



University of Southern California  
Geriatrics Workforce Enhancement  
Program (GWEP)

Bonnie J Olsen, PhD  
Professor of Clinical Family Medicine

October 3, 2017

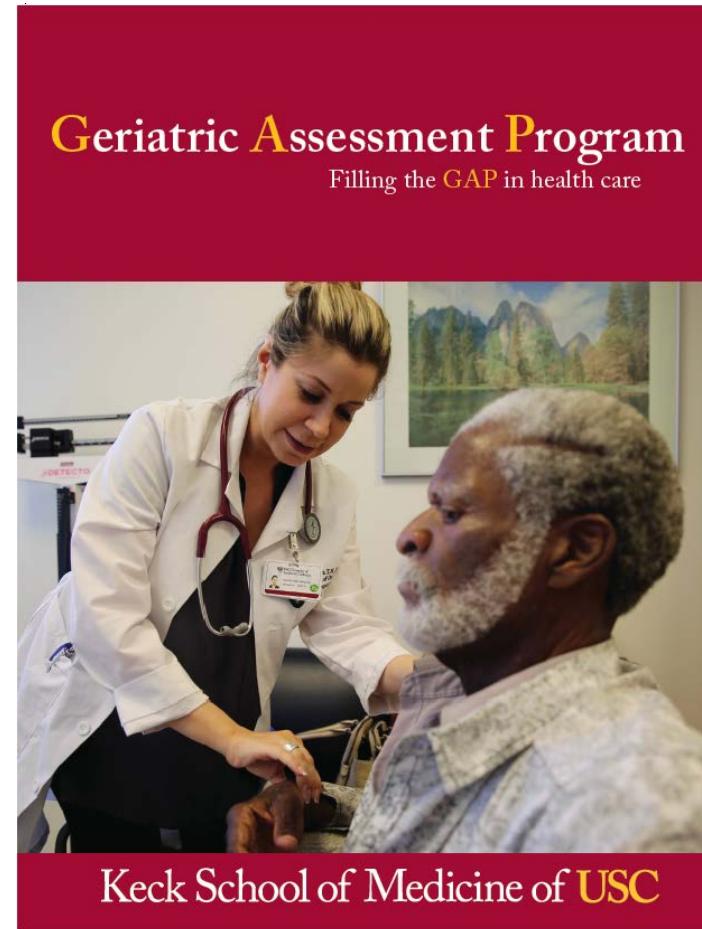
# Contributors

- Bonnie Olsen, PhD
- Gregory Stevens, PhD
- Freddi Segal-Gidan, PA, PhD
- Ashley. Halle, OTD, OTR/L
- Li Ding, MD, MPH

Supported by Grant #U1QHP28740 Health Resources Service Administration; Geriatric Workforce Enhancement Program

# Three Interprofessional Geriatric Training Programs

- Interprofessional Geriatric Curriculum (IPGC)
- Student Senior Partnership Program (SSPP)
- Geriatric Assessment Program (GAP)



# Interprofessional Geriatric Curriculum IPGC

# Interprofessional Geriatric Curriculum (IPGC)

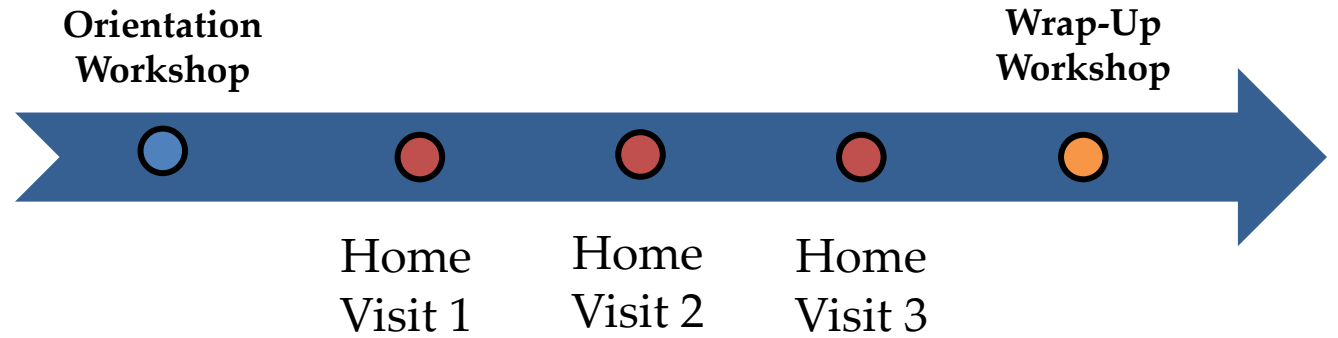
- Established 2010- 2011
  - Primary Care grant/HRSA (Family Medicine)
- Research outcomes support 2011-2015
  - LEAP-FIT IPE grant/HRSA (PA Program)
- Growth 2015-2018
  - GWEP grant/HRSA (Family Medicine)



