# THE GOVS WELLNESS HUB PROGRAM

A Model for Cross-Disciplinary Collaboration and High-Impact Teaching Practices

A Panel Discussion for Austin Peay State University's 2025 Faculty Conference

Morgan University Center, Room 305 Concurrent Session #4c on August 12, 2025, from 2:15 - 3:15 p.m.



# Meet Our Team

2025 Govs Wellness Hub Team



Dr. Tyler Nolting, Dr. Kadi Bliss, Ph.D., Dr. Tasha Ruffin, Ph.D., MPH, MCHES<sup>®</sup>



MCHES<sup>®</sup>



DNP, APRN, AGACNP-BC



Mrs. Mitzi Baker, MSN, FNP-BC, ACHPN Ph.D., MLS(ASCP)



Dr. Heather Phillips,



Mrs. Olivia Lahann, MBA



Ms. Alexandra Wills, MA









# Panel Description

During our presentation we will...

- Review the 2025 Govs Wellness Hub Program by:
  - Providing a model for our approach to planning, implementing, and evaluating a campus health promotion program
  - Sharing challenges encountered, lessons learned, and suggestions for having impactful and effective collaborative and multidisciplinary partnerships
  - Inspiring others to incorporate cross-departmental collaborations that address student wellness, student learning, and scholarly teaching
- Share our plans for the 2025-2026 Govs Wellness Hub Program.

### Selected Portions of Grant Application

Funding: Joe and Cathi Maynard Family Fund of Excellence

### **FUND OF EXCELLENCE** Fund of Excellence Name Joe and Cathi Maynard Family Fund of Excellence Alumni, Engagement & Vonda St. Amant, Assistant Vice President of Philanthropy & Philanthropy Staff Erin Morton, Director of Development Dr. Tyler Nolting, Ph.D., MPH, MCHES®; Dr. Kadi Bliss, Ph.D., Requester MCHES®; Dr. Shani Collins Woods, Ph.D., MSW, MA; Dr. Heather Phillips, Ph.D., MLS (ASCP)cm; Dr. Tasha Ruffin, DNP, RN; & Alexandra Wills Request Title Govs Heart and Nutrition Hub: Empowering our Peavple \$8,473.37 Amount July 1, 2024 - June 30, 2025 **Funding Timeline** In spring 2024, HHP 4800: Capstone for Public Health students Funding Narrative held a two-hour on-campus health screening at the APSU Morgan University Center, attracting over 50 students seeking screenings. This event's success underscores the critical need for the ongoing provision of health services to our student population at Austin Peay State University (APSU). As we look to the future, it is imperative to address cardiovascular disease (CVD), the leading cause of death globally. The most

- Number of Participants: We aim to screen at least 50 participants during each screening event, totaling 150 over the semester. The total number could be as high as 200, depending on attendance at the events and our team's capacity to implement each event.

   Participant CVD Risk Factors: We will measure participants' risk factors for hypercholesterolemia, hyperglycemia, obesity, physical inactivity, unhealthy
  - diet, and smoking.
    3. Education Engagement: We will track the number of individuals participating in the healthy heart screening and food security education sessions and collect feedback on the usefulness and effectiveness of the information provided.
  - 4. Follow-up and Referral: We will monitor the number of participants who seek follow-up care or referrals based on their screening results, ensuring that individuals receive the necessary support to address identified health concerns.
  - Participant Satisfaction: We will administer satisfaction surveys to gather feedback on the overall experience

- How will the funds be **Budget Breakdown:** administered 1. Public Health Screening Supplies: \$4,978.31 Cholestech LDX Starter Kit: \$2,508.58 This machine will be used to measure the screening participants' total cholesterol, HDL, and glucose levels. Cassettes: \$107.79 per box x 20 boxes = 1. These will be used for fingerstick tests to check for total cholesterol, HDL, and alucose levels. Omron HBF-306C Handheld Body Fat Loss Monitor: \$309.99 per monitor x 3 monitors = 1. This monitor is a hand-held device that will measure body fat percentage. Extra Long Wagon: \$145.99 1. This will haul the health screening supplies to the events. Fitted Tablecloth: \$24.99 x 3 = \$74.97 1. These tablecloths will be used on the tables at the health screening event. They are red and will provide a more professional appearance to the event and activities 2. Printing of Health Screening Booklets: \$206.00 200 booklets x \$1.03 per booklet = \$206.00 1. The HHP 4800 students will use these booklets to record the measurements of the health screening participants, who will keep these booklets at the end of the screening. 3. Food Security Education Component: \$696.89 Printing recipe cards: 300 cards x \$0.48 per card = \$144.001. The pricing is from APSU Printing Services as of April 2024.
- Submitted application on May 7, 2024, for \$8,473.37
- Received notification that we received the grant on August 26, 2024

August 26, 2024

### Dear Tyler Nolting,

Congratulations! You have been selected as a Maynard Family Fund of Excellence recipient for fiscal year 2024-2025. You have been granted \$8,473.37 to be used exclusively for Govs Heart and Nutrition Hub: Empowering our Peayple.

### Time Period and Reporting:

As a recipient of the Maynard Family Fund of Excellence, you will be required to complete the following:

- 1. Utilize all of the funding by June 30, 2025.
- Apply all of the funding for Govs Heart and Nutrition Hub: Empowering our Peayple based on the specifications stated in your submitted Maynard Family Fund of Excellence Request Form. Any deviations from the submission must be approved.

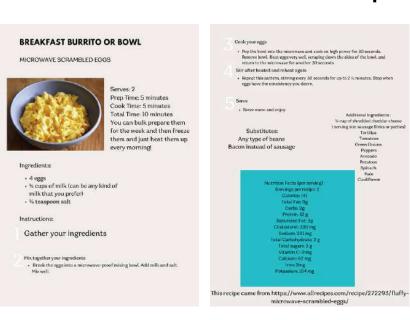
Selected Portion of Congratulations Letter

HHP 4010: Health Education Theory and Practice (Fall 2024): Program Components Created

Event 1 Food Topic: Eating Breakfast to Fuel Your Body and Brain

**Eating Breakfast to Fuel** 

### Recipe Cards



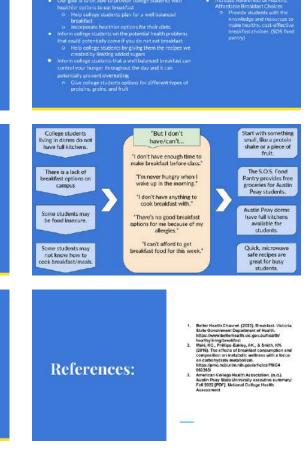
Event 1 included this recipe.



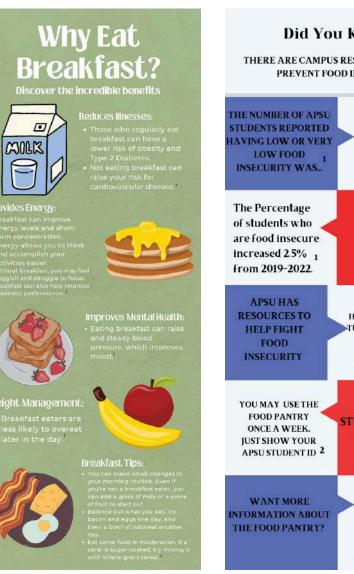


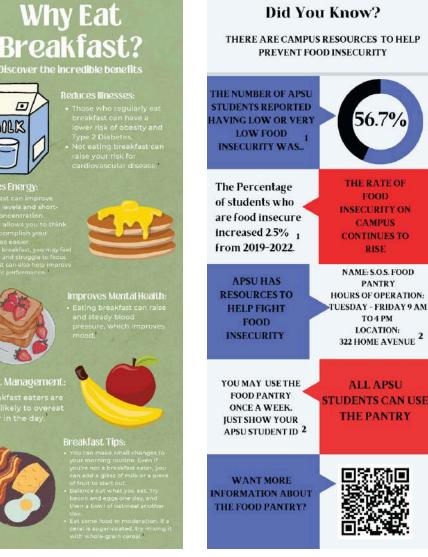
**Key Points Presentation** 

Goals and Objectives:



### Infographics





HHP 4010: Health Education Theory and Practice (Fall 2024): Program Components Created

### **Event 2 Food Topic: Cooking at Home/in Your Room and Packing Your Meals**

### Recipe Cards



Recipes were tailored and adjusted for final implementation.



NUTRITION EDUCATION INFOGRAPHIC:

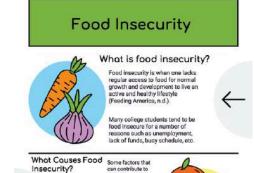


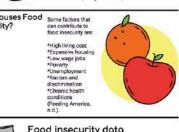
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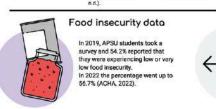




### Infographic











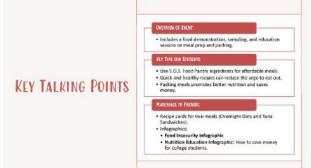
















HHP 4010: Health Education Theory and Practice (Fall 2024): Program Components Created

### **Event 3 Food Topic: Healthy and Fresh Spring Smoothies**

### Recipe Cards



Recipes were tailored and adjusted for final implementation.



### Key Points Presentation



### · Lifts mond · MUST HAVE APSUID · Boosts immune system · Emergency Funds • List of supplies varies

Why breakfast is Important?

Improves concentration and focus

Improves academic performance

· S.O.S. Food Pantry

Monday-Friday 9:00-4:00

Can visit once a week

### REFERENCE Solodev, & FloridaMilk. (n.d.), 10 reasons why you should eat breakfast every day sons why you should eat-breakfast-every day stml

Support our students (S.O.S.) food pantry. SOS Food Pantry. (n.d.).

### Infographic

### **APSU S.O.S. Food Pantry**

### Why Eating Well **Matters for Your** Mind & Body

Do you know that what we consume can affect our concentration and grades?

Without consistent access to healthy food, students tend to experience fatigue and struggle to focus (Loofbourrow & Scherr, 2023). This is where the S.O.S. Food Pantry comes

### What's Available at the Pantry?

The S.O.S. Food Pantry has all the good stuff, and pantry workers also teach you how to make food that feeds your body and mind.

### Available Food Items:

- · Fresh Produce (seasonal fruits, eggs and
- vegetables) Canned Goods
- (vegetables, beans, tuna) · Grains (rice, pasta,
- oatmeal) Proteins (frozen meats)
- · Snacks (granola bars. nuts, dried fruits)



### Want to help out? The S.O.S. Food

Getting

Involved

Pantry is a community-driven resource, and students like you make it possible Raise awareness, donate nonperishables, or volunteer-it's all about students helping students



### DON'T FORGET YOUR STUDENT ID!!!

THE S.O.S FOOD PANTRY IS AVAILABLE FOR ALL APSU STUDENTS ONCE A WEEK AT NO COST.

### DO NOT HESITATE!!

Don't let hunger stand in your way Visit the S.O.S. Food Pantry today to fuel your success!

### Sources:

Loofbourrow, B. M., & Scherr, R. E.

### 322 Home Ave, Clarksville, TN 37040 Saturday - Monday: Closed

Tuesday - Friday: 9 am - 4 pm

about the S.O.S. Food Pantry.



Scholarship of Teaching and Learning: IRB Approval Process (Fall 2024)



Study Title: "Interprofessional Education and Competency Development Among Public Health, Nursing, and Medical Laboratory Science, Students: A Mixed-Methods Study of the Govs Wellness Hub Program"

Student Research Participant Recruitment and Pretesting (Spring 2025)

- Dr. Bliss and Ms. Wills visited participating courses during the first two weeks of the semester to recruit students, obtain informed consent, and administer pretests.
  - Participating Courses:
    - HHP 4800: Capstone for Public Health (Dr. Tyler Nolting)
    - NURS 4050/4051:
       Community and Public
       Health
       Nursing/Community and
       Public Health Nursing
       Clinical (Dr. Tasha Ruffin and Mrs. Mitzi Baker)
    - MTEC 4090: Clinical Hematology (Dr. Heather Phillips

### Selected Recruitment Presentation Slides



NOTE: Social Work 3620: Micro Social Work Practice faculty and students elected not to participate in the study early in the Spring 2025 semester.

### Schedule: First Two Weeks

Week	Class	Activity	Date & Time	Location	
Week 1	eek 1 HHP 4800 First Class Visit		Wed, Jan 22, 11:15- 12:10pm	Dunn Center 282	
		Second Class Visit	Fri, Jan 24, 11:15-12:10pm	Dunn Center 282	
	SW 3620	First Class Visit	Tue, Jan 21, 9:35-11am	McCord 221	
		Second Class Visit	Thu, Jan 23, 9:35-11am	McCord 221	
	NURS 4050	First Class Visit	Wed, Jan 22, 1:50-4:50pm	McCord 340	
	MTEC 4090	Recruitment Session(s)	To be scheduled (Zoom/F2F)	TBD	
	ALL CLASSES	Initial Pretest Email	Fri, Jan 24, 8am	-	
Week 2	NURS 4050	Second Class Visit	Wed, Jan 29, 1:50-4:50pm	McCord 340	
	ALL CLASSES	Reminder Email	Fri, Jan 31, 8am	-	

Explaining the Govs Wellness Hub Program to Students (Spring 2025)

Selected Overview Presentation Slides

- Dr. Nolting visited NURS 4050/4051 early in the semester (January 23, 2025) to explain the Govs Wellness Hub Program.
- He also made a video presentation of these slides to share with all students in all courses involved.

### **Govs Wellness Hub**

A Quick Overview for Students in SW 3620, NURS 4050/4051, MTEC 4090, and HHP 4800

### Overall Student Experience

- Students
  - Will be placed into two groups, one for the Wellness Hub event(s) they will attend and another for their research poster group.
  - Will complete assignments related to the research poster
  - Will attend Wellness Hub event(s)



### Classes/Students Involved

- HHP 4800: Capstone for Public Health • 11 students
- NURS 4050/4051: Community and Public Health Nursing/Community and Public Health Nursing Clinical ~51 students
- MTEC 4090: Clinical Hematology 16 students
- SW 3620: Micro Social Work Practice o 14 students



\*~92 total students

### Required Student Activities: Govs Wellness Hub Events

- 1. Wellness Hub Events: health screenings and nutrition/food security programming a. February II: Eating Breakfast to Fuel
- Your Body and Brain b. March 4: Cooking at Home/In Your
- Room and Packing Your Meals c. March 25: Healthy and Fresh Spring Smoothies
- 2. All events occur from 11 am 1 pm in MUC
  - a. We have it reserved from 10 am 2 pm to allow time for setup and tear down.



### Required Student Activities: Govs Wellness Hub Events (cont.)

3. Each course (except HHP 4800) will be split into thirds creating three cohorts.

- o Cohort 1 implements the 2/11 event.
- Cohort 2 implements the 3/4
- Cohort 3 implements the 3/25
- event. NOTE: Your professor(s) will provide you with the cohort lists.



### Required Student Activities: Govs Wellness Hub Events (cont.)

4. Many items related to the Hub events will be included in your DZL shells throughout the

- · Event "game plans" which will detail the plan for each event.
- Promotional flyers
- · Recipe cards for food security/nutrition programming (SW 3620)
- The healthy heart screening booklets (NURS) 4050, MTEC 4090, and HHP 4800)
- Event supply lists for screenings and food



### **Required Student Activities:** Research Poster Assignments

- 1. Research Poster Assignments
- a. Group Contract Assignment
- b. Introduction/Background Assignment
- c. Methods Assignment d. Results and Conclusions Assignment
- f. Presentations
- i.4/16 at Tennova from 2-4 pm
- NOTE: All assignments will appear in separate files and may contain items like the following:
  - o Assignment Guidelines Grading Rubric
  - Al Disclosure
  - Student Example
  - Video Overview
- ii.4/23 on campus as part of the APSU Student Research and Scholarly Activity Symposium from 8-5 pm in the MUC Ballroom g. Self- and Peer-Evaluation

### **Required Student Activities: Research Poster Possible Topics**

- Total Cholesterol and HDL: Relation to
   Nutrition and the Following: Heart Health
- Blood Pressure: Hypertension
- Blood Glucose, Hemoglobin A1C, and
- Iron Levels and its Importance
- C-Reactive Protein: Relation to CVD
- Physical Activity and CVD Outcomes
- Whole Grains

- Body Composition, Obesity, and CVD
- Fish and Shellfish
- Sodium
- Sugar-Sweetened Beverages
- Fruits and Vegetables
- Nutrition and the Following:
- The Importance of Breakfast The Importance of Preparing Meals
- Healthy Beverages and Smoothies
- Smoking and Vaping and CVD Outcomes

### Required Student Activities: Choosing Topics, Group Leaders, and Group Communication

- With 11 students in HHP 4800, there will be a total of 11 research poster
- Since the HHP 4800 course is centered around this entire Hub and research poster experience, each HHP 4800 student will be designated as the leader of their groups.
- . During the first week of class, HHP 4800 students will select their topics from the previous list.
  - By the end of week 1, they will contact their group via email to begin the research poster assignment journey.
  - All major communication related to the research poster assignments can be directed to the HHP 4800 group leaders first and then to Tyler.

