

INTRODUCTION

locide® is a novel, iodine-based, topical microbicide developed for vaginal use. Current clinical studies are focused on safety and acceptability of a single application to prevent intrapartum transmission of group B streptococcus (GBS) from mother to baby. Current strategies for prevention of early-onset GBS sepsis in the neonate require screening at 35-36 weeks and antibiotic administration during labor. The episodic nature of maternal GBS colonization and increasing antibiotic resistance make this approach suboptimal. Availability of a safe and effective microbicide for intravaginal use during labor would simplify prevention of this severe neonatal infection

OBJECTIVES

To determine if locide[®] Vaginal Gel is safe for use as a single intravaginal dose in healthy nonpregnant women.

To determine if women find locide[®] Vaginal Gel acceptable for this use.

METHODS

Following FDA approval of the IND and IRB approval of the research protocol, Phase 1 human safety studies were initiated. Nonpregnant women proven free of vaginal lesions and sexually transmitted disease were included (those with STDs or vaginal lesions were treated and excluded from further participation).

CONTACT

psiegel@biodevcorp.com

Study Visits

1 Screening visit (STD tests and exam for lesions)

- 2a Pretreatment exam and cultures *** locide[®] vaginal gel treatment
- 2b 1 hour Post-treatment exam and cultures
- 3 Day 1 Post-treatment exam and cultures
- 4 Day 7 Post-treatment exam and cultures

Study Procedures

Testing Performed at Each Visit

- Hematology
- Serum Chemistry
- > Urinalysis

٦

- Thyroid Function Studies
- Vaginal Cultures
- Vaginal Inspection

esting Performed at Specific Visits Only	
STD testing (Visit 1)	
Vaginal Biopsy (Visits 2a & 2b)	
Product Satisfaction Survey (Visit 4)	



16 women completed the study

Gynecologic Symptomatology

	Pretreatment (Visits 1 or 2a)	Post-treatment (Visits 2b, 3 or 4)
Vaginal Itching	0	0
Vaginal Odor	1	1 (same)
Vaginal Irritation	0	2 (mild)
Vaginal Discharge	2	2 (different)
Abdominal Pain	0	1 (mild, crampy)

Impact on Bacterial Vaginosis Score



Microbicides 2004 • Hilton London Metropole • March 28 - 31, 2004

Clinical Safety and Acceptability of locide[®] Vaginal Gel JM Piper¹, P Siegel², B Bhatt², J Morrison², and G Siegel² ¹University of Texas Health Science Center at San Antonio, Texas,

²Biomedical Development Corporation, San Antonio, Texas



RESULTS

Results of visual inspection:

2 women with mild vaginal inflammation at 24 hours, both resolved by final visit

Results of Safety Testing:

Hemotology, serum chemistry, urinalysis, and thyroid function results remained unchanged from baseline values

CONCLUSIONS

A single application of locide[®] Vaginal Gel in nonpregnant women does not significantly alter baseline values or vaginal appearance. Women exposed to the gel find it acceptable for personal use and would recommend it to their friends if available for vaginal cleansing.

ACKNOWLEDGEMENTS

Funding was provided to Biomedical Development Corporation by the National Institute of Child Health and Human Development - SBIR 5R44HD034990