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NOVEL AND UNIQUE DUAL STRATEGY FOR HIV PREVENTION

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INTRODUCTION

AIDS is the worst health crisis in human history. No cure or vaccine, and AIDS continues to spread despite the use of the condom. Microbicides not only failed, but also increased HIV transmission. Microbicides irritation overtime, provokes an immune response that increased HIV invasion.

OBJECTIVE

- A) To kill the HIV virus before it enters the cervical and vaginal cells.
- B) To shield the cervix from STI/HIV invasion and microbicides irritation.
- C) To deliver the microbicide on the vaginal side, to kill the HIV virus upon deposition into the vagina.

MATERIALS AND METHODS

A cervical barrier to shield the cervix –the portal of entry for STI/HIV and site of CCR-5 CXCR-4 receptors, and delivers the microbicide on the vaginal side. A microbicide, such as PRO 2000 0.5% that proven to kills the HIV virus. Ten women applied the microbicide mixed with dye into the vaginal side of the FemCap, and inserted it into their vaginas. The cervix and vagina were photographed before, during, and 6 hours after removal of the FemCap.

RESULTS

The bulk of the microbicide/dye came out with the device without staining the cervix, while the vaginal walls were stained with the dye.

CONCLUSION

This research has demonstrated that the dual strategy of the FemCap, in combination with microbicide can deliver the microbicide on the vaginal side and yet spares the cervix from microbicide irritation. This also ensures immediate contact of the microbicide with the HIV before it enters the cervical or vaginal tissues.