Journal of Dairy Science®

HOME HELP FEEDBACK SUBSCRIPTIONS ARCHIVE SEARCH TABLE OF CONTENTS

Journal of Dairy Science Vol. 78 No. 7 1477-1488 © 1995 by <u>American Dairy Science Association</u> ®

Use of Prostaglandin ${\rm F}_{2\alpha}$ as a Postpartum Reproductive Management Tool for Lactating Dairy Cows

J. W. Pankowski 1, D. M. Galton 1, H. N. Erb 1, C. L. Guard 1, and Y. T. Gröhn 1

¹ Cornell University, Ithaca, NY 14850

This study compared three programs for reproductive management of the postpartum period for reproductive performance and net economic benefit within three dairy herds (n = 1624 cows). Cows on one program received PGF $_{\alpha}$ injection at 25 to 32 d postpartum for reproductive therapy, and cows on a second program received additional PGF $_{2\alpha}$ at 39

to 46 d postpartum for synchronization of estrus. These programs were compared with a postpartum program of rectal palpation based on veterinary intervention. Survival analysis indicated that cows receiving $PGF_{2\alpha}$ for reproductive therapy and synchronization of estrustical structures.

had an 11% higher rate of first AI and 10% higher rate of pregnancy than did cows receiving the rectal palpation. No differences existed

between the cows receiving rectal palpation and those receiving the $PGF_{2\alpha}$. Because overall conception rates and conception rates at first AI did not differ among programs, the improved reproductive performance of cows receiving $PGF_{2\alpha'}$ for both therapy and synchronization may be attributed to greater synchronization of estrus, which resulted in improved estrus detection. A partial budget indicated that the $PGF_{2\alpha}$ programs were less expensive than the rectal palpation program. When $PGF_{2\alpha}$ was used for postpartum reproductive therapy and synchronization of estrus, reproductive performance and net economic benefit were increased compared with those of the other programs.

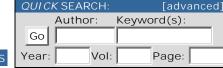
Key Words: prostaglandin ${\rm F}_{2\alpha}$ • reproductive efficiency • reproductive programs

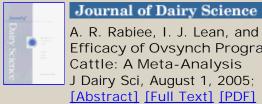
Submitted on June 24, 1994 Accepted on February 15, 1995

	This Article
n	Full Text (PDF)
ina	Alert me when this article is cited
ıng	Alert me if a correction is posted
	Services
1	Similar articles in this journal
ard ¹ ,	Similar articles in PubMed
	Alert me to new issues of the journal
	Download to citation manager
	C Get Permissions
of the	Citing Articles
	Citing Articles via HighWire
	Citing Articles via Google Scholar
rogram	Google Scholar
/e	
at 39	Articles by Pankowski, J. W.
s were	Articles by Gröhn, Y. T.
were	Search for Related Content
	PubMed
-	PubMed Citation
estrus	Articles by Pankowski, J. W.

Articles by Gröhn, Y. T.

This article has been cited by other articles:





Journal of Dairy Science HOME A. R. Rabiee, I. J. Lean, and M. A. Stevenson Efficacy of Ovsynch Program on Reproductive Performance in Dairy Cattle: A Meta-Analysis J Dairy Sci, August 1, 2005; 88(8): 2754 - 2770.

HOME HELP FEEDBACK SUBSCRIPTIONS ARCHIVE SEARCH TABLE OF CONTENTS

Copyright © 1995 by the American Dairy Science Association ®.