

# Enhancing Rural Care: Bridging Gaps in Quality Through Proactive Physical Therapy and Fall Prevention

July 29, 2025

Sara Arena PT, DScPT and Chris Wilson PT, DPT, DScPT Oakland University Physical Therapy Program



## Introductions



Sara Arena PT, MS, DScPT



**Chris Wilson PT, DPT, DScPT Board Certified Geriatric Specialist** 

### Disclosure



Drs. Chris Wilson and Sara Arena are co-principals of HOP-UP-PT, LLC

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## Objectives



- Define the role of prevention-focused physical therapy in improving healthcare quality and outcomes for older adults in rural setting.
- Identify evidence-based strategies for implementing fall prevention programs within critical access hospitals and rural communities.
- Describe practical approaches to integrating physical therapy into population health initiatives to address rural healthcare disparities and meet quality benchmarks.

Not Community
Dwelling
Sometimes Can
Leave Home
Leave Home

Able to
Community

Able to
Community

Able to
Community

Comm

Acute Hospitalization

Medically Unstable and Not Safe to Live at Home Home Care

Medically Stable but Unable to Safely Leave Home Able to sometimes leave home HOP-UP Early ID and Preventative Treatment

**Outpatient Therapy** 

Requires Therapy and Consistently and Easily Able to Leave Home Community Centers or Fitness Activities

Preventative Exercise and Wellness

More Frail

**Intermediate Frailty** 

Not Frail

### The Role Of Community-Based Providers



- Community-Based Providers are on the front line
  - Identify individuals at risk of physical decline
  - Identify candidates for preventative physical therapist (PT) services
  - Valuable partners to bring together public health and healthcare domains

#### Social Determinants of Health (CDC)



"Creating social and physical environments that promote good health for all"



#### Economic Value of Fall Prevention

**QALY** 

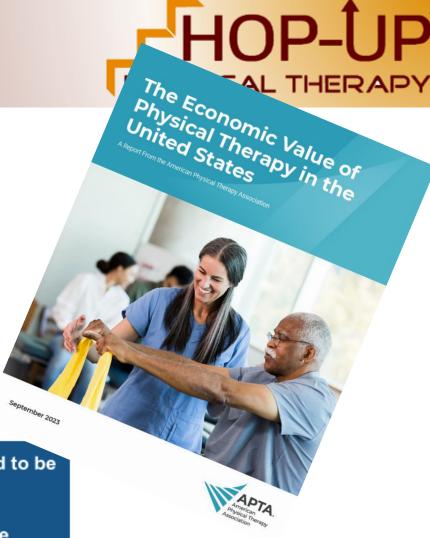
The quality-adjusted life year, or QALY, is a measure of both length and quality of life for which years of life lived with less than full health are assigned a lower value than healthy life years. It is calculated by multiplying each life year by a number between 1 and 0, where 1 (full health) and 0 (death). The calculation considers dimensions such as mobility, self-care, ability to undertake usual activities, pain and discomfort, and anxiety and depression.

#### **Falls Prevention**

#### **Summary of Findings**

The average net benefit of physical therapy-based falls-prevention exercise is estimated to be \$2,144 per episode of care.

The cost per QALY gained relative to the alternative of no intervention is estimated to be \$13,425. Patients who participated in a physical therapy-led falls-prevention exercise program had a mean QALY of 0.009 higher and a mean medical cost of \$121 higher than those who received no intervention, indicating the cost-effectiveness of physical therapist services.



### HOP-UP-PT





- Home-based Older Persons
   Upstreaming Prevention Physical
   Therapy (HOP-UP-PT) Program
  - An approach developed in response to the identified need
  - Community center staff identify older adults who may be at risk of falls or are unable to remain safely at home or in the community, and refer to physical therapists

