

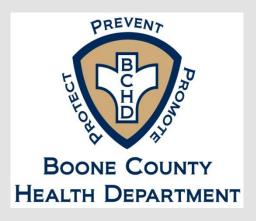
#### **BOONE COUNTY HEALTH SUMMIT**

Wednesday, March 1st 2023

Witham Health Services

North Pavilion B Community Room





### AGENDA

WELCOME Kelly Braverman

Witham Health Services

COMMUNITY HEALTH NEEDS ASSESSMENT Mary Beth Searles

Witham Health Services

KEYNOTE Claire Haughton

**Boone County Health Department** 

MENTAL HEALTH Lynette Clark

Inwell

SUBSTANCE ABUSE Tony Harris

**Boone County Sheriff** 

PHYSICAL ACTIVITY / NUTRITION / WEIGHT Trina Rose

**Witham Health Services** 

DIABETES Dr. Gavin

Witham Health Services

HEART DISEASE / STROKE SERVICES Dr. Mirza

**Witham Health Services** 

# EXECUTIVE SUMMARY

The Community Health Improvement Plan (CHIP) is the result of a collaborative effort among various community partners to prioritize the areas with opportunity for health improvements identified from the Community Health Assessment (CHA).

Community partners were surveyed to help prioritize the focus areas for the CHIP and identify key stakeholders. These key stakeholders and the Boone County Health Department got together and developed goals, objects, and strategies for each priority area.



Priority Areas	Targeted Health Improvement Goal 2022-2024
Mental Health	Reduce the stigma pertaining to mental health by collaborating to increase awareness and encourage use of existing services
Substance Use	Reduce youth and adult substance use and decrease the number of deaths in Boone County
Nutrition, Physical Activity, & Weight	Increase the consumption of nutritious foods, increase physical activity, and reduce the number of obese individuals in Boone County
Diabetes	Reduce number of individuals with diabetes by increased awareness and providing additional education pertaining to the steps that can be taken to reduce the risk of diabetes
Heart Disease and Stroke	Decrease heart disease and stroke by educating affected individuals and encouraging consumption of higher-quality foods

# BOONE COUNTY COMMUNITY HEALTH IMPROVEMENT PLAN PRIORITY AREAS

#### HEALTHY PEOPLE 2020 MODEL

Healthy People provides science-based, 10-year national objectives for improving the health of all Americans. Healthy People has established benchmarks and monitored progress over time in order to:

- Encourage collaborations across communities and sectors.
- Empower individuals toward making informed health decisions.
- Measure the impact of prevention activities.





# MENTAL HEALTH

Lynette Clark InWell

## The 2021 Community Health Needs Assessment (CHNA) indicates that mental health is considered a "major problem" within Boone County because of the following:

- Access to Care/Services
- Awareness/Education
- Affordable Care/Services
- Denial/Stigma
- Lack of Providers

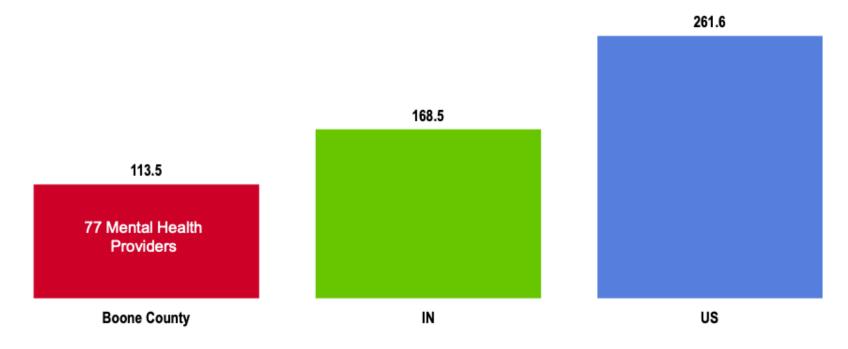
- Diagnoses/Treatment
- Lack of Providers
- Incidence/Prevalence
- Lack of Collaboration
- Family Dynamics

The 2021 Community Health Needs Assessment (CHNA) indicates that mental health is considered a "major problem" within Boone County because of the following:

#### MENTAL ILLNESS

Mental Illness is the leading health issue in Boone County. As of 2022, Indiana is ranked 43rd in the nation for illness pertaining to mental health for adults, with the 2022 youth ranking for illness pertaining to mental health at 26<sup>th</sup> in the nation (Mental Health America, 2022).

# Access to Mental Health Providers (Number of Mental Health Providers per 100,000 Population, 2020)



Sources

- University of Wisconsin Population Health Institute, County Health Rankings.
- Center for Applied Research and Engagement Systems (CARES), University of Missouri Extension. Retrieved September 2021 via SparkMap (sparkmap.org).