# GOALS of IPGC

- Provide interprofessional team experience
- Teach geriatric competencies
- Practice assessment skills

# IPGC



## Teams:

- 7 interprofessional students
- older adult (low-income housing complex)
- faculty facilitator

## Home Visit

- Brief academic lecture (i.e. oral health)
- Team evaluation of older adult
- Debrief with team, larger group
- Reflection



# Student Education

## Participants

- Dentistry – 4<sup>th</sup> yr volunteer
- Medicine – 2<sup>nd</sup> yr, primary care tract
- Occupational Therapy – 2<sup>nd</sup> yr course
- Pharmacy – 3<sup>rd</sup> yr volunteer
- Physical Therapy – 2<sup>nd</sup> yr service requirement
- Physician Assistant – 3<sup>rd</sup> yr volunteer
- Social Work – variable yr, volunteer

## Didactic topics

- Polypharmacy
- Cognitive Assessment & Falls Prevention
- Oral Health & Nutrition
- Cultural Competency
- Health Literacy





# Older Adult Participants

## Housing partners

- Hollenbeck Home (2011 – 2012)
- Hope Through Housing (2012 – 2017)
- Menorah Housing (2014 – 2017)
- TELACU (2017)

## Inclusion criteria

> 65 years

English speaking

Cognitively intact

Commitment to 3 sessions

# IPGC Expansion

## 2015-2016

2 housing sites

12 teams of 7 students

- Dentistry: 14
- Medicine: 12
- Occupational Therapy: 8
- Pharmacy: 13
- Physical Therapy: 11
- Physician Assistant: 12
- Social Work: 13

## 2016-2017

3 housing sites

18 teams of 7 students

- Dentistry: 20
- Medicine: 18
- Occupational Therapy: 10
- Pharmacy: 17
- Physical Therapy: 18
- Physician Assistant: 8
- Social Work: 5

## 2017-2018 (estimated)

4 housing sites

24 teams of 6-7 students

- Dentistry: 23
- Medicine: 24
- Occupational Therapy: 24
- Pharmacy: 18
- Physical Therapy: 24
- Physician Assistant: 23
- Social Work: 13

# Student Senior Partnership Program SSPP

# Student Senior Partnership Program (SSPP)

Developed in 2015-2016 with support from GWEP grant

## Purpose & Goal:

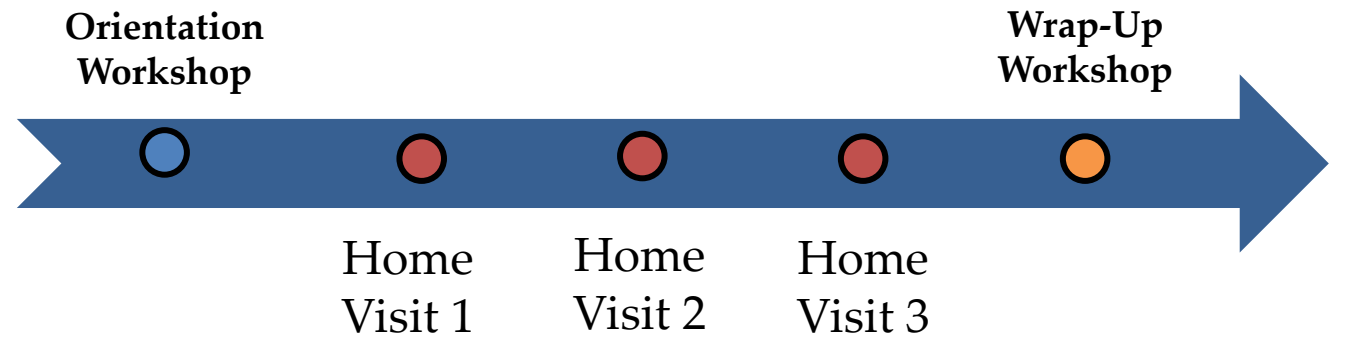
- Expose students to well-adapting senior volunteers
- Learn interprofessional team competencies
- Practice interviewing/listening skills
- Broaden concepts of healthy aging