Formation of Teams, Selection of Topics, and Semester Assignments

### Teams

- 10 total teams with each having 1 student from HHP 4800 (designated as the group leader)
- All teams had representation from NURS 4050/4051 and MTEC 4090



### Topics

- Total Cholesterol and HDL: Relation to Heart Health
- Blood Pressure: Hypertension
- Blood Glucose, Hemoglobin, A1C, and Diabetes
- Iron Levels and its Significance
- C-Reactive Protein: Relation to CVD
- Body Composition, Obesity, and CVD
- Nutrition and the Importance of Fish and Shellfish, Whole Grains, and Fruits and Vegetables
- Sodium, Sugar-Sweetened Beverages and Influence on CVD
- Nutrition and the Importance of Breakfast,
   Preparing Meals, and Healthy Beverages and
   Smoothies
- Smoking, Vaping, and CVD



### Assignments

- Group Contract
- Introduction/Background Assignment
- Methods Assignment
- Govs Wellness Hub Event
- Results and Conclusion Assignment
- Research Poster
- Poster Presentation #1: Tennova Healthcare Nursing Research Poster Symposium
- Poster Presentation #2: APSU Student Research
   & Scholarly Activity Symposium



Govs Wellness Hub Events: Important Documents

### Screening Consent Form

### Govs Wellness Hub Health Screening Consent Form Austin Peay State University

### Purpose

This form provides information about health screening procedures conducted at the Govs Wellness Hub in the Morgan University Center Ballroom. This screening event is a collaborative effort between

This screening is for educational and preliminary assessment purposes only. The results are not diagnostic and should not be considered a substitute for a complete medical evaluation. We strongly recommend following up with your healthcare provider to discuss your results and obtain

- Blood Analysis (fingerstick and venous sample)
   Measurement of total cholesterol, HDL, glucose, hemoglobin, hemoglobin A1C, iron, CRP, and hematocrit.
  - nvolves a small lancet puncture to the finger and a small needle puncture to a vein in

### 2. Blood Pressure and Heart Rate

- Recording of systolic/diastolic pressure and heart rate
- Height and weight measurements for BMI calculation
- Body fat percentage using handheld bioelectrical impedance analysis (BIA)

- Blood Analysis

  Possible bruising or minor discomfort at the puncture sites Potential lightheadedness or dizziness
- Minimal risk of infection

### Blood Pressure Measuremen

- BIA is not recommended for individuals with electronic medical implants or who are pregnar
- Measurements are taken with attention to privacy, but some disclosure of measurements ma

2/2/2025

### Govs Wellness Hub Health Screening Consent Form Austin Peay State University

### Participant Agreement

By signing below, I acknowledge and agree that:

- Tam at least 18 years of age and an APSU student
   I understand this is a screening only and not a diagnostic medical examination
   Thave been informed of the potential risks

- I may decline any part of the screening at any time
  The screening is performed by students under faculty
- All information collected will be kept confidential I should seek medical care for any concerning results
   I am responsible for any follow-up medical care and associated cost

### Medical Emergency Protocol

Appropriate medical services will be contacted in case of an emergency during the screening. Any costs associated with emergency care or follow-up medical treatment are the participant's

### Consent

Emergency Contact:

### Health Information (check all that apply)

☐ History of fainting with blood draws

□ Pregnancy

□ Other medical conditions

Bleeding disorders

### Screening Reference Guide

### **Healthy Heart Screening Reference Guide** Govs Wellness Hub Event - Austin Peay State University

Measurement	Your Numbers	Low Risk	Moderate Risk	High Ri
Total Cholesterol (mg/dL)		≺200	200-239	≥240
HDL (mg/dL) - Women		≥60	50-59	<50
HDL (mg/dL) - Men		≥60	40-59	<40
Total Cholesterol/HDL Ratio - Women		<3.0	3.0-4.4	>4.4
Total Cholesterol/HDL Ratio - Men		<3.5	3.5-5.0	>5.0

Blood Glucose and Hemoglobin A1C				
Measurement	Your Numbers	Low Risk	Moderate Risk	High Risk
Non-fasting Glucose (mg/dl)		<140	140-199	≥200
Fasting Glucose (mg/dL)		599	100-125	2126
Hemoglobin A1□	/4 in	Normal: <5.7%	Pre-diabetic: 5.7-5.4%	Diabetic: >6.4%

Analyte	Your Numbers	Low	Normal	High
Hemoglobin – Men (g/dL)		<13.5	13.5-17.5	>17.5
Hemoglobin – Women (g/dL)		<12	12-16	>16
Iron – Men (g/dL)		<50	50-150	>150
Iron – Women (mcg/dt)		<35	35-145	>145
CRP* (mg/dL)		<1	1-3	53
Hematocrit – Men (%)		<41	41-50	>50
Hematocrit – Women (%)		<36	36-44	>44

### 35-39.9 (Class 2 Obesit

### 23-33.9% 34-39.9% 24-35.9% 36-41.9% 8-19.9% 20-24.9%

ood Pressure and Heart Rate our Blood Pressure Reading Today:			
Measurement	Your Number		
ystolic (upper number)	mmHg		
iastolic (lower number)	mmHg		

Heart Rate Your Number Normal High

Blood Pressure Category	Systolic (upper number)		Diastolic (lower number)
Normal	Less than 120	and	Less than 80
Elevated	120-129	and	Less than 80
High Blood Pressure (Hypertension) Stage 1	130-139	or	80-89
High Blood Pressure (Hypertension) Stage 2	140 or higher	or	90 or higher
Hypertensivo Crisis (consult vour doctor Immediately)	Higher than 180	and/or	Higher than 120

esting Heart Rate (bpm)	60-100 >100			
et and Nutrition				
Measurement	Your Numbers	Low Risk	Moderate Risk	19
and the later and for the formation	7 7	-0.E	-OAn of E	in.

Meastrement	Tour Numbers	TOW BUSIN	IVIOLIEF ALE PUSA.	THE WHOLE IS
Vegetables and Fruits (cups/day)		≥4.5	>0 to <4.5	D
Fish/Shellfish (3.5-oz servings/week)		≥2	>0 to <2	0
Whole Grains (1 oz servings/day)		≥3	>0 to <3	0
Sodium (mg/day)		S1,500	>1,500 to <4,500	≥4,500
Sugar-sweetened beverages (fl oz/week)		≤36	>36 to <210	≥210

Activity Type	Your Numbers	Low Risk	Moderate Risk	Hgh Rk
Moderate-Intensity Aerobic (min/week)		≥150	>0 to <150	0
Vigorous-Intensity Aerobic (min/week)		≥75	>0 to <75	0
Muscle-Strengthening (days/week)		≥2	1	0

### QUESTIONS FOR PHYSICAL ACTIVITY, **DIET, AND SMOKING STATION**

### PHYSICAL ACTIVITY QUESTIONS

- · How many minutes of aerobic activity do you get per week when your heart rate is increased but you can still have a conversation with someone?
- · How many minutes of aerobic activity do you get per week when your heart rate is increased but you cannot have a conversation with someone?
- How many times per week do you do strength training where you are exercising all your major muscle groups?

### **DIET QUESTIONS**

- . How many cups of vegetables and fruit do you eat in a day? Imagine a cup being the size of your fist.
- How many servings of fish do you eat in a week? One serving is about the size of a deck of cards.
- . How many servings of whole grains do you eat per day? One serving of whole grain is a slice of whole grain toast; a half-cup of cooked oatmeal, pasta, or rice; or a cup of dry cereal.
- How much salt do you consume per day? Remember, one teaspoon of salt is about 2,300 mg.
- How many ounces of sugar-sweetened beverages do you drink per week? Remember, a can of soda is usually 12 ounces.

### **SMOKING QUESTIONS**

- Do you smoke tobacco products (e.g., cigarettes, cigars, cigarillos, etc.)?
- · Do you vape?

Govs Wellness Hub Events: Important Documents

Govs Wellness Hub Student Participant Survey

### Govs Wellness Hub Survey 2025

Thank you for your willingness to complete this survey for the Govs Wellness Hub event. This survey contains questions about your health and family history. This survey may take anywhere between 5-10

This survey will help Austin Peav State University students better understand what they gained from the health screenings and nutrition education programming. We greatly appreciate you taking the time to complete the survey, and we all hope you enjoyed your experience at the Govs Wellness Hub event!

### Q1: What is your age?

- a. 18-24 years old
- b. 25-34 years old
- c. 35-44 years old d. 45-54 years old
- e. 55 years or older

### Q2: What gender do you identify as?

- h Female c. Non-binary
- d. Transgender
- e. I prefer not to answer
- f. Other

### Q3: Please specify your race:

- a. African American b. Latino or Hispanic
- c. Caucasian
- e. Native American f. Native Hawaiian or Pacific Islander
- g. Bi- or Multi-racial
- h Prefer not to answer
- i. Other/Unknown

### Q4: Are you married?

- c. In a domestic partnership d. Prefer not to answer

Q5: How many children do you have?

- c. 2-4
- d. More than 4
- e. Prefer not to answer

### Q6: What is your military affiliation status? (Select all that apply)

- a. Currently serving in Active Duty
- b. Currently serving in the National Guard/Reserves
- c. Veteran/Former Service Member
- d. Military dependent/spouse
- e. Military dependent/child
- f. ROTC Student
- g. No military affiliation
- h. Prefer not to answer

### Part 2: Hub-Related Questions

### Topic: Blood Pressure: Hypertension (Madison)

### Q7: Which of the following is considered a normal blood pressure reading?

- a. 116/82 mmHg
- b. 134/68 mmHs
- c. 126/72 mmHg d. 118/76 mmHg
- e. I'm not sure

### Q8: How do you manage stress that may impact your blood pressure?

### Topic: Total Cholesterol and HDL: Relation to Heart Health (Chasity)

- Q9: Which of the following is considered a healthy total cholesterol?
- a. 221 mg/dL
- b. 254 mg/dl
- c. 178 mg/dL
- d. None of the above

### Q10: Explain how you can increase your HDL levels

### Topic: C-Reactive Protein: Relation to CVD (Christianna

Q11: Do you smoke (e.g., cigarettes, marijuana, vape, etc.)?

- c. Used to, but quit

### O12: How many hours of sleep do you get every night?

- a. Less than 4 hours
- b. 4-6 hours
- c. 7-9 hours d. More than 9 hours

### Q13: Describe your daily stress levels.

### Topic: Iron Levels and its Importance (Hannah)

### Q14: Which of these reflects healthy or normal iron levels? (g/dL for men; mcg for women)

- b. 135

### Q15: How can you change your diet to increase and/or maintain your iron levels?

### Topic: Nutrition and the Importance of Fish and Shellfish, Whole Grains, and Fruits and Vegetables

Q16: How often do you eat the following food groups during the week?

### Fish and Shellfish:

- a. Never b. 1-2 times
- c. 3-4 times
- d. 5 or more times

### Whole Grains:

- b. 1-2 times
- d. 5 or more times

### Fruits and Vegetables:

- a. Never
- b. 1-2 times
- c. 3-4 times

### Q17: How would you explain the role of fish, shellfish, whole grains, and fruits and vegetables in promoting heart health and preventing cardiovascular disease?

### Topic: Body Composition, Obesity, and CVD (Gazala)

Q18: Does your family have a history of obesity?

- c. I don't know
- d. I prefer not to say

### Q19: How often do you eat fast food?

- a All the time (6-7 times per week)
- b. Often (3-5 times per week)
- c. Sometimes (1-2 times per week)
- d. Rarely (1-3 times per month)

### Q20: Do you feel that your body composition affects your daily life? Why or why not?

### Topic: Blood Glucose, Hemoglobin A1C, and Diabetes (Shalaya

### Q21: Which of the following A1C levels is considered in the pre-diabetic range?

- b. 5.7 c. 6.8
- d. None of the above

### Q22: How can you reduce and/ or manage diabetes now or in the future?

### Topic: Sodium, Sugar-Sweetened Beverages and Influence on CVD (Abby)

### Q23: On average, how many sugar-sweetened drinks do you consume weekly?

- b. 1-3
- Q24: How do you feel after drinking sugar-sweetened beverages in the short and long term?

### Topic: Nutrition and the Importance of Breakfast, Preparing Meals, and Healthy Beverages and Smoothies (MacKenzie)

O25: How many times a week do you eat breakfast?

a. 0-2

- b. 3-4
- c. 5 or more

Q26: Preparing my meals at home helps me reduce my overall daily calorie intake.

- a. Strongly agree
- b. Agree
- c. Neither agree nor disagree
- d. Disagree
- e. Strongly disagree

Q27: Describe your ideal healthy beverage or smoothie.

### Topic: Smoking, Vaping, and CVD (Farrin)

Q28: Do you smoke cigarettes or vape?

- a. No

Q29: Vaping is associated with cardiovascular disease.

- a. Strongly Agree
- c. Neither agree nor disagree
- d. Disagree
- e. Strongly disagree

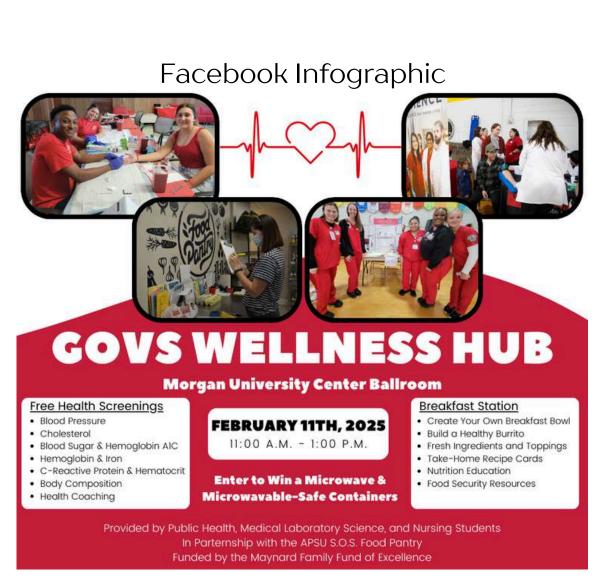
Q30: Describe personal experiences and/or exposures to smoking and/or vaping throughout your life.

Govs Wellness Hub Events: Important Documents

Pre- and Post-Hub Journal Reflections: Dr. Bliss followed the below email schedule to send initial and reminder emails to research study participants.

Week	Dates	Cohort	Event/Prompt Type	Action	Date & Time	Location
Week 3	Feb 3 - Feb 9	Cohort 1	Pre-Hub Reflection	Initial Email	Mon, Feb 3, 8am	-Cohort 1 Email List
				Reminder Email	Wed, Feb 5, 8am	-Cohort 1 Email List
Week 4	Feb 10 - Feb 16	Cohort 1	Hub Event	Event	Tue, Feb 11, 11am-1pm (reserved 10 am – 2 pm)	MUC Ballroom
			Post-Hub Reflection	Initial Email	Wed, Feb 12, 8am	-Cohort 1 Email List
0				Reminder Email	Fri, Feb 14, 8am	-Cohort 1 Email List
Week 6	Feb 24 - Mar 2	Cohort 2	Pre-Hub Reflection	Initial Email	Mon, Feb 24, 8am	-Cohort 2 Email List
				Reminder Email	Wed, Feb 26, 8am	-Cohort 2 Email List
Week 7	Mar 3 - Mar 9	Cohort 2	Hub Event	Event	Tue, Mar 4, 11am-1pm (reserved 10 am – 2 pm)	MUC Ballroom
			Post-Hub Reflection	Initial Email	Wed, Mar 5, 8am	-Cohort 2 Email List
				Reminder Email	Fri, Mar 7, 8am	-Cohort 2 Email List
Week 9	Mar 17 - Mar 23	Cohort 3	Pre-Hub Reflection	Initial Email	Mon, Mar 17, 8am	-Cohort 3 Email List
				Reminder Email	Wed, Mar 19, 8am	-Cohort 3 Email List
Week 10	Mar 24 - Mar 30	Cohort 3	Hub Event	Event	Tue, Mar 25, 11am-1pm (reserved 10 am – 2 pm)	MUC Ballroom
			Post-Hub Reflection	Initial Email	Wed, Mar 26, 8am	-Cohort 3 Email List
3				Reminder Email	Fri, Mar 28, 8am	-Cohort 3 Email List
Week 14	Apr 21 - Apr 27	Cohorts 1-3	Final Hub Reflection	Initial Email	Thu, Apr 24, 8am	-Cohorts 1-3 Email List
				Reminder Email	Fri, Apr 25, 8am	-Cohorts 1-3 Email List

Govs Wellness Hub Event #1: Promotional Flyer and Facebook and Instagram Infographics





### **GOVS WELLNESS HUB**

**Morgan University Center Ballroom** 

### FEBRUARY 11TH, 2025

11:00 A.M. - 1:00 P.M.

