SMALL TOWN/ BIG PROBLEMS

Recovering From an HIV Outbreak

BRITTANY COMBS, RN BSN
SCOTT COUNTY HEALTH DEPARTMENT
1296 N. GARDNER ST
SCOTTSBURG, IN 47170
812-752-8455 EXT: 2
SCOTT COUNTY BEFORE

• Rural county in southeastern Indiana with:
  • High rates of unemployment (9%)
  • Not completing high school (21%)
  • Poverty (19%)
  • Ranked 92 out of 92 in Many health rankings

• 24,000 population
  • 4500 in Austin
  • CDC estimates: 500 of those are IV Drug Users
WARNING SIGNS

• High rates of Hepatitis C
• Endocarditis
• Abscesses
• Overdoses
• Limited testing sites for HIV and STD's
• Very few on insurance
• Limited addiction services
• Limited access to services
• High number of DCS cases related to parents who inject drugs
HIV HITS HOME

• CURRENTLY 237 CASES OF HIV

• Higher incidence of HIV in Austin than “any country in Sub-Saharan Africa” according to former CDC Director Thomas Frieden.
Epidemic Curve 9.24.2015
PHYLOGENETICS

• HIV specimens
  • Almost all analyzed specimens map to one cluster
  • Acquired within past 6 months

• HCV specimens
  • Multiple strains and clusters
  • HCV has been repeatedly introduced over years to decades
  • Many infections are recent, some older
<table>
<thead>
<tr>
<th>Challenge</th>
<th>Intervention</th>
</tr>
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<tbody>
<tr>
<td>Very few insured/limited access to</td>
<td>One-stop shop: vaccines, testing, care coord, insurance, transportation</td>
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<tr>
<td>services</td>
<td></td>
</tr>
<tr>
<td>No HIV/HCV care</td>
<td>IU doctors, Foundation Family Med., NP @ Lifespring, testing, PrEP</td>
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<tr>
<td>Limited HIV awareness</td>
<td>You Are Not Alone campaign, infographics, press briefings, Jeannie White</td>
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<tr>
<td></td>
<td>Ginder event at Austin HS</td>
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<tr>
<td>Syringe exchange illegal</td>
<td>Issue executive order and new law</td>
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<tr>
<td>Limited addiction services</td>
<td>Raise MAT awareness, training to prescribe Suboxone®, designate local mental</td>
</tr>
<tr>
<td></td>
<td>health provider as FQHC, SAMHSA collaboration</td>
</tr>
<tr>
<td>Focus on HIV infection</td>
<td>HCV effort gaining momentum as HIV epidemic better controlled</td>
</tr>
</tbody>
</table>
BACKGROUND - INTERVENTION

Mobile Outreach

Clean syringes and supplies for 1 week
Disposal of used syringes
Health education on safe injection
HIV counseling and testing
HIV prevention and condoms
Referral to

Fixed Site

Pre-exposure prophylaxis
Antiretroviral therapy
Mental health services
Substance abuse treatment
GET HEALTHY
SCOTT COUNTY
COALITION

Get Healthy Scott County | Founded in 2010
Scott County, Indiana

CEASe of Scott County | Founded in 1989
|Scott County, Indiana

THRIVE: Founded 2019
# FUTURE GOALS
**GET HEALTHY SCOTT COUNTY**

<table>
<thead>
<tr>
<th>Area</th>
<th>Goal</th>
</tr>
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<tbody>
<tr>
<td>Programming, Education and Support for Families and Community</td>
<td>All Scott County residents will embrace a culture of recovery for individuals and families.</td>
</tr>
<tr>
<td>Multiple Paths for Treatment and Recovery</td>
<td>Every person affected by substance misuse will have appropriate knowledge and access to treatment.</td>
</tr>
<tr>
<td>Support Groups</td>
<td>There will be two recovery-oriented support groups happening every day in Scott County.</td>
</tr>
<tr>
<td>Youth</td>
<td>Every child and teen in Scott County will have access to prevention, intervention, education and recovery services.</td>
</tr>
<tr>
<td>Transportation</td>
<td>All Scott County residents will have access to and knowledge of the transportation system available in Scott County.</td>
</tr>
<tr>
<td>Housing</td>
<td>All Scott County residents will have access to and knowledge of safe and affordable housing.</td>
</tr>
<tr>
<td>Job Training</td>
<td>We will have a healthy work force that is able to find appropriate skill-level jobs.</td>
</tr>
</tbody>
</table>
CEASE OF SCOTT COUNTY