Notes:

This indicator reports the rate of the county population to the number of mental health providers including psychiatrists, psychologists, clinical social workers, and counsellors that specialize in mental health care.

#### DEPRESSION

According to the 2021 Community Health Needs Assessment and Implementation Strategy (CHNAIS), one in four (25.6 percent) of Boone County adults reported having a depression diagnosis by a physician (Witham Hospital, 2022).

The Boone County rate of depression diagnosis is higher than the Indiana rate of 21.0 percent and the United States rate of 20.6 percent. Since 2018, the rate of individuals in Boone County reporting a depression diagnosis has increased by 2.5 percent from 23.1 percent.

#### Have Been Diagnosed With a Depressive Disorder

**Boone County** 



Sources: • 2021 PRC Community Health Survey, PRC, Inc. [Item 93]

- Behavioral Risk Factor Surveillance System Survey Data. Atlanta, Georgia. United States Department of Health and Human Services, Centers for Disease Control and Prevention (CDC): 2019 Indiana data.
- 2020 PRC National Health Survey, PRC, Inc.

- Notes: 

  Asked of all respondents.
  - · Depressive disorders include depression, major depression, dysthymia, or minor depression.

Depressive disorders include depression, major depression, dysthymia, and minor depression.

#### **GOAL**

- Respondents will report decreased depression symptoms
- Decrease suicide deaths in Boone County
- Increase the number of mental health providers for Boone County

#### **OBJECTIVES**

- By the end of 2023, reduce the number of individuals who have depression symptoms and decrease suicide deaths in Boone County by increasing mental health resources for the county by 10 percent
- By the end of 2023, decrease the rate of 28.5 percent (2021 rate) of individuals that display symptoms of chronic depression (2+ years) to 22 percent

#### **OBJECTIVES CONTIUED**

- Increase mental health resources from 113.5 mental health providers per 100,000 population to 140 mental health providers per 100,000 population by 2024
- Reduce suicide rate in Boone County 15.8 in 2021 to 12.5 or lower by 2024 through implementation and promotion of evidencebased programs
- Conduct quarterly meetings with county-wide mental health providers to develop an annual report on ongoing programs and activities

#### **STRATEGIES**

- Offer Depression Screenings at Senior Expo and refer to InWell or appropriate providers
- Require depression screening PHQ9 for any patient on pain medication (Do No Harm Law)
- Depression screening for those 12 years and older to take place in all Witham primary care and specialty appointments at least 1 time each year
- Provide depression management and education to Boone County residents
- Partner with mental health organizations to improve identification and treatment of mental health issues such as depression and anxiety

#### STRATEGIES CONTINUED...

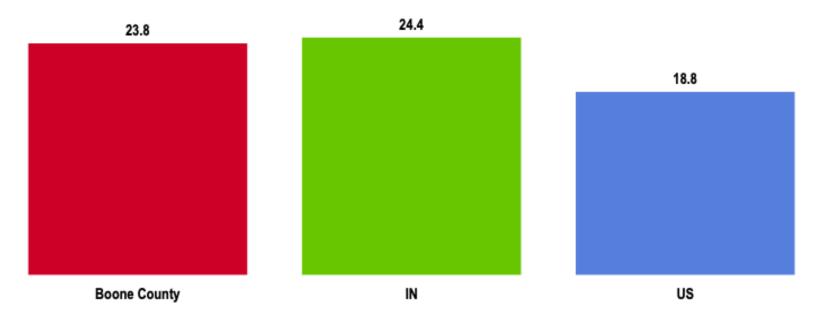
- Offer Depression Screenings at Senior Expo and refer to InWell or appropriate providers
- Partner with mental health organizations to improve identification and treatment of mental health issues that may lead to suicide
- Support QPR Training (Question, Persuade, and Refer) education programs available to school age children
- Partner with InWell for grant opportunities for mental health programs
- Develop a process to determine number of patients who are diagnosed with depression
- Track percent of patients diagnosed with depression who receive intervention



# **SUBSTANCE ABUSE**

Tony Harris
Boone County Sheriff

# Unintentional Drug-Related Deaths: Age-Adjusted Mortality (2017-2019 Annual Average Deaths per 100,000 Population)



Healthy People 2030 states, "more than 20 million adults and adolescents in the United States have had a substance use disorder in the past year" (USDHHS), ODPHP, 2020).

Substance use disorders consist of the use of illicit drugs, alcohol, or prescription drugs. These disorders are linked to many health issues and even death (USHHS, ODPHP, 2020).

