

# Dental Fear and Anxiety: Why It Exists and What Providers Can Do To Help

CareQuest Institute Continuing Education Webinar

May 5, 2022

# Housekeeping

- We will keep all lines muted to avoid background noise.
- We will send a copy of the slides and a link to the recording via email after the live program.
- We'll also make the slides and recording available on [carequest.org](https://carequest.org).

## To receive CE Credits:

- Look for the evaluation form, which we'll send via email.
- Complete the **evaluation by Friday, May 13**.
- Eligible participants will receive a certificate soon after via email.

**We appreciate your feedback to help us improve future programs!**



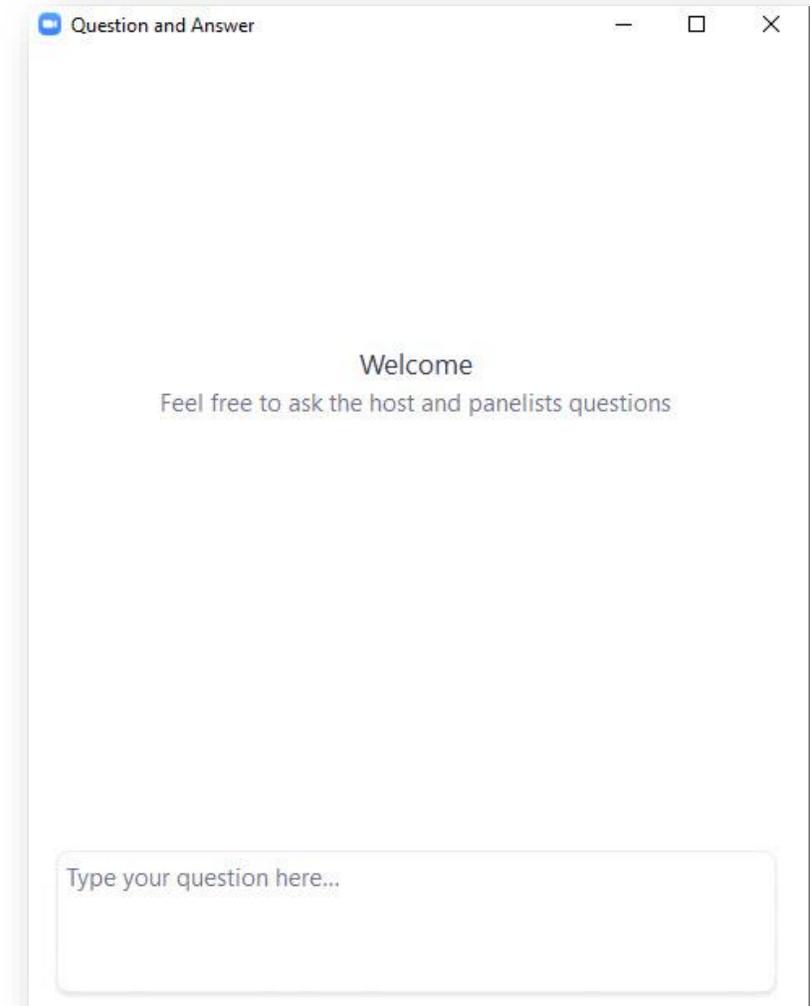
The CareQuest Institute for Oral Health is an ADA CER-P Recognized Provider. This presentation has been planned and implemented in accordance with the standards of the ADA CER-P.

\*Full disclosures available upon request



# Question & Answer Logistics

- Feel free to enter your questions into the **Question & Answer box** throughout the presentations.
- We will turn to your questions and comments toward the end of the hour.



# Learning Objectives

At the end of this webinar, you'll be able to:

- Describe epidemiological and etiological considerations of dental fear and anxiety.
- Recognize the potential connection between dental fear and anxiety with overall health.
- Explain how dental fear and anxiety can become barriers for patients in accessing care.
- Discuss how fear and anxiety are assessed in an oral health setting.
- Identify techniques and treatments that can be helpful in allaying dental fear and anxiety.

# Our Strategy

## Vision

A future where every person can reach their full potential through optimal health

## Mission

To improve the oral health of all

## Purpose

To catalyze the future of health through oral health



# Today's Presenters

## Dental Fear and Anxiety: Why It Exists and What Providers Can Do to Help



**WEBINAR | Thursday, May 5, 2022 | 1-2 p.m. ET | ADA CERP Credits: 1**

**MODERATOR & PRESENTER**



**Lisa Heaton, PhD**  
Science Writer,  
Analytics and Evaluation,  
CareQuest Institute for Oral Health

**PRESENTER**



**Cameron Randall, PhD**  
Assistant Professor,  
Department of Oral Health Sciences  
University of Washington School  
of Dentistry

**PRESENTER**



**Dennis Nutter,  
DDS, DABPD, FACD**  
Diplomate,  
American Board of Pediatric Dentistry

# Dental Fear and Anxiety: *Perspectives from the State of Oral Health Equity in America Survey*

Lisa J. Heaton, PhD

Adrianna C. Sonnek, MPH

Madhuli Thakkar-Samtani, BDS, MPH

Eric P. Tranby, PhD



# What's in a Name? Fear vs. Anxiety vs. Phobia

- **Fear** – threat is imminent
- **Anxiety** – threat is more distant, generalized
- **Phobia** – impact on social and/or occupational functioning
- **Dental Care-Related Fear and Anxiety** (*McNeil & Randall, 2014; Addicks et al., 2017*)

# Background

- Dental fear / anxiety estimates range widely from 30-80% (*e.g., Silveira et al., 2021*)
- Dental phobia leads 5-15% of adults to avoid necessary dental treatment  
(*Armfield & Heaton, 2013*)
- Often leads to “vicious cycle” of avoidance of care and invasive treatment  
(*Armfield et al., 2007; Armfield, 2013*)
- Associated with poor oral health outcomes, oral health-related quality of life  
(*Armfield et al., 2009; Guentsch et al., 2017; Kastenbom et al., 2019*)

# State of Oral Health Equity in America (SOHEA) Survey

- Online & telephone survey through NORC's AmeriSpeak® Panel
  - Probability-based, representative of U.S. household population
- Sampling strata based on age, race/Hispanic ethnicity, education, gender
  - Additional sample of American Indian/Native Alaskan panelists
- Adults aged 18+; one respondent per household
- Final 2022 sample size = 5,682
  - Weighted cumulative response rate = 4%
  - Margin of error = 1.75%



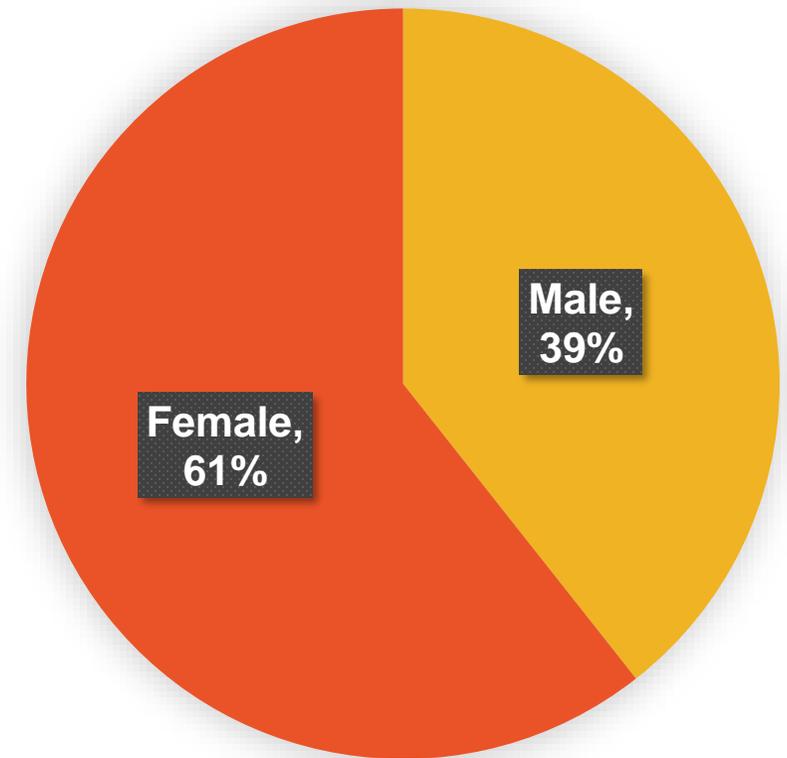
# Modified Dental Anxiety Scale (MDAS)

- 5-item measure of dental anxiety (*Humphris et al., 1995*)
  - Day before, waiting room, scale & polish, drilling, injection
  - Scored 1=not at all anxious; 5=extremely anxious
- Scored 5-25, higher score = higher dental anxiety
- Good reliability, validity (*Humphris et al., 2000; Newton & Edwards, 2005*)
- Score of 19 or above = high dental anxiety (*Humphris et al., 1995*)