• Acquired the Drug-Free Communities Grant in late 2016 (funded through ONDCP & SAMHSA)

• Strategic Prevention Framework Model is being used to pinpoint root causes and local conditions for youth substance misuse

• Have identified Adverse Childhood Experiences as a priority root cause, developed strategies focused on building RESILIENCY and are initiating implementation
T4SC: TOGETHER FOR SCOTT COUNTY FROM DARKNESS TO DELIVERANCE PRAYER WALK, SUMMER 2015 DURING THE SCOTT COUNTY HIV EPIDEMIC.
GET HEALTHY SCOTT COUNTY
T4SC: TOGETHER FOR SCOTT COUNTY FROM DARKNESS TO DELIVERANCE DAY OF HOPE MARCH WITH OVER 500 PARTICIPANTS, AUSTIN, JULY 25, 2015.

GET HEALTHY SCOTT COUNTY
The mission of the Fed Up! Coalition is to create one voice calling for an end to the epidemic of addiction and overdose deaths attributed to opioids (including heroin) and other prescription drugs.

Get Healthy Scott County
TRAINING, EDUCATION & EVENTS

ACTIVITIES

• INSPECT Training (Indiana’s Rx Monitoring Program) – 50 professionals trained 2016 to date
• Overdose Lifeline – Community based Substance Use Disorder and naloxone training (60 community attendees)
• HIV education workshops
• All students from 3rd thru 12th grade receive evidenced-based prevention education at school
CAMPAIGNS: STAND WITH US

#StandWithUs

“My community is my home. The people. The places. They make me who I am. It’s something I love. It’s a place I want to make better. That’s why we’re coming together, standing up for our community, making our voices heard. Most of us are avoiding the dangers of prescription drug abuse. Each of our stories, our memories, creates a picture of who we really are.

WE are the future of Scott County and we will STAND and be heard!”
SCOTTSBURG HIGH SCHOOL NEW TECH STUDENTS "TAKE THE PLEDGE" DURING OUR "STAND WITH US" POSITIVE SOCIAL NORMS CAMPAIGN: "MOST OF US ARE AVOIDING THE DANGERS OF RX DRUG ABUSE."

GET HEALTHY SCOTT COUNTY
"STAND WITH US" POSITIVE SOCIAL NORMS CAMPAIGN: "MOST OF US ARE AVOIDING THE DANGERS OF PRESCRIPTION DRUG ABUSE."

GET HEALTHY SCOTT COUNTY
Stand With Us

www.whatsyoursideeffect.org
TREATMENT SERVICES EXPANDED

- LifeSpring and Centerstone opened up offices in Austin
- Centerstone expanded offices in Scottsburg
- LifeSpring began Recovery Works in Scott County Jail
- Foundation Family Medicine Expanded Services
SCOTT COUNTY Recovery IS BEAUTIFUL
RECOVERY IS BEAUTIFUL

Tony Amick
Production Supervisor
April 26, 2012

Debbie Whitlock
Nurse
July 9, 2002

Tim Williams
Minister/Peer Recovery Coach
Nov. 8, 2011

Kathy Dean
HIV Tester/Peer Recovery Coach
March 17, 2015

Jacob Howell
Construction
June 2, 2015

Jeremy and Linda Thomas
Carpenter and Stay-at-Home Mom
July 1, 2010 and Dec. 26, 2013

