## National Oral Health Conference, April 17, 2018

# Integrating Community-based Dental, Health and Wellness Services for Older Adults through Use of a Comprehensive Geriatric Assessment and Metrics-driven Referral







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Serving Seniors' Gary and Mary West Senior Wellness Center also houses the Senior Dental Center in Downtown San Diego



## **Project Goals**



Create a collaborative platform to provide whole-person care



Use assessment to provide timely services in the appropriate order



Generate data to better inform the operations and share best practices

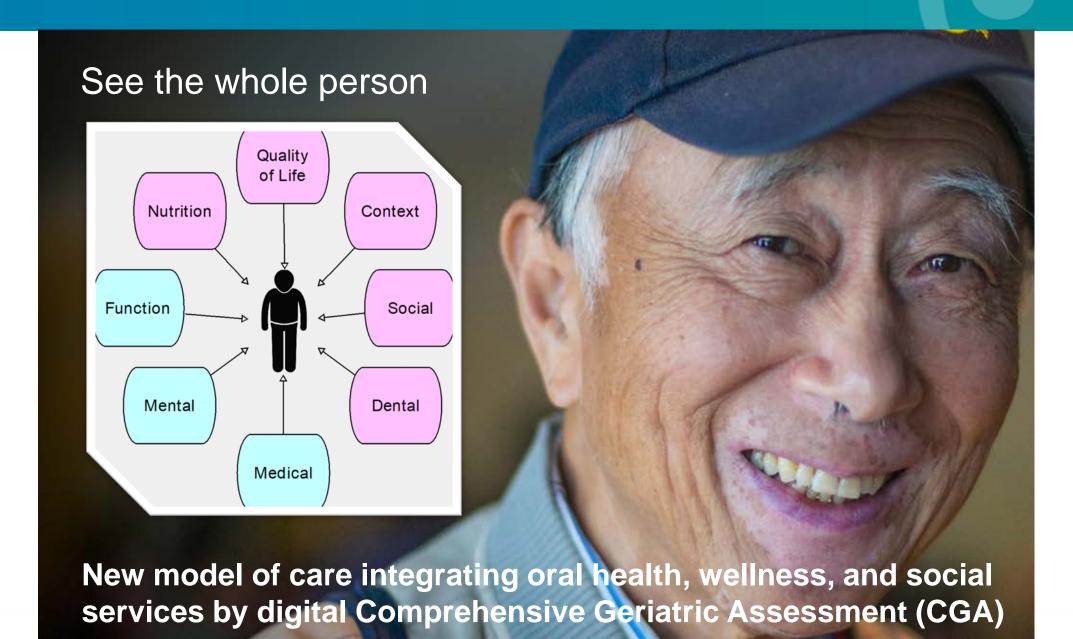
Improve Health Outcomes for Low-income Seniors