# SSPP

## Teams

- 3-4 interprofessional students
- Senior volunteers:  
USC alumnus/alumna, retired faculty, others
- Faculty facilitator



## Home Visit

- Pre-visit team phone/video planning conference
- On line curriculum
- Visit to volunteer's home
- Creative project



# SSPP Student and Senior Volunteer Data

## 2016-2017

18 senior volunteers

17 teams of 3-4 students

- Dentistry: 10
- Medicine: 6
- Occupational Therapy: 9
- Pharmacy: 12
- Physical Therapy: 9
- Social Work: 6

## 2017-2018 (estimated)

20 senior volunteers

18 teams of 3-4 students

- Dentistry: 10
- Medicine: 12
- Occupational Therapy: 25
- Pharmacy: 10
- Physical Therapy: 10
- Social Work: 16

# Geriatric Assessment Program GAP

# Before Implementation of the GAP Clinic

## Established Family Medicine clinic

- Embedded in a fee for service tertiary/quaternary health care system
- Full spectrum family medicine but no focused geriatrics
- Minimal interprofessional team-based care
- Relatively new but inflexible EHR
- Evolving patient-centered model of care



# Geriatric Assessment (GAP) Clinic

- Weekly half-day clinic staffed by an interprofessional team:

Medicine	Social Worker
Physician Assistant	Occupational Therapist
Psychologist	Physical Therapist
Pharmacist	Dentist

- One-stop comprehensive assessment for older adults with multiple medical problems
- Focus on promoting function, balancing independence and safety, and supporting family caregivers.
- Students may be assigned to the clinic in a manner that best works for that student's program (i.e. one-time visit or four week rotation).

# Clinic Structure

Referrals from Keck/community providers/self-referred

1. Phone intake/engage family
2. Social work/OT home visit
3. 3-hour clinic visit with assessment by GAP Team
4. Order/recommend labs, scans, records
5. Return for 1-hour family conference (2-weeks later)
  - Referral to community partners/resources
  - Integrated clinical documentation for PCP/patient/family
6. Care coordination for Family Medicine primary care patients