### Free Health Screenings

- Blood Pressure
- Cholesterol
- Blood Sugar & Hemoglobin A1C
- Hemoglobin & Iron
- C-Reactive Protein & Hematocrit
- Body Composition
- · Health Coaching

### **Breakfast Station**

- Create Your Own Breakfast Bowl
- Build a Healthy Burrito
- Fresh Ingredients and Toppings
- Take-Home Recipe Cards
- Nutrition Education
- Food Security Resources

### Enter to Win a Microwave & Microwavable-Safe Containers

Provided by Public Health, Medical Laboratory Science, and Nursing Students In Parternship with the APSU S.O.S. Food Pantry Funded by the Maynard Family Fund of Excellence

### Instagram Infographic



### **GOVS WELLNESS HUB**

**Morgan University Center Ballroom** 

### FEBRUARY 11TH, 2025

11:00 A.M. - 1:00 P.M.

### Free Health Screenings

- Blood Pressure
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- · Body Composition
- Health Coaching

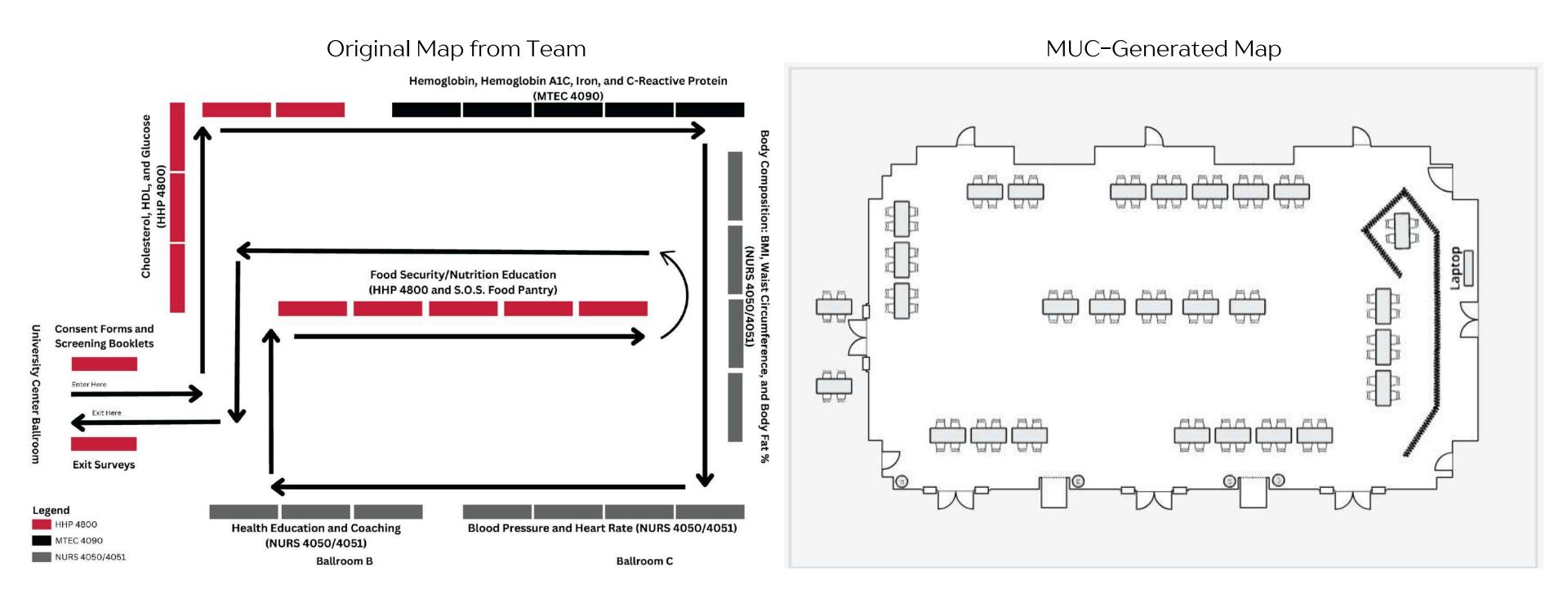
### Breakfast Station

- Create Your Own Breakfast Bowl
- Build a Healthy Burrito
- Fresh Ingredients and Toppings
- Take-Home Recipe Cards
- Nutrition Education
- Food Security Resources

### Enter to Win a Microwave & Microwavable-Safe Containers

Provided by Public Health, Medical Laboratory Science, and Nursing Students
In Parternship with the APSU S.O.S. Food Pantry
Funded by the Maynard Family Fund of Excellence

Govs Wellness Hub Event #1: Map of MUC Ballroom



Govs Wellness Hub Event #1: Social Media Infographic Recaps





**MUC BALLROOM** 

February 11, 2025







Instagram Infographic Recap











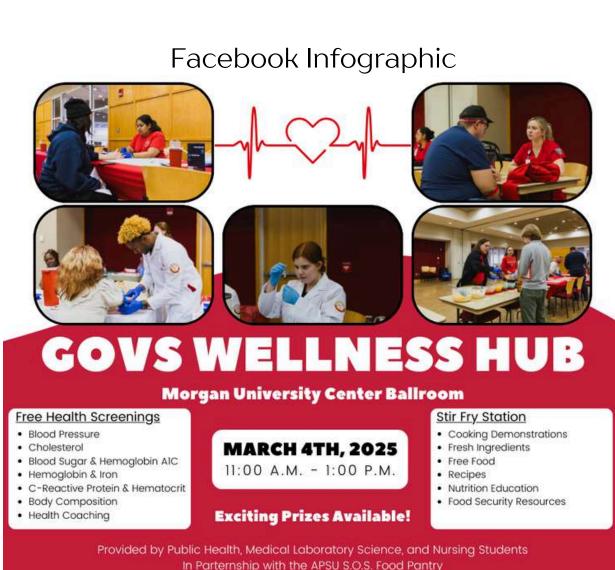




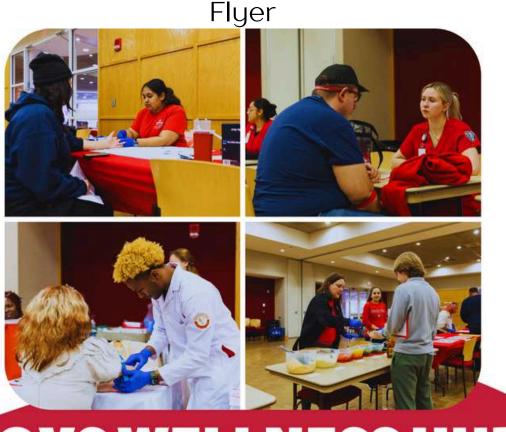




Govs Wellness Hub Event #2: Promotional Flyer and Facebook and Instagram Infographics



Funded by the Maynard Family Fund of Excellence



### **GOVS WELLNESS HUB**

**Morgan University Center Ballroom** 

MARCH 4TH, 2025 11:00 A.M. - 1:00 P.M.

### Free Health Screenings

- Blood Pressure
- Cholesterol
- Blood Sugar & Hemoglobin A1C
- Hemoglobin & Iron
- C-Reactive Protein & Hematocrit
- Body Composition
- Health Coaching

### Stir Fry Station

- Cooking Demonstrations
- Fresh Ingredients
- Free Food
- Recipes
- Nutrition Education
- Food Security Resources

### **Exciting Prizes Available!**

Provided by Public Health, Medical Laboratory Science, and Nursing Students
In Parternship with the APSU S.O.S. Food Pantry
Funded by the Maynard Family Fund of Excellence

### Instagram Infographic









### **GOVS WELLNESS HUB**

**Morgan University Center Ballroom** 

### MARCH 4TH, 2025 11:00 A.M. - 1:00 P.M.

### Free Health Screenings

- Blood Pressure
- Cholesterol
- Blood Sugar & Hemoglobin AIC
- Hemoglobin & Iron
- C-Reactive Protein & Hematocrit
- Body Composition
- Health Coaching

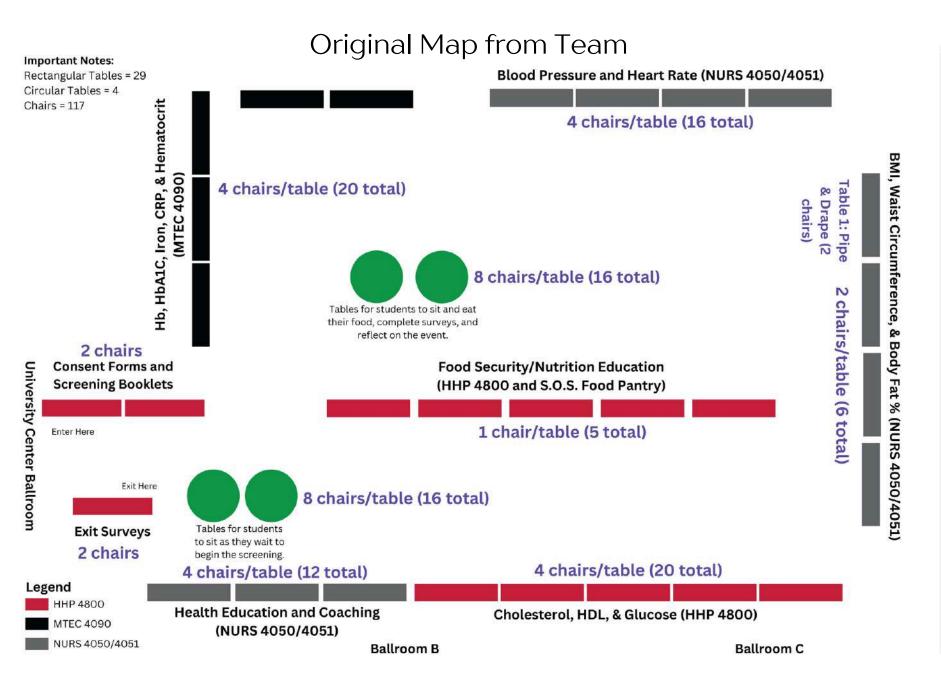
### Stir Fry Station

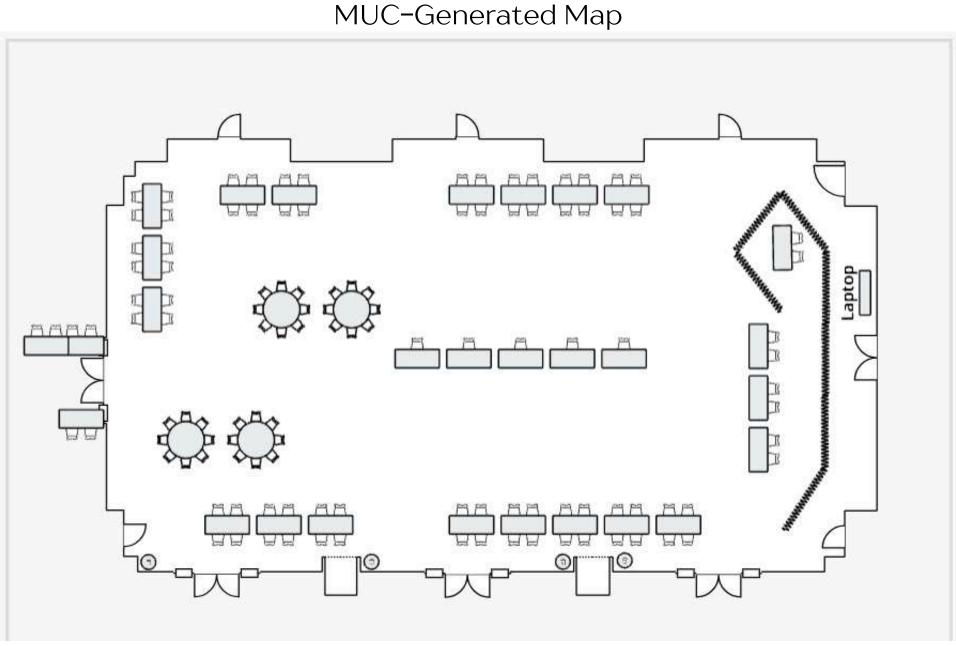
- Cooking Demonstrations
- Fresh Ingredients
- Free Food
- Recipes
   Nutrition Education
- Food Security Resources

### **Exciting Prizes Available!**

Provided by Public Health, Medical Laboratory Science, and Nursing Students
In Parternship with the APSU S.O.S. Food Pantry
Funded by the Maynard Family Fund of Excellence

Govs Wellness Hub Event #2: Map of MUC Ballroom





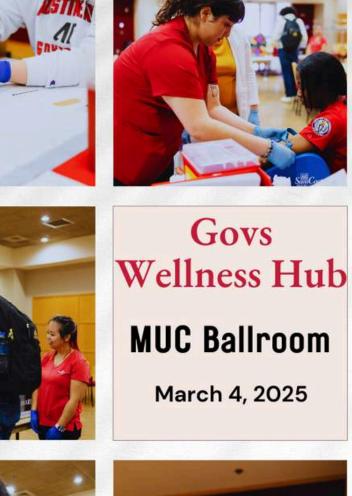
Govs Wellness Hub Event #2: Social Media Infographic Recaps

Facebook Infographic Recap

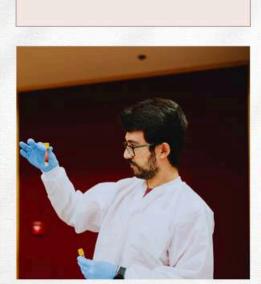
Instagram Infographic Recap

















Govs Wellness Hub Event #3: Promotional Flyer and Facebook and Instagram Infographics





### Instagram Infographic













### **GOVS WELLNESS HUB**

**Morgan University Center Ballroom** 

### **MARCH 25TH, 2025** 11:00 A.M. - 1:00 P.M.

### Free Health Screenings Blood Pressure

- Cholesterol
- Blood Sugar & Hemoglobin AIC
- · Hemoglobin & Iron
- . C-Reactive Protein & Hematocrit
- · Body Composition
- Health Coaching

### Healthy & Fresh Spring

### <u>Smoothies</u>

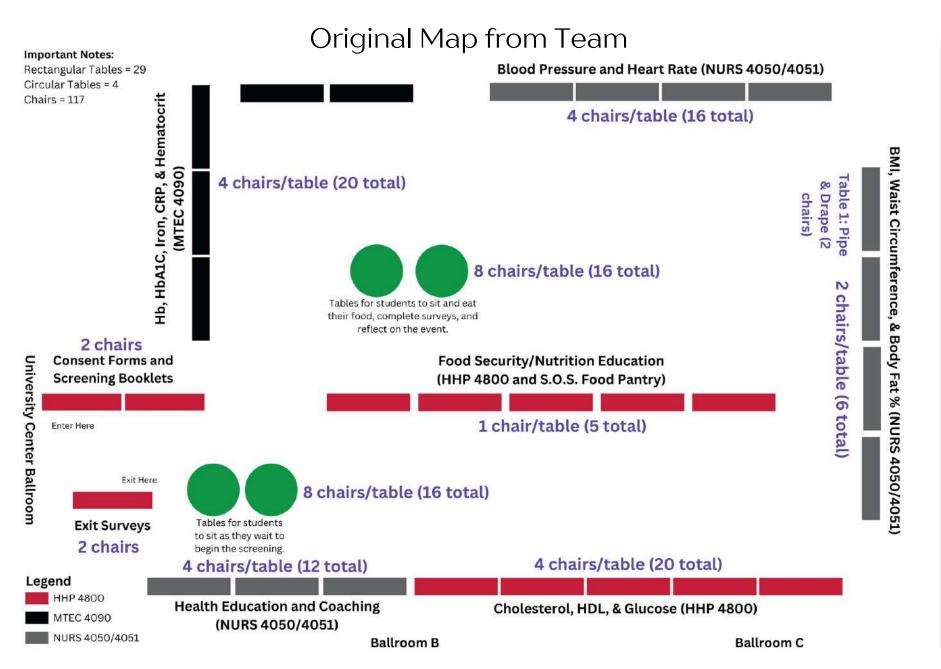
- Smoothie Demonstrations
- Fresh Ingredients
- Free Smoothies
- Recipes
- Nutrition Education Food Security Resources

