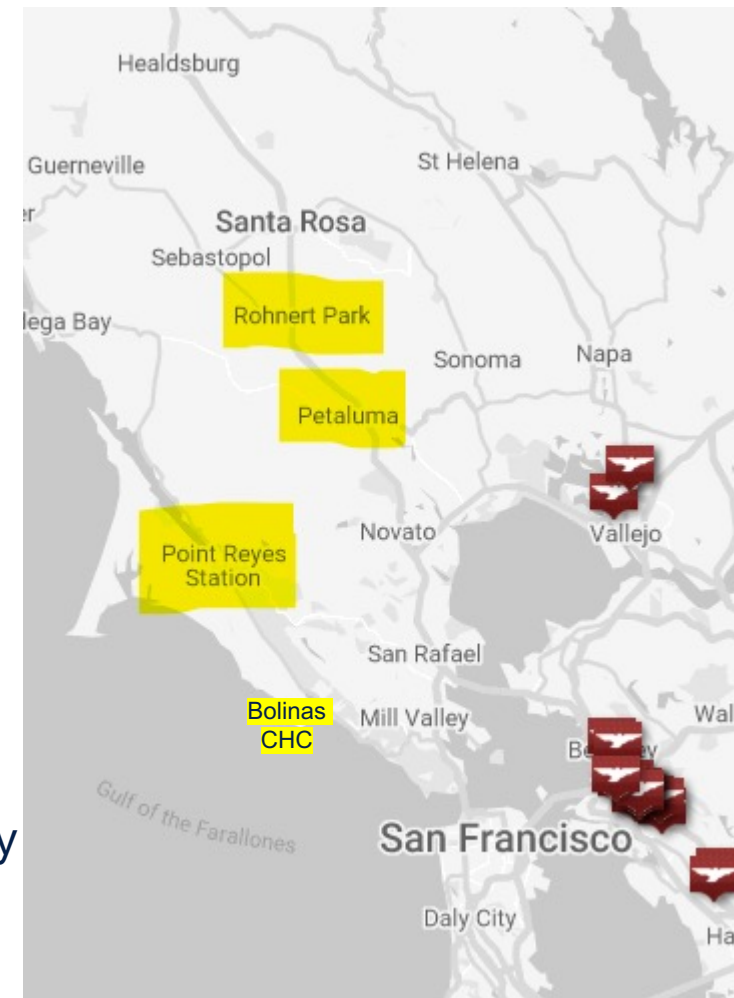


Background

- Over half of children age 8y have dental experience¹
- Children from low-income families= 2x rate of caries compared to high-income¹
- Greatest risk for caries in permanent tooth is caries in primary tooth
- Children see medical provider before dental provider²
- Medical-dental integration/oral health integration (MDI/OHI) benefits patients and system
- Many pediatric dental and dental public health residents will be called upon one day to run or facilitate MDI/OHI
- MDI/OHI is not currently taught in medical or dental schools or post-graduate programs
- Therefore, MDI/OHI training programs are needed, particularly to prepare graduates who will serve underserved populations

Benefits of MDI/OHI

- Increases access to preventive care for children, **and their health**
 - Reduces school absences
- Saves health care system \$\$
- Improves referral systems
- Increases provider satisfaction
- Can promote advocacy



Methods

Overall Combined Program Curriculum

- Quality Improvement in Dental Care Settings
- Virtual Dental Home (didactic and practicum)
- Introduction to Dental Public Health
- MDI/OHI
- For DPH residents: Topics in Pediatric Dentistry

MDI/OHI Partnerships:

- FQHCs with medical and dental services
 - Location
 - LaClinica Health Centers, largely in urban area—multiple sites, some colocated medical/dental
 - Petaluma Health Center, with 4 locations (two RHCs; two are co-located, two not)
 - Consistent, dedicated participants
 - Dental director/designee, QI director, data wizard, medical champion
 - Different approaches (dental *into* medical vs oral health in medical + referral)
- UCSF Pediatric Dentistry residents and faculty
- UCSF Dental Public Health residents and faculty
- UCSF School of Medicine Pediatrician and Oral Health Champion
- OpenSmiles Project Coordinator, RDH and facilitator of meetings