Evan Hutchinson
Executive Director, Fort Wayne Salvation Army Adult Rehabilitation Center
Oct. 12, 2014

Anthony Pastrick
Linkage to Care Coordinator/Peer Recovery Coach
February 3, 2015
SCOTT COUNTY'S TRAINED PEER RECOVERY COACHES WHO ARE THE LEADERS OF SCOTT COUNTY'S RECOVERY COMMUNITY.
SCOTT COUNTY AFTER

• RATES NOW:
  • Unemployment 3.8% (from 9%)
  • Not completing high school
    15% (from 21%)
  • Poverty 16.3% (from 19%)
  • Ranked 91 out of 92 in health rankings
LESSONS LEARNED

• Beware of the warning signs:
  • Hep C cases
  • Endocarditis cases
  • Abscesses
  • Increase in DCS cases related to drugs

• Trust Value
  • They must trust you in order to receive your help
  • Takes time and word of mouth
LESSONS LEARNED

• Expect the unexpected
  • Outbreak potential for HIV is high in communities where HCV prevalence is high among persons who inject drugs
  • Encourage health care providers to promptly report new HIV and HCV cases
  • Become familiar with local data so any increases are easily identified before an outbreak occurs
  • Look for clusters of HIV and HCV
LESSONS LEARNED

• Prepare in advance
  • Identify community partners and leadership for assistance, services, and potential response
  • Increase testing in high-risk communities
  • Consider PrEP among high-risk individuals in these communities
  • Increase awareness/availability of addiction recovery services and MAT
  • SEPs must be part of comprehensive response and embraced by the community
MOVING FORWARD

• Expand HIV/HCV testing efforts to detect early signals
  • Routine HIV testing at “sensitive” venues (e.g., jails, addiction service facilities, EDs)
  • Active outreach testing to at-risk population (e.g., PWID)

• Conduct studies to gather additional risk factor data

• Evaluate SEP

• Gain more funding for NEP operations and supplies

• Build sustainability and develop long-term solutions to improve public health infrastructure and socioeconomic disparities
CONTACT INFORMATION

• Brittany Combs, RN BSN
  • Public Health Nurse
  • Scott County Health Department
    • 1296 N. Gardner St, Scottsburg, IN 47170
  • 812-752-8455 ext. 2
  • brittany.combs@scottcounty.in.gov
Emergency department visits, deaths, & social vulnerability to target pneumonia vaccination for 65 years old and older, 2011 - 2019, Marion County, IN

Brittany Yarnell, MPH
Syndromic Surveillance Epidemiologist

Melissa Titus, MPH
Infectious Disease Epidemiologist
Background

Marion County Residents
Age 65 and over
- 9th leading cause of death
  ▫ Average 60 deaths per season
- Almost 1 in 100 are hospitalized every year
- Over 1,200 ED visits

National Foundation for Infectious Disease Survey
- 46% were unfamiliar with pneumococcal disease
- Almost 60% have never been advised to get vaccinated
- Reasons not to be vaccinated
  ▫ 42% were concerned about side effects
  ▫ 20% don’t like needles
  ▫ 12% don’t think the vaccines work
Pneumonia

Common Symptoms

- sneezing and runny nose
- productive cough
- sore throat
- chest pain
- fatigue and muscle aches
- gray or bluish skin color
- sweats and chills

Singing in the rain 2: The reckoning
Social Vulnerability Index

• The resilience of communities when confronted by an external stress on human health
  ▫ Natural or human-caused disasters
  ▫ Disease outbreaks
• 15 U.S. census variables
  ▫ Socioeconomic status
  ▫ Household composition/disability
  ▫ Race/ethnicity/language
  ▫ Housing/transportation
Overall Social Vulnerability
1977
Pneumococcal vaccine
14 strains

1983
Pneumovax 23
PPSV23
23 strains

1984
PCV7
7 strains

2000
ACIP recommended 65+
receive PCV13

2014
Prevnar 13
PCV13
13 strains
What do they cover?

Pneumococcal Serotypes Contained in PNEUMOVAX 23 (PPSV23) and PCV13

PNEUMOVAX 23 can help prevent pneumococcal disease caused by 23 serotypes

PCV13=13-valent pneumococcal conjugate vaccine.
PPSV23=23-valent pneumococcal polysaccharide vaccine.
PNEUMOVAX 23 (PPSV23) will not prevent disease caused by capsular types of pneumococcus other than those contained in the vaccine.