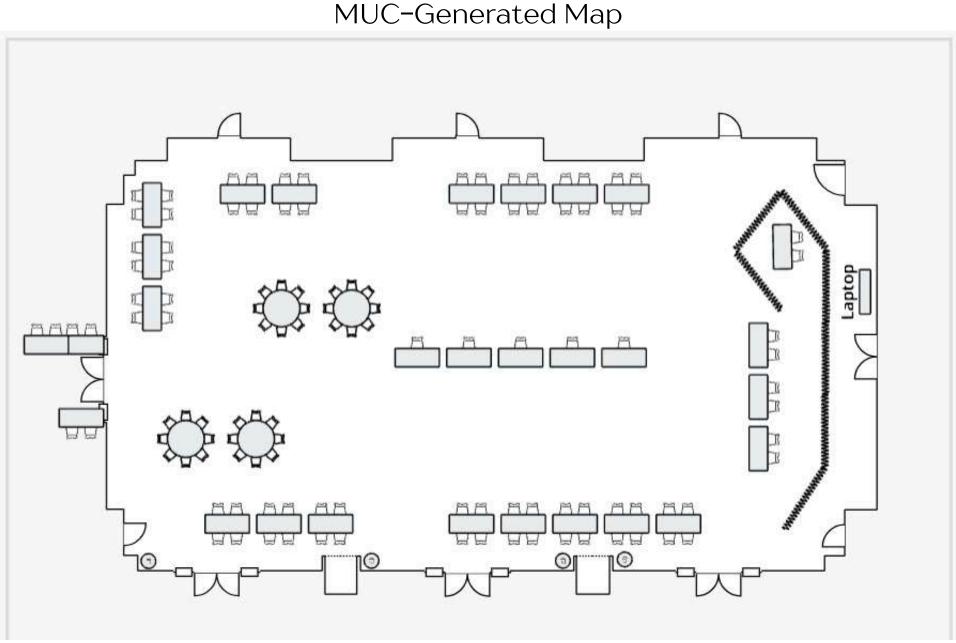
### **Exciting Prizes Available!**

Provided by Public Health, Medical Laboratory Science, and Nursing Students In Parternship with the APSU S.O.S. Food Pantry Funded by the Maynard Family Fund of Excellence

In Parternship with the APSU S.O.S. Food Pantry Funded by the Maynard Family Fund of Excellence

Govs Wellness Hub Event #3: Map of MUC Ballroom





Govs Wellness Hub Event #3: Social Media Infographic Recaps

Facebook Infographic Recap









Instagram Infographic Recap





Govs Wellness Hub

March 25, 2025, MUC Ballroom







March 25, 2025, MUC Ballroom













Govs Wellness Hub Event Summary

APSU Govs Wellness Hub – Spring 2025 Wrap-Up 🎉

- Program Highlights:
  - Led by students from HHP 4800, MTEC 4090, NURS 4050/4051, & Phlebotomy Tech
- By the Numbers:
  - 3 campus-wide wellness events
  - 160+ participants received health screenings
  - ~200 total participants
  - 69% survey response rate
  - 10+ faculty/staff supported the program
- Special Thanks:
  - Student leaders: Patrick Richardson & Shannon Slotwinski
  - Community partners: Ka'Niya Williamson (UT-Extension) & Nancy Proctor (Montgomery Co. Health Dept.)
  - Supportive faculty/staff: Dr. Phillips, Natalie DoVanne, Dr. Ruffin, Mrs. Baker, Dr. Bliss, Mrs. Lahann, Ms. Wills, and Paola Nolting
- Thank you to all who contributed to this successful initiative!













Tennova Healthcare Nursing Research Day Poster Symposium (April 16, 2025, 2:00 - 4:00 p.m.)



### TEAM 1

Abby Robertson: Group Leader (HHP 4800)

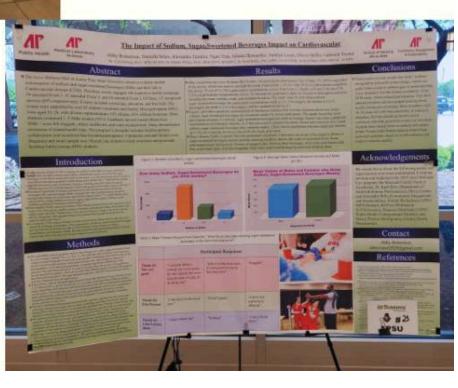
Daniella Stiles: MTEC 4090 Alexandra Tanafon: MTEC 4090 Ngan Tran: NURS 4050/4051

Johana Hernandez: NURS 4050/4051

Jacklyn Lucas: NURS 4050/4051 Olivia Heflin: NURS 4050/4051 Gabriela Trester: NURS 4050/4051

### POSTER TITLE

The Impact of Sodium and Sugar-Sweetened Beverages on Cardiovascular Health





### The Impact of Sodium, Sugar-Sweetened Beverages Impact on Cardiovascular

School of Nursing RN to BSN



Abby Robertson, Daniella Stiles, Alexandra Tanafon, Ngan Tran, Johana Hernandez, Jacklyn Lucas, Olivia Heflin, Gabriela Trester Dr. Tyler Nolting, Ph.D., MPH, MCHES, Dr. Heather Phillips, Ph.D., MLS(ASCP), MT(AMT), Dr. Tasha Ruffin, DNP, APRN, AG-ACNP-BC, & Mitzi Baker, MSN, FNP-BC, ACHPN

The Govs Wellness Hub at Austin Peay State University aimed to evaluate student consumption of sodium and sugar-sweetened beverages (SSBs) and their link to Cardiovascular disease (CVD). The three events engaged 160 students in health screenings: 59 attended Event 1, 51 attended Event 2, and 50 attended Event 3, Of these, 111 completed sponse rate). Events included screenings, education, and free food. The ported by over 85 student volunteers and faculty. Most participants (84%) students consumed 1-3 SSBs weekly (55%). Feedback showed varied effects from collaboration and incentives that boosted participation. Limitations included limited event frequency and small sample size. Overall, the initiative raised awareness and promoted healthier habits among APSU students.

### Results

After completing the Govs Wellness Hub Events, 160 participants participated. Out of these, 111 (69%) responded to the survey, which was used to conclude the event. From Event 1, 36 out of the 59 (61%) participants completed the survey. 39 out of 51 (76%) participants completed the survey from Event 2. Finally, at Event 3, 36 out of 50 (72%) of participants completed the survey. To calculate the quantitative data, we focused on descriptive statistics, including the mean, median, mode, and standard deviation. The mean value for how many sodium. ugar-sweetened beverages the participants consumed per week is 2 (1-3 beverages), the median is 2 (1-3 beverages), the mode is 2 (1-3 beverages), and the standard deviation is 1. Figure 1 provides a graphical representation of descriptive statistics that includes responses about how many

sodium, sugar-sweetened beverages are consumed weekly by survey participants. This graph shows that most etered beverages they consume weekly. There was no significance between males and females

sugar-sweetened beverages and are actively choosing healthier options like water or unsweetened tea. Some

### Conclusions

guide future events to address gaps in understanding A key limitation was the limited availability of the HUB event, which reduced participation. Free food confusion, and clear goals help events run smooth Students have varied views on sodium and sugary drinks. Future public health students should keep goals and questions simple to avoid confusion and

Acknowledgements

organizations who were instrumental in helping develop and implement the 2025 Govs Wellness Gov program: the Maynard Family Fund of Health & Human Performance), Olivia Lahann

and Sustainability), Patrick Richardson (APSU MPH Student), Ka'Niya Williamson UT-Extension), Shannon Slotwinski (APSU ublic Health Undergraduate Student), and ancy Proctor (Montgomery County Health

Contact

### Introduction

### Figure 1: Number of sodium, sugar-sweetened beverages drank

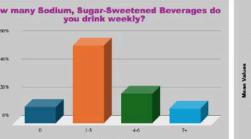


Figure 2: Average Mean Values Between Female and Male

Mean Values of Maies and Females who Drink Sodium, Sugar-Sweetened Beverages Weekly

'Nothing"

jor	Themes Present From Question beverages in the	on, "How do you feel after drii e short and long term?"	nking sugar-sweetened	
	P	articipant Responses		A A A A A A A A A A A A A A A A A A A
•	"I actually think a normal can is too much for me. I prefer the even smaller cans of soda if I do drink one"	"Like it in the short term it's not good for you in the long term"	"Sluggish"	
	"I feel fine for the most	"Good I guess"	"I don't feel	

"I don't drink



### References

### Methods

Fine/Normal

Theme #3:

"I don't drink that'

Tennova Healthcare Nursing Research Day Poster Symposium (April 16, 2025, 2:00 - 4:00 p.m.)



### TEAM 2

Christianna Evans: Group Leader (HHP 4800)

Milynn Page: NURS 4050/4051 Alexa Hunt: NURS 4050/4051

Mackenzie Woodley: NURS 4050/4051

Jason Park: NURS 4050/4051 Shelbee Davis: NURS 4050/4051

Sara Brown: MTEC 4090 lan Darden: MTEC 4090

### POSTER TITLE

C-Reactive Protein in Relation to Cardiovascular Disease



### C-Reactive Protein in Relation to Cardiovascular Disease

Milynn Page, Alexa Hunt, Mackenzie Woodley, Jason Park, Shelbee Davis, Christianna Evans, Sara Brown, & Ian Darden

Dr. Tyler Nolting, Ph.D., MPH, MCHES, Dr. Heather Phillips, Ph.D., MLS(ASCP), MT(AMT), Dr. Tasha Ruffin, DNP, APRN, AG-ACNP-BC, & Mitzi Baker, MSN, FNP-BC, ACHPN

Sciences Austin Peay State University, Department of Health and Human Performance, School of Nursing, & Department of Allied Health Sciences Perform ances

CONCLUSIONS

### **ABSTRACT**

### INTRODUCTION

### **METHODOLOGY**

RESULTS

CRP) levels in relation to cardiovascular disease, a mixed-methods approach vas used during three Wellness Hub events held in Spring 2025.

ncluded blood draws for hemoglobin, hemoglobin A1c and CRP testing (using the latex agglutination principle for qualitative results), blood pressure checks, BMI, and waist circumference measurements. CRP testing required materials such as gold serum separator tubes, a centrifuge, latex reagent, glycine saline olution, pipets, test cards, a timer, and control samples.

nd cardiovascular risk. Surveys were administered at the end of each event via QR codes and links, collecting both demographic information and responses to mix of quantitative and qualitative questions developed by 10 different ident groups. Quantitative data, including CRP results and health metrics, ere analyzed using Microsoft Excel and Qualtrics, while qualitative respon were thematically reviewed to identify patterns in health behaviors. This study provided insight into how sleep, diet, and exercise may be associated with inflammation and cardiovascular health in a college student population.

Specifically, we focused on the level of C-reactive protein (CRP) in relation to smoking, as it is a known factor that can contribute to inflammation and ncrease the risk of cardiovascular disease. Among the 97 participants who

Within three different HUB events, 124 individuals participated in CRP

### ACKNOW LEDGEMENTS

### CONTACT

REFERENCES

to access all of the references cited within the poster.



### responded to the survey question about smoking, 67 individuals, approximately 69.1%, reported that they do not use smoking products such as cigarettes, marijuana, or vapes. While comparing demographic data, we also observed that a majority of our participants analyzing potential health disparities and risk factors related to CRP and cardiovascular health. However, when comparing the population of smokers with race, age, gender, amount of sleep, and military affiliation, the t-tests proved to be less than a P-value of 0.05. This means that there is no statistical significance within the participant's lifestyle and any observed differences are most likely due to random, undiscovered bias. CRP Test Results analysis, and only 5 individuals were found to have reactive results. This indicates that approximately 4% of participants were experiencing some form of inflammation, resulting in elevated CRP levels.

Do you smoke (cigarettes, marijuana, vape, etc.)

Tennova Healthcare Nursing Research Day Poster Symposium (April 16, 2025, 2:00 - 4:00 p.m.)



### TEAM 3

Chasity Dubois: Group Leader (HHP 4800)

Diego Alcala: MTEC 4090 Emily Bau: MTEC 4090

Skylar Catlett: NURS 4050/4051 Morgan Hughes: NURS 4050/4051 Junsub Kim: NURS 4050/4051

Miranda Richardson: NURS 4050/4051

### POSTER TITLE

Total Cholesterol and HDL: Relation to Heart Health in College Students



### Total Cholesterol and HDL: Relation to Heart Health in College Students

Chasity Dubois, Diego Alcala, Emily Bau, Skylar Catlett, Morgan Hughes, Junsub Kim, Miranda Richardson, Dr. Tyler Nolting, Ph.D., MPH, MCHES, Dr. Heather Phillips, Ph.D., MLS(ASCP), MT(AMT), Dr. Tasha Ruffin, DNP, APRN, AG-ACNP-BC, & Mitzi Baker, MSN, FNP-BC, ACHPN

Austin Peay State University, Department of Health and Human Performance, School of Nursing, & Department of Allied Health Sciences

### Austin Peay State University CLARKSVILLE @ TENNESSEE

Austin Peay
State University
Medical Laborator
Science

AIP
AUSTIN Peay
State University
CLARSVILLE OF PURPLES
School of Nursing

### . Abstract

For our poster, we are informing college students about total cholesterol and HDL in relation to their heart. Total Blood. Cholesterol is the sum of both your High- high-density lipoprotein (HDL) and low-density lipoprotein (HDL) plus 20% of your Triglyce-ride level. Your high-density lipoprotein (HDL) is called your "healthy" cholesterol, and this may help to protect against heart attacks and strokes. The Low-Density Lipoproteins (LDL), or your "had" cholesterol, can be lowered by talking with your healthcare provider. Triglyce-rides are the most common fat in your body, and there are many factors that contribute to them, like obesity, physical inactivity, eating processed foods, alcohol consumption, excess sugar intake, and many others. We have had 111 participants at our three Hub events for testing college students and informing them about their high and low cholesterol levels. With the Hub events to test Total Cholesterol and HDL, the materials and tools we are using are one pair of proper-fitting gloves, one alcohol swab, one lancet, one capillary tube, one plunger, one testing strip, one cassette, one band—aid, one cholestech mechine, and one disposable underpad. Some lessons from doing the past two hub events for my group are always working together, making sure everyone is very informed on what we are testing for, and making sure to always have—their consent. We surveyed all three events which are shown in the graphs below there were two questions for our topic presented at the events and there were 89 who answered our questions.

### 2. Introduction

Total blood cholesterol represents the sum of your high-density lipoprotein (HDL) and low-density lipoprotein (LDL), plus 20% of your trigly certide level. HDL is considered the "healthy" cholesterol, as it may aid in protecting against heart attacks and strokes by transporting excess cholesterol from the article of the articles have to the third of the articles and strokes by transporting excess cholesterol for earlying cholesterol from the liver to the articles, where it can build up and cause dangerous plaques to form. This is why high levels of total cholesterol and LDL are associated with an increased risk of atherosclerosis and cardiovascular disease, while higher or normal HDL levels are linked to a protective effect on heart health (4). Triglycerides are the most common fit in your body and there are many it festlyle featers as well as normal fluctuations as we age that contribute to higher levels (1,7). Research indicates there are lifestly lefactors that also influence cholesterol levels, highlighting the importance of early intervention to reduce cardiovascular risk such as aerobic activity, not smoking, limiting alcohol, and eating foods with healthy omega-3 fats while limiting unbeatify fats and added sugar(2,3,5,6). We are still constantly learning about how these levels—affect us, for example, certain studies have shown that increased HDL levels may not provide the full cardiovascular protection we—once thought, as the quality in function of HDL does not seem to increase with higher levels. Although reference ranges for cholesterol have been established by the AHA, more research needs to be done to better understand the correlation between ethnicity, age, and other lifestyle factors than need to be taken into consideration to provide a more personalized and accurate risk assessment of cardiovascular health (8).