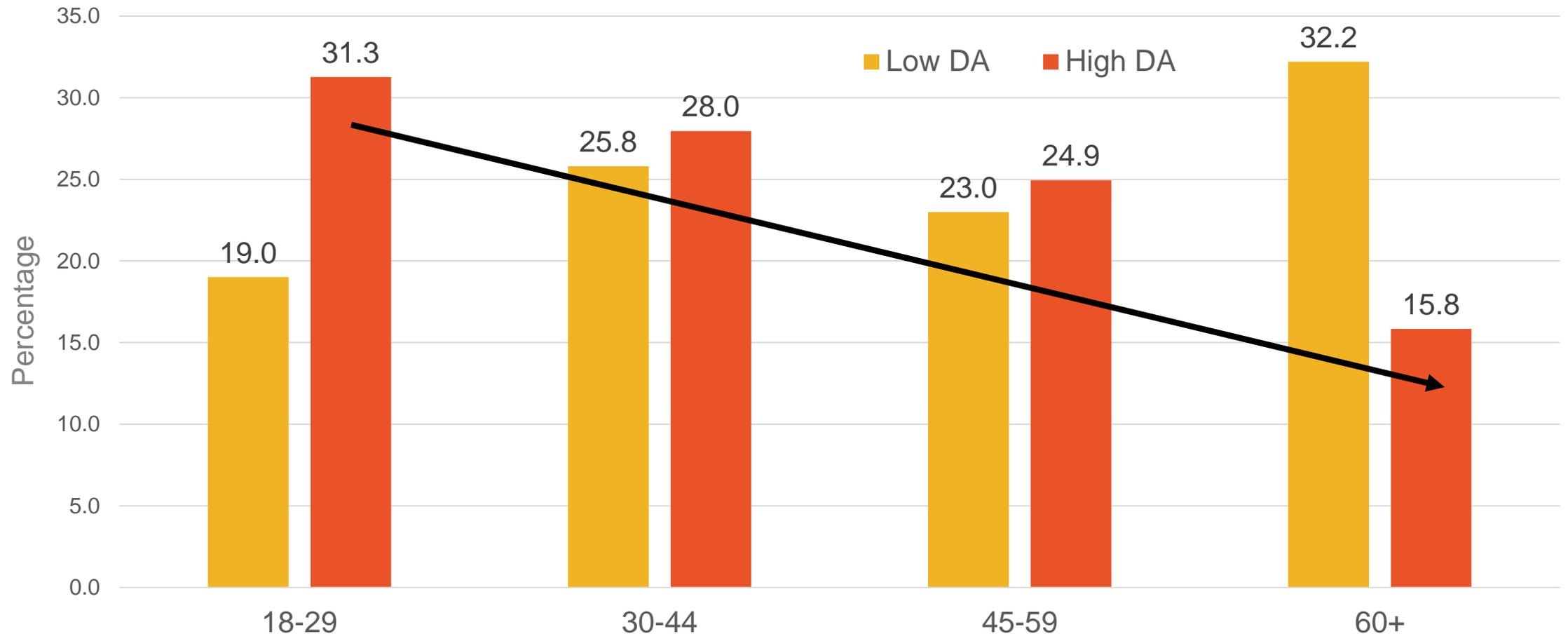
# Dental Anxiety by the Numbers

- 12.3% (n=680) of sample had high dental anxiety (MDAS $\geq$ 19)
- Mean MDAS = 11.49 (SE = 0.098)
  - Low anxiety group mean = 10.0 (SE=0.07)
  - High anxiety group mean = 21.9 (SE=0.11)