#### **OVERDOSE RATE**

 Indiana drug overdose mortality rate is 36.7, with 2,321 deaths per 100,000 total population (CDC, 2022)

 Boone County reported an increase by 4.7 unintentional drug related deaths over the 2018 rate of 19.1 and 2015 rate of 14.4 per 100,000 population (Witham Hospital, 2022)

 As of 2022, the adjusted rate was 23.8, increasing the rate of unintentional drug related deaths by 4.7 once again (Witham Hospital, 2022)

#### CAUSES OF OVERDOSE

• Opioids (synthetic opioids, other than methadone) are considered the main drug that causes overdoses in the United States. Synthetic opioids were involved in 82.3 percent of opioid-involved overdose deaths (CDC, 2022)

 Heroin and other opioids lead the county as the drug that causes the most issues in the community at 40.6 percent (Witham Hospital, 2021)

# SUBSTANCE USE IMPROVEMENT PLAN

#### **GOAL**

 Increase engagement and input from youth and adults about their needs in addressing health and addiction challenges while implementing strategies to decrease suicide and overdose related deaths

## SUBSTANCE USE IMPROVEMENT PLAN

#### **OBJECTIVES**

- By the end of 2023, reduce the rate of unintentional drug-related deaths by providing substance use disorder education through annual community events and highlighted social media stories to reduce the stigma, measuring impact through annual pre/post community surveys
- Decrease the rate of citizens that feel that substance Use has negatively affected in their life from 36.1 percent to 13 by 2024
- Decrease the overall overdose related deaths from 23.8 per 100,000 to 18.8 per 100,000 or lower

## SUBSTANCE USE IMPROVEMENT PLAN

#### **OBJECTIVES CONTINUED...**

- Increase awareness about the mental health and addiction treatment systems and challenges faced regarding access to care
- Reinstate quarterly mental health and addiction provider collaborative meetings
- Reduce mental health and addiction stigma among youth by creating awareness and implementing youth based programs in all Boone County school districts by 2024

# SUBSTANCE USE IMPROVEMENT PLAN

#### **STRATEGIES**

- Continue to share the availability of local resources to the public
- Educate healthcare professionals and community leaders about the challenges to access care
- Highlight the impact of mental health challenges and its impact on employers by obtaining information from employers
- Promote the Lyft transportation program
- Continue to inform the state about transportation barriers
- Prevention strategies with school age youth

# SUBSTANCE USE IMPROVEMENT PLAN

#### STRATEGIES CONTINUED...

- Expand counseling services to improve access to needed services
- Continue Mental Health in ED program
- Cooperate with law enforcement in provision of NARCAN for overdose persons
- Continue to educate physicians, staff and community on the "Do no harm" law
- Continue to provide Pain Clinics (Addiction Therapy, and Interventional Pain management)
- Continue to provide Sub Oxone clinic

# SUBSTANCE USE IMPROVEMENT PLAN

#### STRATEGIES CONTINUED...

- Support Boone County Substance Use Task Force to create and implement plan to improve scope of local services
- Support needed medical management for substance Use
- Support transitional programs
- Explore collaborative approach with local agencies in development of opioid rehab clinic(s)
- Partner with law enforcement and community agencies to educate public on impact of drinking
- Educate public on addictive behaviors
- Support DARE, Teen Challenge, and other substance Use education programs available to school age children



# NUTRITION, PHYSICAL ACTIVITY & WEIGHT

Trina Rose

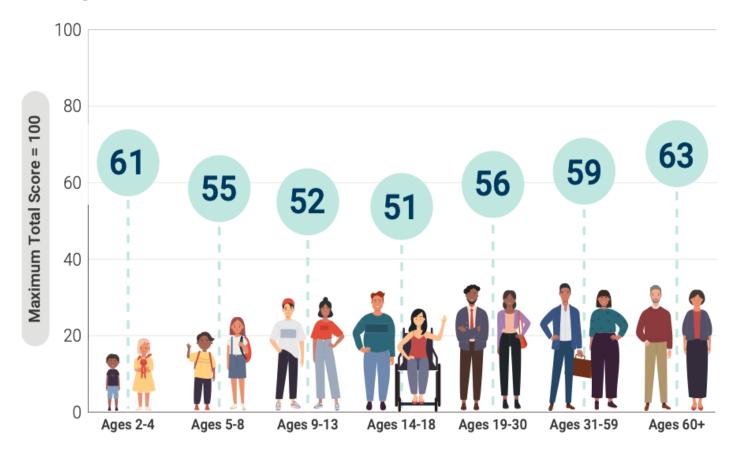
Witham Health Services

#### NUTRITION

- Healthy People 2030 is focused on getting people to consume the recommended amount of healthy food to reduce their risk for chronic diseases and to improve their overall health (USDA, USDHHS, 2020).
- The Dietary Guidelines for Americans, 2020-2025, states that a "healthy dietary pattern is associated with beneficial outcomes for all-causes of mortality, cardiovascular disease, overweight and obesity, type 2 diabetes, bone health, and certain types of cancer (breast and colorectal)" (USDA, USDHHS, 2020).