### 3. Methods

The study design used for this project used a mixed methods research approach, which included quantitative questions. The participants were APSU college students, and around 160 attended the events, but we only had 111 survey respondents, 46% were male, 53% were female, and 1% were transgender, with the majority being 18-24(84%). The other ages were 25-34 (11%), 35-44(43%) and 45-54(19%). When coming to race, most of our population was African American (43%), Caucasian (33%) was a close second, and our least were Native Americans, just at 1%. Most of this population was ammaried (48%) and had no children (90%). Most participants were not multilary affiliated (68%), and 36% had some form of military affiliation. The materials that we used were gloves(S, M, L, XL), lancets, alcohol swabs, capillary tubes, plungers, testing strips, cassettes, band-aids, Cholestech machine, underpads, straight/butterfly needles, cotton balls, needle huss, isopropyl alcohol sachets, gold SST/ tiger top/orange/gray marble top/purple top vacutainers, small centrifuges, sharps containers, blue arm wedge, hand sanitizer, CRPHgbh/HcHgh ATC test kii, 12 test tube neacks, Kim whyse, timers, test tubes, diluted bleach, red bags, regular trash can, five tablecloths, extension cord, power strip, turps for cart, BP cuffs, scole, tape measurer, and educational pamphlets. Event I was Ecuting Breakfast to Fuel Your Parin, where 59 participants were health screened, and 36 responded to the survey, (67% survey response) Event 2 was Cooking at Home/In Your Room and Packing your Meals, where 51 participants were health screened and 36 responded to the survey. (72% survey response) Using quantitative and qualitative quot enables, we can be a push the surface of the survey of the survey response) Using descriptive statistics, qualitative data analysis, and inferential data analysis, we came up with results to back up how college stadents perceive total cholesterol and HDL about their health.

### 4. Results

After completing all three Hub events there were a total of 111 students over the three events who completed the survey. In the first hub event that was held, there were 36 students who completed the survey. In the second hub event that was held, there were 39 students who completed the survey. In the third and final hub event, 36 students completed the survey. For the graph "Which of the following is considered a healthy total cholesterol," essentially, 55% knew what healthy cholesterol was. We performed a number of t-tests comparing demographic populations and their knowledge of healthy total cholesterol but did not obtain statistical significance at p < 405.





# WHICH OF THE FOLLOWING IS CONSIDERED A HEALTHY TOTAL CHOLESTEROL? | SSN | SSN

This graph provides a graphical representation of the response of participants to the question identifying a healthy total cholesterol level.

### Table 1: This table provides student data relating to the question explain how you can increase your HDL.

How to Increase Your HDL Cotegories	Frequency	Representative Quotes
Unsure	37.7%	") don't know" "IDK " "not sure"
increase Exercise	7.5%	"walking" "going to the gym"
Good Diet modificati on	32.1%	"eating good fats" "eating O3 fatty ecids" "Eat heelthy fatty foods (avocado, fish, etc)" "Decrease red meat consumption"
Both Good Diet and Exercise	5.7%	"Healthy eating and exercise" "Eating properly and exercise"
Stress and Poor Diet	11.3%	"Fatty foods" "High amounts of sodium" "Stress" "Rarely exercise" "Eating more sugar"
Other	5.7%	"Normal" "Good" "N/A"

### 5. Conclusion

How Is This Data Useful.

Now: This allows us to evaluate how well everyone involved in this program provided education to each participant and whether they understood the information given to them, also below updated with the formation before the interest in methods to change to investigate our outcome.

Future: We need to educate them on all aspects of their numbers, even if they have good numbers now. We must—ask what they are doing today and educate them on how to keep doing what they are doing or if they need to—change something to help keep their levels where they are.

Limitations in Results: Only 111 of the 160 participants completed the survey, Jeaving about 4 whose knowledge about total cholesterol and HID1 is unknown.

3.7% of survey respondents were "unsure" or said "idk" when asked how to raise their HDL levels—this proves—education was a bit facking on this topic Some students went to all three events, while others their first was the last one. This allowed a trend discrepancy in the

Major Takeaways: A significant takeaway is the number of students who wanted to be tested but were prevented from being educated. This could be due to many reasons, including not wanting to share their results due to emburrassment, not having good results, not thinking education is needed, not being aware that we were available, etc. This can be addressed by providing a promptle for the Bood Health Center or MCPHD to get other resources.

### Suggestions for similar future programs!

Prioritize education! For the most effective education, we suggest that at each table, they are educated on what! They are being screened for and why it is essential to use tools south as teach-back methods, diagrams, take-home pamphlets, and other strategies to ensure students understand what they are learning. Ensure that the events appeal to the demographic you are presenting, such as how making smoothies, cooking meals in your room, and eating breakfast can be accomplished on campus and in dorms. Provide resources not only for how to get the participant's cholesterol and HDL levels in a good range but also send them to the Boyd Health Center for further assistance.

### 6. Acknowledgments

We would like to thank the following people and organizations who were instrumental in helping develop and implement the 2025 Govs Wellness Gov program: the Maynard Family Fund of Excellence, Dr. Kadi Bliss (Department of Health & Human Performance), Olivia Lahann and Alexandra Wills (Community Engagement and Sustainability), Patrick Richardson (APSU MPH Student), Ka'Niya Williamson (UT-Extension), Shannon Slotwinski (APSU Public Health Undergraduate Student), and Nancy Proctor (Montgomery County Health Department).

### 7. Contacts

Chasity Dubois – Public Health 4800 Email: cdubois2@my.apsu.edu
Skylar Catlett- Nursing 4050 Email: scatlett@my.apsu.edu

### 8. Reference

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Tennova Healthcare Nursing Research Day Poster Symposium (April 16, 2025, 2:00 - 4:00 p.m.)



### TEAM 4

Farrin Yarbrough: Group Leader (HHP 4800)

Emily Horner: MTEC 4090

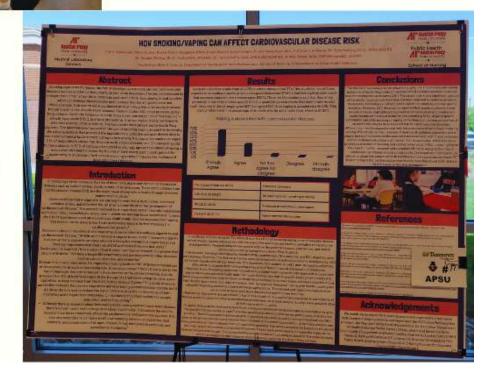
Ryelee Odom: NURS 4050/4051 Stephanie Webb: NURS 4050/4051 Caleb Bauske: NURS 4050/4051

Erica Fortune: NURS 4050/4051 Enkhchimeg Nyamdorj: NURS 4050/4051

Gracie Williams: NURS 4050/4051

### POSTER TITLE

How Smoking/Vaping Can Affect Cardiovascular Disease Risk



### HOW SMOKING/VAPING CAN AFFECT CARDIOVASCULAR DISEASE RISK **Austin Peay Public Health** Dr. Heather Phillips, Ph.D., MLS(ASCP), MT(AMT), Dr. Tasha Ruffin, DNP, APRN, AG-ACNP-BC, & Mitzi Baker, MSN, FNP-WilliamsBC, ACHPN Medical Laboratory School of Nursing **Abstract** Results Conclusions king cigarettes increases the risk of developing acute and chronic cardiovasc Our qualitative data results from 40 APSU students showed that 27 of the students had not been posed to secondhand smoke or smoked/vaped themselves (67.5%). Another eight students said ises such as sudden cardiac death, stroke, or an aneurysm. The aerosol produced b for cardiovascular disease (CVD). The data shows that a significant p that someone close to them smokes/vapes (20%). The other five students said that they either garettes contains harmful substances such as nicotine, formaldehyde, and acrolein the student population (87.5%) has not been exposed to smoking or vapi reviously or currently smoke/vape (12.5%). Our quantitative data shows that most students who which can damage blood vessels and increase the risk of hypertension and ook the survey either strongly agree (62%) or agree (30%) that vaping is associated with CVD. Thi erosclerosis. Hub events were conducted at Austin Peay State University to screen behavior. However, 20% of students reported that someone close to them relates with the percentage of students who do not smoke/vape, which is 87.95% mokes or vapes, highlighting the potential influence of environ the participant's risk of early heart disease. Tests included A1C, blood pressure, pulse, social factors on individual behavior; the remaining 12.5% of participants omposition (body fat percent, body mass index, and waist circumference), high-Vaping is associated with cardiovascular disease. itted to currently smoking or vaping, reflecting a concerning proporti students who may be at an elevated risk for cardiovascular diseases. density lipoprotein (HDL), and total cholesterol. One hundred and sixty participants attended a series of three events. The hub events were advertised to Austin Peav ugh our results suggest a relatively low prevalence of smoking and vap nts. The questionnaire focused on the use of smoking/vaping around the University ong APSU students, the presence of dual-use (traditional cigarettes and e We asked questions that provided the population's qualitative and quantitative data to all for continued education and intervention. In conclusion, while this stud ck environmental factors contributing to how or why the population smokes or vapes. rovides a snapshot of smoking and vaping behaviors at APSU, it also highlig the need for further research and sustained efforts to mitigate the risks o 21% of respondents stated that they currently smoked/vaped, and 12% stated they did ave since quit. 92% of participants agreed or strongly agreed that smoking/vaping ardiovascular disease among young adults. Continued n associated with heart disease. By the end of each event, participants gained the opportunity to understand further how smoking/vaping increases the likelihood of Disagree Strongly agree nor

Participant # (total out of 40)

2.15.18.24.25.30 (27

3,4,5,9,14,32,37 (8)

10.7.28.30.40 (5)

### Introduction

eases such as sudden cardiac death, stroke, or an aneurysm. These complications from cardiovascular disease (CVD) are the main cause of premature deaths through chemical exposure to nicotine.

Studies indicate that e-cigarette use can lead to endothelial dysfunction, increased oxidative stress, and inflammation, all of which contribute to the development of ovascular disease.<sup>2</sup> The aerosol produced by e-cigarettes contains harmful substan uch as nicotine, formaldehyde, and acrolein, which can damage blood yessels and increas the risk of hypertension and atherosclerosis. Additionally, nicotine exposure from vaping has been shown to elevate heart rate and blood pressure, further stressing the cardiovascular system.

Research is done on the effects of e-cigarettes in correlation to traditional cigarettes and ardiovascular disease. 3 W With an increase in e-cigarette use, current research suggests that conventional cigarette smokers who are making the change to e-cigarettes do not show any improvement in their risk of CVD and instead become dual users.4 Cardiovascular health (CVH) is a subject that is under continuous research. It is proven the

people with better CVH have a longer life expectancy and are less prone to other diseases

such as cancer, diabetes, and dementic

rmine if e-cigarette smoking leads to CVD. With the increa of these products at such an increasing rate, it remains unclear if the CVD risk is due to the harsh chemicals that are contained in these devices or the smoke inhalation. A study provided that 11% of individuals aged 18-24, the age of a traditional college student, use ecigarettes, a steep increase from the 2.4% in the previous 10 years. This study shows no ation between the use of e-cigarettes and later having a cardiovascular episode but did show the only way to reduce the risk of CVD is to stop the continued use of both cigarettes and e-cigarettes completely. Limitations in this study include the sample population and self-reporting.

Although there is research about how vaping and smoking can/will cause heart diseas there is a continued need for long-term study. Specifically, it discusses the need to research how these chemically affect the cardiovascular and pulmonary systems. It is also recommended to compare traditional smoking tobacco, e-cigarettes, dual okers, and nonsmokers of all ages. Research may take years to complete, and surveillance is ongoing.

we had the participants take a survey after our event. The questions were both quantitative and qualitativ styled questions. Thematic analyses' are used to explore the personal reasons, experiences, and beliefs surrounding smoking/vaping among Austin Peay students

experience with smoking or vaping

Participants: Our target demographic included APSU students aged 18 to early 30s, and 84% of particip between 18 and 24. This diverse group represented various cultural and socioeconomic backgrounds. 45 of the participants were African American, 33% Caucasian, 53% women, and 46% men. As a public university

APSU attracts students from surrounding areas with different financial and social circumstances. Materials/Tools: Screening equipment included various digital tools to provide individuals with a conveni ay to check some personal health data. Each contributing major had its specific testing that included AIC, d pressure and pulse, body composition (body fat percentage, body mass index, and waist circumferen gh-density lipoprotein (HDL), total cholesterol, iron, hemoglobin, hematocrit, along with health coaching a education regarding assessing student smoking/vaping status. This allowed participants to evaluate their

current risk of developing heart disease and ways to lower their risk.
sedures: Hub events are advertised to Austin Peay students. A questionnaire was given to participants a e Hub events to assist in further understanding smoke/vape use around campus. Surveys were analyzed afti all Hub events were complete.

nalysis: Data analysis used survey questions to measure numerical trends and capture descriptive insigh The question "Do you smoke or vape?" provided quantitative data from the survey participants. A qualitative question, "Describe personal experiences and/or exposures to smoking and/or vaping throughout your life," nental factors that contribute to the smoking population. A thematic analysis w conducted with the feedback from our qualitative question. The survey revealed the frequency of use an the underlying environmental and familial influences. T-tests were performed to compare the mean value independent groups. The survey enables a comprehensive topic analysis based on the collected dat which can support further research and enhance education on the Austin Peav campus



### References

### Acknowledgements

We would like to thank the following people and organizations who were gram: the Maynard Family Fund of Excellence, Dr. Kadi Bliss (Departm of Health & Human Performance), Olivia Lahann and Alexandra Wills nity Engagement and Sustainability), Patrick Richardson (APSU Mi tudent), Ka'Niya Williamson (UT-Extension), Shannon Slotwinski (APSU Public Health Undergraduate Student), and Nancy Proctor (Montgomery

Tennova Healthcare Nursing Research Day Poster Symposium (April 16, 2025, 2:00 - 4:00 p.m.)

Introduction

95% stating it can increase the risk of early death.1 In fact, research obesity traits are causally involved in most of

nd obesity due to the ability of adipose tissue to produce pro-inflammatory cytokines that can impair arterial blood ressure, leading to the formation of atherosclerotic plaques.<sup>3</sup> An abnormal fat depot or peripheral vascular adipose

Body mass index (BMI) and waist circumference are used to classify overweight or obese individuals and assess cardiovascular risk, Still, lifestyle interventions, such as the Diabetes Prevention Program, may be as effective as

ealth. In addition, the Global Burden of Disease investigators found an increase in the burden of elevated BMI. ith high BMI accounting for four million deaths in 2015, more than two-thirds of which were eaused by rdiovascular disease. Diets and physical activity can have an impact on your health and health outcomes. There

many ways that you can learn about different diets and physical activities that can help with your overall

Currently in the United States 1 in 3 college students are considered obese with poor eating habits and sleeping

natterns being indicated as a cause for obesity. \$10 Studies have been conducted to see if practice of better eating natterns and sleeping habits begin to lessen the amount of obesity among college students. \$10

Methodology

A quantitative approach was taken using the question, "How often do you eat fast food?" incorporating eans, frequencies, and a T-test. A qualitative approach was taken using the question, "Do you feel that our body composition affects your daily life? Why or why not?" via a thematic analysis focused on

The participants for the surveys were students from Austin Peav State University that attended and

cipated in the Wellness Hub events. The total number of APSU college students who attended Health lub. Event 1 had 59 participants, event 2 had 51 participants, and event 3 had 50 participants.

3IA) monitor for body fat percentage, tape measure for waist circumference, a scale, and stadiometer for

ovascular health. When leaving the Hub event, participants completed an exit survey that has been

tions from the survey and numerical data collected by a BIA, tape measure, scale, and stadiometer

isk further emphasize the need for effective interventions.6

general themes converted to numerical values for analysis.

Study Design and Data Analysis

macological agents in reducing adipose tissue and lowering cardiovascular risk despite challenges in achieving



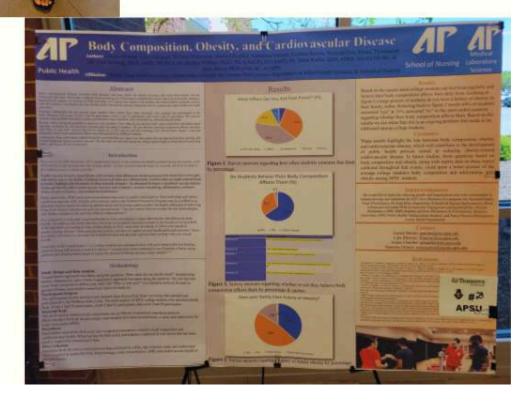
### TEAM 5

Gazala Momin: Group Leader (HHP 4800)

Luke Ritenour: MTEC 4090 William Richmond: MTEC 4090 Alaina Chandler: NURS 4050/4051 Valentina Ormaza: NURS 4050/4051 Jasmine Favors: NURS 4050/4051 Nalayah Fort: NURS 4050/4051 Ebony Thomasson: NURS 4050/4051

### POSTER TITLE

Body Composition, Obesity, and Cardiovascular Disease

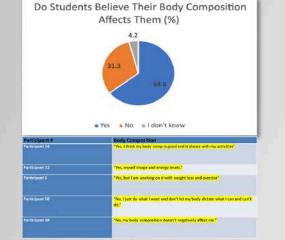


### Affiliation: Austin Peay State University, Department of Health and Human Performance, Department of Allied Health Sciences, & School of Nursing Results used to seases, contonally near diseases, and neart sature are disease processes that result from people see. This is due to adipose tissue producing pro-inflammatory cytokines that impair arterial blood pressure, let ques. In a survey of 1509 Americans, 81% agreed that obesity is the number one health problem facing the team can increase the risk of early death. Diet and the amount of physical activity a person can impach health and How Often Do You Eat Fast Food? (%) Wellness Hub events. Event 1 had 59 participants, event 2 had 51 participants, and event 3 had 50 participants using multiple resources to screen and determine risks with BMI, waist circumference, and body fat percentage

Body Composition, Obesity, and Cardiovascular Disease

Authors: Gazala Momin, Luke Ritenour, William Richmond, Alaina Chandler, Valentina Ormaza, Jasmine Favors, Nalayah Fort, Ebony Thomasson Dr. Tyler Nolting, Ph.D., MPH, MCHES, Dr. Heather Phillips, Ph.D., MLS(ASCP), MT(AMT), Dr. Tasha Ruffin, DNP, APRN, AG-ACNP-BC, &

### Figure 1. Survey answers regarding how often students consume fast food



### Figure 2. Survey answers regarding whether or not they believe body composition affects them by percentage & quotes.

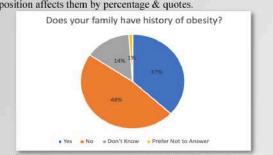


Figure 3. Survey answers regarding history of family obesity by perc

Based on the results most college students eat fast food regularly and believe their body composition affects their daily lives. Looking at figure 3 a large portion of students do not have a history of obesity in their family, either. Referring back to figure 2 results 64% of students answered "yes" & 31% answered "no" to the open-ended question regarding whether their body composition affects them. Based on the results we can relate that this is an ongoing problem that needs to be addressed among college students.