## Students in GAP

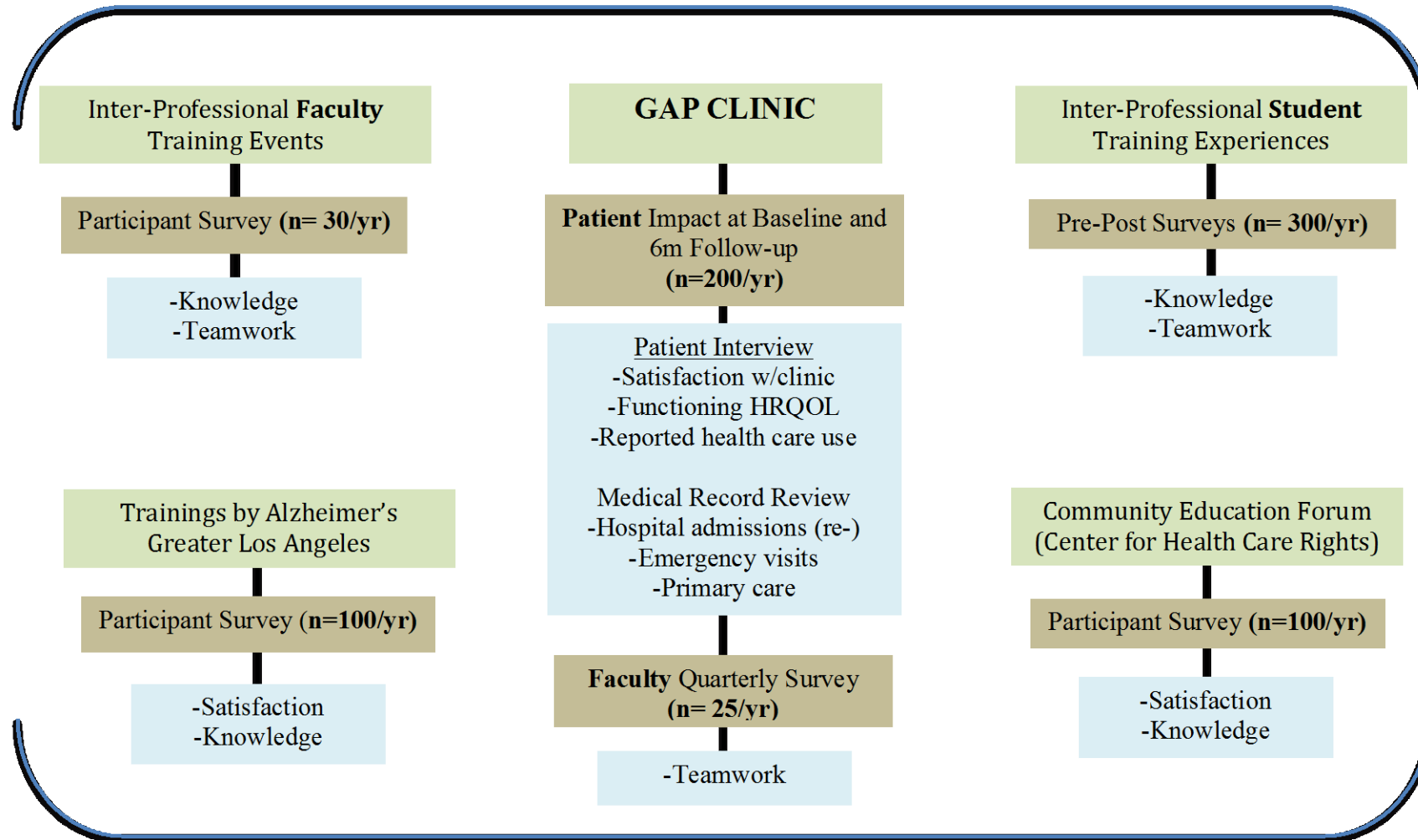
- Dentistry: 1
- Medicine: 4
- Occupational Therapy: 6
- Pharmacy: 17
- Physical Therapy: 2
- Physician Assistant: 1
- Psychology: 5
- Social Work: 6

## Patients in GAP

Over 108 patients have been seen in the GAP Clinic since its inception in December 2015

# Impact of GWEP Programs on Students

# Evaluation Overview



# Student Evaluation

- 97% response rate overall to on-line survey
- Pre-post self-report 5-point Likert scale
  - Geriatric Attitudes Scale
    - 14-item scale
    - [J Am Geriatr Soc](#). 1998 Nov;46(11):1425-30.
  - Geriatric Assessment Capability Scale
    - 9-item assessment tasks, developed for our use
- Post Experience 2-Question Reflection

# Student participant demographics

## Age

- 20-29 = 89%
- 30-39 = 10%
- 40-49 = <1%

## Race/Ethnicity

39% Asian  
8% Black  
15% Latino  
33% White  
5% Other

- 81% Female

# Professional Program Distribution

Total (n = 157)