Adults should be consuming 1.5 – 2 cups of fruits and 2 – 3 cups of vegetables each day, while consuming other foods that are relatively lower in calories (CDC, 2022). Some individuals are unable to afford healthy foods or do not have healthy foods readily accessible in their area.

# Adherence of the U.S. Population to the *Dietary Guidelines* Across Life Stages, as Measured by Average Total Healthy Eating Index-2015 Scores



Many Americans don't realize that while they aren't consuming foods that are recommended, they are also failing to consume the needed vitamins and minerals from these types of foods, resulting in malnutrition.

Boone County has reported a rate of 27.2 percent that eat five or more fruits and vegetables per day which is down from the 2019 rate of 29.7 percent (Witham Hospital, 2021). In comparison, the United States rate is 32.7 percent (Witham Hospital 2021).

#### **Poor Nutrition Is Making Our Nation Sick**

Many Americans' diets lack adequate sources of good nutrition.



Fewer than 1 in 10 children and adults eat the recommended daily amount of vegetables.



fewer than 1 in 7 adults eat

Vitamin and mineral malnutrition impacts our health and economy.



Low levels of vitamins and minerals can result in mental impairment and central nervous system defects in infants.



Poor nutrition contributes to many costly diseases, including obesity, heart disease, and some cancers.

Mothers stop breastfeeding earlier than intended.



About 80% of mothers start out breastfeeding, but more than 50% stop sooner than they planned.



Low rates of breastfeeding add more than \$2 billion a year to direct medical costs.

Help us keep America healthy and strong. Learn how at: https://www.cdc.gov/nccdphp/dnpao/index.html

January 2021

#### PHYSICAL ACTIVITY

- Staying active is important for an individual's overall health, reducing the risk of chronic disease and leading to healthy aging. Physical fitness is linked to reducing risk of diseases such as heart disease, type 2 diabetes, obesity, and some cancers (CDC, 2022).
- As of 2022, 27.2 percent of the adults in Indiana had reported that they hadn't had done any physical activity in the past month (CDC, 2022).
   Additionally, 17.8 percent of adults in Boone County reported that they didn't have leisure-time physical activity (any physical activities or exercises) in the last month (Witham Hospital, 2021).

Adults should move more than they sit each day when possible.

To achieve the health benefits of physical activity, adults should engage in 150 minutes (2 hours and 30 minutes) to 300 minutes (5 hours) each week of moderate-intensity physical activity (USDHHS, 2018).





Children and adolescents aged 6 to 17 years old should be doing 60 minutes (one hour) or more of physical activity daily. Physical activity can include aerobic, musclestrengthening, or bonestrengthening activities (USDHHS, 2018).

Aerobic activities (cardio) are when people move the larger muscles in their body in a "rhythmic manner" for a designated period of time.

AEROBIC ACTIVITES	
Walking or hiking	
Dancing	
Swimming	
Water Aerobics	
Jogging or running	
Aerobic exercise classes	
Stretching or yoga	
Bicycle riding (stationary or outdoors)	
Yard work, such as raking and pushing a lawn mower	
Sports like tennis or basketball	
Walking	

# MUSCLE-STRENGTHENING ACTIVITIES Exercises using bands, machines or hand-held weights Body-weight exercises (push-ups, pull-ups, planks, squats, lunges) Gardening Carrying groceries Yoga postures Tai Chi

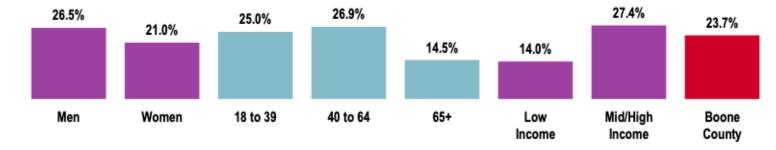
Muscle-strengthening activities consist of movements that target major muscles in the body (USDHHS, 2018).

Source: Centers for Disease Control and Prevention

Throughout Indiana, 21.1 percent of adults report meeting physical activity recommendations each week, with Boone County reporting that 23.7 percent stated that they engaged in the recommended physical activity each week (Witham Hospital, 2021). According to the USDHHS, 45.8 percent of children in Boone County aged 2 to 17 reported having done the recommended 60 minutes of physical activity the seven days leading up to the interview (USDHHS, 2018).

