

FSU

WELCOME

2025 Postdoctoral Fall Symposium

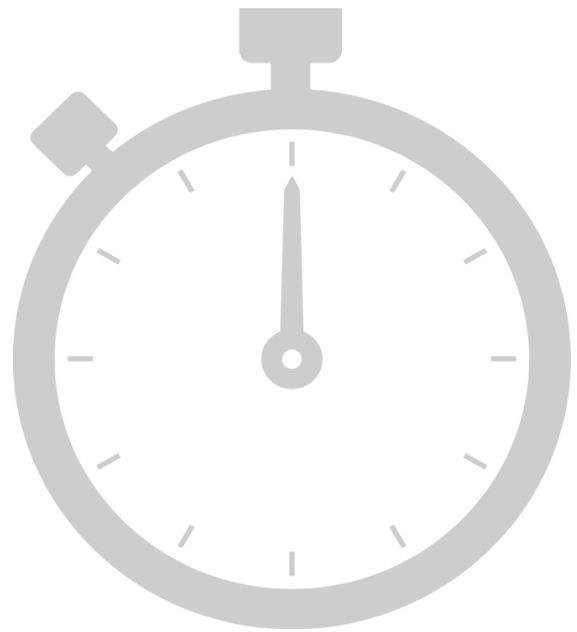
The Office of Postdoctoral Affairs

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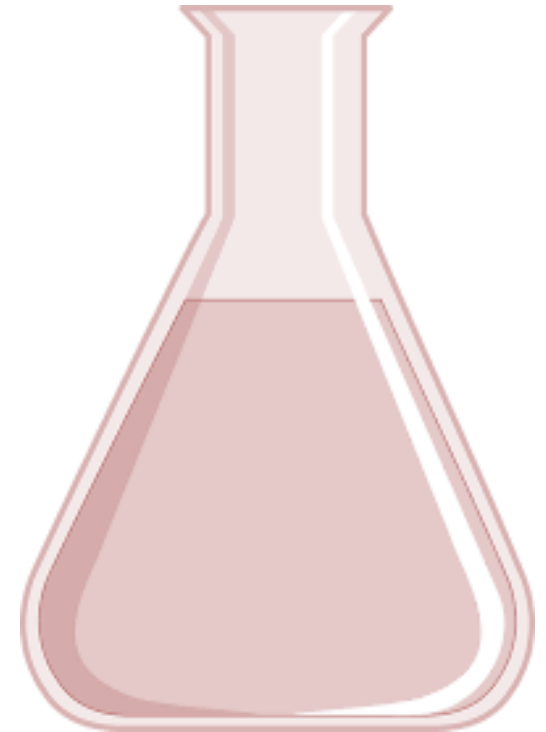
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The Office of Postdoctoral Affairs

Presents:



FIVE
MINUTE
RESEARCH
POSTDOC COMPETITION



Florida State University

THANK YOU TEAM!

Savannah Aleksic
Manuscript Clearance Advisor

Srivalli Dorasetty
Application Developer, Designer

Khadijat Pedro
Graduate Assistant - Office of Postdoctoral Affairs

Chandler Blount
Manuscript Clearance Advisor

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Graduate Enrollment Specialist

Keith McCall
Acting Director Office of Graduate Awards & Fellowships

Pearl Key-Rivers
*Postdoctoral Scholar in Biological Science
PDA President*

Joy Stein
Event Administrative Specialist

Kyle Wilson
Geoset Studios!

Calem Wooten
Graduate Enrollment Specialist

Postdoctoral Association Leadership Team! - Pearl Key-Rivers (President), Olivia Cook (Senior Advisor), and Betsy Mansfield (Senior Advisor).

THANK YOU JUDGES!