These results highlight the link between body composition, obesity and cardiovascular disease, which will contribute to the development of public health policies aimed at reducing obesity-related cardiovascular disease. In future studies, more questions based on body composition and obesity, along with metric data on these topics collected throughout hub events, could paint a better picture of the average college student's body composition and relationship with obesity among APSU students.

We would like to thank the following people and organizations who we helping develop and implement the 2025 Govs Wellness Gov program: the Maynard Famil Fund of Excellence, Dr. Kadi Bliss (Department of Health & Human Performance), Oli Lahann and Alexandra Wills (Community Engagement and Sustainability), Patrick Richardson (APSU MPH Student), Ka'Niya Williamson (UT-Extension), Shannon twinski (APSU Public Health Undergraduate Student), and Nancy Proctor (Montgoo County Health Department).

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Tennova Healthcare Nursing Research Day Poster Symposium (April 16, 2025, 2:00 - 4:00 p.m.)



### TEAM 6

Hannah Luck: Group Leader (HHP 4800) Sharlyne Gul: NURS 4050/4051 Faith Suss: NURS 4050/4051 Marlana Goulet: MTEC 4090 Courtney Wilson: NURS 4050/4051 Ledger Chase: NURS 4050/4051

Susan Montoya-Griffis: NURS 4050/4051

### POSTER TITLE

Iron Levels in the Body: Exploring Maintenance and its Importance



### Iron levels in the body have important health implications and are influenced by was slightly higher with 39. Descriptive statistics was applied to the quantitative data including a t-test. Overall, most participants were aware of ealthy iron levels and iron rich foods that could be added to the diet. INTRODUCTION About 70% of the iron in the body is utilized by red blood cells to transport oxygen throughout the body<sup>1</sup>, helping to ensure that muscles and vital organs function effectively for optimal body development.<sup>2</sup> Iron deficiency is often caused by insufficient intake, but underlying conditions like celiac disease and chronic blood loss can also contribute foods are at a higher risk of developing iron deficiency anemia.4 Oral supplementation is primary method for treating iron deficiency;5 however, some complex conditions may require intravenous treatment for lifestyle factors such as poor diet, alcohol use, physical inactivity and nsufficient sleep. Encouraging healthy habits can help mitigate this risk. Which of these reflects healthy or normal iron levels (g/dL for men; mcg for women)?

### Iron Levels in the Body: Exploring Maintenance and Its

Dr. Tasha Ruffin, DNP, APRN, AG-ACNP-BC, & Mitzi Baker, MSN, FNP-BC, ACHPN

a variety of factors from dietary intake to poor sleep to pregnancy. The purpose of this study was to assess the awareness of students at Austin Peav University o iron and importance to overall health. Participants from the three health fair hubs were given qualitative and quantitative survey questions on iron to answer. Of all the events, Events 1 and 2 garnered 36 survey responses, whereas Event

- Pregnant women with low economic status and limited access to nutritious
- College students are susceptible to developing iron deficiency<sup>®</sup> because of



### **METHODOLOGY**

- The study investigates iron levels and its importance. Participants: APSU students at three Hub events, totaling 160
- Materials/Tools: Includes food supplies, medical tools for blood pressure checks, blood draws, and body composition measurements. Essential items for iron level testing include alcohol swabs, needles, bandages, and test tubes.
- Procedures: •Students provide informed consent and visit various stations, including blood draws to check iron levels. Phlebotomy Technician students conducted iron testing, whereas Medical Laboratory Science students analyzed the results.
- Data Collection: Surveys via Qualtrics assess participants knowledge of dietary habits and iron levels through a series of qualitative and quantitative questions.
- Analysis: Data is analyzed using descriptive statistics (mean, through graphs.



·Over the course of all three Govs Wellness Hub events, out of 160 total attendees, there were a total of 111 survey respondents. ·To calculate the quantitative data, we focused on descriptive statistics including mean (2.3), median (2), mode (2), standard deviation (0.8), and frequency, as well as t-tests (no notable significance found).

 The bar graph provides a representation of response frequencies of participants who were able to identify healthy iron levels after attending the Govs Wellness Hub Events.

 Answer Frequencies: ·Answer 1) 9

·Qualitative data reflects common ways to increase iron levels, including eating more red meats, fish, as well as vegetables and

### DISCUSSION

Our results will be useful in the future and now by showing the understanding of the importance of iron levels in the body by Austin Peay Students. This allows us to better gear our education about Iron levels and ensure proper understanding by the students.

**Austin Peav** 

As for limitations, there were no p-values indicating significant differences between any of the populations attending the events. Major takeaways and lessons include:

- · Most participants are aware that foods high in iron include spinach, red mea vegetables and fish.
- Over 60% of participants were aware that the normal iron level is 135 (g/dl or
- Educating the students on normal iron levels both for males and females.
- · Providing education concerning how to increase your iron if it is significantly low and contacting your provider



Participant #	Iron Level Maintenance
Participants 1, 8, 64	"Eat more spinach"
Participants 2, 28, 109	"Eat more red meat"
Participants 14, 17, 48	"Eat more vegetables"
Participants 6, 23	"Eat more fish"

### REFERENCES

xcellence, Dr. Kadi Bliss (Department of Health & Human Performance), Olivia Lahann and andra Wills (Community Engagement and Sustainability), Patrick Richardson (APSU MPH dent), Ka'Niya Williamson (UT-Extension), Shannon Slotwinski (APSU Public Health

Tennova Healthcare Nursing Research Day Poster Symposium (April 16, 2025, 2:00 - 4:00 p.m.)



### TEAM 7

MacKenzie Sellers: Group Leader (HHP 4800) Jariah Wordlaw-Scruggs: MTEC 4090 Jennifer Holt: NURS 4050/4051 Kendra Svensson: NURS 4050/4051 Nelson Ramos: NURS 4050/4051 Alex Pearson: NURS 4050/4051 Carmen Urquia: NURS 4050/4051

### POSTER TITLE

Fueling for the Day: College Students' Breakfast Frequency and Healthy Beverage Choices



### Fueling for the Day: College Students' Breakfast Frequency and Healthy Beverage Choices



Conclusion

of knowledge on the eating habits of the APSU

population. It should be noted that APSU has a

nstitutions. Limitations in our results include

students that were on campus on the day of our

events, students that were aware of our event and

decided to attend, and students who attended and

are that marketing for the event could use

future projects are promoted through email,

ompleted the questionnaire. Our major takeaways

improvement and that the survey attendees have to

complete a shorter questionnaire. We recommend

higher nontraditional student population than othe



### Abstract

folloge students often struggle to maintain healthy eating habits due to busy schedules. financial limitations, and academic stress abetes, while also negatively impacting mental health and cognitive performance. This study aimed to explore breakfast consumption nabits, meal preparation behaviors, and healthy beverage preferences among students at Austin Peay State University (APSU), Data were collected through surveys administered at three Wellness Hub events held on campus in collaboration with the Public Health, Medical Laboratory Sciences, School of Nursing, Community Engagement and Sustainability, UT-Extension, and the S.O.S. Food-Pantry. A total of [11] students participated in the survey, which included both quantitative and qualitative questions. Descriptive statistics and t-tests were used to examine the influence of gender and age on breakfast frequency and meal preparation habits Thematic analysis was conducted on open-ended responses about ideal healthy beverages and smoothies. Results indicated that most students eat breakfast 3-4 times per week, with females eating breakfast more frequently than males. We performed a number of 1-test ompare means between a variety of demographic groups based on how often they eat breakfast per week, but found no significant seasons. The most common smoothie ingredients reported were fluit, especially strawberries, and spinach. Water was the most requently mentioned healthy beverage. The findings highlight the importance of nutrition education and accessible food resources on his study provides insight into the eating habits and health priorities of APSU students and can inform future campus health initiativ

### Results

For event one, we had 59 in attendance, and 36 individuals completed the survey. For event two, we had 51 in attendance, and 39 individuals completed the survey. For event three, we had 50 in attendance, and 36 individuals completed the survey. After completing the three Wellness Hub events on campus, we had 111 individuals complete the survey. After completing the three Wellness Hub events on campus we had 111 individuals complete the survey. The mean for our group's question one was 2. This means those who responded to our survey on average eat breakfast between 3 and 4 times a week, which is represented by Figure 1. The median was 2 meaning 50% of the data points are greater than or equal to option 2, and 50% are less than or equal to it. The mode of our data was option 1, meaning the response that occurred the most was surveyors stating they only eat breakfast 0 to 2 times a week. The standard deviation of our data was 1. We performed a number of t-tests to ans between a variety of demographic groups based on how often they eat breakfast per week, but found no significance at p<.05. Represented in Figure 2, we did also notice that females eat breakfast more times a week than males do. As shown in Table 1, the major themes from the participants' feedback is that their ideal smoothie ingredients consist of spinach or fruit, with strawberries being a popular choice, and the preferred

### Introduction

Methods

quantitative questions asked were, 1. How many times a week do you eat treakfast?(a.0-2 b.3-4 c.5 or more d. Never) 2. Preparing my meals at home helps me

quantitative data because all group members have access to and familiarity with the software. We used inferential statisties and all tests to evaluate the impact of gender and age on how often someone eats breakfirst and prepares meals at home. Our qualitative survey question was. "Describe your deal healthy beverage or smoothe: By using a themate analysis approach to assess similarities and/or differences in responses from participents. We surveyed statents from Austin Peay who choose to participate in any of three Wellness Hub events. By using the data collected we now

ve an understanding of our students' breakfast, meal prepping, and healthy verages habits. We had 160-200 individuals attend our events, 160 individuals ed consent forms to participate in the health screenings; however, dozens mo

eneral health and their thoughts on meal prepping, breakfast habits, and the

Table 1: Major Themes Present for the question, "Describe your ideal healthy beverage or smoothie."



Figure 1: Percentage of how many times a week each student

Figure 2: Male and Female mean comparison for how many times a week they eat breakfast

### professors should be encouraged to give extra credit o those who attended and a reduction of the

Acknowledgements

We would like to thank the following people and organizations who were instrumental in helping levelop and implement the 2025 Govs Wellness Go program: the Maynard Family Fund of Excellence. Dr. Kadi Bliss (Department of Health & Human erformance). Olivia Lahann and Alexandra Wills (Community Engagement and Sustainability), Patrick Richardson (APSU MPH Student), Ka'Niva Williamson (UT-Extension), Shannon Slotwinski (APSU Public Health Undergraduate Student), and Nancy Proctor (Montgomery County Health

### Contact

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### References

Tennova Healthcare Nursing Research Day Poster Symposium (April 16, 2025, 2:00 - 4:00 p.m.)



### TEAM 8

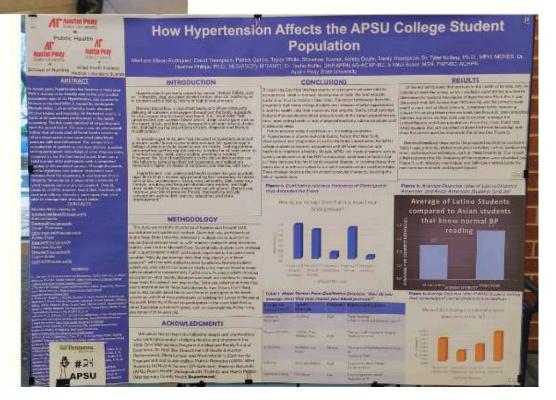
Madison Mixon-Rodriguez: Group

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David Thompson: MTEC 4090 Patrick Garcia: NURS 4050/4051 Taylor White: NURS 4050/4051 Shawnae Towner: NURS 4050/4051 Ashley Doyle: NURS 4050/4051 Trinity Thompson: NURS 4050/4051

### POSTER TITLE

How Hypertension Affects the APSU College Student Population



### **How Hypertension Affects the APSU College Student Population**

Madison Mixon-Rodriguez, David Thompson, Patrick Garcia, Taylor White, Shawnae Towner, Ashley Doyle, Trinity Thompson, Dr. Tyler Nolting, Ph.D., MPH, MCHES, Dr. Heather Phillips, Ph.D., MLS(ASCP), MT(AMT), Dr. Tasha Ruffin, DNP,APRN,AG-ACNP-BC, & Mitzi Baker, MSN, FNP-BC, ACHPN
Austin Peay State University

Allied Health Sciences Medical Laboratory Science

Normal blood flow is important because it allows adequate

In people aged 18-24, 46% had elevated or hypertensive blood oressure levels.<sup>3</sup> Some successful interventions for hypertension in college students include lowering sodium intake, limiting caffeine

INTRODUCTION

ages 10-25 that is increasingly presenting itself secondary to factor such as low socioeconomic status, race, unhealthy diet, sedentary lifestyle, smoking and frequent alcohol consumption, and high stress levels. Studies have shown that adjusting one's lifestyle can improve your blood pressure. Future interventions include conceptions such as diet, exercise, education, and stress

### METHODOLOGY

This study explored the importance of hypertension through both uantitative and qualitative methods. Quantitatively, participants at ustin Peay State University, answered a multiple-choice question on atistics and t-tests in Microsoft Excel. Qualitatively, students were provided ith a questionnaire in which participants responded to the open-ended uestion "How do you manage stress that may impact your blood essure?" with thematic analysis to identify patterns. Nursing student's ducation on what healthy blood pressure levels are and how to manage ese levels throughout their day-to-day. Data was collected at three Hub ents hosted at Austin Peay State University from 11-1pm. From these ents, 160 people signed the consent forms to participate in the healt ngs, with 91 of these participants completing the survey at the end o ne event. Majority of those that participated in the event identified as either Caucasian or Latino/Hispanic, with an overwhelming falling in the ge range of 18-24 years old.

### **ACKOWLEDGMENTS**

We would like to thank the following people and organization who were instrumental in helping develop and implement the 2025 Govs Wellness Gov Program: the Maynard Family Fund of Excellence, Dr. Kadi Bliss (Department of Health & Human Performance), Olivia Lahann and Alexandra Wills (Community Engagement and Sustainability), Patrick Richardson (ADSLI MDH Student), Ka'Niva Williamson (UT-Extension), Shannon Slotwinski (APSU Public Health Undergraduate Student), and Nancy Proctor (Montgomery County Health Department)

### CONCLUSIONS

Through the Gov Hub Wellness events, as a program we were able to ionstrate what a "normal" blood pressure looks like and educate students on how to maintain their stress. The major takeaways from this gram is that many college students are unaware of what hypertension and the health risks that it presents. Not only this, this but that common atures that can elevate blood pressure levels in the target population are stress, poor eating habits, a lack of physical inactivity, substance abuse, and adequate sleep.