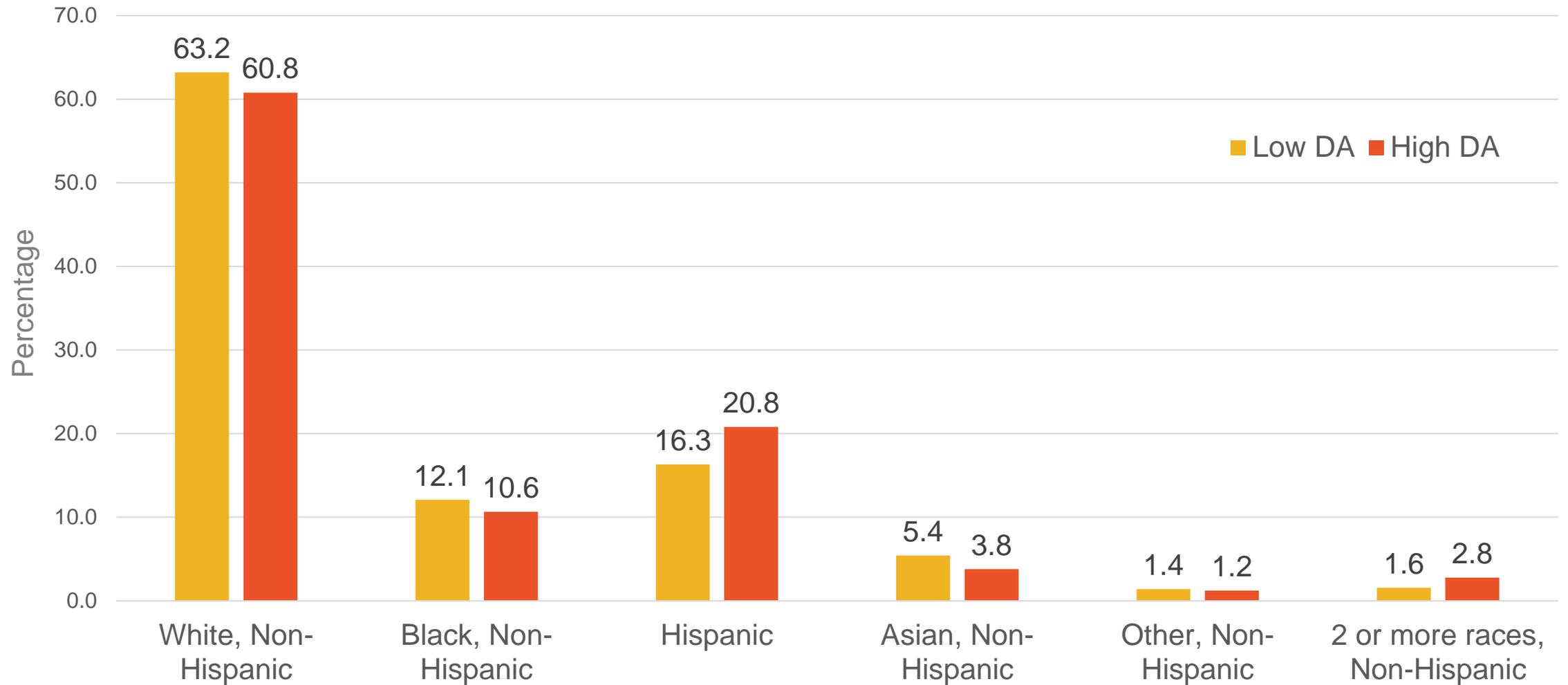
High Dental Anxiety



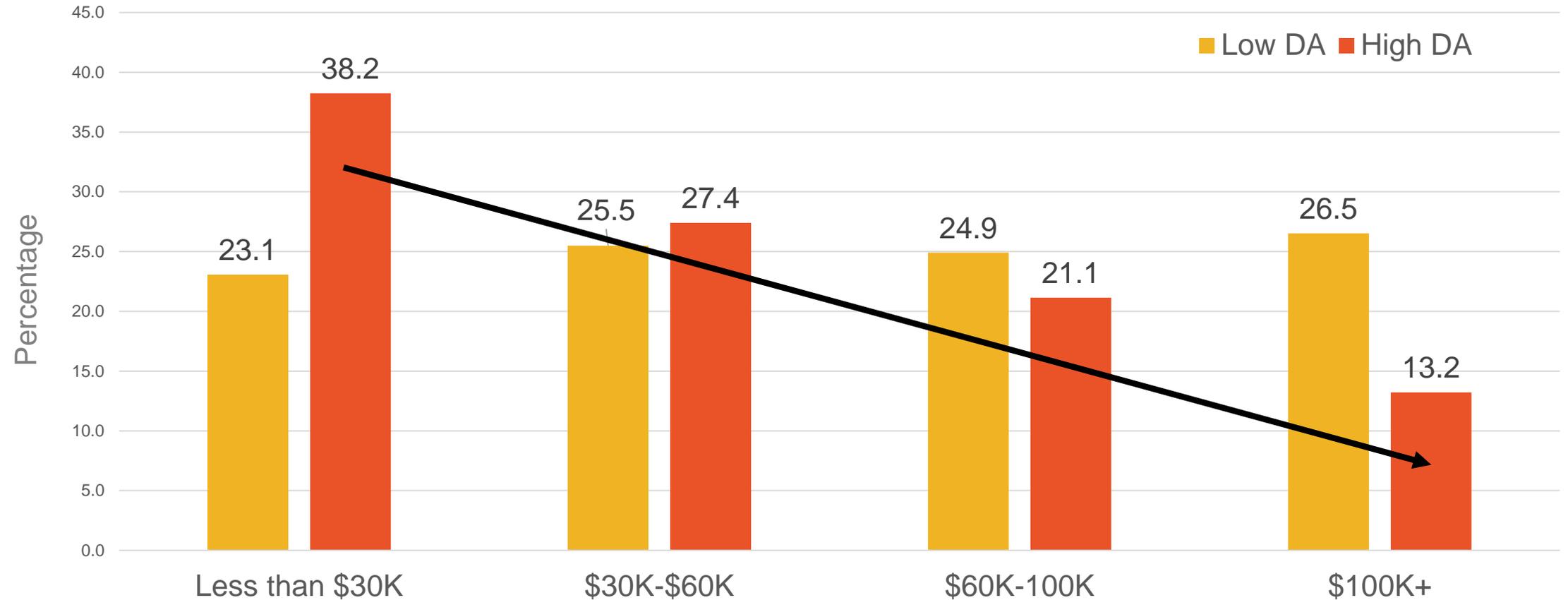
# Dental Anxiety by Age Group



# Dental Anxiety by Race & Ethnicity

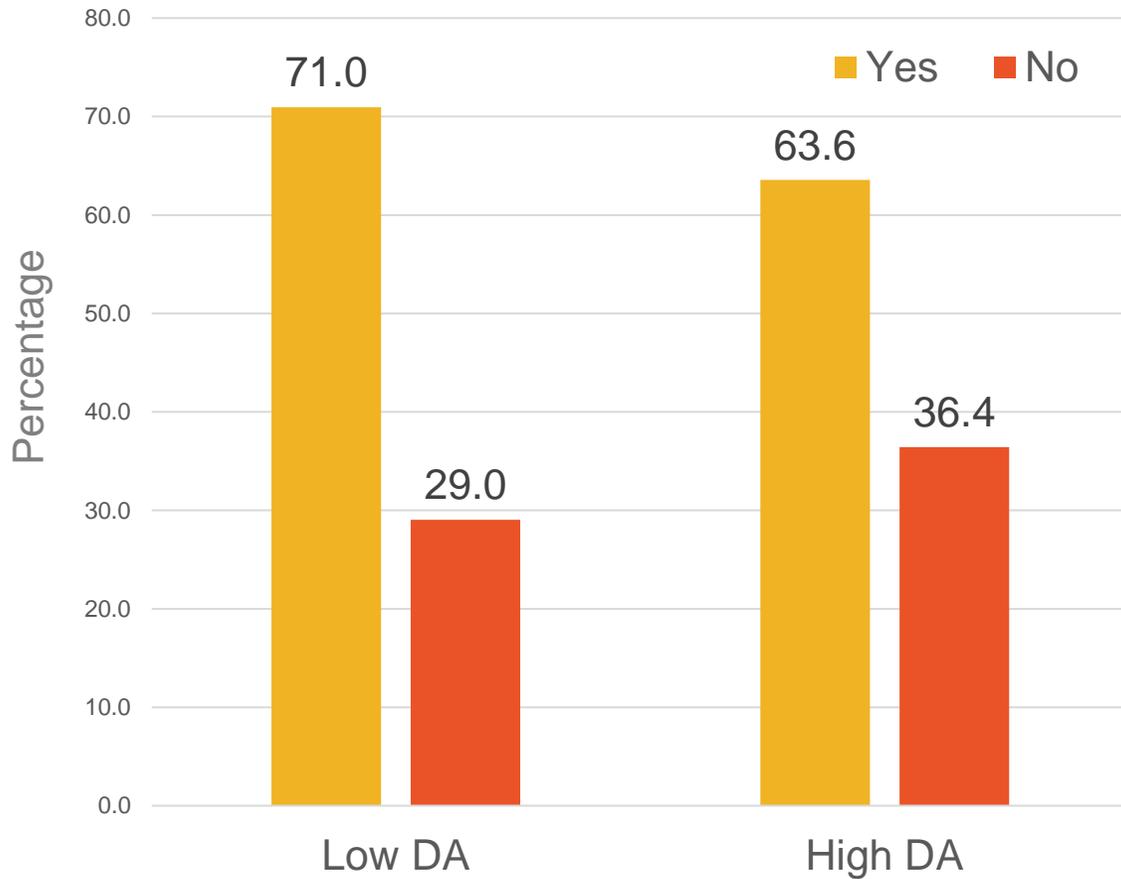


# Dental Anxiety by Household Income

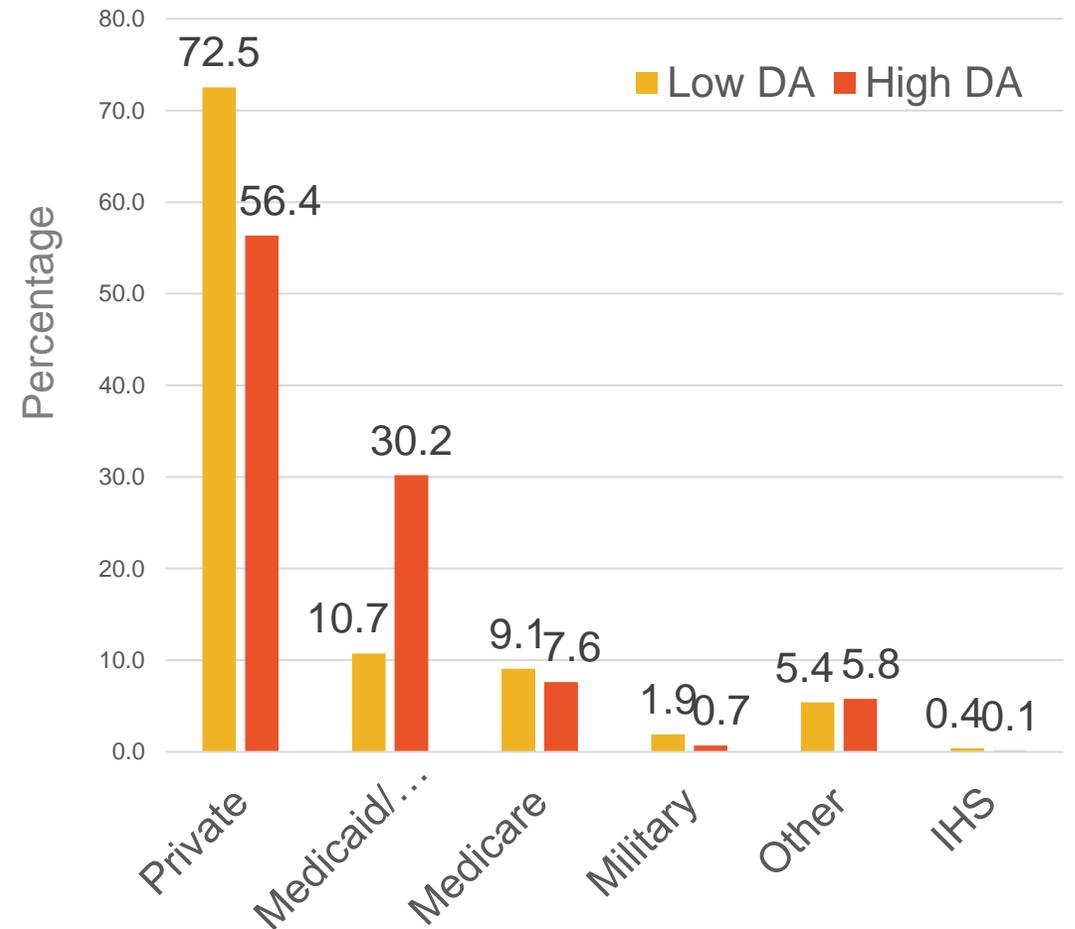


# Dental Anxiety by Dental Insurance

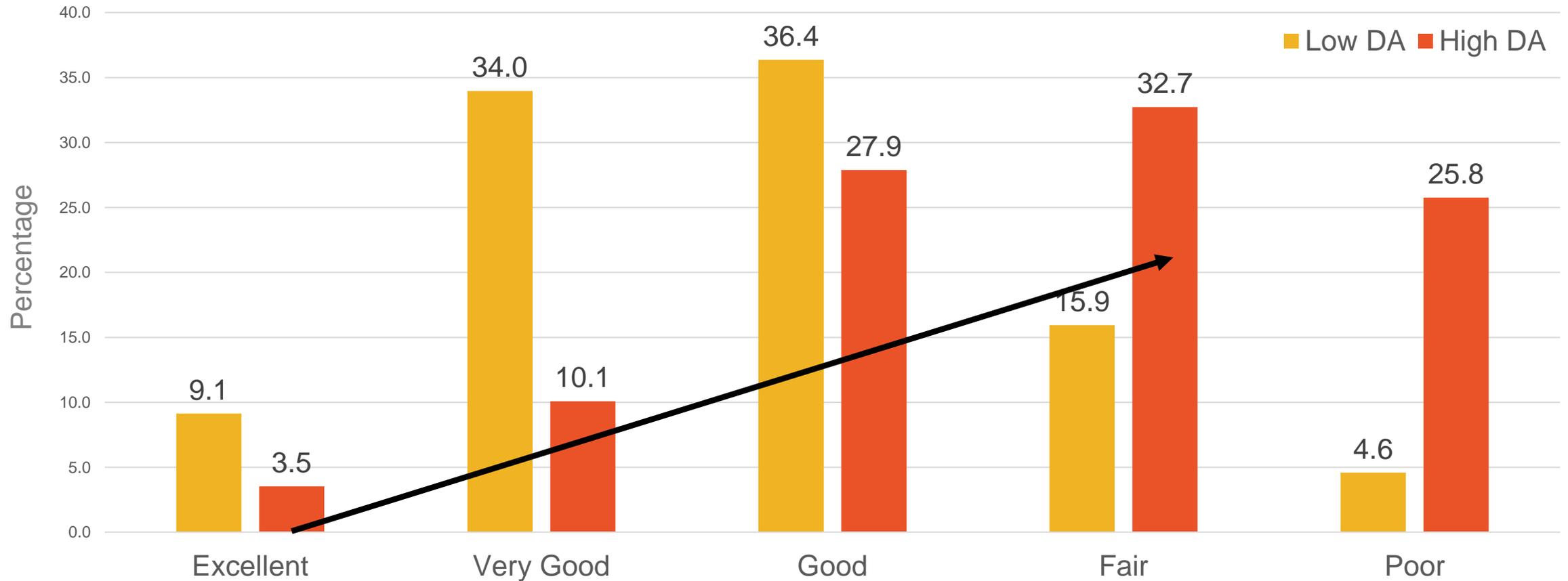
Do you currently have dental insurance?