#### Vision and Mission





#### **Vision**

Empower older adults to stay safe and active in their home and community

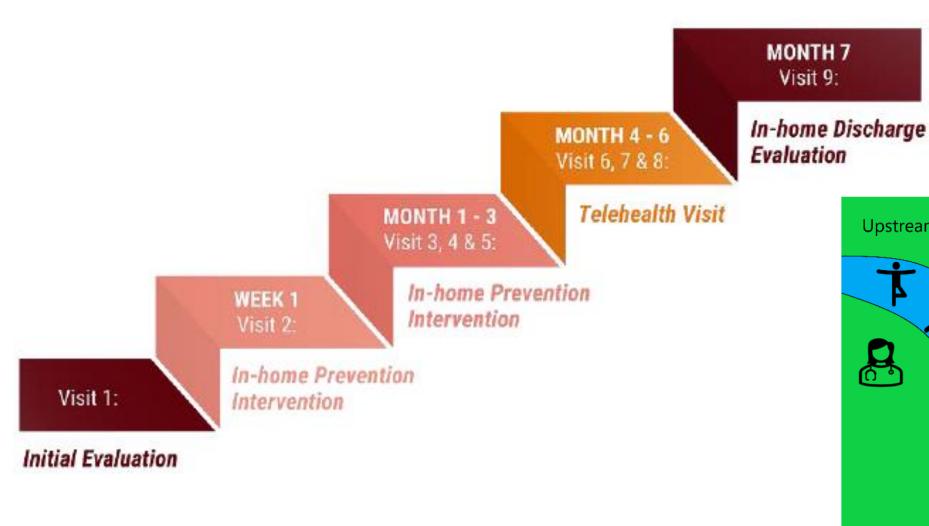
#### **Mission**

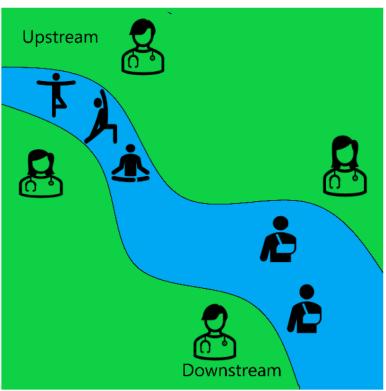
To provide early preventative interventions to senior citizens at risk of being homebound by facilitating partnerships between community centers and local physical therapists.

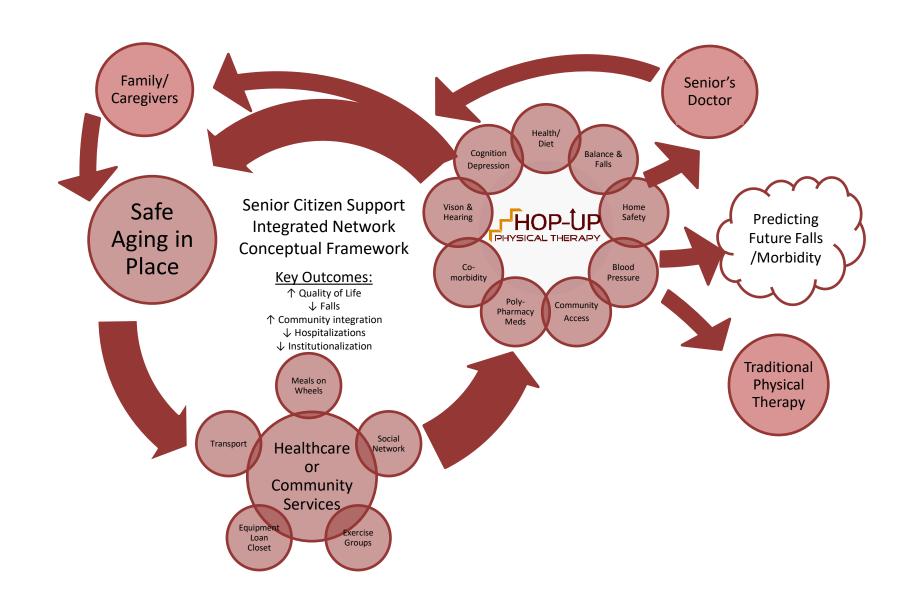
HOP-UP-PT, LLC, © 2021.

