



Centers for Disease Control and Prevention



ZIKA VECTOR CONTROL STRATEGIES THE PUERTO RICO EXPERIENCE

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ZIKA PREVENTION KITS (ZPKs)

- Distribution
 - WIC clinics
 - Obstetricians
 - Drugstores with pregnancy kit purchase
- Components
 - Insect repellent: DEET 25%
 - Condoms
 - Bed nets
 - Educational materials
 - *Other components*



TEMPORARY SCREENING KITS

- Viability
 - Wall and window/door styles, frames and surfaces
 - Financing
- Acceptability
- Coordination of services
- Pilot screening interventions



Insecticide Use

- Vector surveillance
 - Insecticide resistance patterns
- Delivery methods
 - ULV
 - Indoor/outdoor residual spraying
 - Aerial spraying
 - Larviciding
- Acceptability: target and non-target risk populations
- Federal and state regulations/permits
- Rollout logistics
 - Outsources versus state vector control programs
 - Engaging high risk populations and outreach community groups
 - Coordination of services

BEHAVIORAL AND MESSAGING STUDIES

- **Zika Prevention Kit (ZPK)**
 - Evaluation ZPK among pregnant women in Puerto Rico
- **Interventions**
 - Vector control strategies and personal protective behaviors
 - Acceptability
- **Messages**
 - Messaging
 - Spokespersons

COMMUNICATION – VECTOR CONTROL

- Educational Messages for Vector Controls Interventions
 - Script – Service Providers
 - Q & A – Customer
 - Product – Customer
- Media – New Insecticide
 - Press Release
 - Press Conference

SURVEILLANCE SYSTEMS & EPIDEMIOLOGY

- Passive arboviral diseases surveillance system (PADSS)
- Zika Active Pregnancy Surveillance System (ZAPSS)
- Birth Defects: Congenital microcephaly
- Guillian-Barré syndrome passive surveillance system (GBSPSS)
- Blood transfusion associated Zika infections

LABORATORY CAPACITY

- CDC's developed Trioplex PCR testing
 - DENV, CHIKV, ZIKV
- IgM testing
 - ZIKV, DENV*

*Dengue endemic areas high rates of cross reactivity

UNINTENDED PREGNANCY PREVENTION

- Remove barriers to contraception: long acting reversibly contraceptives (LARCs)
 - Cost/ reimbursement rates
 - Increase access
- Education
 - Health care provider training
 - Women and men of reproductive age

“We don’t know how to prevent adverse birth outcomes due to Zika, but we do know how to prevent unintended pregnancies.” -Dr. Thomas Frieden

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The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.

