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Interprofessional Dental Outreach and Nursing Case Management for Adults with Serious Mental Illness

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Collaborating Across Borders
Banff, Alberta, Canada

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Disclosures

- **Funding**
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 - U.S. Department of Education, On-Campus Federal Work-Study Program Agreement
- **UCSF Institutional Review Board approval**

Overview



Background: Oral Health of Persons with Serious Mental Illness

- ***Decreased*** saliva, oral hygiene, oral health knowledge, access to care
- ***Increased*** sugar, tobacco, recreational drugs, dental fear



Patel & Gamboa
2012

Image:
<http://www.wisegeek.com/what-is-the-difference-between-fluorine-and-fluoride.htm>

Interprofessional Collaboration

- **1969 Progress Foundation established**
- **1994 UCSF School of Nursing partnership**
 - 2013 HRSA-funded Interprofessional Primary Care Outreach for Persons with Mental Illness (IPCOM)
 - 2015 UCSF School of Dentistry collaboration

Progress
FOUNDATION
Innovative Mental Health Services

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Specific Aims

- **Evaluate the oral health, dental treatment needs, and oral health-related quality of life of a convenience sample of persons with severe mental illness who participate in the IPCOM transitional residential treatment program.**
- **Pilot nursing case management strategies to assist IPCOM clients in initiating and completing dental treatment.**

Methods: Behavioral Health

- Evening information sessions
- Dental champions: appointments and reminders, transportation, dental fear/anxiety



Dentistry

- **Clinical: WHO examination and Intervention Urgency, Decayed Missing Filled Teeth Index, Root Caries Index, Simplified Oral Hygiene Index**
- **Questionnaire: demographic/health, Periodontitis Self-Report, Oral Health Impact Profile**



Nursing

- **Case management *strategies*:** discuss goals, assess confidence, motivational interviewing strategies for perceived barriers, photo ID and Medicaid card, schedule appointment
- **Case management *tracking form*:** appointment reminders, dental center communication, group visits to discuss treatment status



Results



49% Male
70% Non-white
81% High School-plus
67% Smoker
26% Poor-fair health
18-70 years old

Oral Health (N = 43)

Condition	Prevalence (Median, Range)	National Comparison
Dental Visit Past Year	21%	62% ¹
Dental Problem	77%	
Decayed Teeth	59% (3; 1-12)	27% ²
Missing Teeth	63% (5; 1-28)	52% ²
Filled Teeth	82% (6; 1-18)	92% ²
Periodontal Disease	33%	47% ³
OHRQoL High Impact	63% (3; 1-11)	
Prompt-Urgent Treatment Indicated	65%	