Future programming should focus on increasing aware hypertension and potential contributing factors that lead to its relopment and progression; as well as facilitate opportunities for APSU llege students to become acquainted with different resources and nethods to maintain a healthy lifestyle. APSU can create programs such o kly cardio sessions at the FOY to encourage good exercise habits that will help decrease the risk of cardiovascular diseases; or cooking classes that teach about nutritional values to cut out increased sodium and fats intake These changes decrease the risk of cardiovascular disease by lowerina the

Figure 1: Qualitative response frequency of Participants

### Figure 2: Average Response rates of Latino/Hispania

ost common methods used by participants

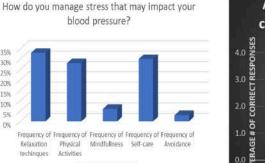


Table 1: Major Themes From Qualitative Question: "How do you

anage stress?	Strategles	Frequency	Representative Quotes
elaxation echniques	Breathing	High	"Deep breathing" "I Take a minute and breath by myself"
nysical Activities	Exercise, Yoga, Walking, Gym	High	"Taking a walk or going to the gym" "Workout the stress"
indfulness	Meditation and Prayer	Medium	"Meditation and calming routines in my day" "Talking to Jesus"
elf-Care	Sleep and Hobbies	High	"I sleep away my problems" "Listen to music"
voidance Coping	Avoidance	Low	"I tent to ignore my stress" "Push through it"

Average of Latino Students compared to Asian students that know normal BP

RESULTS

Of the 160 participants that partook in the health screenings, only

termine the students' knowledge of hypertension. From this, it was

ered that 34% believe that 118/72mmHg was the correct answ

idividuals took the survey, which included a augntitative guestion t

and the most normal blood pressure,, compared to the remaining

tatistics, a p value less that 0.05 was discovered amongst the

answers for varying blood pressures levels (see Figure 3). Using infe

atino/Hispanic and Asian populations. From this, it was found that

APSU students that self-identified as Asian had more knowledge and

Obtained feedback responses to the proposed qualitative question

Table 1 were primarily related to physical activities, such as "workout t

a high response rate, the frequency of the responses were calculated

Figure 1), with relaxation techniques and Self-care methods being th

nose the correct question response in the survey (see Figure 2).

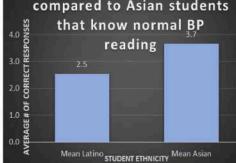
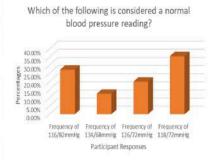


Figure 3: Average Response rates of APSU Students their knowledge of normal blood pressure reading.



Tennova Healthcare Nursing Research Day Poster Symposium (April 16, 2025, 2:00 - 4:00 p.m.)



### TEAM 9

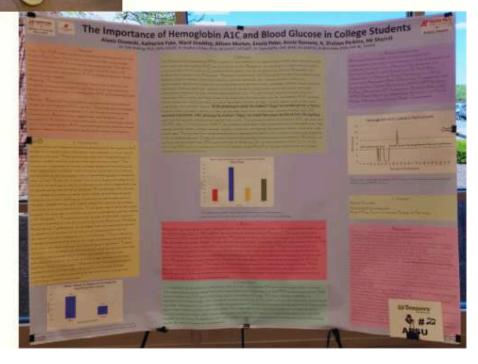
Shalya Perkins: Group Leader (HHP

4800)

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### POSTER TITLE

The Importance of Hemoglobin AIC and Blood Glucose in College Students



### The Importance of Hemoglobin A1C and Blood Glucose in College Students

Alexis Osowski, Katherine Fyke, Ward Graddey, Allison Morton, Eniola Peter, Annie Romano, A, Shalaya Perkins, HK Sherrill

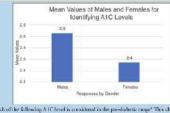
Intro: The HUB event program tested and gathered data from Austin Peay State University students on their knowledge about hemogobin A1C and blood glucose levels. The focus was to increase knowledge in college students about the significance their hemoglobin A1C and blood glucose levels

Methods: During the three events, there was a total of 160 students who participated in a survey answering questions about their knowledge on hemoglobin A1C and blood glucose

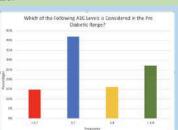
Results: Majority of participants believed that pre-diabetic range for hemoglobin A1C was 5.7. They also acknowledged ways to address pre-diabetes is to eat healthy and exercise. Conclusion: Based on our objectives, this program was successful. Participants were provided with knowledge about their own hemoglobin AIC and blood glucose and how these actors affect cardiovascular health and overall well being.

### 2. Introduction

The purpose of measuring blood glucose and hemoglobin A1C levels is to determine if someone has diabetes or is at risk of getting diabetes.7 High blood glucose can cause damage to ood vessels and the nerves that control your heart. The unhealthy lifestyles of many college students including poor diet, sedentary lifestyle, and increased alcohol consumption leave them at an increased risk of developing type 2 diabetes later in life.2 Even so, a study found that approximately forty of developing this chronic disease.5 A workshop intervention for college students covered topics such as finding an adult diabetes provider, setting up disability accommodations at college, establishing care, obtaining prescriptions at college, nutrition and physical activity. Their goal was to provide more support during the transition period to college for young adults with diabetes. 8 Physical activity is one of the main ways to prevent diabetes in adults according to the American Diabetes Association, Laaksonen, et. al state that increasing the levels of physical activity that is done can decrease the risk of developing type 2 diabetes by around 80%.3 These lifestyle change programs that focus on healthy eating and physical activity will help reduce the risk of type 2 diabetes.5 Future research should explore the economic and social barriers that prevent individuals from following health advice after ducational events, as well as how organizations can help address these challenges. 4 Additionally, inconsistencies in diabetes testing methods and public awareness of their accuracy and limitations should be examined to improve dividual health outcomes.



The Hub events are targeted at APSU students to give students the opportunity to learn about and see what their individual hemoglobin A1C and glucose levels are. Altogether we were able to reach many students with 59 students from event 1, 51 students from event 2, and 50 students from event 3. Altogether 160 students participated in the Hub event. Necessary materials for the Hub events include food programming materials (theme-specific fresh food options, utensils, dishware, etc.), blood pressure (cuffs and stethoscopes), blood draw materials via antecubital area (alcohol swabs, bandages, gloves, sharps disposal containers, labeling materials, needles, tourniquets, gauze or cotton balls, and under pads), and body composition materials (scales, flexible tape measures, etc.). For specifically determining glucose and hemoglobin A1C levels via finger stick for glucose and via antecubital area for hemoglobin A1C, (gloves sharps containers, capillary tubes, plungers, bandages, lancets, straight needles, gauze pads, under pads, fuges, and cassette readers) While preparing to prick the student's finger we needed gloves, a lancet alcohol swabs, plungers, capillary tubes, gauze pads, band aids, under pads, cassette readers, and LDX cholesterol machines. After pricking the student's finger, we would then place the blood from the capillary tube into the cassette waiting 5 minutes for the results. The cassette provided cholesterol, HDL, glucose, and TC/HDL ratio. To find out your HbA1C, the phlebotomy program did blood draws via antecubital area, they needed alcohol swabs, straight needles, labeling materials, tourniquets, gauze/cotton balls, under pads, and centrifuges. The surveys were administered with a demographic section and a section containing questions from 10 different groups, Questions were a mixture of quantitative and qualitative questions. We passed out small handouts containing a QR code and a link to the survey. Our survey questions were: which of the following A1C levels is considered in the pre-diabetic range? And How can you reduce and/ or manage

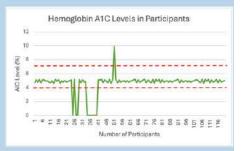


This graph provides a graphical representation of responses o participants who were able to identify the A1C level for pre-diabete

Altogether we were able to reach many students with 59 students from event 1, 51 students from event 2, and 50 students from event 3. All together 160 students participated in the Hub event. Our quantitative data included the A1C results of the participants. We used descriptive statistics to analyze this quantitative data We calculated the mean, median, mode, and standard deviation. The mean value for participants was 2.6. The median value was 2, the mode value was 2, and the standard deviation was 1. Meaning over 40% of the participants believed 5.7 was the answer, this is not the vast majority meaning there is room for education and awareness. However, our results cannot be considered statistically significant because our p value was 0.59. We performed a t-test comparing males and females about their knowledge of hemoglobin A1C as shown in the graphic below. The majority of participants believed 5.7 was the pre-diabetic range. When asking participants on how to manage diabetes in the future, majority answered with eating healthy and exercising more. Some participants went into more detail and explain how eating less processed foods or managing sugar levels will also be beneficial.

It is important for students to understand what and how hemoglobin A1C and blood sugar affect the body. The results can provide a baseline to the understanding of these topics in the APSU student population. Most of the students had A1C levels that were within the reference range. This may indicate that they are managing their blood sugar well, but most of them are young, so it is hard to know the long term outcomes at his stage. Limitations in our data include the population of students on campus during each of the Hub events and if they chose to come to the event itself. One major takeaway from this project is the importance of having events like these within these populations to educate and make this population aware of what can happen to their body. A suggestion for future programs would be to advertise the events early and campaig harder for more community involvement.

### 6. Acknowledgements We would like to thank the following people and organizations who were instrumental in helping develop and mplement the 2025 Govs Wellness Gov prog Maynard Family Fund of Excellence, Dr. Kadi Bliss (Department of Health & Human Performance), Olivia Lahann and Alexandra Wills (Community Engagement and Sustainability), Patrick Richardson (APSU MPH Student), Ka'Niya Williamson (UT-Extension), Shannon Slotwinski (APSU Public Health Undergraduate Student), and Nancy Proctor (Montgomery County Health Department).



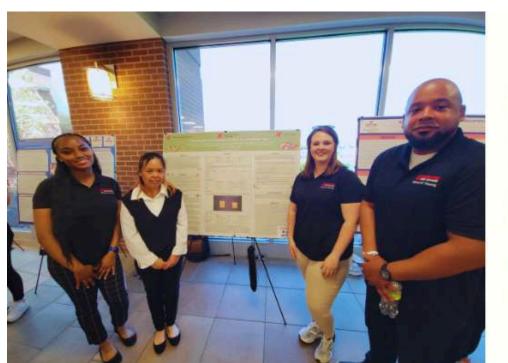
This graphic identifies hemoglobin A1C levels in participants who attended th

### Alexis Osowski

Austin Peav State University School of Nursing

Disease Control and revention. https://www.ncc.gov/onortes/controlled-complication/filedbetes/and-your-heart html \*Khun, R. K., Misra, R. Shawley-Brzoska, S., & Wen, S. (2022). Predictors of diabetes risk perception among college students. Journal of Jamesican college health 3.1 of ACH, 70(6), 1803–1809. https://doi.org/10.1080/07448/81.2009.1835222. \*Janksonen, D. E., Lindström, J., Lakka, T. A., Eriksson, J. G., Niskanen, L., Widström, K., Aarola, S., Keinaten-Kitikaamieni, S., Laakso, M., Yalle, T. T., Hanne-Parikka, P., k, Adinosi, S., Actimiteri-viusaamiemi, S., Lisaksi, M., Vaile, F. L., Linnies-mikas, F., couberanta, A., Himalainen, H., Rastas, M., Salminen, V., Cepairis, Z., Hakumaki, M. Saikkoner, H., Härkönen, P., Sundvall, J. ... Finnish diabetes prevention study (2005 Physical activity in the prevention of type 2 diabetes: the Finnish diabetes prevention

Tennova Healthcare Nursing Research Day Poster Symposium (April 16, 2025, 2:00 - 4:00 p.m.)



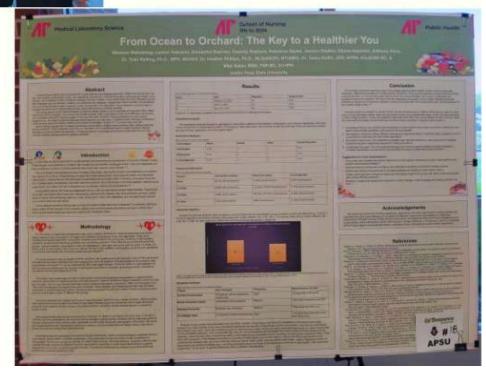
### TEAM 10

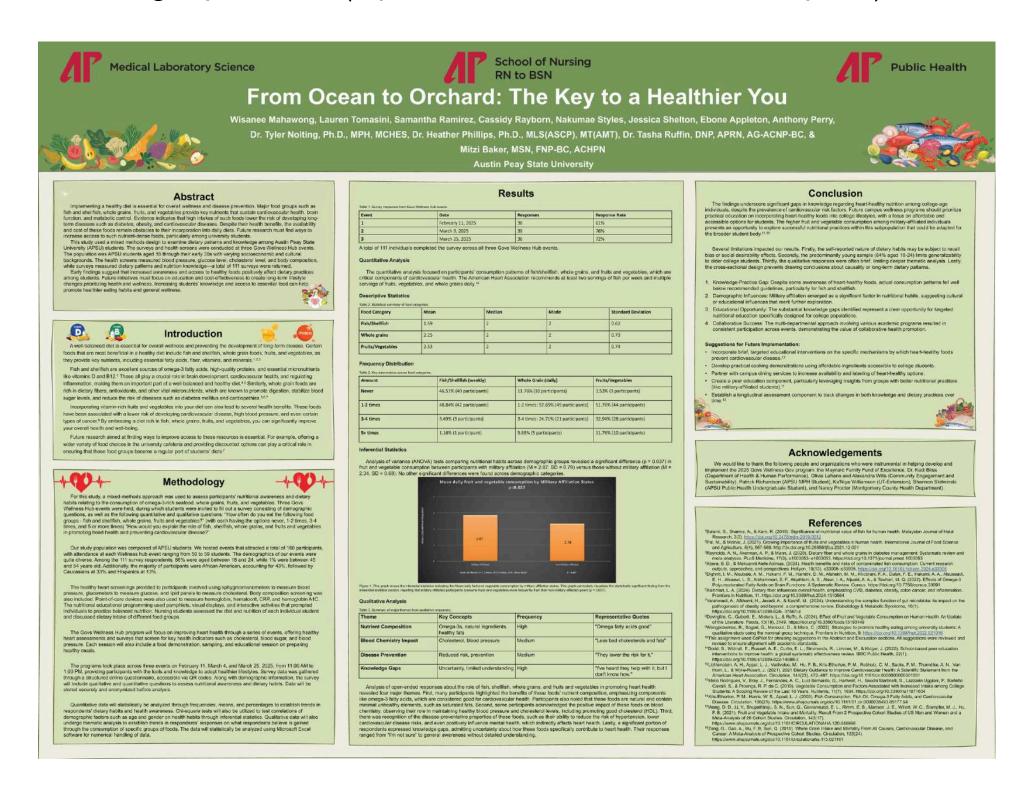
Wisanne Mahawong: Group Leader (HHP 4800)

Lauren Tomasini: MTEC 4090 Samantha Ramirez: MTEC 4090 Cassidy Rayborn: NURS 4050/4051 Nakumae Styles: NURS 4050/4051 Jessica Shelton: NURS 4050/4051 Ebone Appleton: MTEC 4090 Anthony Perry: NURS 4050/4051

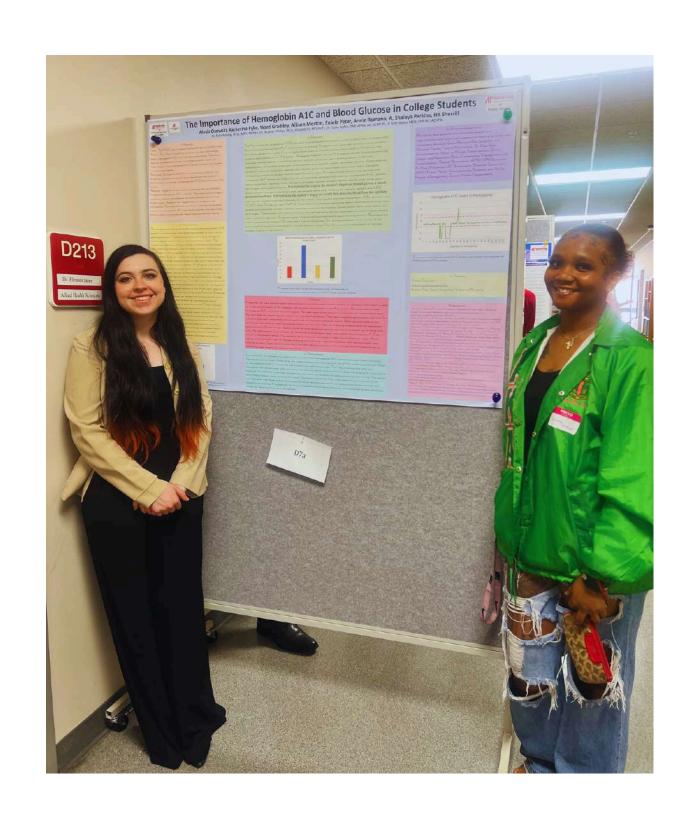
### POSTER TITLE

From Ocean to Orchard: The Key to a Healthier You





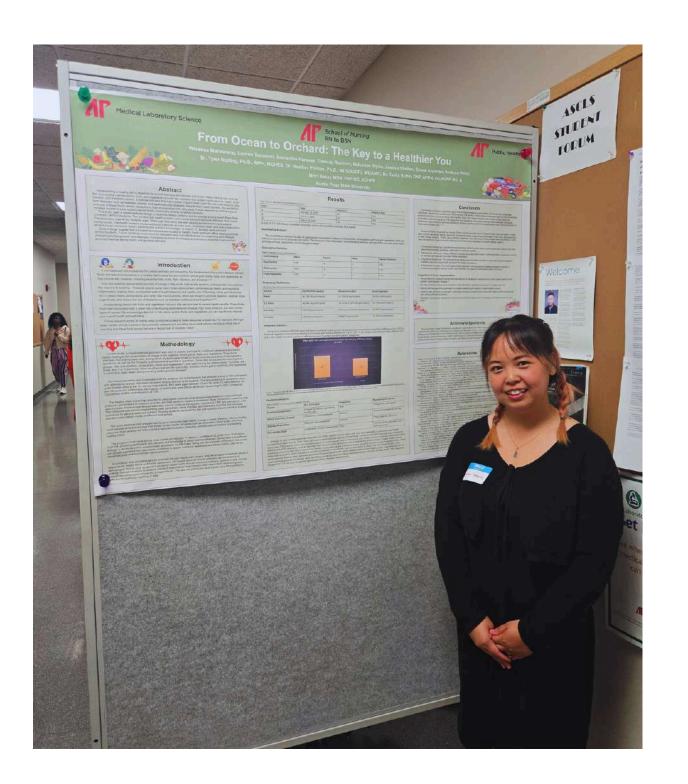
APSU Student Research & Scholarly Activity Symposium (April 23, 2025, 2:00 - 4:00 p.m.)





