



HENNEPIN COUNTY

MINNESOTA

Public Health



*Health Disparity Calculator for Minneapolis-St. Paul
Transitional Grant Area*

Who am I?



Matthew Kravitz

Scranton, PA

Lehigh University

Rising Senior

Double Major: Biology & Public Health

Minor: Integrated Business

Definitions and Notes

- Viral suppression: viral load under 200 viral copies per milliliter
- Health disparity: Differences in health outcomes that are linked with systematic economic, social, or environmental disadvantages
 - There are other aspects to inequity, but viral suppression is the focus of the presentation
- Health literacy: The degree to which individuals have the capacity to obtain, process, and understand basic **health information** and services needed to make appropriate **health decisions**
- 90/90/90 2020 Goal:
 - Diagnose 90% of all HIV-positive persons
 - Provide antiretroviral therapy (ART) for 90% of those diagnosed
 - **Achieve viral suppression for 90% of those provided ART/retained in care**

Population

- **Ryan White Clients only**
 - Transitional Grant Area (TGA): 13 county metro area that Hennepin County's Ryan White Program is responsible for
- Clients with no viral load excluded
- Groups: Two calculator groupings ran
 - Men:
 - *Black African American MSM*
 - *Black African Born Men*
 - *White Non-Hispanic MSM*
 - *Hispanic MSM*
 - Women:
 - *Black African American Women*
 - *Black African Born Women*
 - *White Non-Hispanic Women*
 - *Hispanic Women*
- ***Populations less than 100 are too small for release per MDH public re-release policy***
 - i.e. Transgender, Asian Pacific Islander, etc.

