Antibiotics, Calf Pneumonia
Abstract ID	ANB1176
Findings of this study (r1)	.... 1) Make a significant contribution to existing knowledge 2) Make a marginal contribution to existing knowledge 3) Contain conceptual errors/faulty judgments 4) Confirm known results
Title of the abstract(r1)	.... 1) Is appropriate to the thematic area and descriptive 2) Needs improvement
If needs more improvements for "Title" please specify here(r1)	
The content of the abstract(r1)	.... 1) Is clear and concise

Commented [R1]: Don't use uppercase letters for these antibiotics

Commented [R2]: Give the sample number.

Commented [R3]: Just the sample number is important to the reader in an abstract. It may be important in a full paper once the details of sampling is given.

Commented [R4]: Use the abbreviation. What is the purpose of defining the abbreviation above?

Commented [R5]: In the conclusion section, you can avoid the abbreviation as it is easy for the reader.

	2) Needs improvements
If needs more improvements for "Abstract" please specify here(r1)	
Recommendation(r1)	.... 1) Accept in the present form with minor editorial corrections 2) Accept with minor corrections 3) Accept with major revisions cited 4) Reject
Please justify reasons for If rejection(r1)	
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