Adults 65 and Older

**Vaccine Serotypes and IPD Cases in Adult Patients**

The serotypes contained in PNEUMOVAX 23 accounted for a greater percentage of invasive pneumococcal disease (IPD) cases compared to the percentage of IPD cases caused by serotypes in PCV13.[16]

Percentage of IPD cases caused by serotypes in each vaccine—United States 2016[16]

<table>
<thead>
<tr>
<th>Patients aged 65 years and older</th>
<th>Patients aged under 19-64 years</th>
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<tbody>
<tr>
<td>-38% of IPD cases were caused by the 11 unique serotypes in PNEUMOVAX 23[3]</td>
<td>25%</td>
</tr>
</tbody>
</table>

- % IPD cases due to serotypes in PNEUMOVAX 23 (PPSV23)
- % IPD cases due to serotypes in PCV13

Data derived from the Active Bacterial Core Surveillance Data, unpublished.

The figure depicts CDC epidemiologic data and does not reflect the efficacy of the respective vaccines.
Focus

• Identify areas that have:
  ▫ Higher death rates
  ▫ More emergency department visits
  ▫ Higher Social Vulnerability Scores

• Looking at:
  ▫ Marion County residents 65+ years old
  ▫ Deaths and Emergency Department Visits in Marion County
## Previous Season Impact

<table>
<thead>
<tr>
<th>Season</th>
<th>Number of Deaths</th>
<th>Number of ED Visits</th>
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<tbody>
<tr>
<td>Total</td>
<td>662</td>
<td>13,313</td>
</tr>
<tr>
<td>2008/2009</td>
<td>112</td>
<td>1185</td>
</tr>
<tr>
<td>2009/2010</td>
<td>76</td>
<td>1144</td>
</tr>
<tr>
<td>2010/2011</td>
<td>71</td>
<td>1347</td>
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<tr>
<td>2011/2012</td>
<td>58</td>
<td>1588</td>
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<td>2012/2013</td>
<td>80</td>
<td>1297</td>
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<td>2013/2014</td>
<td>69</td>
<td>1507</td>
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<tr>
<td>2014/2015</td>
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<td>1573</td>
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<tr>
<td>2015/2016</td>
<td>66</td>
<td>293</td>
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<tr>
<td>2016/2017</td>
<td>71</td>
<td>1041</td>
</tr>
<tr>
<td>2017/2018</td>
<td>64</td>
<td>1400</td>
</tr>
<tr>
<td>2018/2019*</td>
<td>26</td>
<td>938</td>
</tr>
</tbody>
</table>

* May not be complete
Pneumonia Deaths/ED Visits and Social Vulnerability

High Emergency Department Visits
17 visits per 1,000 population 65+ in 1 zip code

High Pneumonia deaths
More than 6 deaths per 1,000 population 65+ in 1 zip code

High SVI
0.9 or higher in 1 zip code
2018 Population 65+ by Zip Code
Vaccination Return Rates

Insurance company estimate
- About 20% return rate for PPSV23

MCPHD Clients
- 50% return rate for Insured clients
- 20% return rate for 317 clients
Vaccination Campaign

- Designed a poster
- Written Doc4Docs
- Website for additional information
- Outreach with organizations engaged with seniors
Future Plans

- Compare 2019/2020 season to previous seasons
- Write-up guide for this campaign
- Have the material available for future years
Thank you!