#### Meets Physical Activity Recommendations (Boone County, 2021)

Healthy People 2030 = 28.4% or Higher



Sources:

- 2021 PRC Community Health Survey, PRC, Inc. [Item 126]
- US Department of Health and Human Services. Healthy People 2030. August 2020. http://www.healthypeople.gov

Notes:

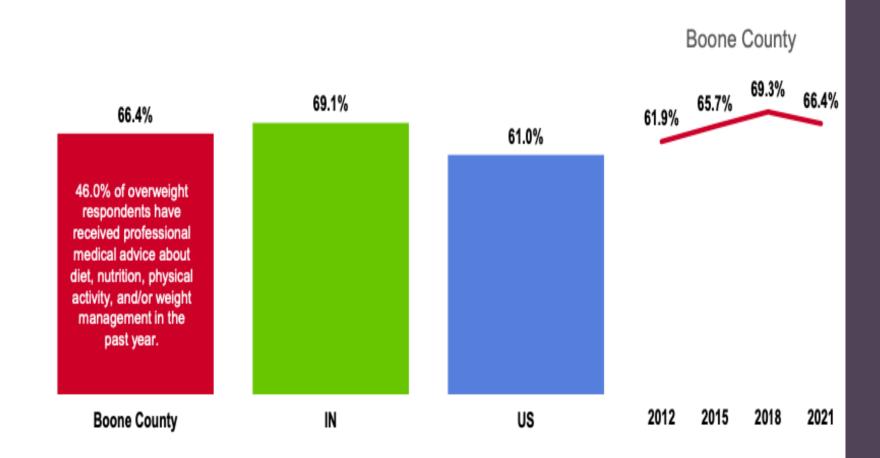
- · Asked of all respondents
- Meeting both guidelines is defined as the number of persons age 18+ who report light or moderate aerobic activity for at least 150 minutes per week or who report
  vigorous physical activity 75 minutes per week or an equivalent combination of moderate and vigorous-intensity activity <u>and</u> report doing physical activities
  specifically designed to strengthen muscles at least twice per week.

#### WEIGHT

- A healthy weight can be achieved by having healthy eating habits, staying active, reduced stress, and adequate sleep. Having healthy eating habits and staying active is important for an individual's overall health, reducing the risk of chronic diseases and cancer.
- According to the USDA and the USDHHS (2020), in the United States 74
  percent of adults are overweight (BMI of 25 or more) or obese (BMI of 30 or
  more) with adults aged forty years to fifty-nine years old with the highest rate
  of obesity (43 percent). Children in the United States are also at risk of
  obesity, with 40 percent being overweight or obese as of 2020.

In Boone County, 46 percent of overweight respondents have received professional medical advice about diet, nutrition, physical activity, and/or weight management in the past year (Witham Hospital, 2021). However, as of 2021, 66.4 percent of Boone County is still considered overweight and obese (Witham Hospital, 2021).

#### Prevalence of Total Overweight (Overweight and Obese)



#### **GOAL**

- Reduce the percent of overweight adults in Boone County and increase the number of fruit and vegetable servings consumed daily
- Increase the number of respondents that report the community provides enough recreation for youth year-round and meets physical activity guidelines
- Certify Boone County as a Blue Zone Community

#### **OBJECTIVES**

- Decrease Boone County's overweight rate from 66.4 percent to less than 61 percent by 2024
- Boone County to report the percentage of individuals meeting physical activity guidelines to meet or exceed HP 2030 benchmark of 28.4 percent
- By the end of 2024, provide at least three additional physical fitness programs/classes that are offered to citizens in Boone County at a free or discounted rate
- By the end of 2024, provide at least three additional nutrition education programs/classes that are available at a free or discounted rate

- Education regarding harm of obesity
- Promote healthy lifestyles through outreach opportunities
- Promote active lifestyles by offering Silver Sneakers to community
- Promote active lifestyles by offering Rock Steady Boxing
- Promote active lifestyles by offering Tai Chi for Health
- Offer healthy cooking classes to the community

- Offer Witham Walkers program
- Bring FACS classes from each school in Boone County to at least one Cooking for Wellness class
- Promote the Planet Fitness youth discount program
- Utilize and promote the senior mobile food pantry
- Restart food pantry coalition meetings
- Educate patrons of the food pantry on healthy choices and provide healthy meal bundles