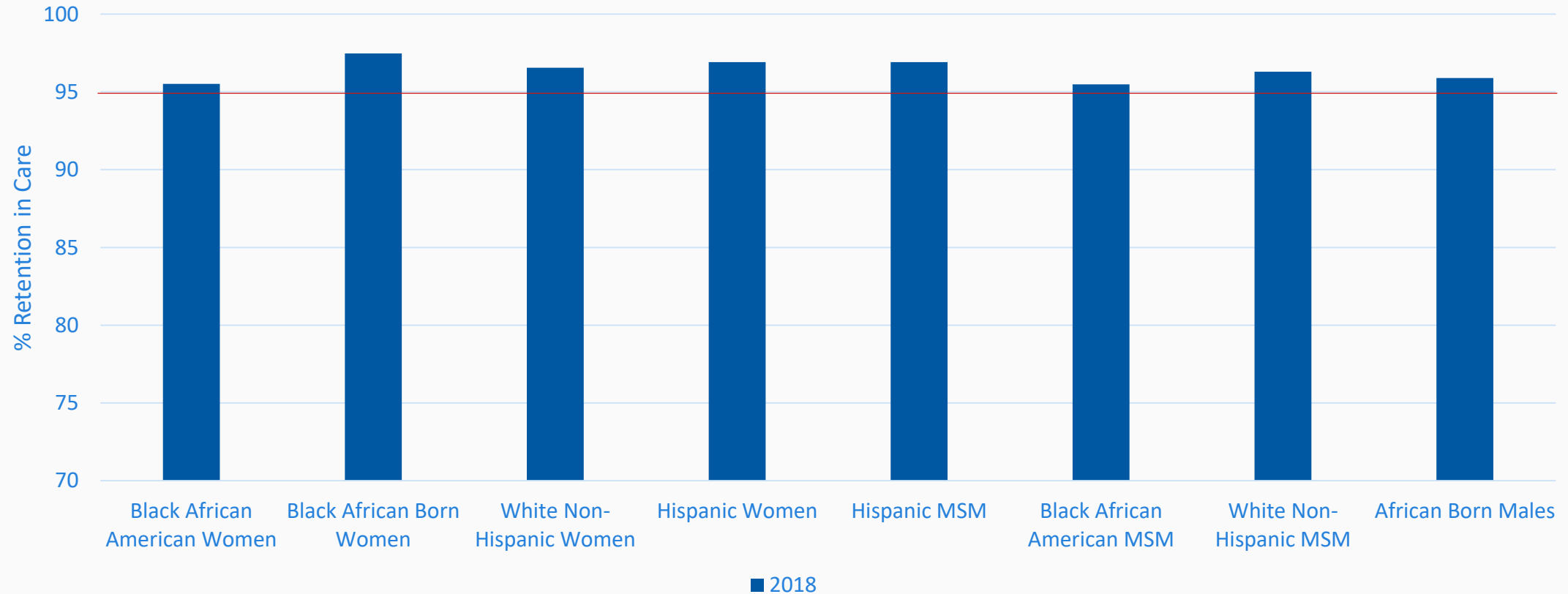
Background

- Developed by Center for Quality Improvement and Innovation (CQII) to provide assistance to Ryan White HIV/AIDS Program recipients
 - CQII: provides technical assistance on quality improvement to Ryan White HIV/AIDS Program recipients and sub recipients
 - Goal: Identify sub-populations experiencing disparities in need of improvement along the HIV Care Continuum
 - Pre-programmed spreadsheet tool
 - Works with the end+disparities Collaborative Learning Communities

The Calculator: How Does It Work?

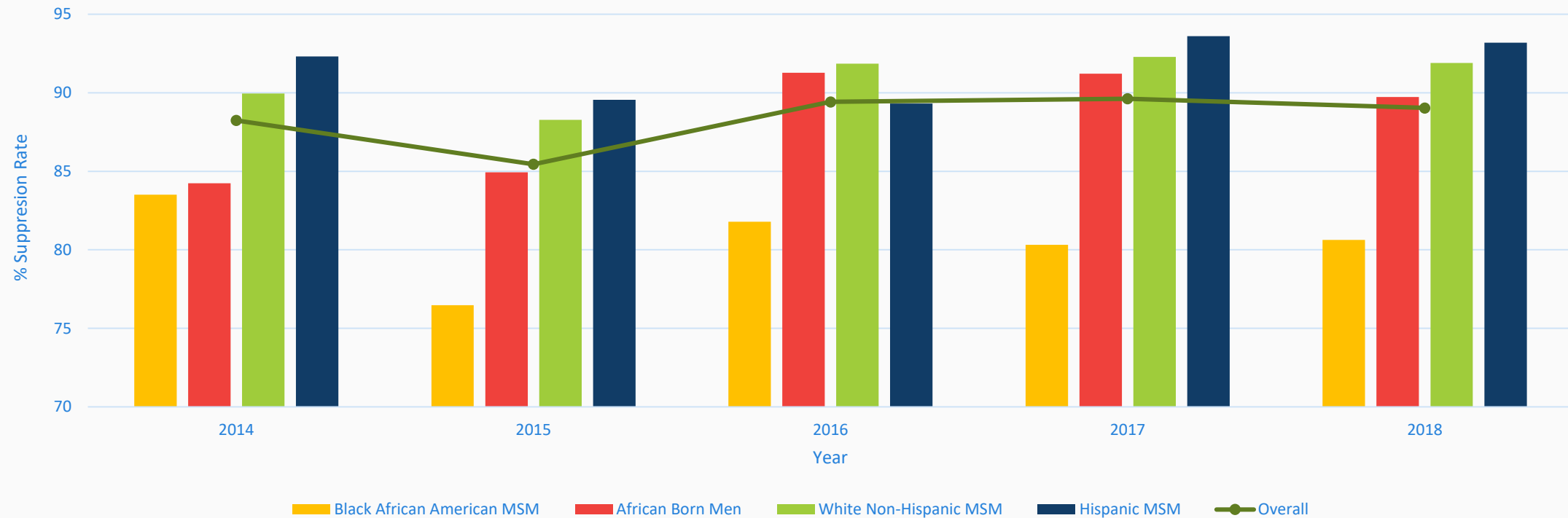
- Center for Quality Improvement and Innovation: provides technical assistance on quality improvement to Ryan White HIV/AIDS Program recipients and sub recipients
- Uses five formulas
 - Health disparity is determined by thresholds
 - Calculator developed by national experts
 - Started by third party and adopted by CQII
- Predetermined statistics

Data: Retention in Care 2018



- Retention in care is consistent across demographics
- Therefore, the calculator focused on viral suppression only