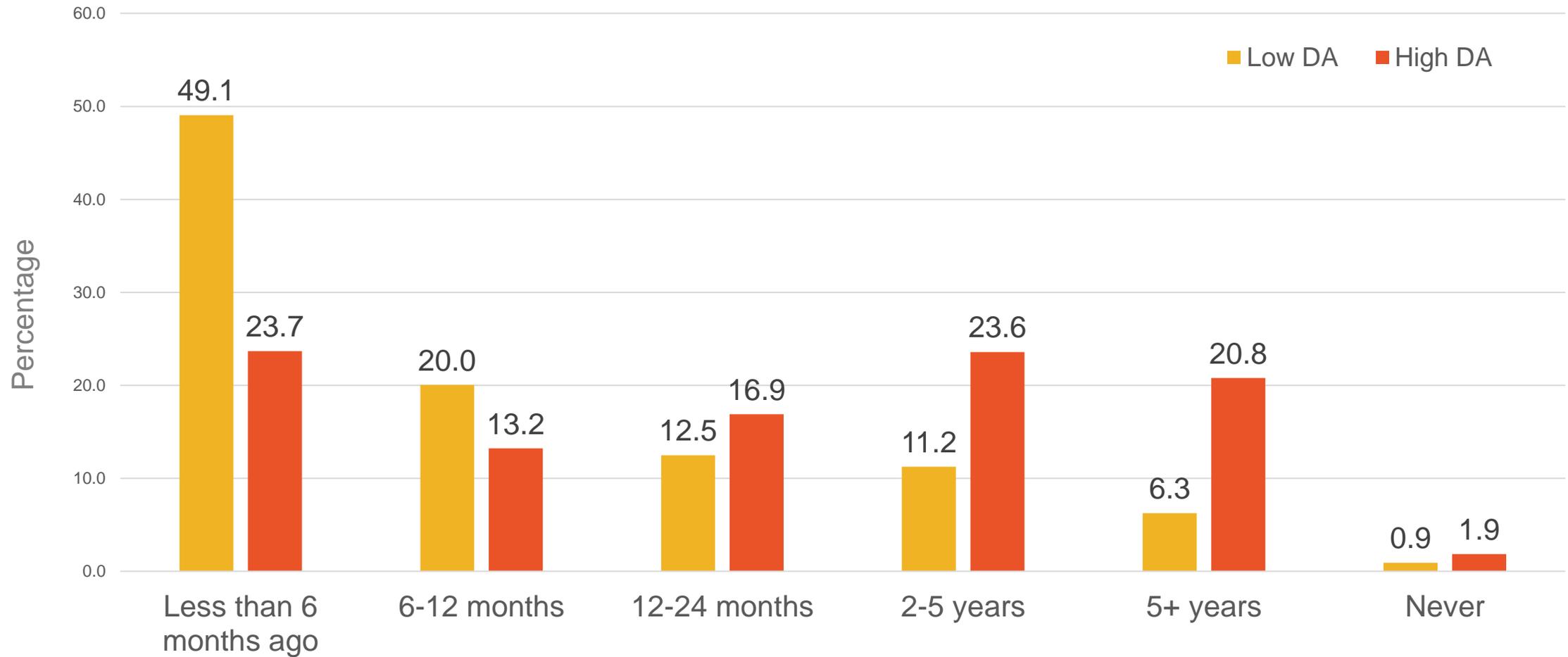
What is the primary dental insurance that you have?



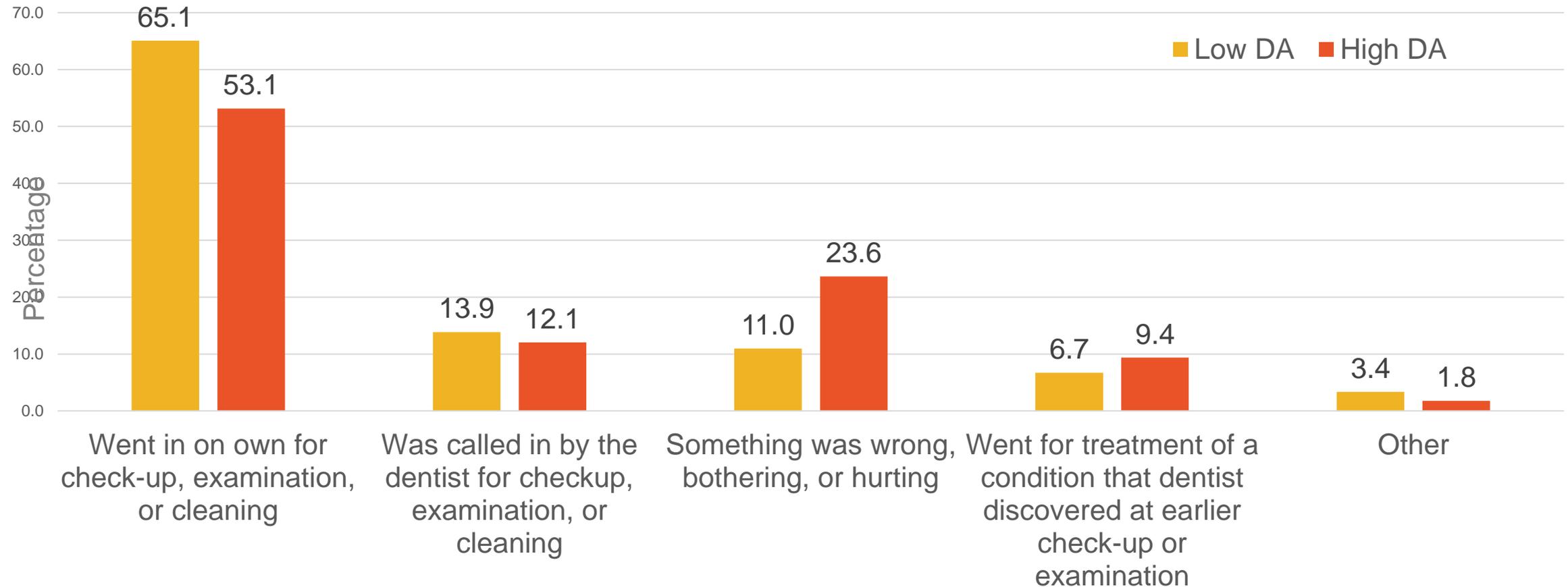
# Dental Anxiety and Self-Reported Oral Health Status



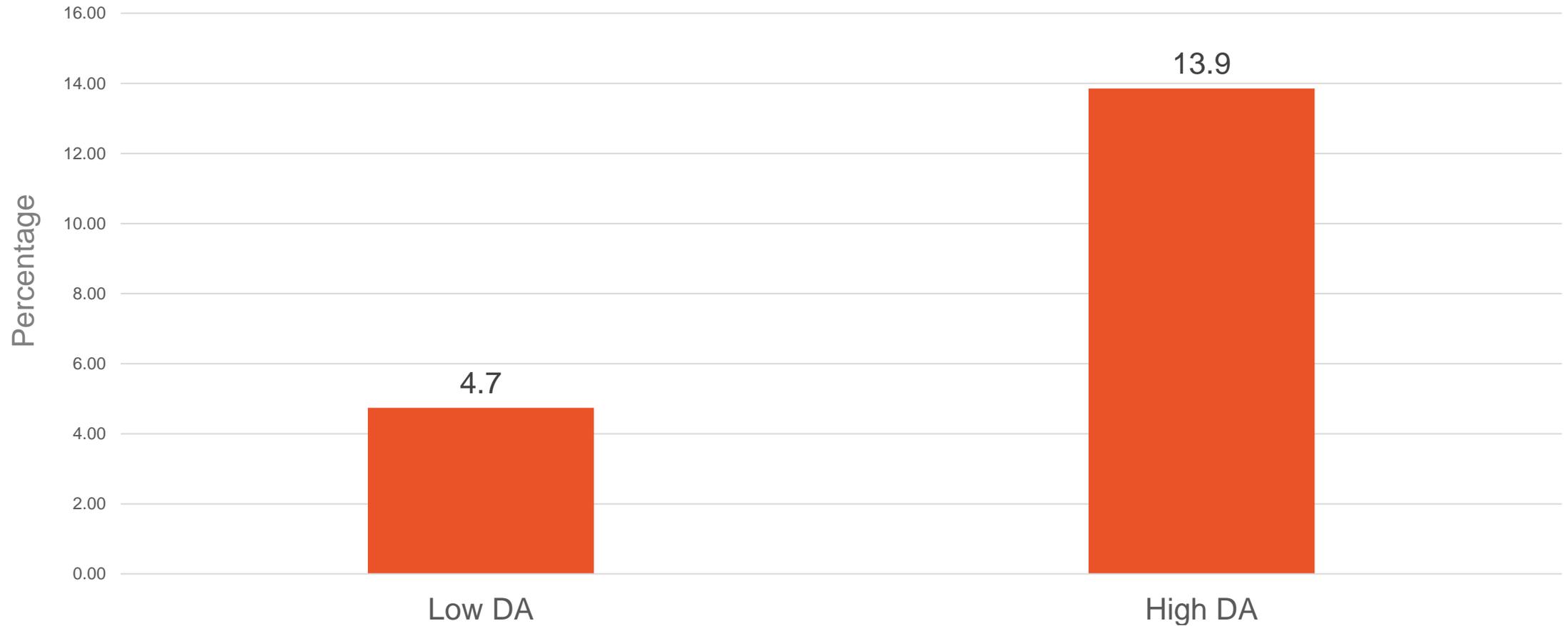
# When was your last visit to a dentist?