- Promote active lifestyles by supporting community 5K and relays
- Physicians have parents complete physical activity questionnaire for themselves and child for early awareness
- Educate the community at events throughout the year about importance of being active and limiting screen time
- Promote physical activities with sponsorships and promotional items given (jump ropes, chalk, playing cards, balls, frisbees)
- Promote 5K and relays in the community to encourage physical activity
- Partner with the YMCA to promote activities
- Support Healthy Coalition programs

- Offer free group exercise classes
- Provide safe free access walking trail around pond at Witham
- Support organizations in Boone County that promote nutrition and education programs if possible
- Support and help promote the local Farmer's Markets that gives access to buying fresh produce when possible
- Support and help promote "Farm to Table" opportunities for purchasing fresh fruit and vegetables when possible
- Educate families on choosing fresh fruit and vegetables instead of processed foods (allocation of food dollars) and what food resources are available
- Partner with Purdue Extension for education programs
- Offer healthy options in the Witham Café and Pavilion Perk



# DIABETES

Dr. Gavin

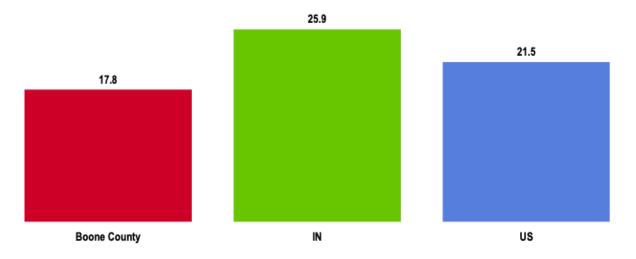
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#### DIABETES

- Diabetes is the seventh leading cause of death in the United States and effects more than 37 million adults around the United States (CDC, 2022). It is caused by a lack of insulin made by the body, resulting in an abundant amount of blood sugar present in the bloodstream. If blood sugar isn't regulated over time, heart disease, vision loss, and kidney disease can occur (CDC, 2022).
- In Indiana, more than 738,000 children and adults suffer from all forms of diabetes (American Diabetes Association, 2022). According to the CDC, one in five individuals that are affected don't know that they have it. An estimated 160,000 individuals residing in Indiana have diabetes and don't know it (American Diabetes Association, 2022).

The following chart shows that the mortality rate of individuals with diabetes in Boone County (17.8 percent) is lower than both the state (25.9 percent) and national rate (21.5 percent) (Witham Hospital, 2021).

### Diabetes: Age-Adjusted Mortality (2017-2019 Annual Average Deaths per 100,000 Population)



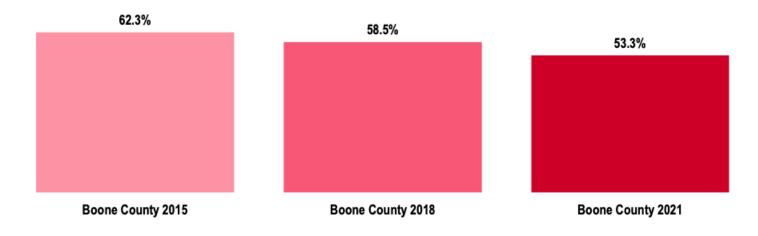
#### **PREDIABETES**

Prediabetes develops because of higher-than-normal blood sugar levels, but the levels aren't high enough to be diagnosed as type two diabetes. In the United States, more than one in three American adults have prediabetes. However, over 80 percent don't know that they have it, resulting in putting them more at risk for type two diabetes, heart disease, and stroke (CDC, 2021).

The CDC created a National Diabetes Prevention Program that is available as an educational resource for those effected by diabetes. This program explains what lifestyle changes can be made to reverse or delay any form of diabetes (CDC, 2021).

The following chart shows that the rate of individuals in Boone County that have taken a course in diabetes management has declined since 2015. According to the CHNAIS, the rate of Boone County adults with diabetes has increased from 9.9 percent (2018) to 11.8 percent (2021) (Witham Hospital, 2021). As of 2021, diabetes is most prevalent among adults sixty-five and older (27.6 percent), and low-income individuals (22.1 percent) in Boone County (Witham Hospital, 2021).

# Have Taken a Course in Diabetes Management (Boone County Diabetics, 2021)



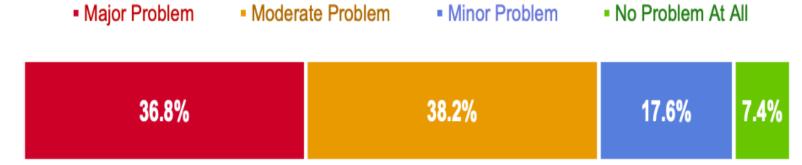
The 2021 Community
Health Needs
Assessment (CHNA)
indicates that
diabetes is considered
more of a "moderate
problem" within
Boone County
because of the
following:

- Awareness/Education
- Disease Management
- Obesity
- Access to Affordable Healthy Foods
- Prevention/Screenings
- Affordable Medications/Supplies

According to the CDC, it is important to schedule regular checkups with healthcare providers (CDC, 2022).