Viral Suppression Rates for Men by Race/Ethnicity: 2014-2018



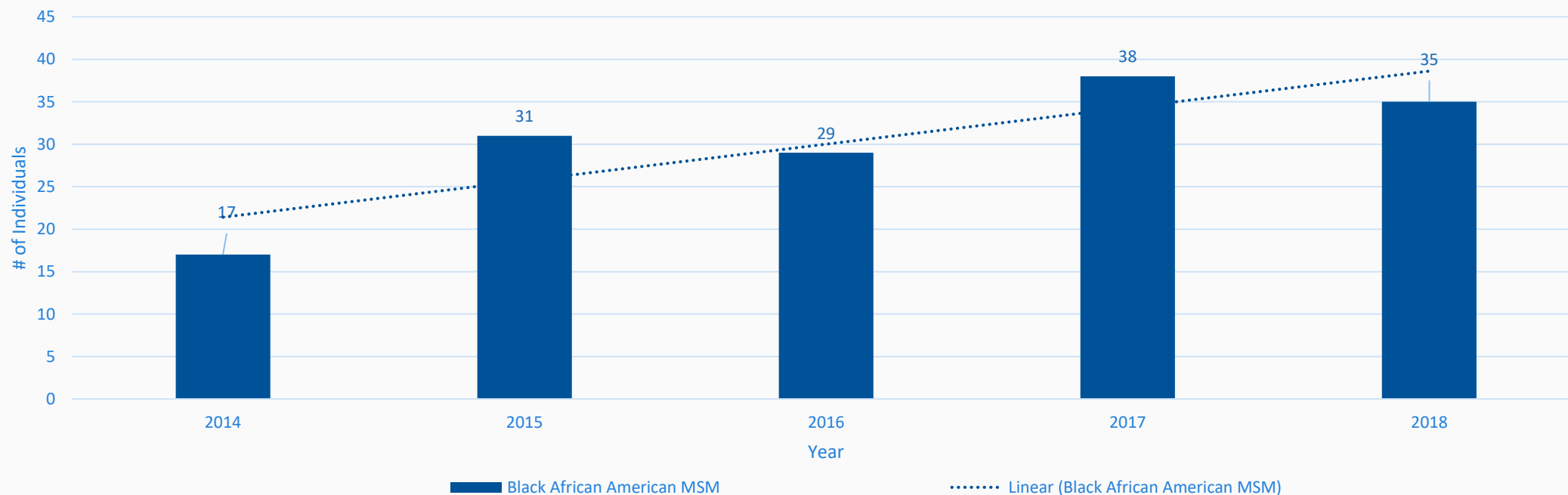
- Viral suppression rate consistently below average: Black African American MSM
 - Overall, Ryan White is performing better than individuals living with HIV not in Ryan White
 - General trend of improving viral suppression rates except for Black African American MSM
- ***2015:** Higher percentage of clients missing a viral load*
 - Possible explanation for the lower viral suppression rates
- Reminder: These are only TGA Ryan White clients and overall is an average of the four groups

Health Disparities Based on Viral Suppression Rates for Men: 2014-2018

	Black African American MSM	Black African Born Men	White Non-Hispanic MSM	Hispanic MSM
2014	84%	84%	90%	92%
2015	76%	85%	88%	90%
2016	82%	91%	92%	89%
2017	80%	91%	92%	94%
2018	80%	90%	92%	93%

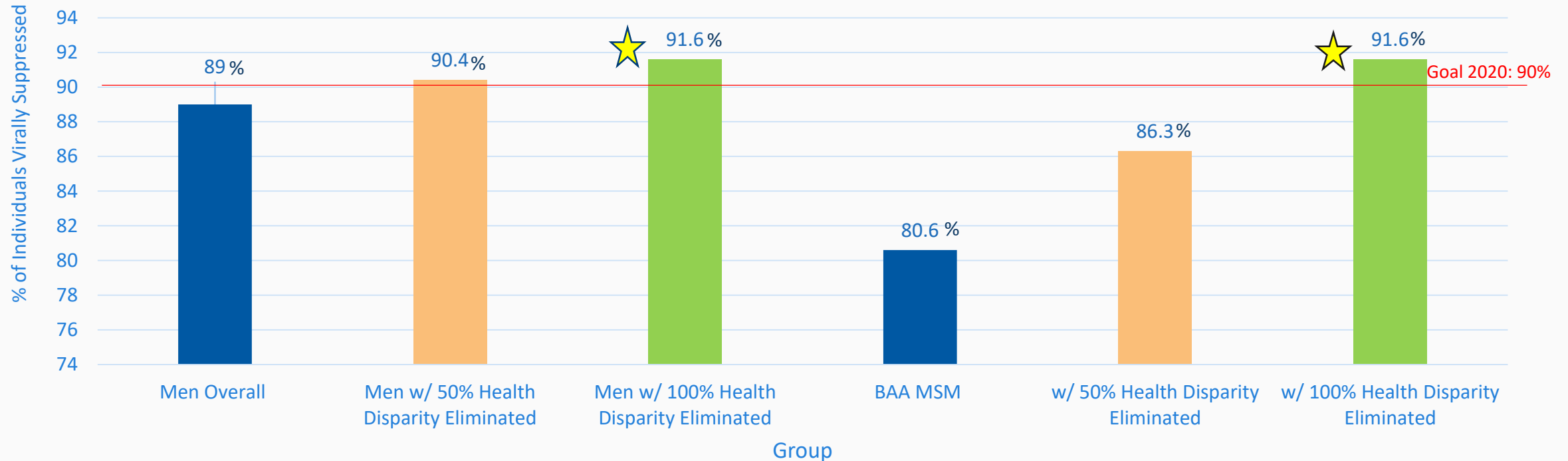
- Black African American MSM showed a health disparity
 - Reminder: These are only Ryan White clients, not all people living with HIV