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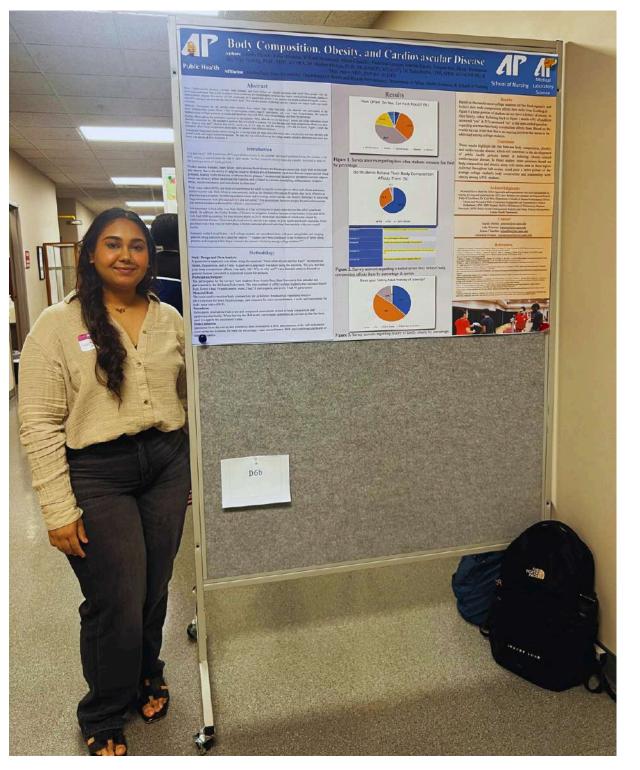




# Evaluation Model

APSU Student Research & Scholarly Activity Symposium (April 23, 2025, 2:00 - 4:00 p.m.)

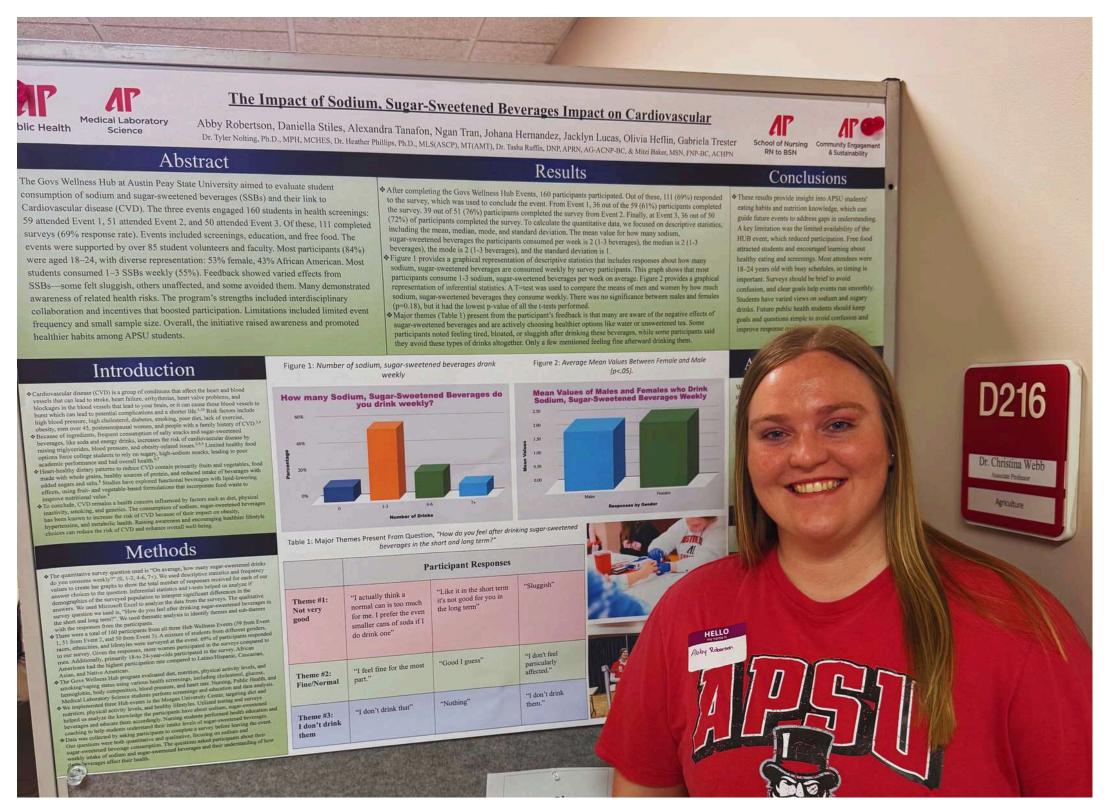


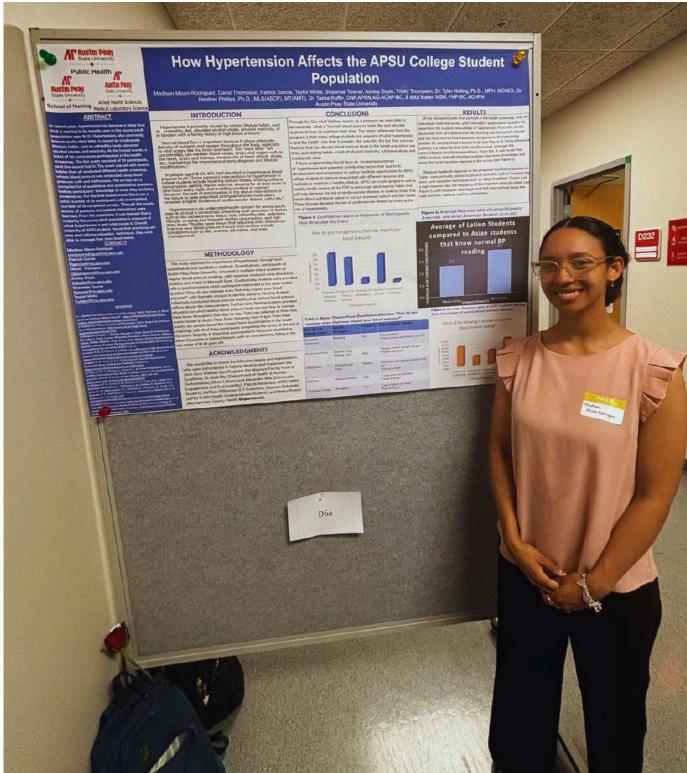


Won 2<sup>nd</sup> Place in the Health Division

# Evaluation Model

APSU Student Research & Scholarly Activity Symposium (April 23, 2025, 2:00 - 4:00 p.m.)





## Evaluation Model

Acknowledgement of HHP 4800 Student Leaders







Dr. Ruffin celebrates the leadership and guidance of HHP 4800 and the student group leaders.

Dr. Nolting and HHP 4800 students celebrate the finale of the Govs Wellness Program at the final poster symposium.

Time Investment: Giving the time and effort it takes for successful outcomes

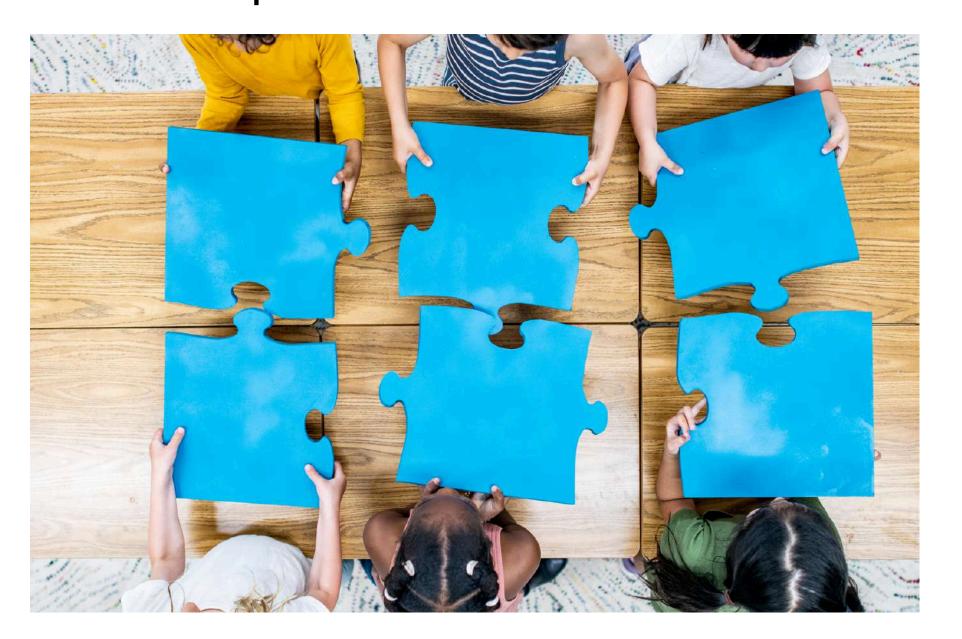


#### - Challenge:

Underestimating resource requirements

- Lesson: Success demands sustained commitment beyond initial projections
- Suggestion: Build realistic timelines with contingency buffers

**Team Satisfaction:** Group work and satisfaction of team members, program partners, and recipients



- Challenge: Balancing diverse stakeholder expectations
- Lesson: Regular feedback
   loops prevent disconnect and
   burnout
- Suggestion: Establish clear communication channels and recognition systems

#### Program Sustainability:

Program maintenance and sustainability



- Challenge: Maintaining momentum after initial implementation
- Lesson: Early planning for long-term viability is essential
- Suggestion: Develop succession plans and knowledge transfer protocols

Team Culture: Creating a positive team culture and environment



- Challenge: Building cohesion across different programs
- Lesson: Intentional culture-building activities drive engagement
  - Suggestion: Invest in team development from project inception

### Future Funding: Funding for future

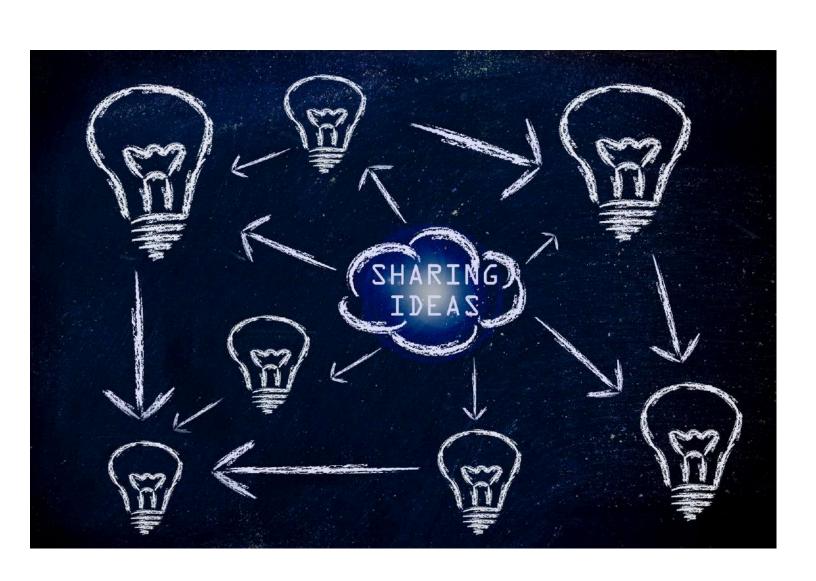
programs



- Challenge: Securing ongoing financial support
  - Lesson: Document impact metrics throughout program lifecycle
- Suggestion: Cultivate diverse funding streams and demonstrate ROI early

#### **Knowledge Sharing:**

Sharing findings with others for future use and implementation



- Challenge: Translating lessons into actionable insights for others
- Lesson: Systematic documentation enables broader impact
  - Suggestion: Create standardized reporting templates and dissemination strategies

# Plans for the Future

Govs Wellness Hub 2.0: Caring for Campus and Community (2025–2026 Academic Year)

#### Campus Wellness Hub Event

- Comprehensive health screenings for students and community members
- Partnership with APSU Office of Community Engagement and Sustainability to bring health and wellness organizations to campus
- Focus on preventive health education and services









# Plans for the Future

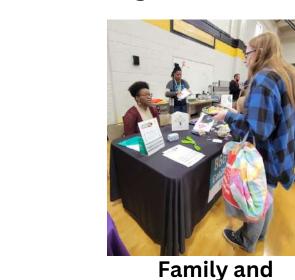
Govs Wellness Hub 2.0: Caring for Campus and Community (2025–2026 Academic Year)

#### Community Wellness Hub Event

- Partnership with Loaves and Fishes and Clarksville Parks and Recreation
- Health screenings combined with resources addressing basic needs and food security
- Targeted outreach to vulnerable community populations



HHP 4800, NURS 4050, and MTEC 4090 Students Providing Health Screenings



Family and Children's Services



Dr. Lillian Beard-Gaines, MD Michelle Bulla, ANP-BC



Clarksville Neighborhood and Community Services

Collaboration with Dr. Kadi Bliss, Mrs. Olivia Lahann, Dr. Tasha Ruffin, Mrs. Mitzi Baker, Dr. Heather Phillips, Ms. Alexandra Wills, and Dr. Tyler Nolting

**MLS and Phlebotomy Students** 

**Providing Screenings** 

## Plans for the Future

Govs Wellness Hub 2.0: Caring for Campus and Community (2025–2026 Academic Year)

#### Community Wellness Hub Event (continued)



Montgomery County
Health Coalition



goinglocal initiative



Matthew Walker Comprehensive Health Center



**DocGo Mobile Health Clinic** 



**Clarksville Parks and Recreation** 



Juvenile Engagement Team



thrive for a healthier Tennessee

Collaboration with Dr. Kadi Bliss, Mrs. Olivia Lahann, Dr. Tasha Ruffin, Mrs. Mitzi Baker, Dr. Heather Phillips, Ms. Alexandra Wills, and Dr. Tyler Nolting

# Some Inspiring Words from Clarksville's 3-Time Olympic Gold Medalist



Wilma (center) surrounded by her parents, Blanche and Eddie.

"No matter what great things you accomplish, somebody helps you."

-Wilma Rudolph

#### By DWIGHT LEWIS

Staff Writer

When Wilma Rudolph was around 6 years old and ill with scarlet fever, the whooping cough and polio, her mother, Blanche Pettus Rudolph, told her she could still be anything that she wanted to be.

Wilma listened to her mother's words of encouragement and in August 1960 — without the leg braces that she wore from the time she was 6 until she was 10 — won three gold medals in the Olympic Games at Rome.

said. "She was always there for her children and other members of her family.

"When I was a little girl, she told me I could be anything that I wanted to be if I worked hard and believed in myself. She said if I never stopped working hard and believing in myself that it would work for me and it did."

"She was my everything," Wilma Rudolph said.

# Some More Inspiring Words from Clarksville's 8-Time National Champion



Coach Summitt hugs her mom, Hazel Head.

"I've always said, 'You win in life with people."

-Pat Summitt



# ANY QUESTIONS?