Alicia Batailles

*Senior Associate Director of the Center for
Undergraduate Research and Academic
Engagement*

Rick Burnette

Senior Vice Provost and Chief Strategy Officer

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Director of Strategy & Recognition

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FSU Librarian

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VP for Research Office*

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*President & CEO Foreign Affairs Center,
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Senior Director Sponsored Research Administration

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Civil Litigator

Yijiong Yang

College of Nursing

Genes, Health, and Heritage: How DNA and Ancestry Shape Our Metabolic Profiles

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Metabolic Syndrome Diagnostic Criteria

Central Obesity

Waist Circumference

>40 inches for men,
>35 inches for women

Metabolic Markers

Glucose

≥100 mg/dL or diabetes

Triglycerides

≥150 mg/dL

HDL Cholesterol

<40 mg/dL (men),
<50 mg/dL (women)

Blood Pressure

≥130/85 mmHg or
hypertension

Diagnosis

MetS Criteria

≥3 of 5 components
present

Validation

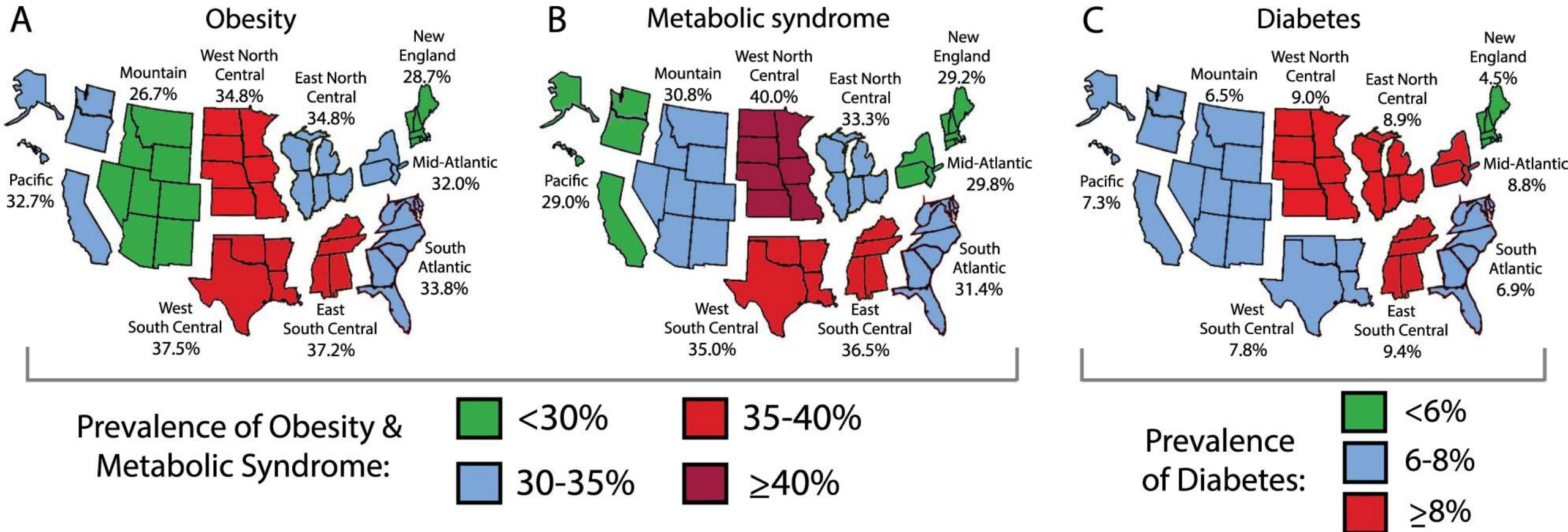
AHA/NHLBI
standardized criteria

3+
Criteria Required

5
Total Components

Population-specific thresholds
Ethnic Variation

Prevalence of obesity, metabolic syndrome, and diabetes by US census division



Study Population Overview

633,547

Total Database

134,479

Initial Cohort

122,620

Final Analysis

16,113

Hispanic Focus

Demographics

Diverse ancestry representation with comprehensive phenotyping

- White: 74,059 (60.4%)
- Black: 22,494 (18.3%)
- Hispanic: 16,113 (13.1%)