### Role of Upstream Healthcare





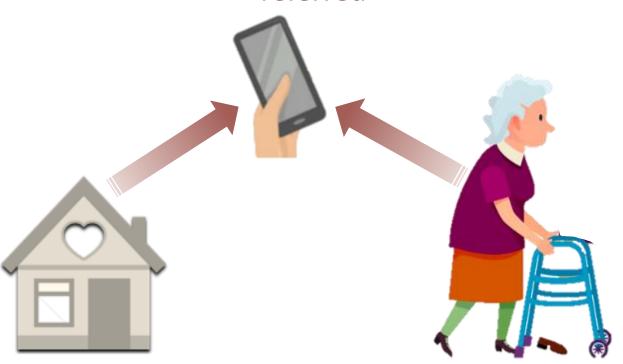




### Program Candidates



Potential participants are referred through their healthcare provider, local senior community center, or an individual may selfreferred



★ 65 years of age or older

★ No recent serious medical event (i.e., heart attack or stroke)

★ No recent PT or hospitalization

#### What is provided to participants...



6 In-person home visits and 3 telerehabilitation visits in a 6-7 month delivery time frame

Comprehensive risk assessment

Home/living environment evaluation and recommendations

Individualized balance exercises

Motivational interviewing to address person-centered health behavior change

Referrals to other medical professionals (as needed)



### Comprehensive Evaluation on Visit 1



15



Checklist and Recommended Order of Events for Visit 1 (*=items that could be mailed or emailed before visit)	
□ Consent to Treatment from your organization (contact HOP-UP-PT if one is needed)*	☐ Timed Up and Go
☐ ACSM Exercise Pre-participation Health Screening Questionnaire for Exercise Professionals	□ Short Physical Performance Battery
<ul> <li>Mini Cog (Score = 3 or less, administer Trail Making Test B – if &gt; 273 seconds, cognitive impairment is likely and refer to PCP)</li> </ul>	□ 3-meter gait speed
□ Your Risk for Falling Questions	☐ Four stage balance test
	☐ 5 times sit to stand
PHQ-9 Depression Screen (Score >9 = referral. If they answered yes to question 9, they need further assessment for suicide risk by an individual who is competent to assess	☐ Home FAST-HP Home Assessment OR HomeFAST-SR*
this risk.) *	□ Calculate STEADI Fall Risk Category
□ Modified Falls Self Efficacy Scale*	□ Calculate Frailty
□ Physical Therapy Healthy Lifestyle Appraisal*	☐ Open up and administer the Omron electronic blood pressure cuff. Make sure that
□ Functional Comorbidity Index*	the blood pressure cuff fits the person's arm.
□ Past Medical History/Surgical History/Medication Review from Clinical Documentation	□ Otago Exercise Level (for next visit)
□ Orthostatic Blood Pressure	□ Schedule/verify next visit
□ Grip Strength (if dynamometer available)	
Gross ROM and MMT	© HOP-UP-PT, LLC 2022

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## Example Follow Up Visit (Visit 3 = 2 weeks after Visit 1)





#### Checklist and Recommended Order of Events for Visit 3

Assess for any health or medical changes or falls
Check blood pressure, heart rate, and weight. Document each measure in the medical record
Verify that the activity monitor device is syncing and check on the average steps per day and compliance with wearing
Review Otago exercises using the written handout and exercise log
Using the results of the Physical Therapy Healthy Lifestyle Appraisal, provide motivational interviewing on key areas of health behavior improvement
Check on the status of any home modification recommendations for home safety and provide additional guidance as necessary
Schedule/verify next visit





#### HOP-UP-PT (Arena, 2021)



The purpose of this study was to describe Outcomes of HOP-UP-PT program participants and then to compare these outcomes to nonparticipants. **BMC Geriatrics** 

Arena et al. BMC Geriatrics (2021) 21:520 https://doi.org/10.1186/s12877-021-02450-0