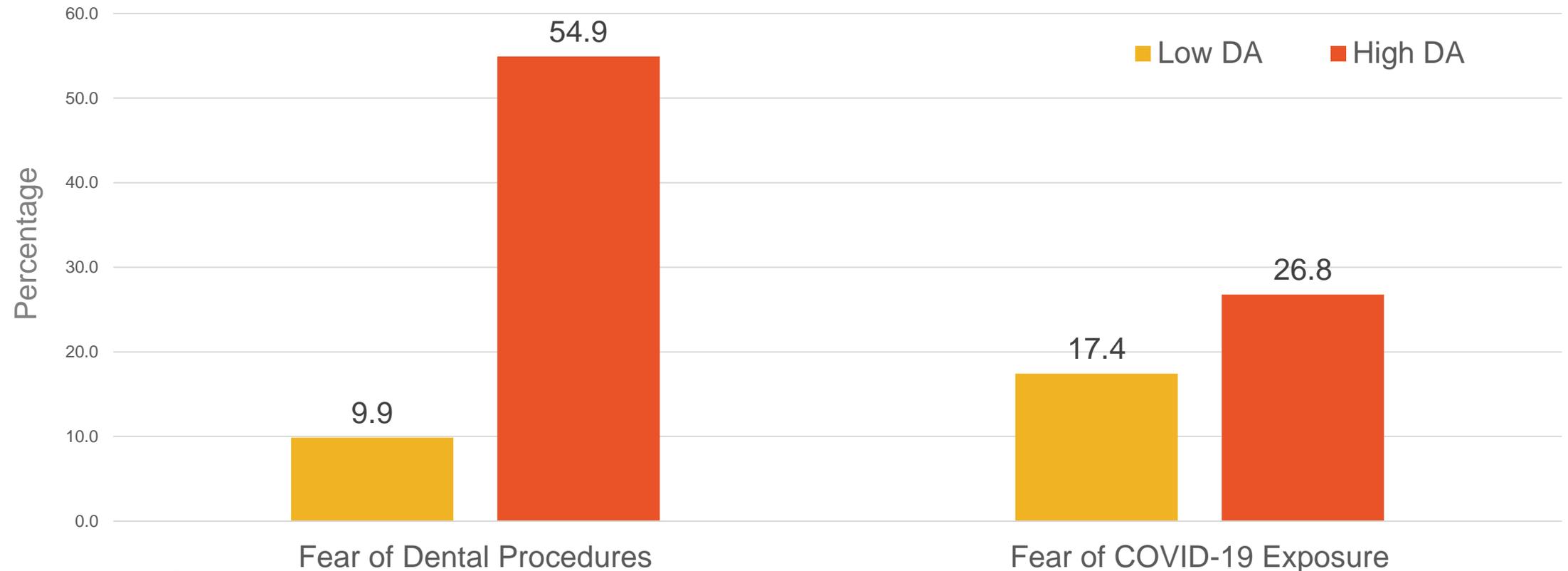
# What was the main reason you last visited the dentist?



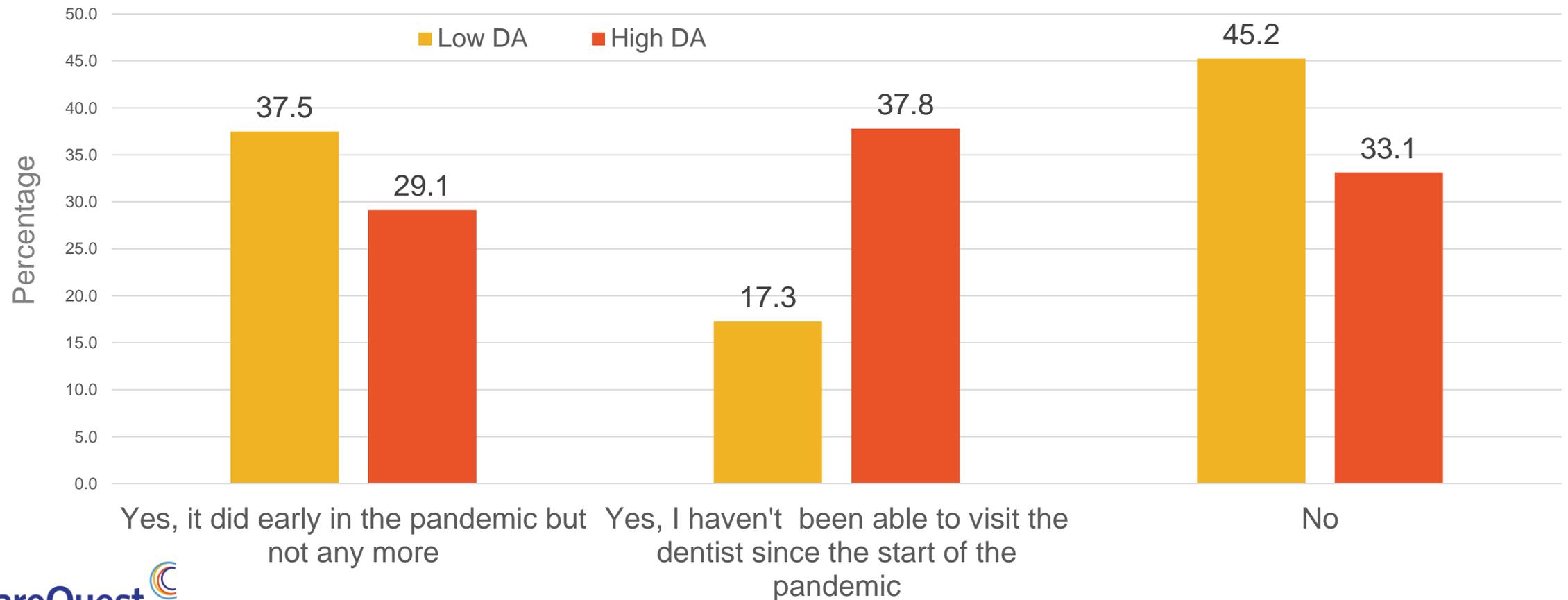
# Do you plan on seeing an oral health provider in the next year for routine or preventive care? (“No”)



# What are the following reasons why you do not plan on seeing an oral health provider for routine or preventive care?



# Has the COVID-19 pandemic made it harder for you to visit an oral health provider for routine or preventive services?



# Discussion

- Dental anxiety was associated with being female, younger age, being Hispanic, lower household income, and having Medicaid insurance coverage
- Compared to those with lower dental anxiety, individuals with dental anxiety were more likely to report poorer oral health, a year or more since the last dental visit, and not planning to visit a dentist in the coming year
- Those with dental anxiety were more likely to report not visiting a dentist or delaying dental care due to fear of COVID-19 exposure, and were likely to avoid future care due to dental anxiety and fear of COVID-19

# Strengths & Limitations

## Strengths

- Large, probability-based, representative of U.S. household population
- Participants include those with and without dental visits
- Reliable, valid measure of dental anxiety (MDAS)

## Limitations

- Nearly all participated online
- Conducted in English
- Likely doesn't capture all reasons for avoiding care

# Conclusion

- Dentists may need to take extra steps to reassure patients who already have dental anxiety that dental treatment is safe
  - Low case numbers
  - Safety precautions
- Individuals who have avoided care due to dental anxiety and/or fear of COVID-19 may present to the office with more dental needs