Clinical Variables

Comprehensive metabolic and lifestyle assessment

- Waist circumference: 459,070
- BMI metrics: 508,970
- Blood pressure: 13,438
- HDL Cholesterol:

Covariates

Extensive confounding variable adjustment

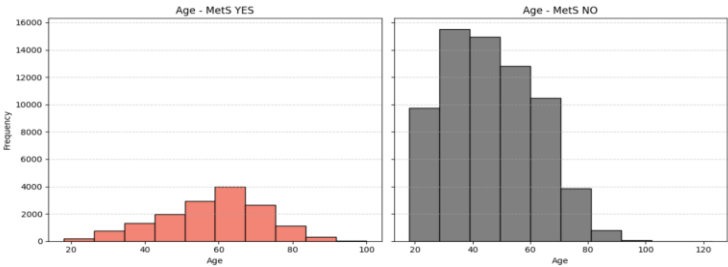
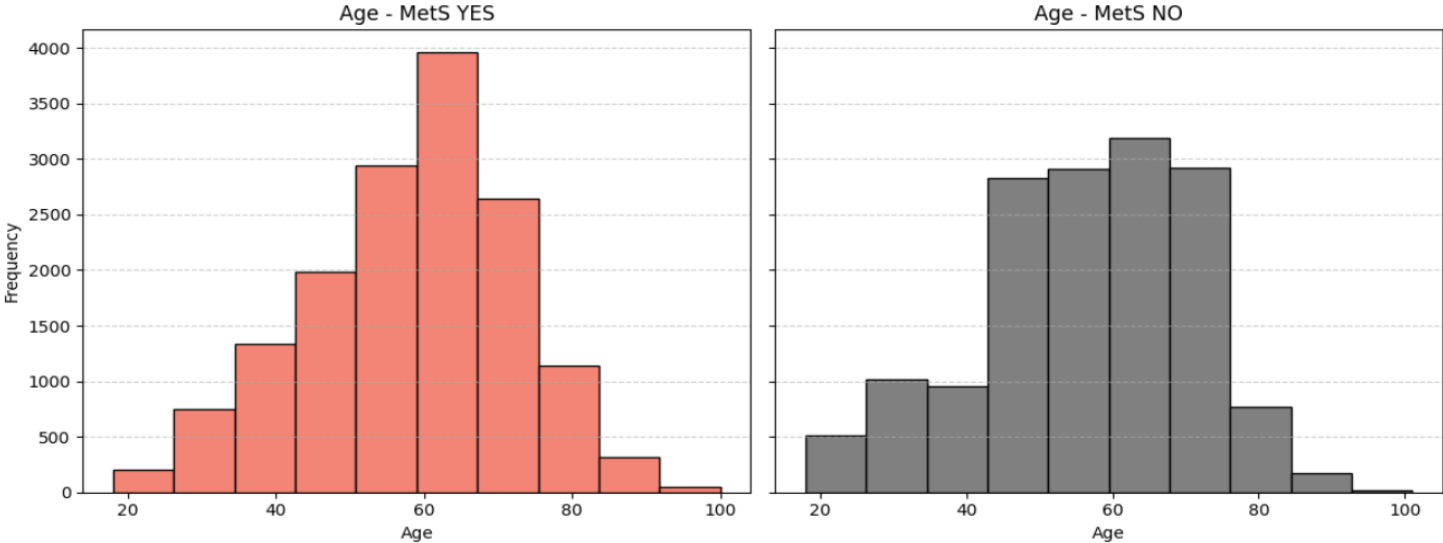
- Environment: pollution, SES
- Lifestyle: diet, exercise, smoking
- Medical history: diabetes, CVD