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Methods, cont'd

Timeline

- July 2020: project funding & inception
- August 2020 → June 2021
 - Meeting at least monthly to establish partnerships, plan MDI/OHI
 - Interventions
 - Staffing
 - Logistics
 - Some PDSAs in planning period because of actively engaged teams
 - Learning objectives and curriculum developed
- July 2021 → May 2022: Year 1 curriculum & expectations
 - Monthly hour-long didactics on Zoom, with assigned reading
 - QI project, many based in MDI/OHI
 - MDI/OHI presentation to community partners (medical)
 - For DPH residents
 - Sitework 4hrs/week
 - Meetings with site team to review progress, evaluate data, and troubleshoot concerns, monthly
- June 2022: year 1 evaluation and improvement plan; curriculum restructuring
- July 2022 → present: year 2 curriculum & expectations
 - Didactics condensed into five 2-hour sessions, in summer/fall
 - QI project over year, some still in MDI
 - MDI presentation to community partners (medical and dental), in fall and winter to clear resident time in the spring
 - For DPH residents
 - Sitework 4hrs/week, including participating in medical huddles
 - Meetings with site team to review progress, evaluate data, and troubleshoot concerns, monthly

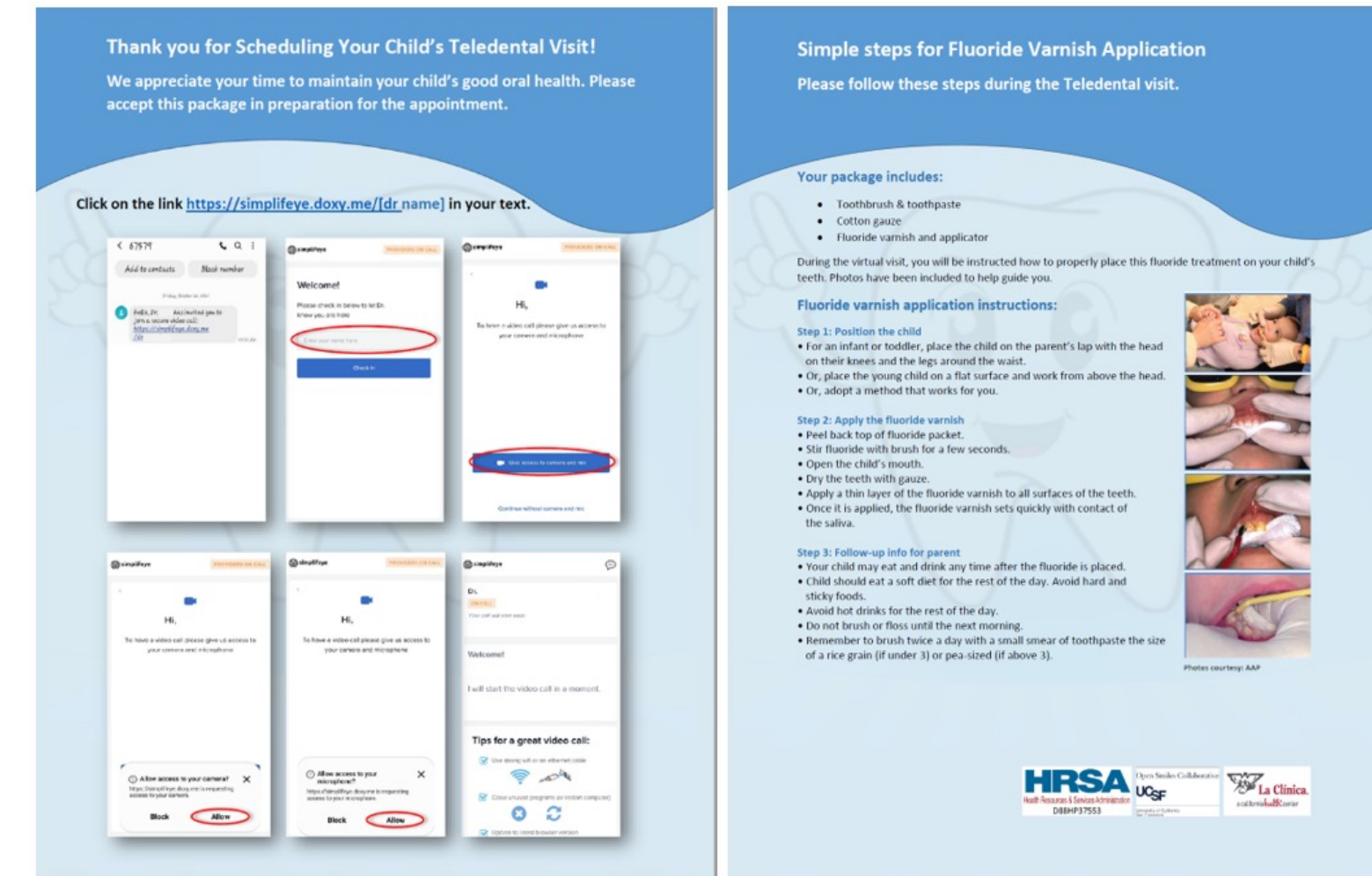