RESEARCH **Open Access** 

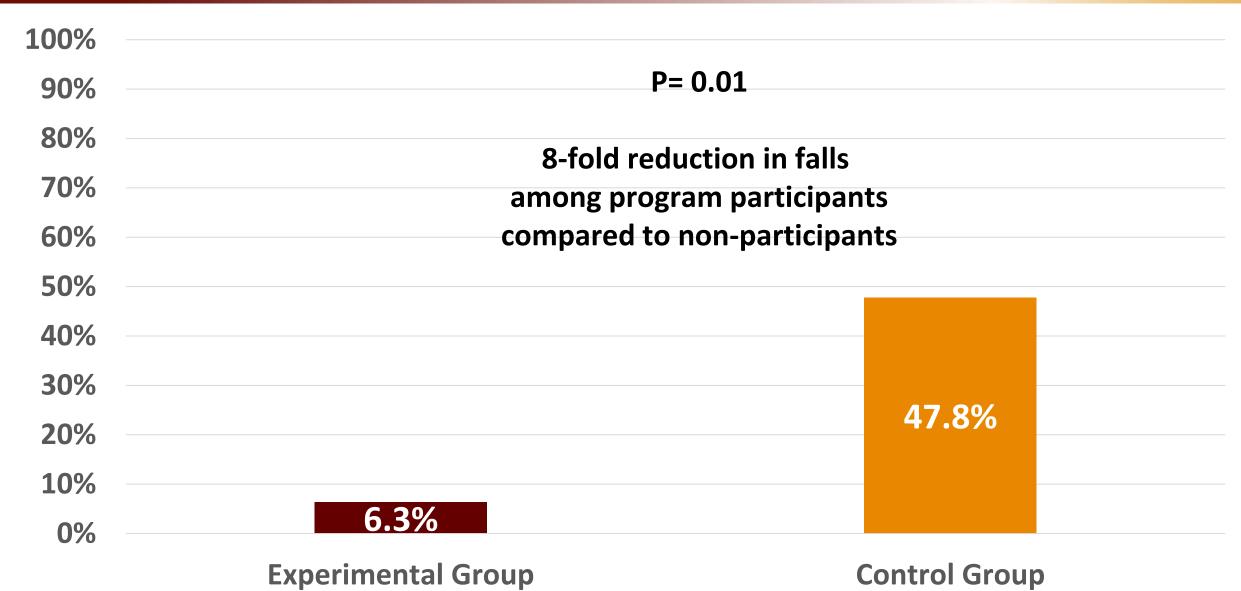
Impact of the HOP-UP-PT program on older adults at risk to fall: a randomized controlled trial



Sara K. Arena<sup>1\*</sup>, Christopher M. Wilson<sup>1</sup>, Lori Boright<sup>1</sup> and Edward Peterson<sup>2</sup>

## Fallers (Mod and High Fall Risk Participants)





## Overarching Outcomes



- HOP-UP-PT participants demonstrated
  - Reduced fall events
  - Improved physical outcomes measures
  - Improved safety in the lived environment

- Collaboration between PTs and community senior centers
  - Provides an innovative upstreaming direct access care delivery model
  - May reduce financial and personal burdens in an older adult population

## QR code- Open access Manuscript



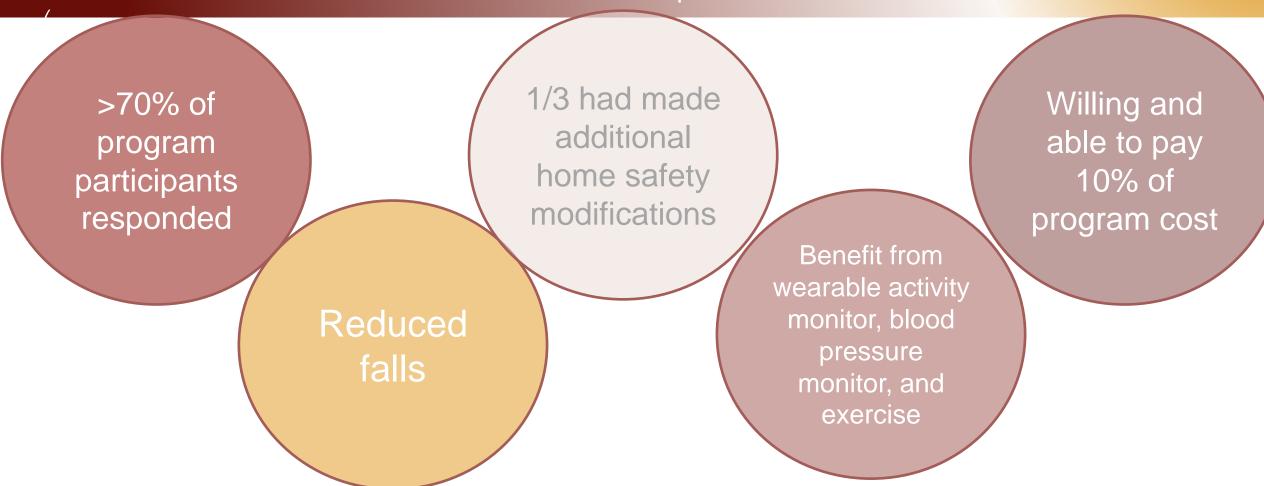


Impact of the HOP-UP-PT program on older adults at risk to fall: a randomized controlled trial *BMC Geriatrics* 