1 = NHIS 2013

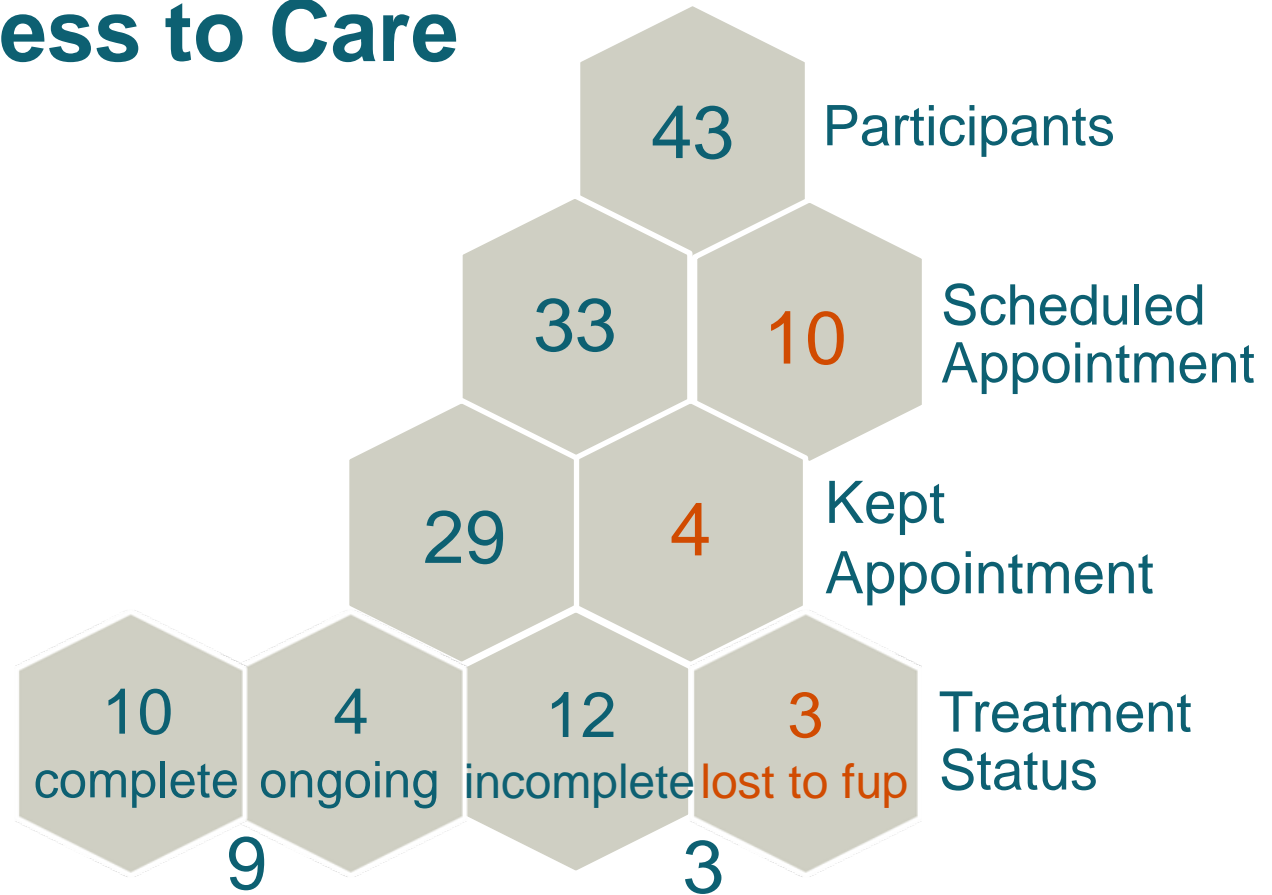
2 = NHANES
2011-12

3 = NHANES
2009-10

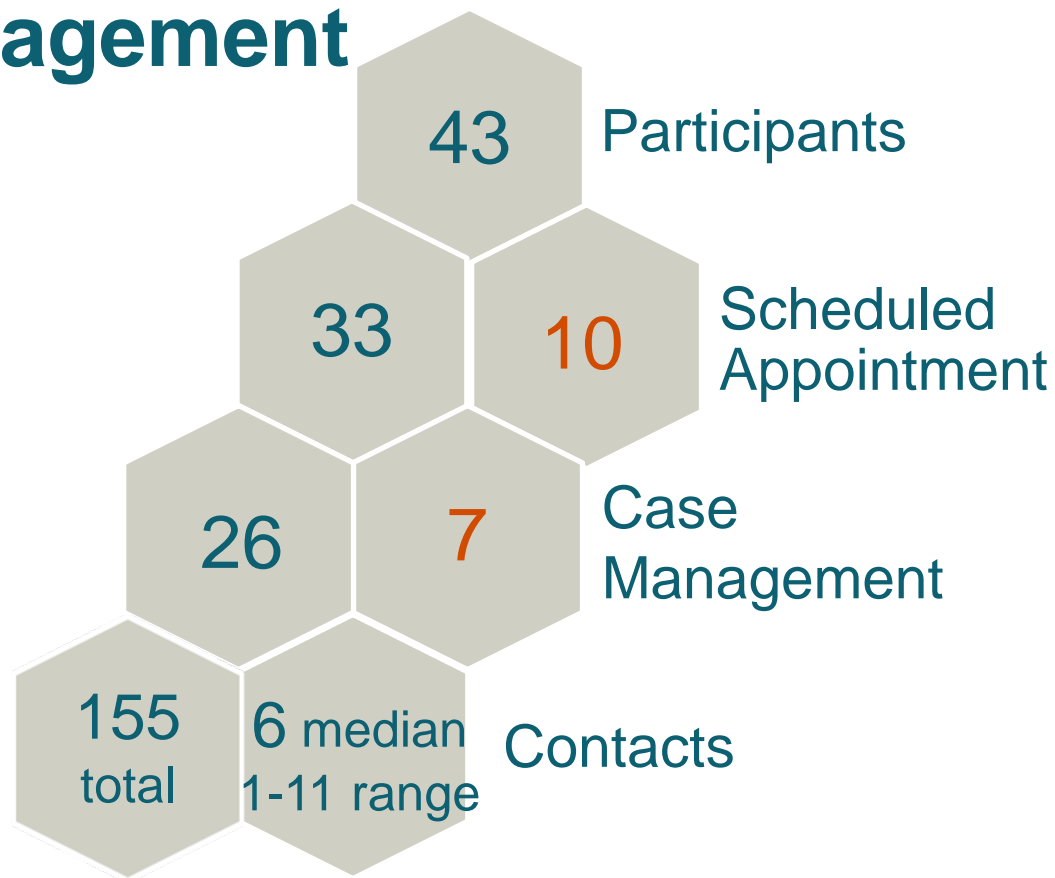
Decayed Teeth (N = 39)	X^2 (df)	P-value
Dental Problem Present 77%	4.327 (1)	0.0409
Self-rated Oral Health Fair-Poor 62%	7.726 (1)	0.0060
Treatment Urgency Prompt-Urgent 67%	13.565 (1)	0.0001

OHRQoL (N = 43)	χ^2 (df)	P-value
Dental Problem Present 77%	7.866 (1)	0.0058
Self-rated Oral Health Fair-Poor 58%	8.777 (1)	0.0035
Treatment Urgency Prompt-Urgent 65%	4.532 (1)	0.0343
Decayed Teeth ≥ 1 Tooth 59%	6.199 (2)	0.0451
Missing Teeth ≥ 1 Tooth 63%	6.285 (2)	0.0432
Periodontal Disease Moderate-Severe 33%	7.345 (1)	0.0079

Access to Care



Case Management



Conclusions

- **Poor oral health, urgent treatment needs, and compromised oral health-related quality of life were prevalent in this population.**
- **Case management was an innovative approach to community-based, coordinated, interprofessional collaboration between nursing, behavioral health, and dentistry.**
- **Dental Health Resource Manual was developed, including dental referral mechanism and case management strategies and tracking form.**

Limitations

- **Study participants: small sample size, convenience sample, transitional length of residence**
- **Access to dental care: Medicaid coverage for adult dental services eliminated 2009-14, restored 2014 with less coverage, 2 million additional qualified recipients due to ACA, low reimbursement rates, limited number of new Medicaid patients accepted per month**
- **Sustainability: high turn-over of behavioral health staff, cessation of grant funding**

Next Steps

- **Focus groups for feedback and improvements**
- **Interprofessional train-the-trainers program of oral health education, screening, triage, and referral to dentists and clinics**
- **Add dental health goal for all IPCOM clients**

Thank-you!



Questions?

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