Results

OHI Curriculum

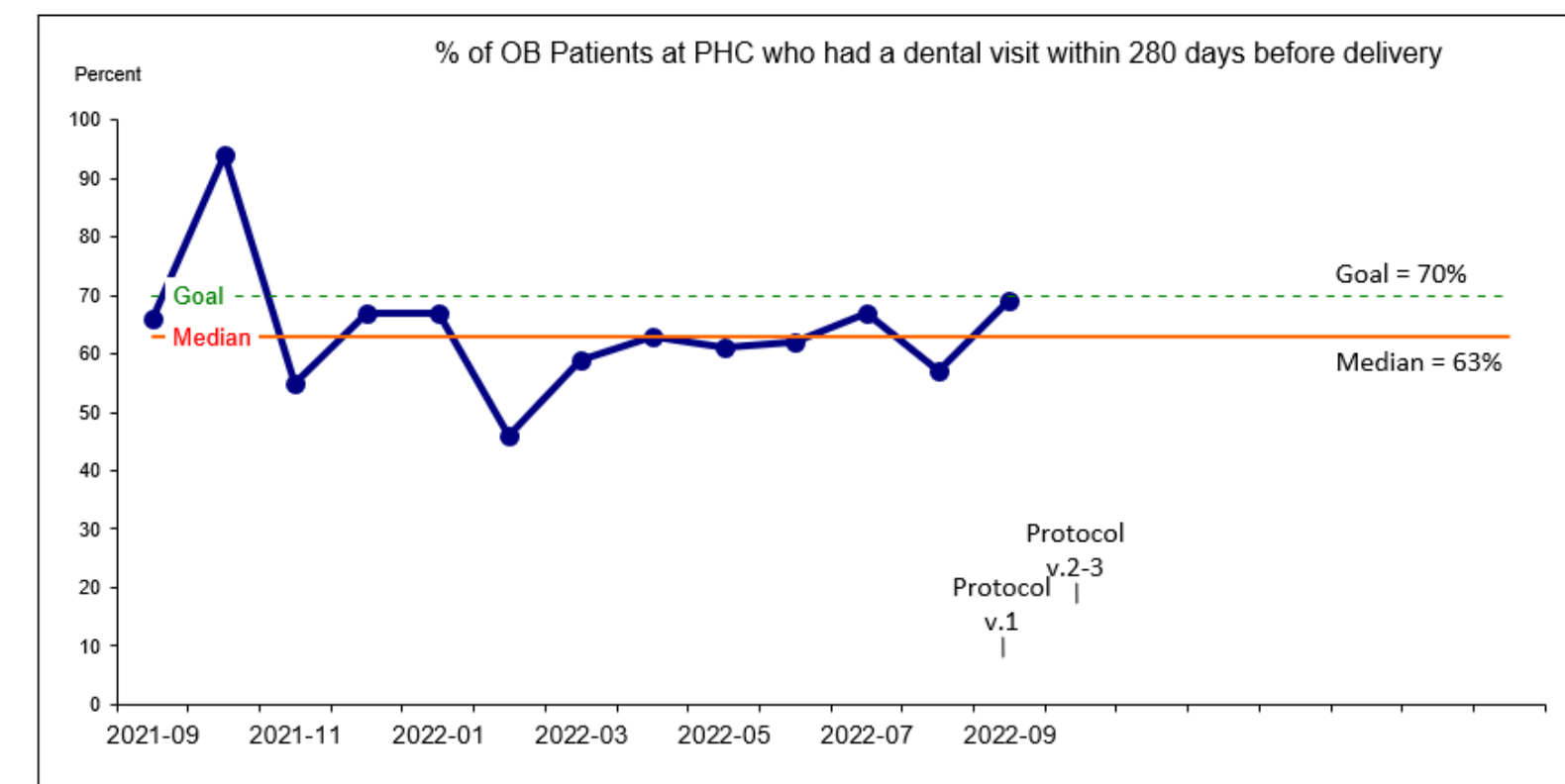
<ul style="list-style-type: none"> • History of FQs/CHCs • Professional differences and interprofessional work • Models of Medical-Dental Integration • Analyzing a practice's readiness for change 	<ul style="list-style-type: none"> • Providing technical support for above goals • How to implement CRA • CRA alternatives • Referral systems
<ul style="list-style-type: none"> • Teaching about the Role of Oral Health in Systemic Health, including fluoride • Myths/truths about fluoride (FV, toothpaste, CWF, SDF) • Provide education to team <ul style="list-style-type: none"> • WHY to do OHI, for providers+all—Health, prevention, equity • WHAT to do, for staff ± providers • Sealants 	<ul style="list-style-type: none"> • Reiterating OH evaluation, and education <ul style="list-style-type: none"> • Developmentally • Trauma • Self-management (MI) • Managing barriers/mitigation strategies • Clinic readiness assessment of next site
<ul style="list-style-type: none"> • Providing technical support for above goals • How to implement CRA • CRA alternatives • Referral systems 	<ul style="list-style-type: none"> • Advocacy as a means of facilitating integration • Dental-medical integration • Using data to fuel continued QI