# References

- **Addicks** SH, McNeil DW, Randall CL, et al. Dental Care-Related Fear and Anxiety: Distress Tolerance as a Possible Mechanism. *JDR Clin Trans Res.* 2017;2(3):304-311.
- **Armfield** JM. What goes around comes around: revisiting the hypothesized vicious cycle of dental fear and avoidance. *Community Dent Oral Epidemiol.* 2013 Jun;41(3):279-87.
- **Armfield** JM, Heaton LJ. Management of fear and anxiety in the dental clinic: a review. *Aust Dent J.* 2013 Dec;58(4):390-407
- **Armfield** JM, Slade GD, Spencer AJ. Dental fear and adult oral health in Australia. *Community Dent Oral Epidemiol.* 2009 Jun;37(3):220-30.
- **Armfield JM**, Stewart JF, Spencer AJ. The vicious cycle of dental fear: exploring the interplay between oral health, service utilization and dental fear. *BMC Oral Health.* 2007 Jan 14;7:1.
- **Asl** AN, Shokravi M, Jamali Z, Shirazi S. Barriers and Drawbacks of the Assessment of Dental Fear, Dental Anxiety and Dental Phobia in Children: A Critical Literature Review. *J Clin Pediatr Dent.* 2017;41(6):399-423.
- **Humphris** GM, Freeman R, Campbell J, Tuutti H, D'Souza V. Further evidence for the reliability and validity of the Modified Dental Anxiety Scale. *Int Dent J.* 2000 Dec;50(6):367-70.
- **Humphris** GM, Morrison T, Lindsay SJ. The Modified Dental Anxiety Scale: validation and United Kingdom norms. *Community Dent Health.* 1995 Sep;12(3):143-50.
- **Guentsch** A, Stier C, Raschke GF, Peisker A, Fahmy MD, Kuepper H, Schueler I. Oral health and dental anxiety in a German practice-based sample. *Clin Oral Investig.* 2017 Jun;21(5):1675-1680.
- **Kastenbom** L, Falsen A, Larsson P, Sunnegårdh-Grönberg K, Davidson T. Costs and health-related quality of life in relation to caries. *BMC Oral Health.* 2019 Aug 16;19(1):187.
- **McNeil** DW, Randall CL. In Mostofsky DI, Fortune F. *Behavioral dentistry.* In Dental fear and anxiety associated with oral health care: Conceptual and clinical issues 2014 (pp. 165-92). Ames (USA), IA: Wiley/Blackwell.
- **Newton** JT, Edwards JC. Psychometric properties of the modified dental anxiety scale: an independent replication. *Community Dent Health.* 2005 Mar;22(1):40-2.
- **Silveira** ER, Cademartori MG, Schuch HS, Armfield JA, Demarco FF. Estimated prevalence of dental fear in adults: A systematic review and meta-analysis. *J Dent.* 2021 May;108:103632.
- **Vohra** P, Verma RK, Mongia JS, et al. Evaluation of Knowledge, Attitude, Awareness, Fear, and Anxiety Levels in Patients Visiting the Routine Dental Outpatient Department during COVID 19 Pandemic - A Cross-sectional Hospital-Based Observational Research. *J Pharm Bioallied Sci.* 2021;13(Suppl 2):S1650-S1654. doi:10.4103/jpbs.jpbs\_378\_21

# Contact Information

**Lisa J. Heaton, PhD**

Science Writer

Analytics and Evaluation Team

CareQuest Institute for Oral Health

[LHeaton@carequest.org](mailto:LHeaton@carequest.org)



# Dental Fear and Anxiety

Cameron Randall, PhD

Assistant Professor, Department of Oral Health Sciences

University of Washington School of Dentistry

May 5, 2022



**conditioning**



**cognitions** (i.e., misperceptions, catastrophizing, dental beliefs)



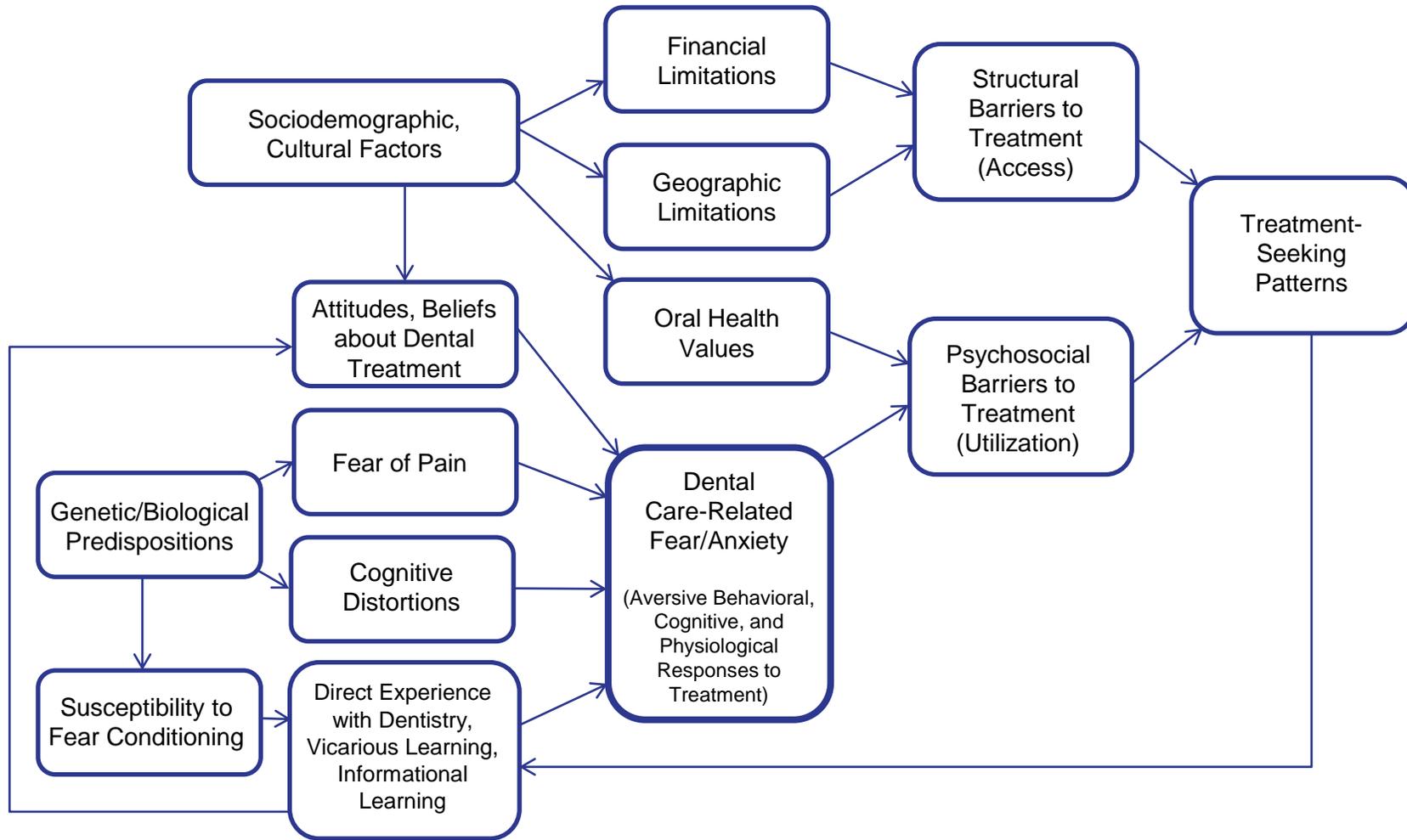
**temperamental/personality characteristics**