### HOP-UP-PT:

### 3- and 6-Month Outcomes and Perceptions





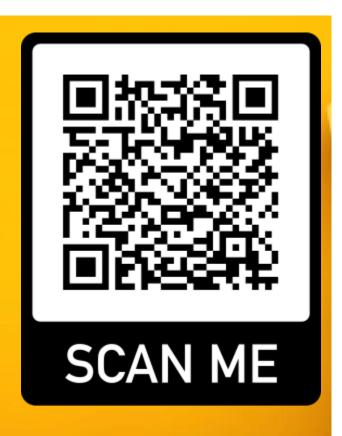
Insurer supported preventative health programs, including the HOP-UP-PT program, are warranted to shift the healthcare paradigm to integrate evidence-based upstream care delivery models.

## QR code- Open access Manuscript



Long-Term Outcomes and Perceptions of Older Adults after the HOP-UP-PT Program

Physical & Occupational Therapy In Geriatrics



## HOP-UP-PT: Pilot Reimbursement Launch



#### "Implementation of the Home-based Older Persons Upstreaming Prevention Physical Therapy Program"

#### Collaboration with:

- Henry Ford Home Health Care
- The Helm at Boll Life Center
- Infrastructure build for billing and documentation
- Pilot and feasibility (n= 6)
- Insurers reimbursed per Medicare fee schedule- ambulatory PT



## HOP-UP-PT: Pilot Reimbursement Launch





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DOI: 10.7759/cureus.67290

**Open Access Original Article** 

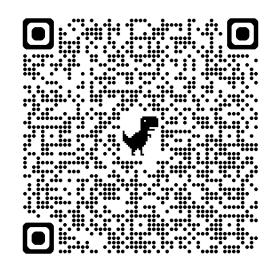
#### Administrative Analysis of the Home-Based Older Persons Upstreaming Prevention Physical Therapy Program: A Pilot Observational Study

Christopher M. Wilson <sup>1, 2</sup>, Sara K. Arena <sup>2</sup>, Kathryn Calleja <sup>2</sup>, Shane Patterson <sup>2</sup>, Hannah Randazzo <sup>2</sup>

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#### Abstract



The mean amount paid for the initial evaluation code was \$102.83 and the mean payment for th ~15 minute treatment codes was \$25.90 per unit. Initial pilot data demonstrated a potential for a 4.2% positive operating margin when considering salary costs and travel. The mean delay from the initial referral into the HOP-UP-PT program until the physician provided written authorization for physical therapy was 69.7 days.

## HOP-UP-PT: Full Reimbursement and administrative overview



#### Enrolled 53 adults ≥ 65 years from Southeast Michigan

- Collaboration with Henry Ford Home Health Care
- Wide variety of community center referrals
- Epic build for EMR documentation
- Billing as Medicare B or Med Advantage



## HOP-UP-PT: Full reimbursement and administrative outcomes



Estiminated Costs Per Episode of HOP-UP-PT Care	Amount Per Visit	Visits	Total Amount
Mileage per visit (not virtual)	\$6.20	6	\$37.20
Amount to get POC signed	\$30	1	\$30
Salary for in-person visits	\$72	6	\$432
Salary for virtual visits	\$36	3	\$108
Total Estimated Expenses			\$607

Estimated Insurance Payment Income (assuming all visits billed/paid)	Amount Per Visit	Visits	Total Amount
Avg paid per in-person visit with evaluation	\$94.26	6	\$565.56
Avg paid per virtual visit	\$47.02	3	\$141.06
Total Estimated Income			\$706.62
Projected Revenue			\$99.42
Projected Operating Margin			14.07%

## Summary of Findings

- HOP-UP-PT has shown feasibility for financial sustainability
- Important to bill for virtual visits
  - Increase in operating margin
- Administrative costs and delays in acquiring the plan of care were further supported
- Errors in submitting claims