Cohort Balancing Using Propensity Score Matching

MetS Cohort

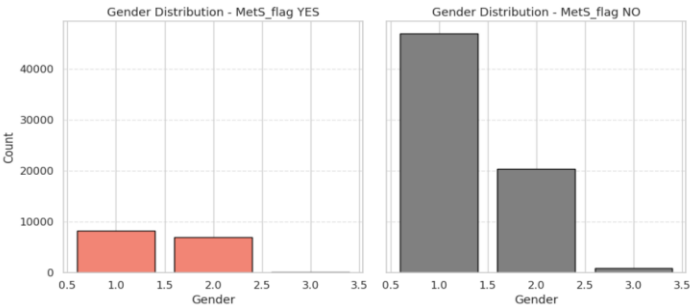
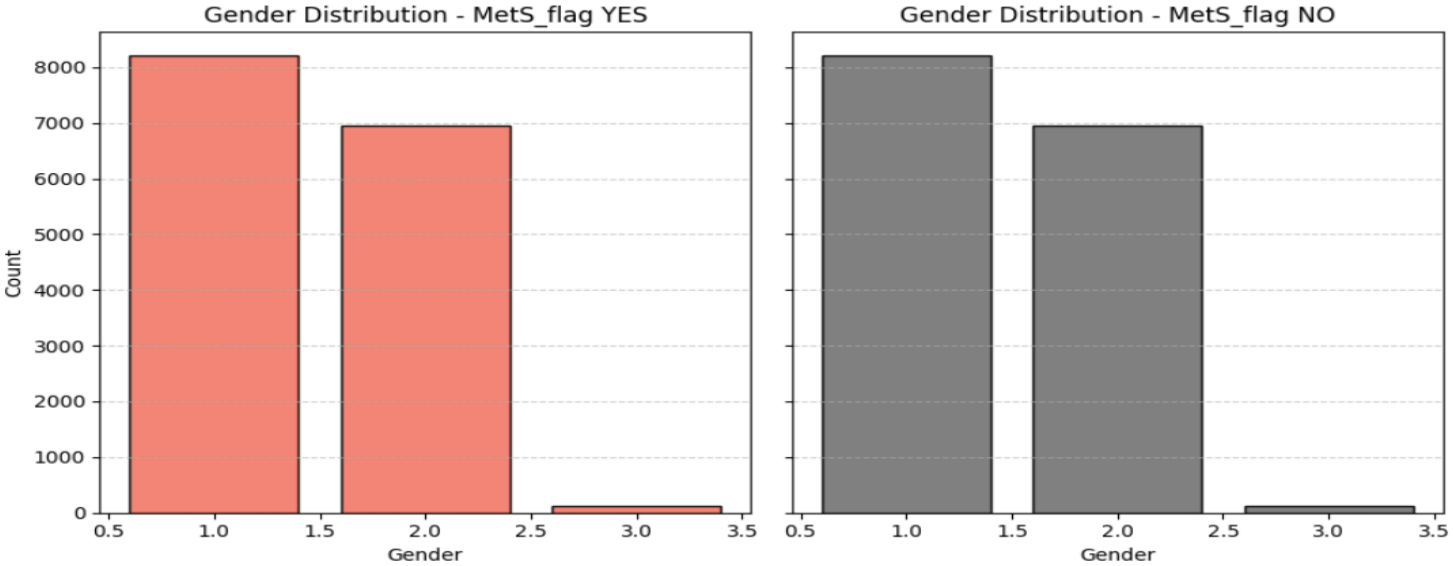
Non MetS Cohort

Age



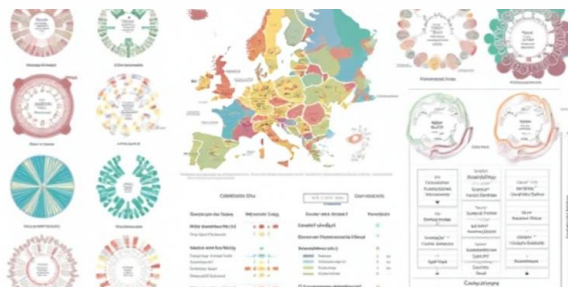
Age	18-44	45-64	65+
No MetS	2716	7125	5459
MetS	2716	7125	5459