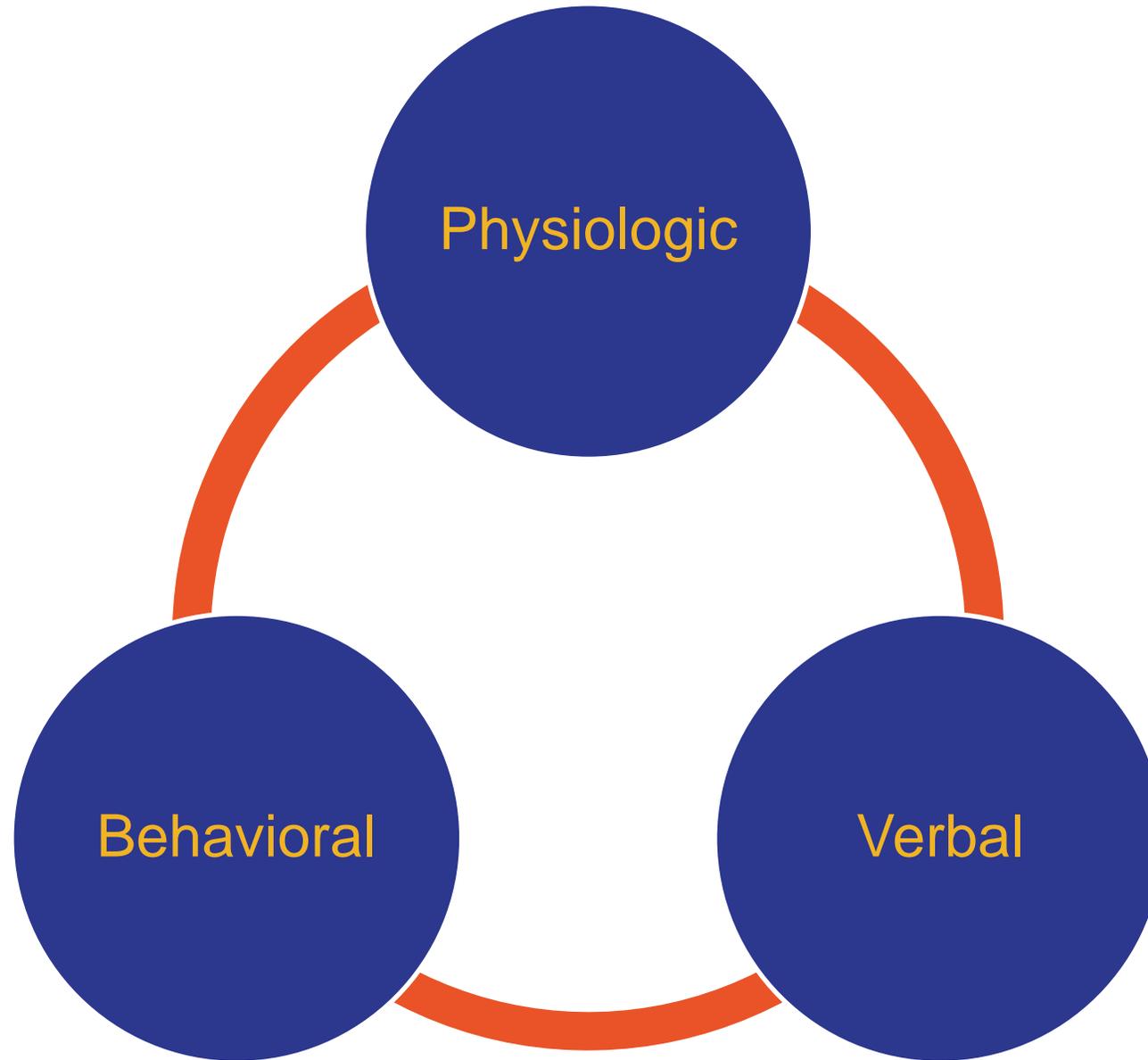
**pain hypersensitivity**

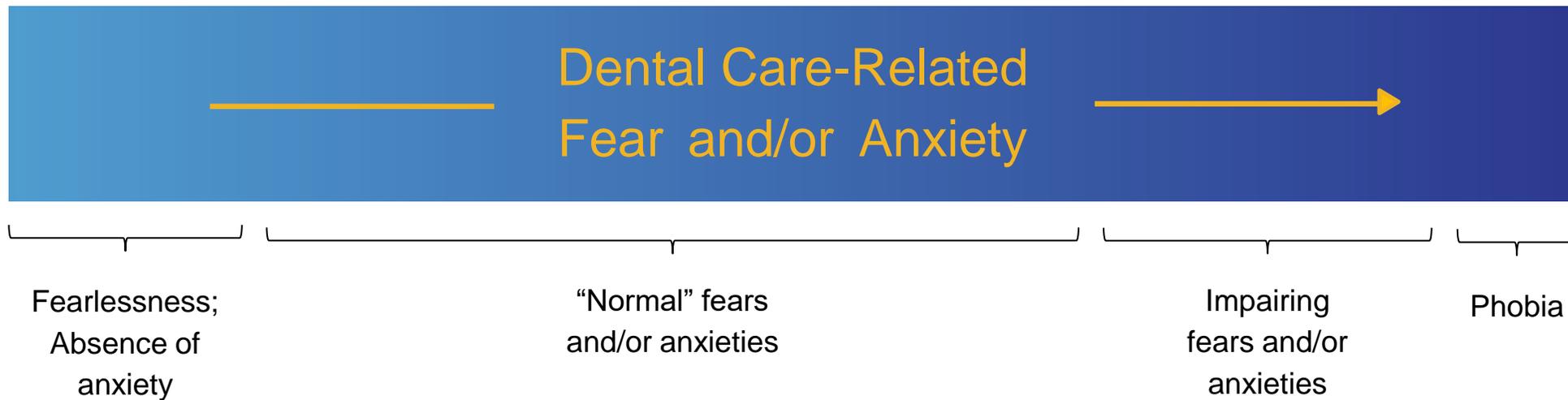


**social learning**



From McNeil & Randall (2014)





From McNeil & Randall (2014)

# Fear and Anxiety

## Verbal Report

self-report  
questionnaires

Dental Fear Interview  
(Vrana et al., 1986)

## Overt Behavior

“nervous” behaviors  
(Kleinknecht & Bernstein, 1978)

delayed reaction time in Stroop  
or eye-tracking tasks  
(McNeil et al., 2013; Muris et al., 1995)

break-taking

avoidance

## Physio Response

autonomic reactivity  
(Brand, 1999; Lueken et al.;  
2011; Milgrom et al., 2009)

vasovagal syncope  
response

(Lang, 1968; McNeil & Randall, 2014)

## Corah's Dental Anxiety Scale [DAS]

([Corah et al., 1978](#))

## Modified Dental Anxiety Scale [MDAS]

([Humphris et al., 1995](#))

## Dental Fear Survey [DFS]

([Kleinknecht et al., 1973](#))

## Index of Dental Anxiety and Fear [IDAF-4C+]

([Armfield, 2010](#))

## DFS Item 20

([Kleinknecht et al., 1973](#))

## Dental Anxiety Question [DAQ]

([Neverlien et al., 1991](#))

## Single Item Dental Fear Measure [SIDF]

([Armfield et al., 2011](#))

**CAUTION CAUTION CAUTION**

The use of cut-scores  
can create  
misclassification bias

(Thomson et al., 2009)

- cause(s) 
- triggering stimuli/situations 
- presentation 
- severity 
- impact 

# Contact Information

**Cameron Randall, PhD**

Assistant Professor

Department of Oral Health Sciences

University of Washington School of Dentistry

[clr333@uw.edu](mailto:clr333@uw.edu)



# Dental Fear and Anxiety

Dennis Nutter, DDS, DABPD, FACD  
Diplomate,  
American Board of Pediatric Dentistry

May 5, 2022



What age group in dentistry experiences the most problematic fear and anxiety?

- Systematic review of 61 studies of pediatric dental sedations
- Studies included subjects from age 2 to 16
- Average age of the subjects in those studies was 4 years, 6 months

Matharu and Ashley (2008)

Children under age 7 tend to display 5 times more distress for the same medical procedure than children age 7 and above.

Jay SM, Ozolins M, et al. (1983)

Young children are not as attentive to psychological techniques as adults.

Areas of the brain devoted to attention are only 50% mature at:

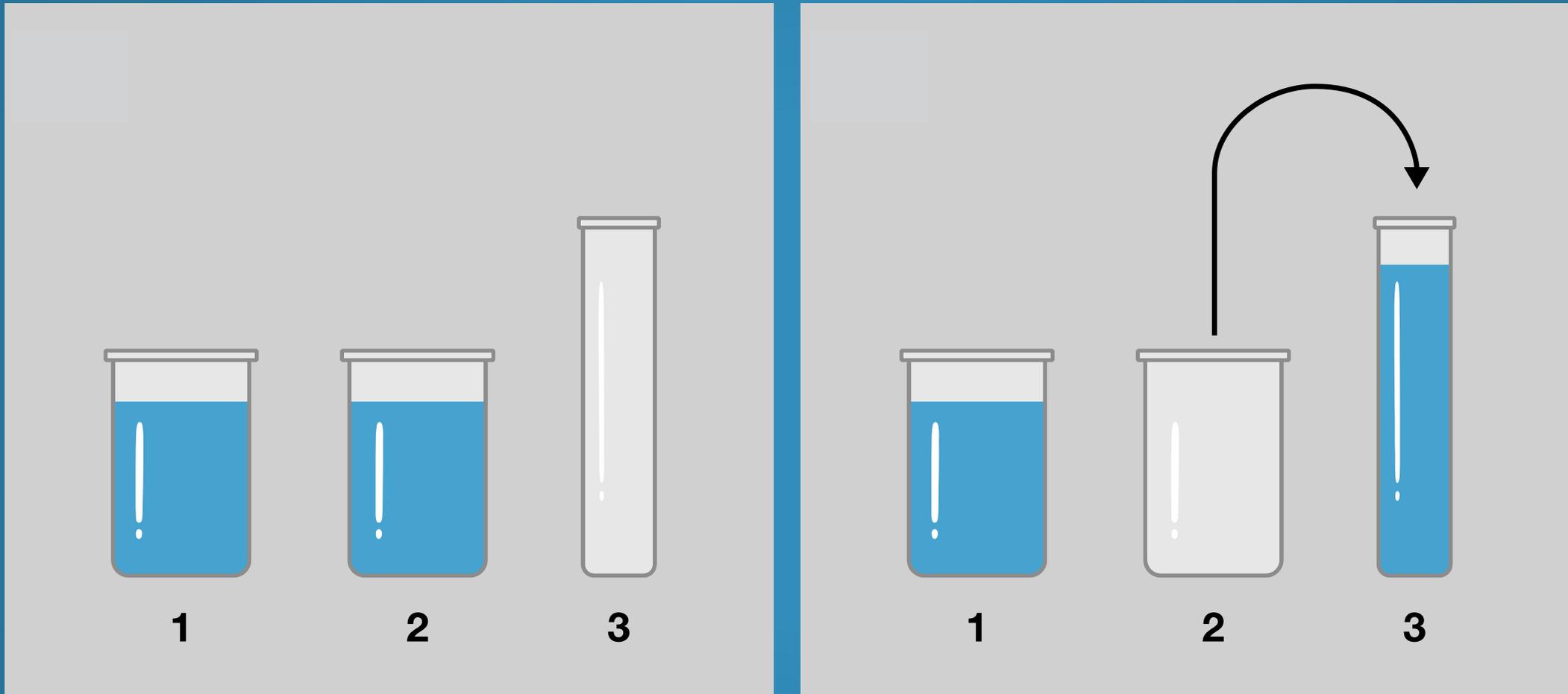
Age 7.5 = Neurotypical children

Age 10.5 = Children with ADHD

Shaw, et al. (2007)

Psychological techniques will not be as effective in children under age 7.

# Piaget: Conservation Errors



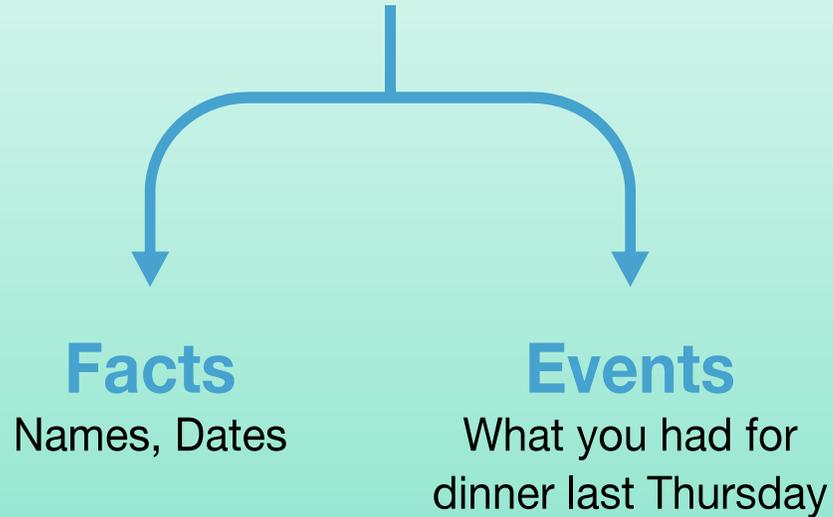
Ginsburg HP, Opper S. Piaget's theory of Intellectual Development, Third Edition, Prentice Hall, New Jersey, 1988, pages 113-179.

