RESISTANCE TO AVAILABLE ANTIBIOTICS IN LACTATING COWS WITH MASTITIS

(PRJ-0110-2016)

University of Pretoria (ML van der Leek, Principal Investigator)

Quarter 1 2016/2016 (January 2016 till March 2016)

Project goals

Goal 1 - Mastitis survey among SA milk producers; herd visits for verification of survey data; collection of additional data; analysis of the survey data; and writing up the SCC study: January to June 2016

Achievements

Following input from the RPEC the survey was being finalized with anticipated release early in the 2nd quarter.

No Non-achievements / underperformance has been reported

Goal 2 - Testing of mastitic milk samples at the milk laboratory of the Faculty of Veterinary Science, Onderstepoort (ongoing)

Achievements

The Milk Laboratory tested 82 samples, representing 28 herds, in the 1st quarter. A total of 240 samples have been tested to date. Of note is that the same organism isolated from different cows on the same farm sometimes show different resistance patterns. As examples (isolates were tested at the same time by the same lab staff):

	TY	P	AMP	OB	OT	CL	CNM
Coag neg Staph	2+	1+	2+	4+	1+	2+	3+
	3+	4+	4+	3+	4+	4+	4+
	3+	1+	1+	1+	1+	3+	3+
Strep uberis	3+	4+	4+	3+	3+	3+	4+
	1+	4+	4+	1+	1+	3+	4+
	1+	3+	4+	2+	1+	3+	4+
	3+	4+	4+	4+	4+	4+	4+
	TY = Tylocin						
	P = Penicillin G						

	AMP = Ampicillin					
	OB = Cloxacillin					
	OT = Oxytetracycline					
	CL = Cephalexin					
	CNM = Cephalonium					

There was adequate coordination with KZN allowing for the exchange of organisms.

No Non-achievements / underperformance has been reported

Goal 3 - Collection and collation of microbial isolation and sensitivity testing data from other laboratories (ongoing)

Achievements

Although initial contact has been made with several laborotaries this portion of the project is yet to 1) to identify an appropriate graduate student & 2) the focus remained on completing the survey.

No Non-achievements / underperformance has been reported

Goal 4 - Analysis of Somatic Cell Count (SCC) fluctuation data (ongoing)

Achievements

The Logix & weather were successfully merged. Analysis was initiated with the start of multiple runs to find a best fit model.

No Non-achievements / underperformance has been reported

Income and expenditure statement

Income and expenditure statement	A0Y232 - Milk SA Financial Report - 31 Mar 2016.pdf
Unnecessary spending during period	No

Popular Report

No file has been uploaded

Additional documentation

A0Y232 - Milk SA Financial Report - 31 Mar 2016.pdf

Statement

Levy funds were applied only for the purposes stated in the contract	Yes

Levy funds were applied in an appropriate and accountable manner	Yes
Sufficient management and internal control systems were in place to adequately control the project and accurately account for the project expenditure	Yes
The information provided in the report is correct	Yes