Absolute Impact Black African American MSM: 2014-2018



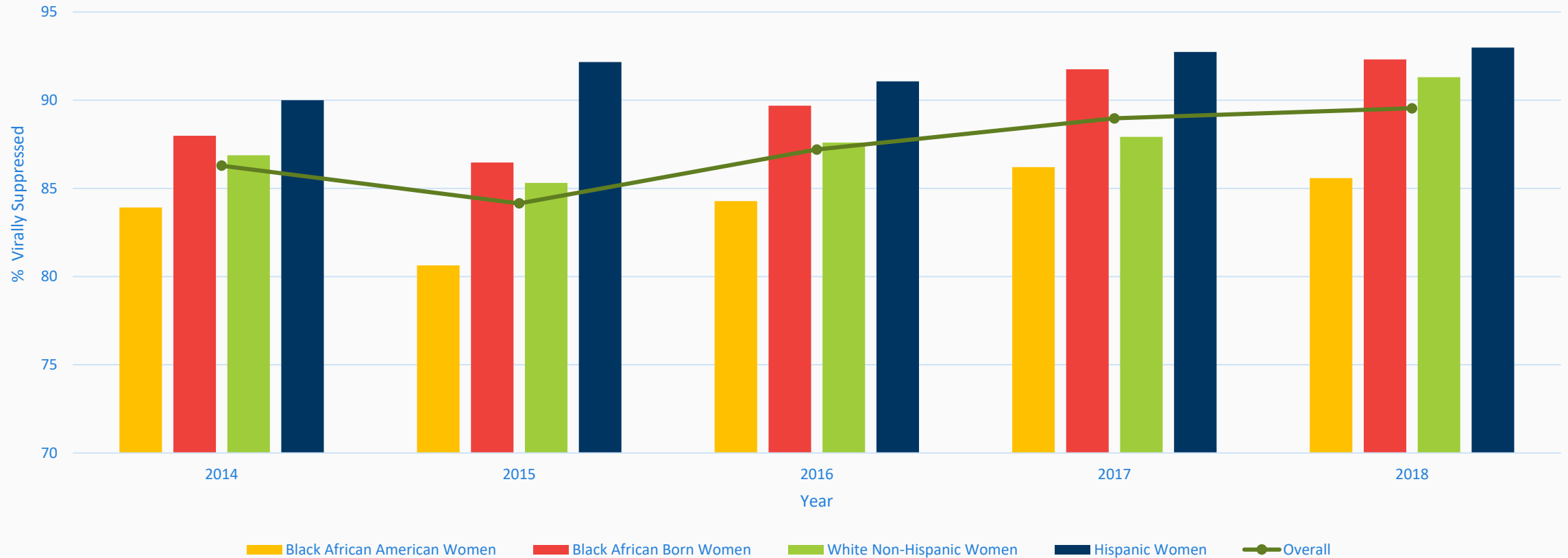
- **Absolute impact**
 - The number of clients that would be virally suppressed if the health disparity was eliminated
 - Just a quantitative representation-> **not specific individuals**
- Increasing number of individuals affected
 - Increase in clients, but health disparities still remain
- **Eliminating disparity** -> 35 more clients would be virally suppressed