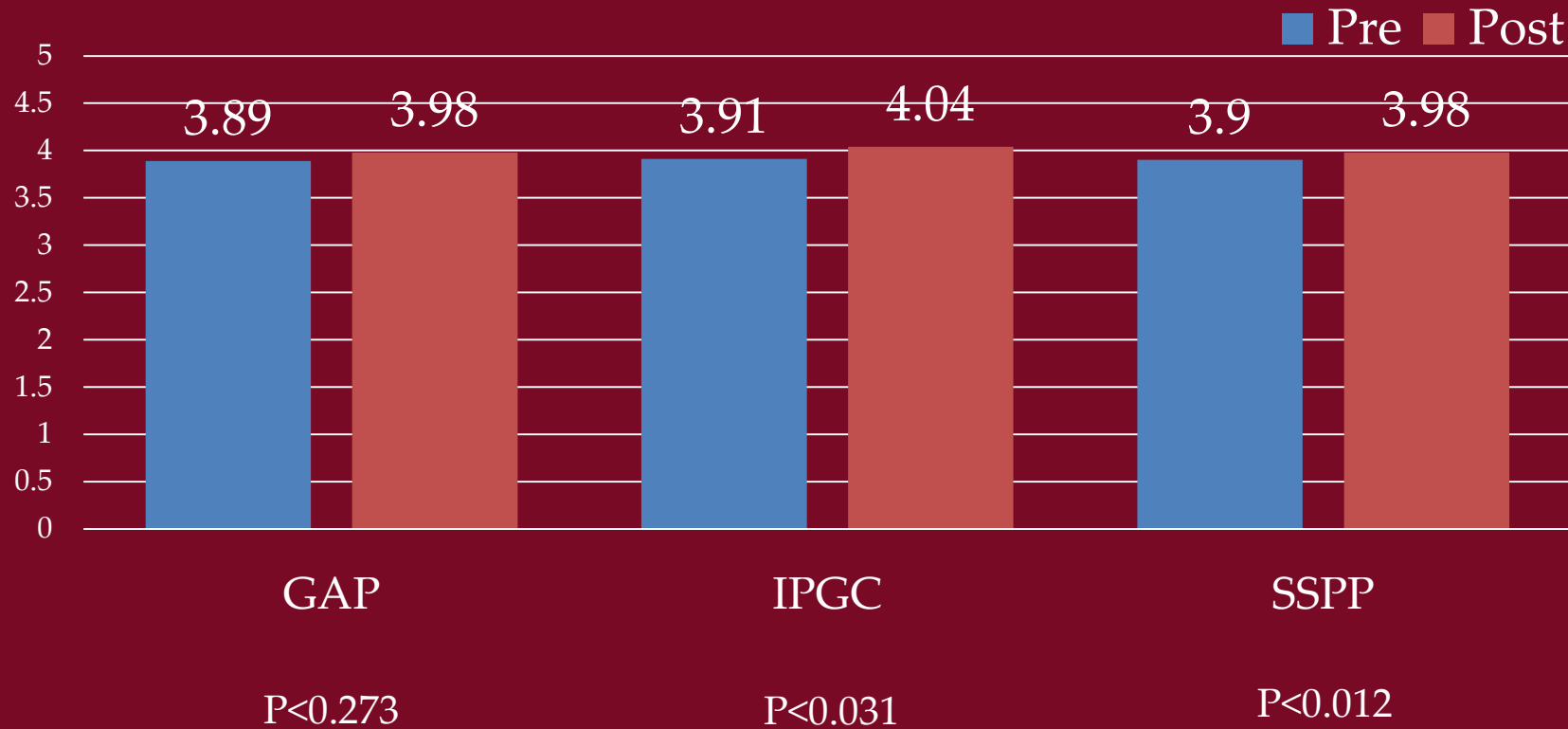
- Dentistry 16%
- Medicine 15%
- Occupational Therapy 14%
- Pharmacy 22%
- Physician Assistant 6%
- Physical Therapy 18%
- Social Work 8%



# GWEP Program Distribution

- IPGC (n=78)
- GAP (n=33)
- SSPP (n=30)
- Multiple (n=17)