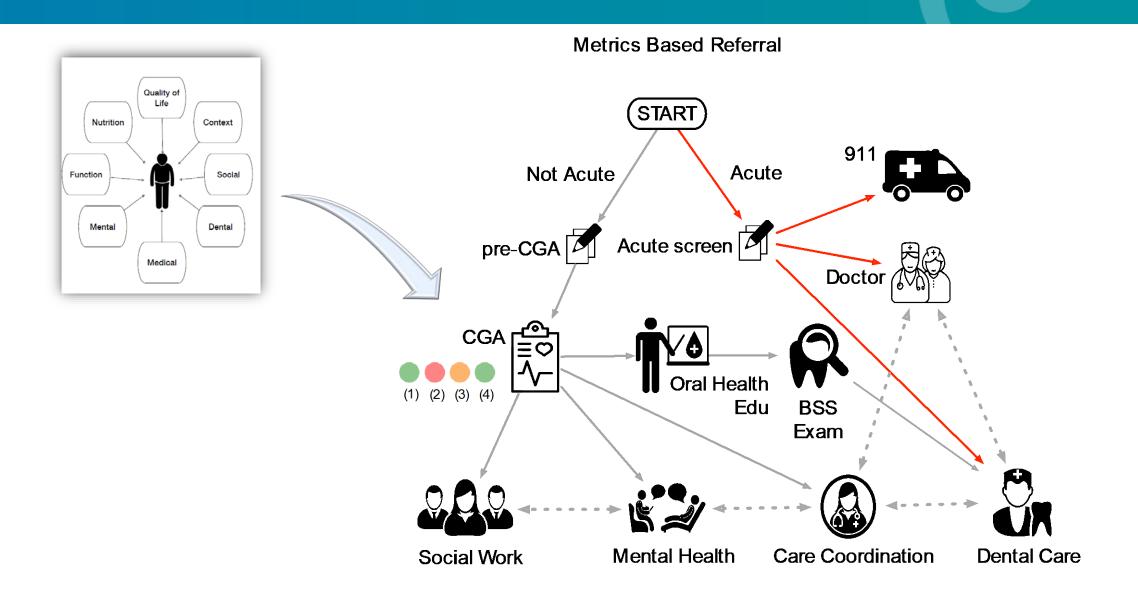




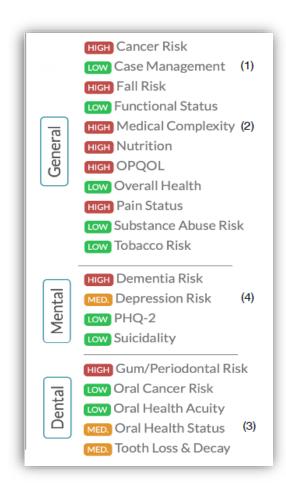
## Building a better Comprehensive Assessment



## From Whole-Person Assessment to Whole-Person Care

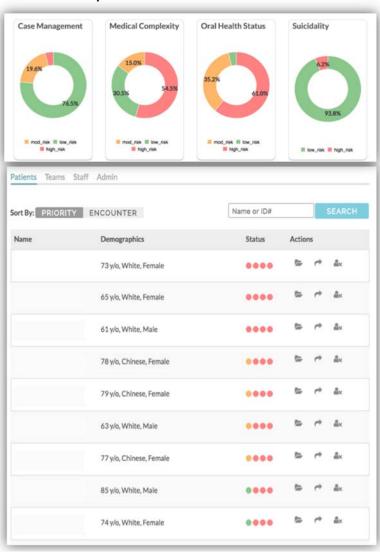


# From Person to Population



Individual Snapshot

## Population Dashboard



## Composition of Referral Metrics

#### 4 metrics used as first pass:

#### **Case Management** (→ Social Work)

• Homeless, Uninsured, No PCP, and ≤ 199% Federal Poverty Level

#### **Depression Risk** (→ Mental Health)

• Patient Health Questionnaire-9 (PHQ-9) Score with Additional Weight on Suicidality (Item 9)

#### **Medical Complexity** (→ Care Coordination)

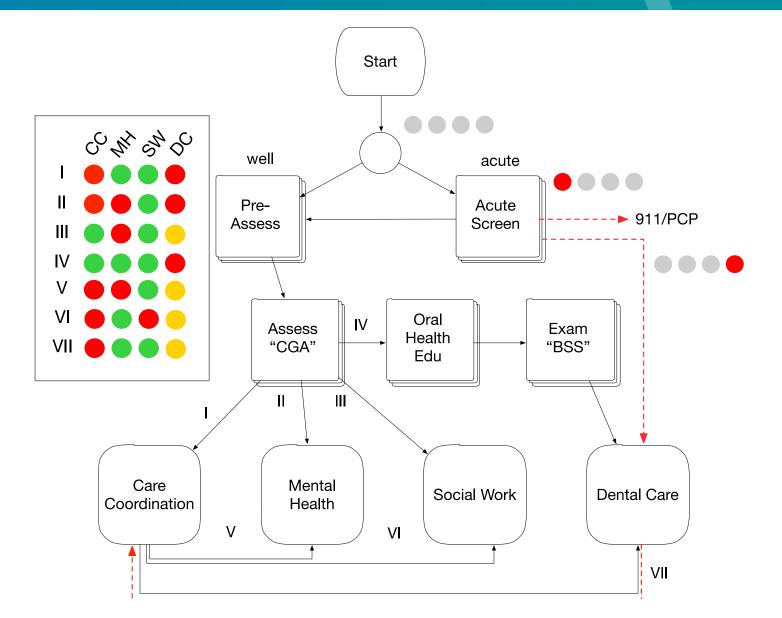
# of Medical Conditions and # of Medications

#### **Oral Heath Status** (→ Dental Care)

Self-rated Oral Health Status, Missing Teeth, and Recent Symptoms

# Digital Assessment Allows Metrics-Driven Triage and Referral





# Referral Outcomes and Patient Characteristics

#### **First Referrals**

Programs	Clients
Comprehensive Geriatric Assessment	1000
Oral Health Education	841
Basic Screen Survey	828
Dental Care Referrals	796
Care Coordination Referrals	148
Case Management Referrals	78
Mental Health Referrals	27
Post Assessments	150

### **Demographics**

CGA Elements (n=1000)	Percent
Average age	72 ± 7.6
Below poverty	55%
Live alone	67%
Have medical conditions	75%
Have mental health diagnoses	25%
No dental visit in the past year	53%
Limit food due to dental problems	59%
Difficulty chewing	49%
Dental pain	43%