Effects of Addressing Health Disparity Based on the Viral Suppression of Black, African American (BAA) MSM: 2018



- **Men overall population**
 - Black African American MSM
 - *Black African Born Men*
 - *White Non-Hispanic MSM*
 - *Hispanic MSM*

Viral Suppression Rates for Women by Race/Ethnicity: 2014-2018



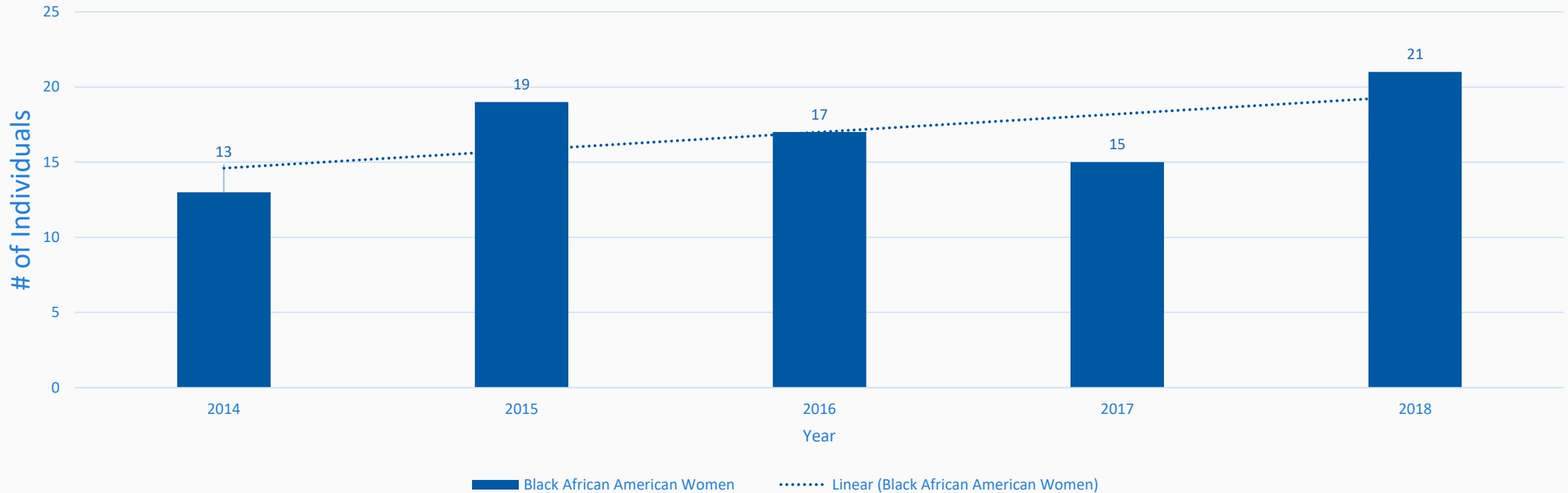
- Black African American Women consistently have lower viral suppression rates
- ***2015: Higher percentage of clients missing a viral load***
 - Possible explanation for the lower viral suppression rate
- **Reminder: These are only TGA Ryan White clients and overall is an average of the four groups**

Health Disparities Based on Viral Suppression Rates for Women: 2014-2018

	Black African American Women	Black African Born Women	White Non-Hispanic Women	Hispanic Women
2014	84%	88%	87%	90%
2015	81%	86%	85%	92%
2016	84%	90%	87%	91%
2017	86%	92%	88%	93%
2018	86%	92%	91%	93%