Examples of Projects

- [Designing/adapting educational materials for the clinics, including posters and handouts](#)



- [Tracked QI data; led PDSA intervention cycles](#)



Protocol	Date	Description
V.1	9/12/2022	Dental provider list who can see OB patients was sent to CPSP case manager
V.2	10/4/2022	Patient outreach by patient care coordinator begins - scheduling OB patients who have already seen CPSP but did not schedule a dental appointment, or those who scheduled dental
V.3	10/17/2022	Dental front office scheduling script for OB patients

- [Referrals to dental appointments from medical](#)
- [Scheduling of dental appointments from medical](#)
- [Show rates for scheduled appointments](#)
- [Latency of follow-up appointments](#)
- [Communication scripts](#)
- [Troubleshoot missed opportunities](#)

Discussion

Benefits

- Amazing engagement from both sites
- Positive change observed at both sites
- Interprofessional cooperation
- Educational pieces well-received
- Nimble enough to apply learning opportunities from 1st year to redesign of second year

Challenges

- PD and DPH residents' schedule difficult to combine
- Curriculum offered as not-for-credit, to spare PD residents from having to pay for coursework, but led to mixed investment
- Different baseline knowledge of system, so some residents thought introductory material was too slow
- Different time expectations, which were spelled out initially
- Starting an in-person training program during COVID added additional barriers
- Differential expectations of time, while clearly spelled out in beginning, led to concerns about equity
- Might have benefitted from more mentors

Next Steps

- Continued evaluation
- Revised curriculum to concentrate didactics in first half of year, with projects continuing throughout the year
- Potential growth of residency program
- Consider CE version of curriculum
- Determine sustainability

Conclusions

OpenSmiles has demonstrated one can incorporate community and university teams for combined goals of training and improved service provision

References:

- Centers for Disease Control and Prevention. Oral Health Surveillance Report: Trends in Dental Caries and Sealants, Tooth Retention, and Edentulism, United States, 1999–2004 to 2011–2016. Atlanta, GA: Centers for Disease Control and Prevention, US Dept of Health and Human Services; 2019. <https://www.cdc.gov/oralhealth/publications/OHSR-2019-index.html>
- Atchinson KA, Weintraub JA, Rozier RG. Bridging the dental-medical divide. Case studies integrating oral health care and primary health care. J Am Dent Assoc 2018;149:850-858.