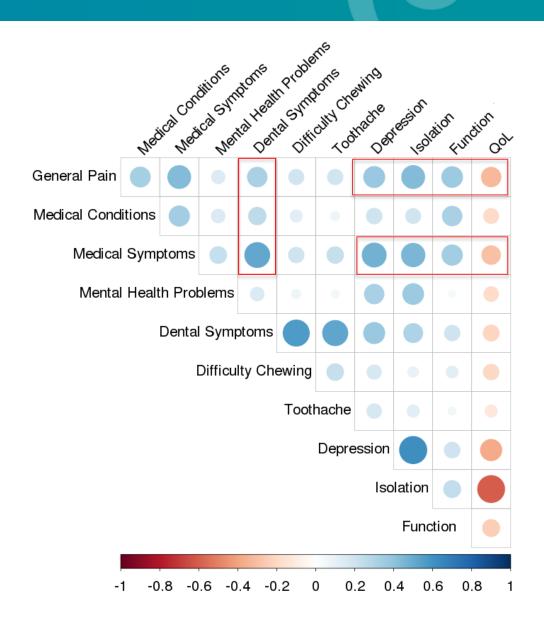
## CGA inter-item correlations (n=1000)

Medical problems positively correlated with:

dental symptoms

Pain and health problems tightly coupled to:

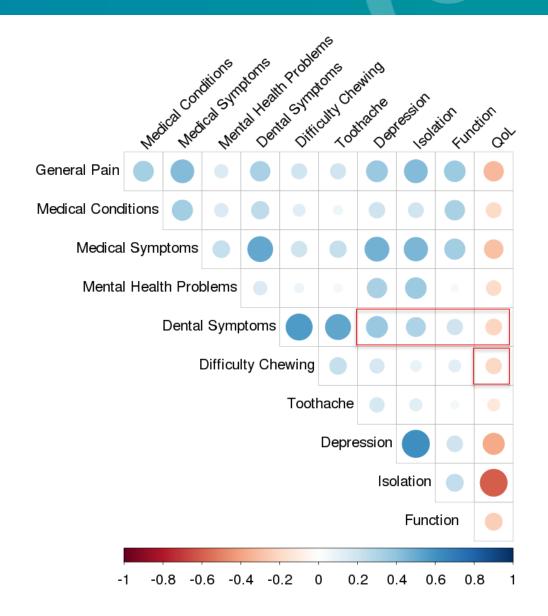
- functional limitation
- depression
- lower quality of life



## CGA inter-item correlations (n=1000)

## Dental symptoms highly correlated with:

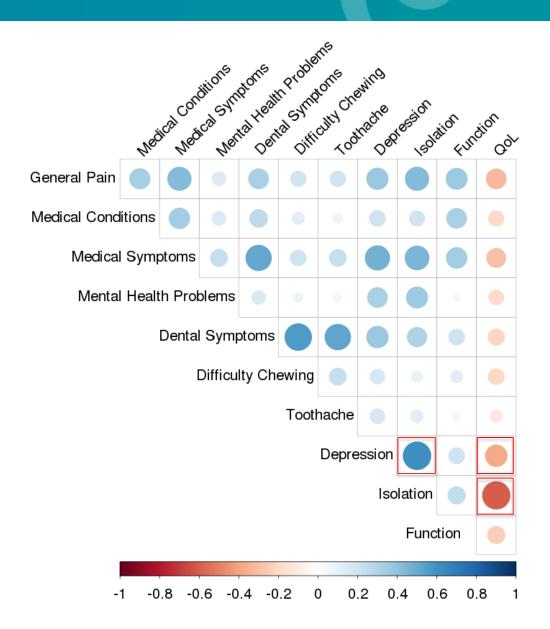
- depression
- isolation
- quality of life



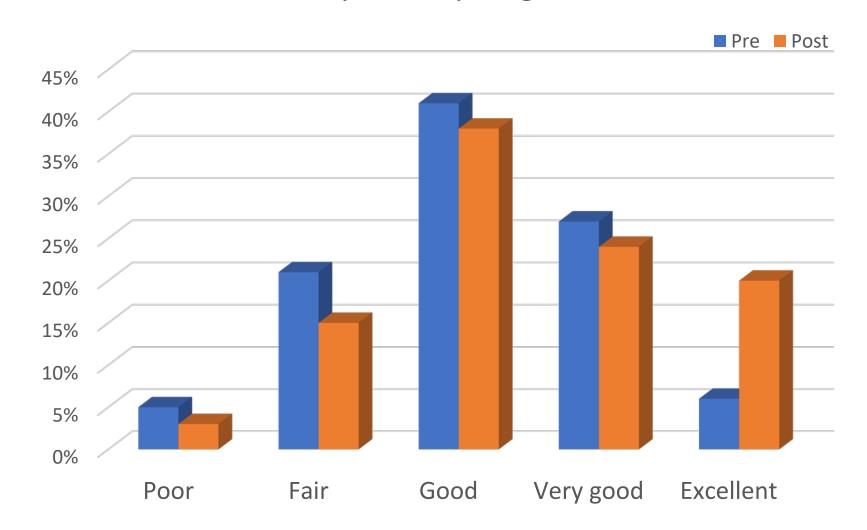
## CGA inter-item correlations (n=1000)