Checking your blood regularly, staying physically active, controlling blood pressure, and controlling cholesterol are also important in order to prevent any type of diabetes (CDC, 2022).

### Perceptions of Diabetes as a Problem in the Community (Key Informants, 2021)



# TYPES OF DIABETES

#### Type 1 Diabetes:

Is caused by the pancreas not making insulin or a very little amount. Insulin allows blood sugar to enter the cells in the body to be used as energy. Without insulin, blood sugar can't get into cells, resulting in a buildup in the bloodstream. This type of diabetes is most prevalent in the younger population (children, teens, and young adults) (CDC, 2022).

#### Type 2 Diabetes:

Occurs when cells stop responding normally to insulin, known as insulin resistance. The pancreas ends up making more insulin to attempt to get the cells to respond, resulting in high blood sugar. Symptoms of type 2 diabetes can be overlooked and difficult to identify. Blood tests can tell you if you have diabetes or not. Type 2 diabetes is more prevalent in people over 45 (CDC, 2021).

## DIABETES IMPROVEMENT PLAN

#### **GOAL**

Reduce diagnosis of borderline pre-diabetes

#### **OBJECTIVES**

- By the end of 2024, reduce the number of individuals who have pre-diabetes in Boone County from 11.4 percent to 8.4 percent
- Decrease the rate of adults with diabetes in Boone County
- Increase education on strategies to prevent diabetes

## DIABETES IMPROVEMENT PLAN

#### **OBJECTIVES CONTINUED...**

- Decrease percentage of patients diagnosed with borderline pre-diabetes
- Maintain a rate of adults reporting to less than or equal to the 9.7 percent rate for the United States
- Increase number of Boone County residents with primary care physicians by distributing informational flyers throughout the county with doctors currently accepting new patients

## DIABETES IMPROVEMENT PLAN

- Refer pre-diabetic patients for education/programs regarding prediabetes management and prevention
- Continue Rapid A1-C Screenings in office
- Provide education on pre-diabetes, signs and symptoms
- Provide education on how to prevent pre-diabetes
- Provide education on how to reverse pre-diabetes
- Utilize and promote dining with diabetes
- Utilize and promote diabetes classes offered at the YMCA for ages 18+
- Utilize and promote Cooking for Wellness classes
- Utilize and promote Boone County Senior Services for transportation individuals of all ages to doctors appointments



# HEART DISEASE AND STROKE

Dr. Mirza

Witham Health Services

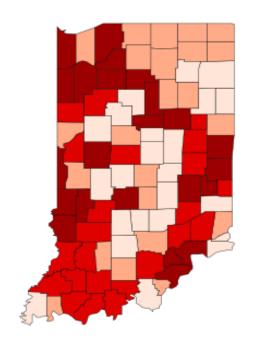
#### HEART DISEASE

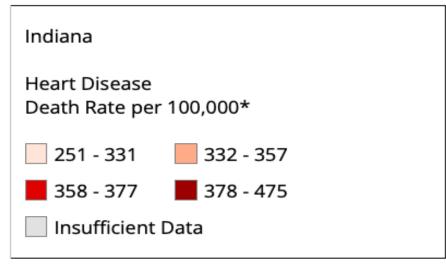
- As of 2020, heart disease is the leading cause of death in the United States (USDOHH, ODPHP, 2020).
- The CDC states that heart disease is the leading cause of death for both men and women, along with "most racial and ethnic groups in the United States" (CDC, 2022).
- The most common heart disease is coronary heart disease and killed over three hundred thousand individuals in 2020 (CDC, 2022).

#### HEART DISEASE

- One in five, almost seven hundred thousand individuals, died from a heart disease in 2020 (CDC, 2022). White men are more at risk (22.7 percent) of contracting heart disease, while American Indian or Alaskan Natives at the lowest risk (12.7 percent) of contracting heart disease (CDC, 2022).
- The American Heart Association's (AHA), "life's simple 7" (seven life goals) should be used as a guideline to live a healthy life (AHA, 2021). The seven goals of a healthy diet include, "eating a healthy diet, exercising regularly, avoiding excess weight, not smoking, and keeping blood pressure, cholesterol and blood sugar within a healthy range" (AHA, 2021). The Indiana Department of Health recommends having a healthy diet, exercise regularly to maintain a healthy weight, and limit use of products containing tobacco (IDOH, 2022).