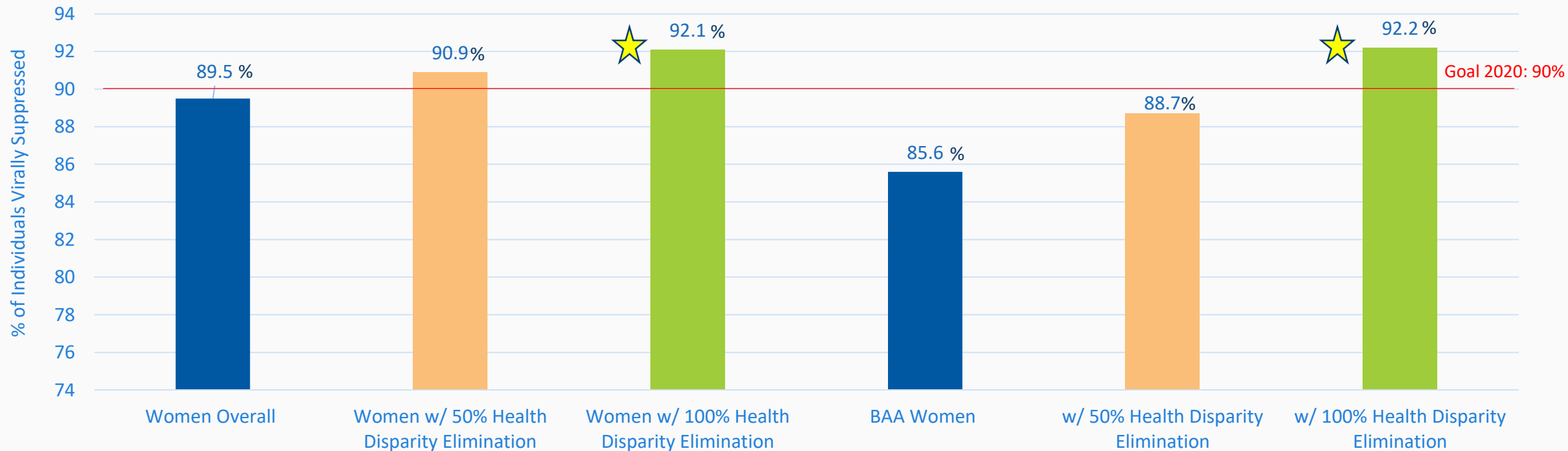
- Black African American Women health disparity
 - Similar to Black African American MSM

Absolute Impact Black African American Women: 2014-2018



- **Absolute impact**
 - The number of clients that would be virally suppressed if the health disparity was eliminated
 - Just a quantitative representation-> **not specific individuals**
- Increasing number of individuals affected
 - Increase in clients, but health disparities still remain
- **Eliminating disparity** -> 21 more clients would be virally suppressed

Effects of Addressing Health Disparity Based on the Viral Suppression for Black, African American Women(BAA): 2018



- **Women overall population**
 - Black African American Women
 - White Non-Hispanic Women
 - Black African Born Women
 - Hispanic Women

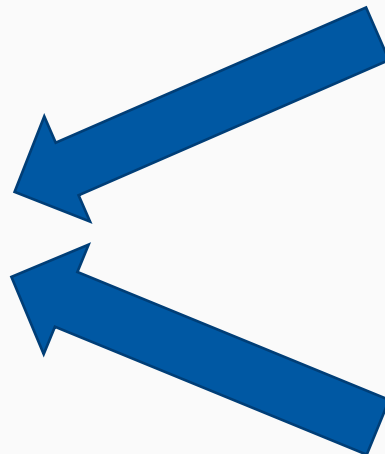
Takeaways

- *Utilize calculator as an effective tool to continue monitoring changes in health disparities*
- Ryan White Program is effective and improving outcomes for all racial/ethnic groups compared to people living with HIV not in Ryan White 😊
- However, disparities still exist in the Ryan White program for **Black African American Women & Black African American MSM**

Possible Future Evaluation

- Association between Health Literacy and HIV Treatment Adherence
 - N=145 with 93% African American Population: **Out of state, simply a model!**
- Health literacy directly becomes a predictor of poor HIV treatment adherence
 - Adherence -> viral suppression
- Unannounced pill checks to check HIV treatment adherence
- Lower health literacy was associated not achieving 85% adherence
- Factors:
 - Emotional Distress
 - Stigma
 - Social Support

Association not Correlation



Discussion

- How do we improve viral suppression rates for Black, African Americans in the MSP-TGA?

Previous Discussion Root Cause Ideas

Systematic:

- Non-representative workforce
- HIV criminalization and incarceration
- Lack of safety
- Funding Inequities
- Cultural responsiveness

Social Determinants of Health

- Racism
- Health Literacy/Access to info

Cultural

- Stigma
- Lack of trust in healthcare
- Invisibility with family systems

Historical Trauma

- Providers-> White
- History with sexuality
- PTSD



Matthew Kravitz

Matthew.Kravitz@hennepin.us

Hennepin County Public Health Department
525 Portland Ave, MC L963
Minneapolis, MN 55415