Mental health problems highly correlated with:

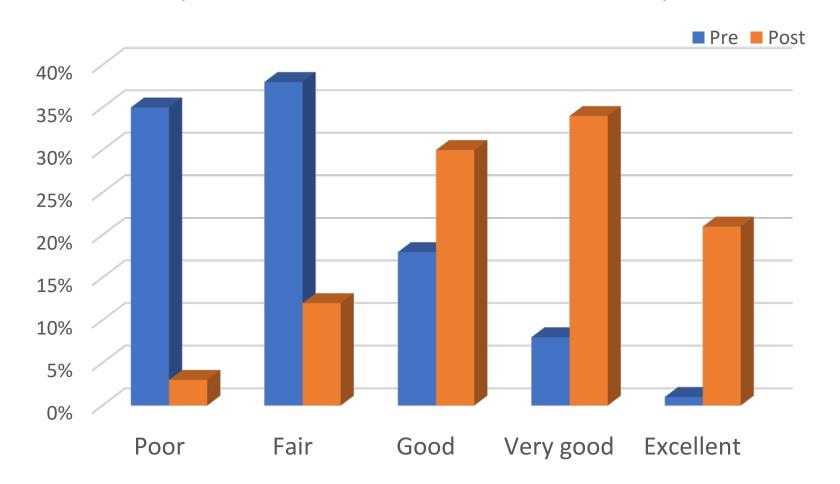
- isolation
- quality of life



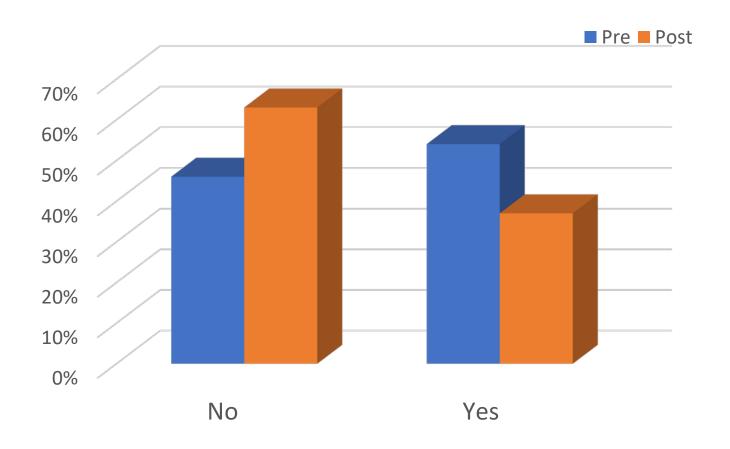
## How would you rate your general health?



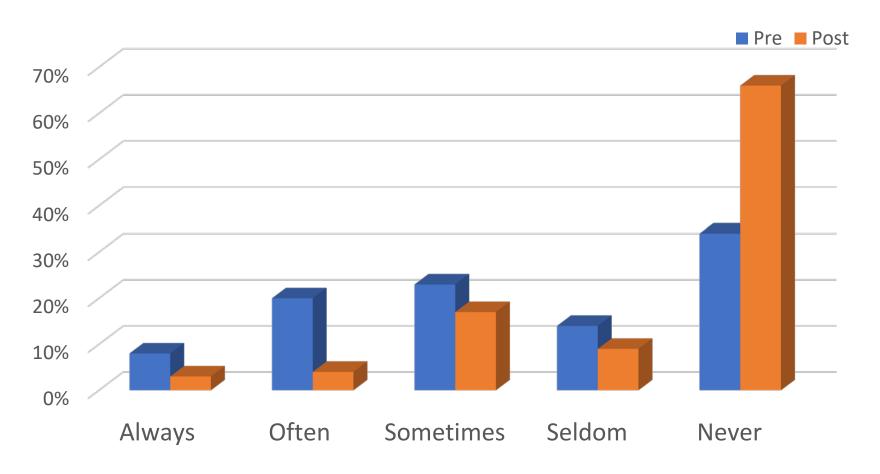
How would you describe the overall condition of your mouth?



Do you have any problems biting or chewing?



How often do you limit the kinds or amounts of food you eat because of problems with your teeth, mouth, denture?



## Conclusion

- Senior wellness and quality of life are multifactorial, dependent on general health, medical complexity, dental symptoms, and mental health
- Integrating dental care with psychosocial context and medical needs is necessary to provide holistic care for vulnerable seniors
- Digital Comprehensive Geriatric Assessments and metrics-based triage facilitate the referral and care planning process
- Identifying type of care and order of services early on can lead to more efficient and cost effective care

## Thank You

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