## Implementation Approach



- Engage key stakeholders
  - 1. Identify in-house or community PTs interested in offering this program as a service and potential revenue/patient source.
  - 2. Coordinate with referral sources (e.g., community partners, senior centers) to assess interest in referring directly to a HOP-UP-PT program.
  - 3. We can assist in training PTs in clinical procedures, billing, documentation, and troubleshooting through an online course and/or live Zoom sessions.
  - 4. Educate referral sources that PT can be used proactively for prevention.







https://www.hopuppt.com/

## Community Ambassador Training



#### **Become an Ambassador**

Step 1 - Watch the Certified HOP-UP-PT Ambassador Training Video at the below link. (10 minutes)







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FEATURED

Foundational Concepts of the HOP-UP-PT (Home-Based Older Persons Upstreaming Prevention Physical Therapy) Program

HOP-UP-PT Foundational Independence Program

4 Total Credits: 4 CEU

SELF-PACED ONLINE

\$199 for Participant

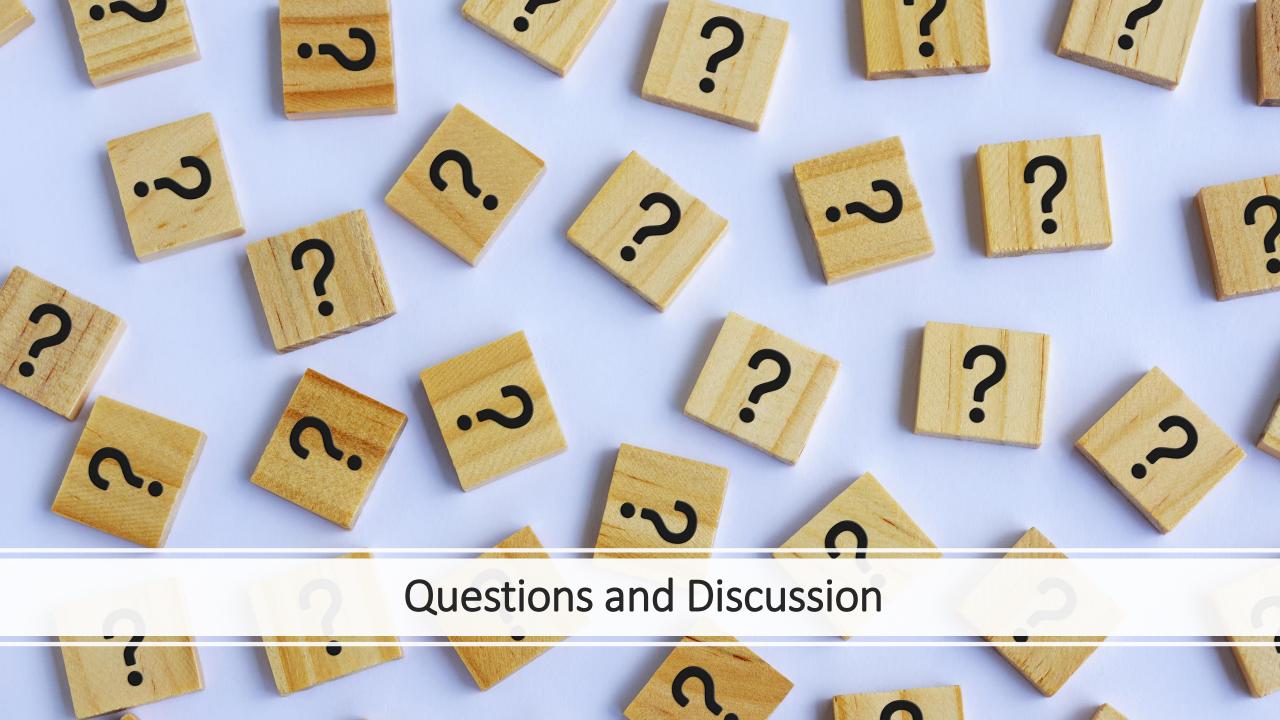


VIEW DETAILS

ADD TO CART

Learning Objectives

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## OAKLAND UNIVERSITY...