The data listed is based on data averages from between 2017 and 2019. During this time, multiple counties in Indiana had high death rates that were between 378 – 475 per 100,000 in individuals thirty-five years and older (CDC, 2020). In Boone County, heart disease death rates were 364 per 100,000 adults thirty-five years and older (CDC, 2020).

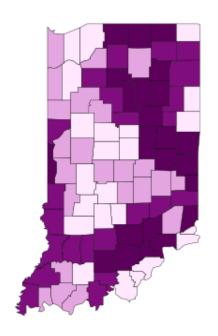


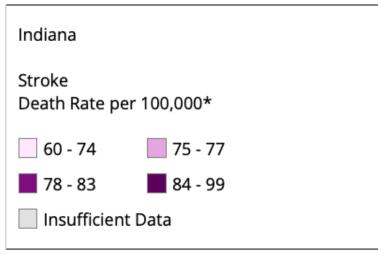


#### STROKE

- As of 2020, stroke is the fifth leading cause of death in the United States (USDOHH, ODPHP, 2020). A stroke occurs when the supply of blood in the brain is blocked or when a blood vessel that is in the brain bursts (IDOH, 2022)
- Eighty-seven percent of strokes are called ischemic strokes, where blood flow to the brain is blocked (CDC, 2022)
- Strokes result in damage to the brain, which can be long-term, or terminal.

The stroke death rate data listed is based on averages from between 2017 and 2019. During this time, multiple counties in Indiana had high stroke death rates that were between 84 – 99 per 100,000 in individuals thirtyfive years and older (CDC, 2020). In Boone County, stroke death rates were 74 per 100,000 in individuals thirty-five years and older (CDC, 2020). This leaves residents of Boone County at a low risk of death caused by stroke.





#### **GOAL**

 To decrease death rate and diagnosis of heart disease in Boone County

#### **OBJECTIVES**

- By the end of 2024, decrease the death rate for heart disease in Boone County from 190.7 to 185
- By the end of 2024, decrease the percentage of people that have been told they have High Blood Pressure (HBP) from 34.7 percent to 30 percent in Boone County

#### **OBJECTIVES CONTINUED...**

- By the end of 2024, increase percentage of people that have taken action to control HBP from 92.4 percent to 95 percent in Boone County
- Decrease stroke death rate in Boone County from 37.7 to 33
- Increase the number of Boone County residents with primary care physicians by distributing informational flyers throughout the county with doctors currently accepting new patients

- Provide medical intervention to save lives of acute cardiac distress
- Provide Cath lab services
- Provide education to community on heart disease and stroke
- Provide heart scans
- Improve medical management by increasing heart and stroke related programs
- Provide cardiac rehab services
- Provide adult fitness program in rehab department

#### STRATEGIES CONTINUED...

- Monitor blood pressure
- Utilize and promote dining with diabetes
- Utilize and promote diabetes classes offered at the YMCA for ages 18+
- Utilize and promote Cooking for Wellness classes
- Utilize and promote Boone County Senior Services for transportation individuals of all ages to doctors appointments
- Promote heart scans, preventative testing, and heart month through Witham Health Services

#### **NEXT STEPS**

Each priority area will have ongoing review and evaluation conducted by community partners involved with implementation.

Additionally, the Boone County Healthy Coalition Advisory Committee will meet annually to evaluate work plans by tracking progress made towards achieving listed goals and objectives. During the evaluation process, all ineffective strategies will be revised and the CHIP will be updated. If you are interested in more information on how to get involved with the CHIP or Boone County Healthy Coalition, please contact:

Boone County Health Department Nursing & Vital Records Division 116 W. Washington St. B 202 Lebanon, IN 46052 (765) 482-3942







The Boone County Health Department sincerely appreciates the following agencies that participated with prioritizing the focus areas and contributed to the planning process of the Boone County Community Health Improvement Plan.

- Alzheimer's Association Greater Indiana Chapter
- Aspire Indiana
- Boone County Commissioners
- Boone County Council
- Boone County Cancer Society
- Boone County Food Pantry Coalition
- Boone County Health Board
- Boone County Health Department
- Boone County Residents
- Boone County Senior Services, Inc.
- Boone County Sheriff's Office
- City of Lebanon

- Community Foundation of Boone County
- Cummins Behavioral Health Systems, Inc.
- Drug Free Boone County
- Indiana State Department of Health
- Integrative Wellness, LLC
- Lebanon Community Schools
- Mental Health America of Boone County
- Purdue Extension Boone County
- Tobacco Free Boone County
- Witham Family YMCA
- Witham Health Services