# Changes in Geriatrics Attitudes Scale (GAS)



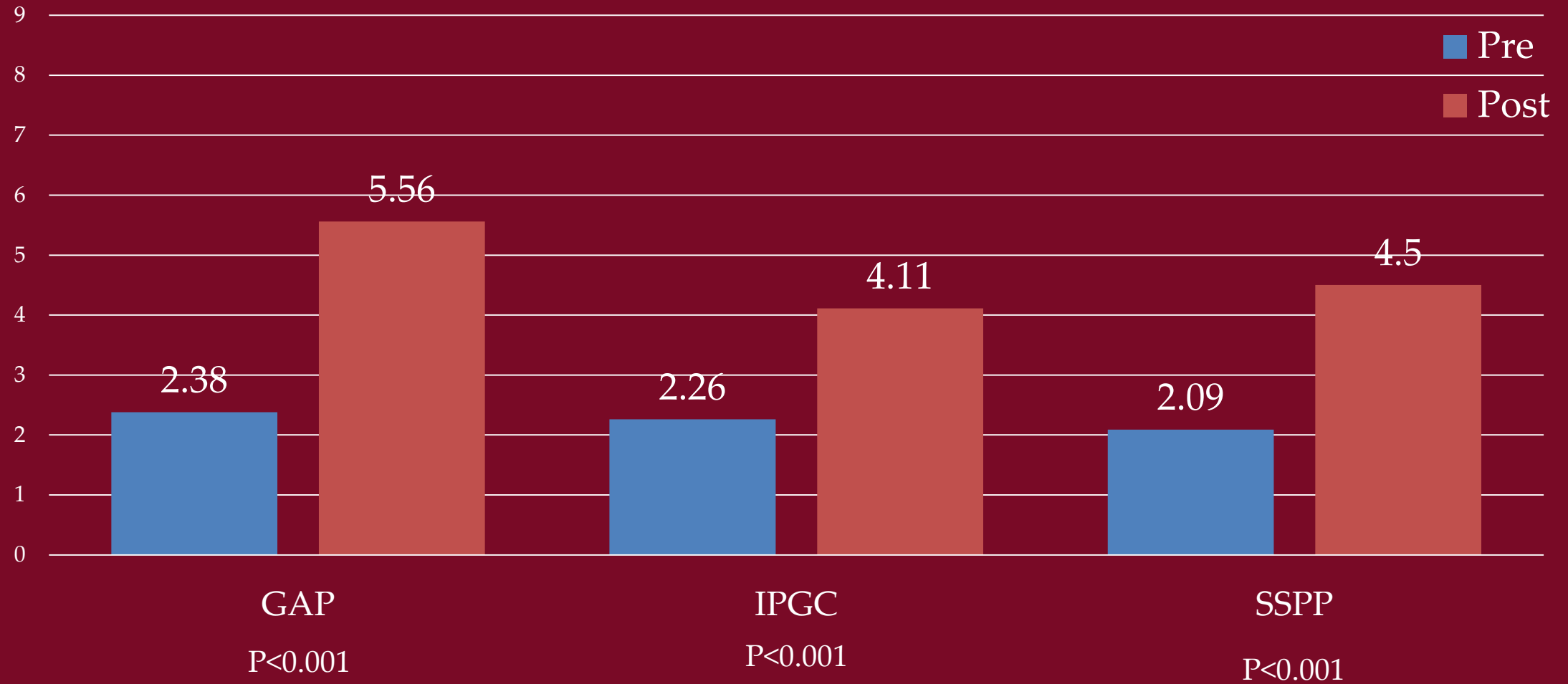
# Changes in GAS Total Based on Pre Score (Quartiles)



# Bivariate Changes in Mean Student Self-Reported Capability to Complete Assessments with Older Adults

	GAP (n= 32)			IPGC (n= 78)			SSPP (n= 47)			Total (n= 157)		
	Pre	Post	p	Pre	Post	p	Pre	Post	p	Pre	Post	p
Take a history	3.00	3.53	0.001	3.69	4.17	<0.001	3.64	3.89	0.087	3.54	3.95	<0.001
Assess medication use	2.52	2.94	0.004	2.66	3.55	<0.001	2.69	3.09	0.028	2.64	3.28	<0.001
Assess mental status	2.34	3.09	<0.001	2.84	3.83	<0.001	2.84	3.40	<0.001	2.74	3.54	<0.001
Assess fall risk	2.31	3.03	<0.001	2.92	3.88	<0.001	2.91	3.53	<0.001	2.80	3.59	<0.001
Assess gait and balance	2.31	2.85	<0.001	2.95	3.77	<0.001	2.91	3.20	0.032	2.81	3.40	<0.001
Assess nutritional status	1.93	2.56	<0.001	2.54	3.66	<0.001	2.56	2.81	0.105	2.43	3.17	<0.001
Perform a basic oral evaluation	1.71	1.76	0.399	2.21	3.34	<0.001	2.02	2.32	0.042	2.06	2.70	<0.001
Identify home safety issues	2.35	2.19	0.001	2.92	3.96	<0.001	3.07	3.43	0.044	2.86	3.58	<0.001
Identify resource gaps	2.20	2.76	0.004	2.39	3.60	<0.001	2.53	3.23	<0.001	2.39	3.31	<0.001

# Changes in Number of Assessment Areas Where Students Self-reported “Very” or “Extremely” Capable



# Key Findings:

- IPGC and SSPP significantly raised mean GAS Scores.
- Only students who score in the lowest quartile on pre-assessment show significantly improved attitude on post-assessment.
- Significant improvement in nearly all of 9 geriatric assessments areas across all 3 programs.
- All 3 programs resulted in significantly more geriatric assessment areas where students rate themselves as “very” or “extremely” capable.

# Questions & Comments