



El Paso County Public Health Rapid Human Immunodeficiency virus (HIV)/Syphilis Testing

Presented by:

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Program Details

- Rapid sexually transmitted infection (STI) testing in our local detention center
 - Incarcerated women of reproductive age (18-45 years)
 - Incarcerated identified partners of positive syphilis cases
 - Connecting to care in and beyond incarceration



Tests Offered

- Rapid syphilis/HIV testing using Chembio's combination test
 - Public health laboratory
 - RPR Titers
 - Confirmatory treponemal antibodies and HIV
- Gonorrhea and Chlamydia (GC/CT)
 - Public health laboratory
 - Three site testing
- Urine pregnancy tests

CHEMBIO HIV/Syphilis Combo Test

- Food and Drug Administration (FDA) approved and Clinical Laboratory Improvement Amendment (CLIA) waived
- Detection of HIV1/2 and treponemal antibodies
- Higher sensitivity: >99 percent for HIV and >94 percent for T. pallidum
- 15-minute dual rapid point of care testing
- Objective results using a micro reader ¹



Our Experience

Benefits

- Same-day treatment
- Quick and reliable results
- Minimal blood required
- Can be used in other capacities:
 - Community outreach events
 - Reproductive Health Clinic
- Compliance with public health order²

Drawbacks

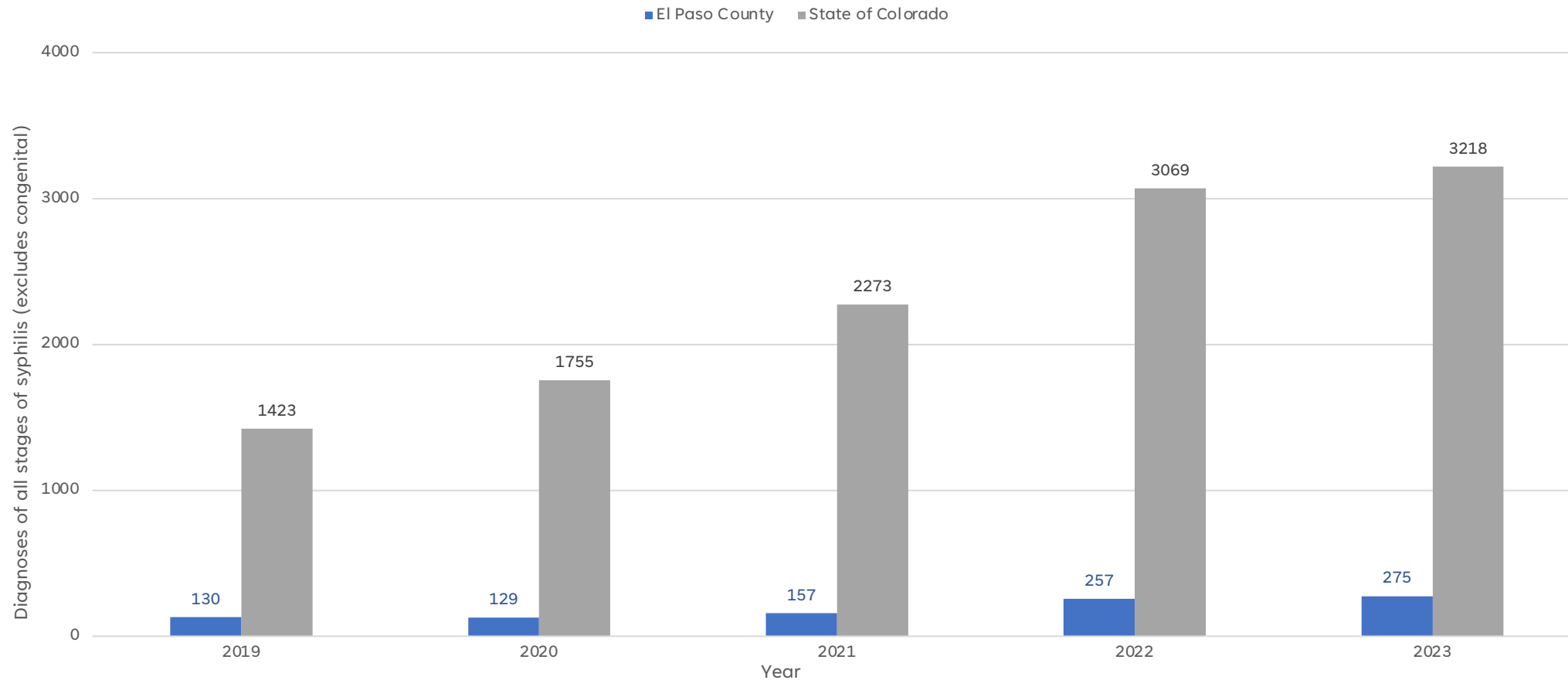
- Biologic false positives³
 - Pregnancy
 - Autoimmune disorders (HIV)
 - Intravenous drug use (IVDU)
- False positive rate only two percent

Program Data

- Roughly 12 months of screening
- 538 total patients seen
 - 445 rapid HIV/Treponemal Pallidum (TP)
 - Eight rapid HIV only
 - 943 GC/CT tests
 - 70 urine pregnancy tests
- 10 percent positive syphilis rate
 - Six percent new diagnosis
 - Four percent with previous history
 - 95 percent completion of therapy
- 10 percent positive GC and/or CT
 - 92 percent completion of therapy

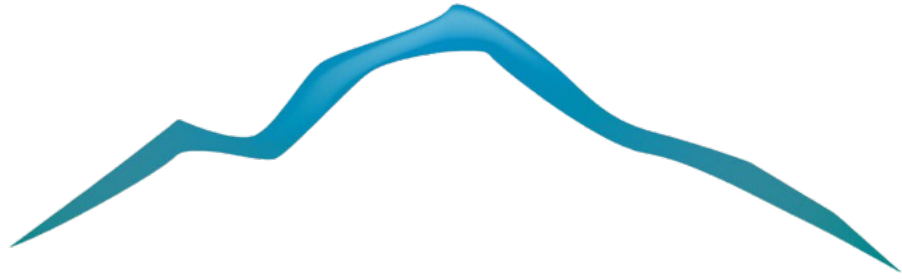
Syphilis Trends in Colorado⁴

Annual counts of all stages of syphilis (excludes congenital), 2019-2023



Questions?





Sources:

1. <https://chembio.com/products/dpp-hiv-syphilis-usa/>
2. <https://cdphe.colorado.gov/sexually-transmitted-infections-and-hiv/prevention-and-care/syphilis-in-colorado/syphilis-and#:~:text=Syphilis%20testing%20and%20the%20law&text=Public%20Health%20Order%2024%2D01,between%2028%2D32%20weeks>
3. <https://www.cdc.gov/mmwr/volumes/73/rr/rr7301a1.htm>
4. <https://cohealthviz.dphe.state.co.us/t/STIHIVViralHepatitisPublic/views/PublicFacingTrendTables/PublicFacingTrendTables?%3Aembed=y&%3Aiid=1&%3AisGuestRedirectFromVizportal=y>