Gender



Gender	Female	Male	Other
No MetS	8218	6951	131
MetS	8218	6951	131

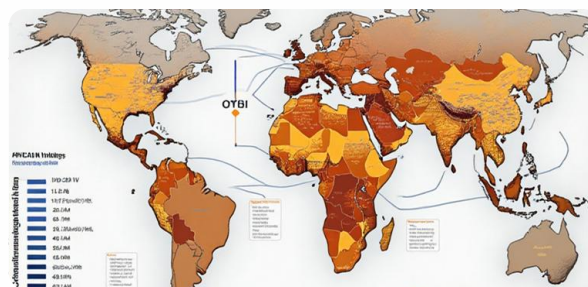
Ancestry Stratification



European ancestry analysis

White

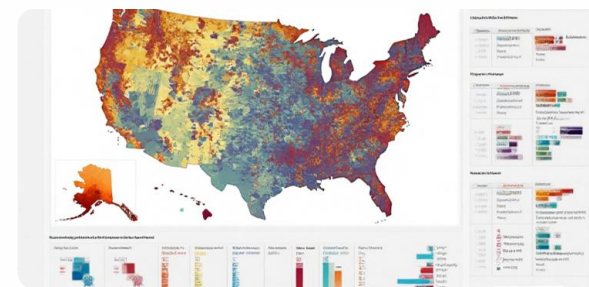
- Largest group: 74,059
- Genome-Wide Association Study
- Genetic associations linked to higher risk of obesity and blood sugar



African ancestry population

Black

- 22,494 participants included
- Distinct genetic architecture
- Ancestry-specific risk variants in blood pressure and cholesterol risk



Admixed American ancestry

American Hispanic

- 16,113 participants analyzed
- Primary focus population
- Complex admixture patterns

All of Us Biomedical Researchers Scholars Program



DEPARTMENT OF
MOLECULAR & HUMAN
GENETICS

Metabolic Mosaic Team

Vinay Raj (University of Arkansas at Pine Bluff)
Yijiong Yang (Florida State University),
Minal Jamsandekar (Cold Spring Harbor Laboratory)
May Cheung (Brooklyn College),
Xiaowei Hu (University of Virginia)

FSU College of Nursing



FSU
NURSING



POSTDOCTORAL



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Postdoctoral
Scholar
PhD, MPH



FLORIDA STATE
UNIVERSITY

Thank you!

Question & Answer

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PEOPLE'S CHOICE AWARD

**Vote for your favorite
presentation!**

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PEOPLE'S CHOICE AWARD

**To Vote = Scan the QR Code and Then
Click Your Favorite Number!**



1 – Yu-Jou Chou

Plastic in Our Plates, Plastic in Our Bodies?

2 – Evan Lloyd

How Evolution Shapes the Brain

**3 – Anirudh Lakshmi Narasimha
Prasad**

Taming Jet Roars with Tiny Lightening Zap

4 – Sagiv Shiber

Exploding Stars – The Role of Magnetic Fields

5 – Ashley Allen Carr

Living Glass in Space

6 – Buna Bhandari

*Isolation within Isolation: Unmasking
COVID-19 Stigma*

7 – Yijiong Yang

*Genes, Health, and Heritage: How DNA and Ancestry Shape Our
Metabolic Profiles*

8 – Saptarsi Mitra

From Smell to Appetite: Linking Odors with Feeding Circuits

9 – Behrouz Ghazi Esfahani

Seeing is Curing: Cyro EM in the Fight Against Respiratory Pathogens

10 – Shekhar Chauhan

Memory and Math Across the Nations

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AWARDS & RECEPTION

**Please join us for refreshments
and award presentations**

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PROGRAM END

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