# Significance

- Children under age 7 do not process their environment the same way as adults.
- They do not process threat the same way as adults.
- The cognitive “reasoning” process that adults use to downregulate threat physiology and behavior will be impaired.

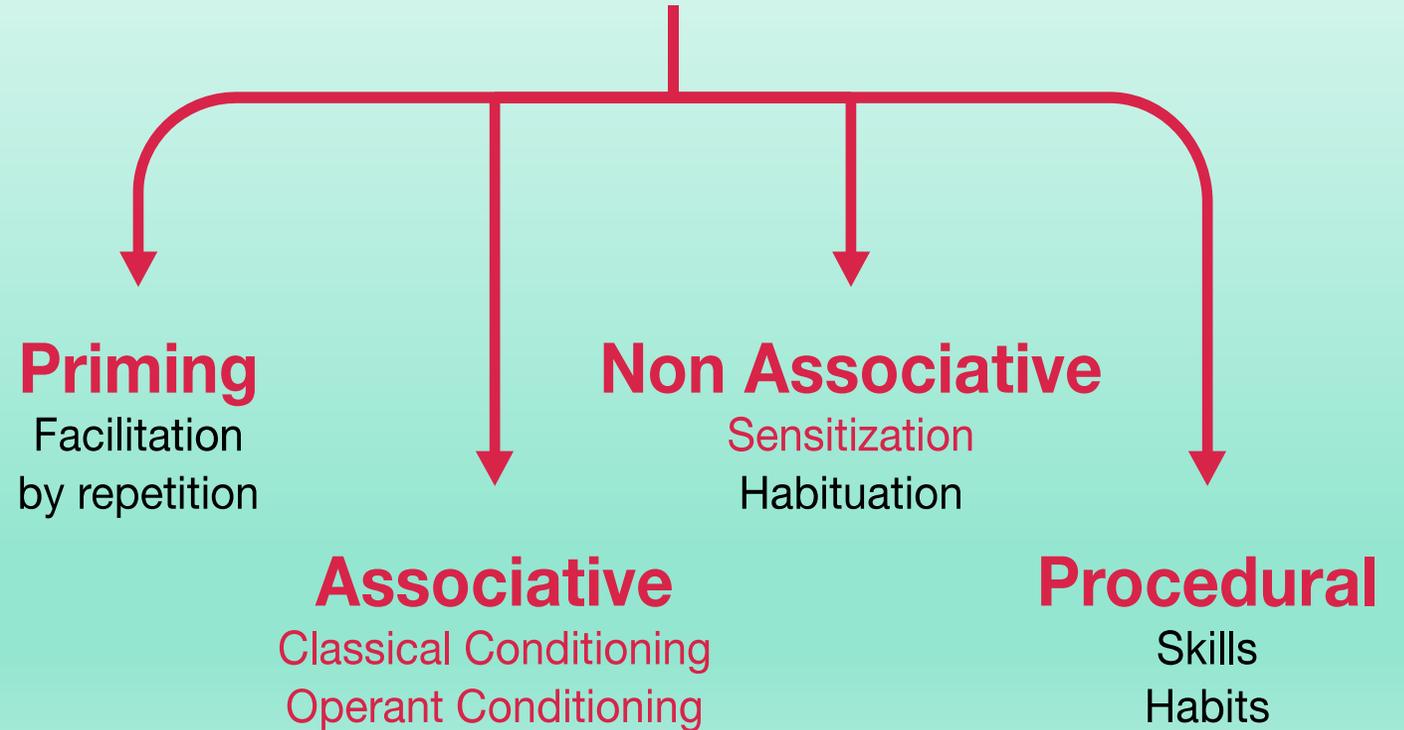
# EXPLICIT

Long-term Memory



# IMPLICIT

Long-term Memory



• Schacter DL, Wagner AD (2013)

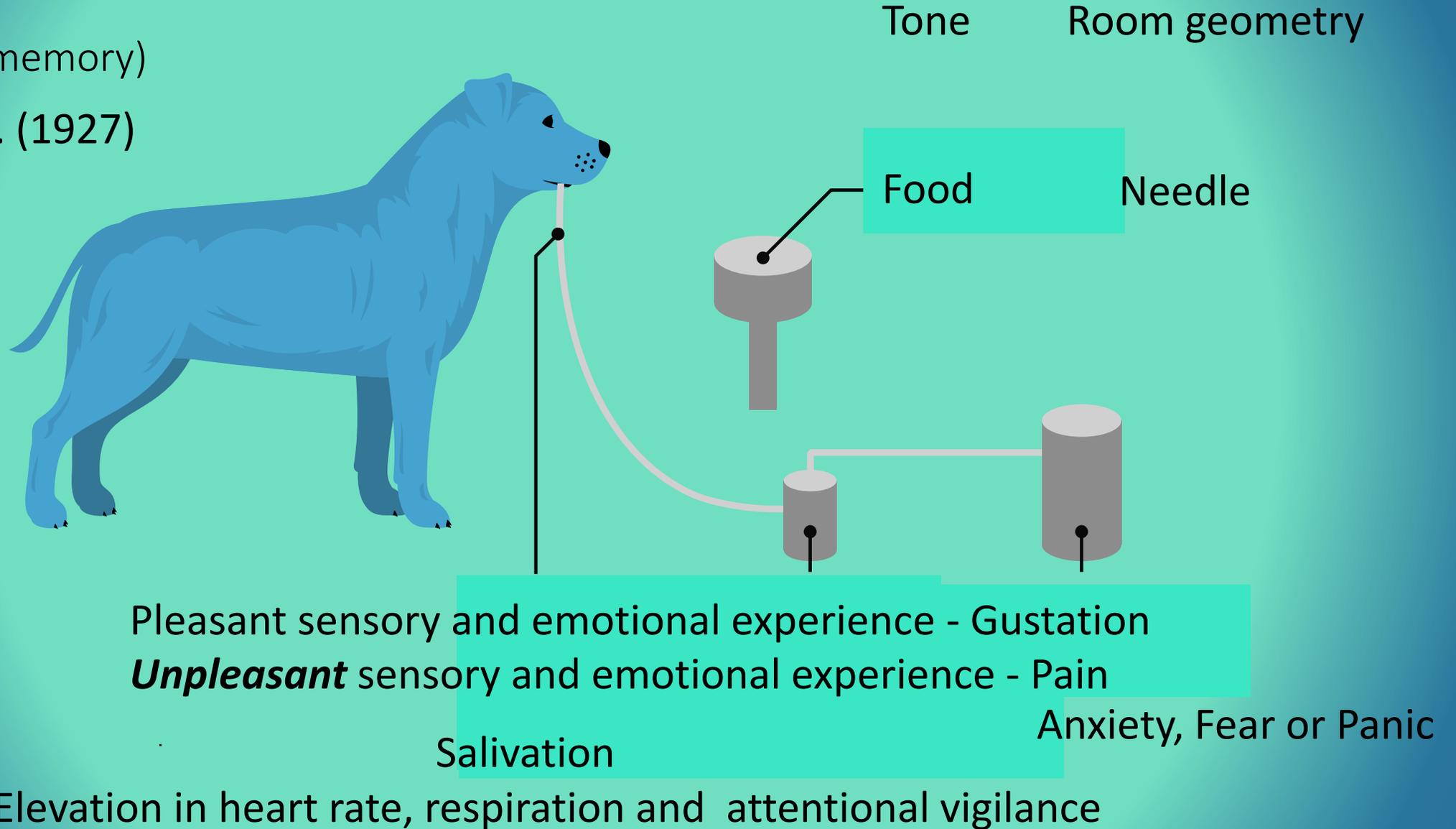
• Knight, Waters, Bandettini (2009)

• Kandel (2006)

# Pavlovian Conditioning

(Implicit memory)

Pavlov IP. (1927)



# Pavlovian Threat Conditioning

CDC recommends as many as 18 vaccination needle procedures by age 3.

Vaccinations, blood draws, and painful hospital visits condition children to fear medical environments.

Cemeroglu AP (2014)

McMurtry MC (2015)

Taddio A (2012)



Dental Fear?

# Pavlovian Threat Conditioning

## Stimulus Generalization

The tendency to respond in the same way to different but similar stimuli

Watson JB, Rayner R (1920)

Pearce JM (1987)

1. Amplification of future pain experience
2. Debilitate a child's ability to tolerate future necessary medical treatments



Fear

When a child is exhibiting distress during a procedure . . .

How do you tell what is **pain** and what is **fear** ?

- No objective measure of pain or anxiety that is as good as the patient's self report.
  - Heart rate
  - fMRI

Younger, et al. (2009)  
Sweet, McGrath, et al. (1998)  
Herr K, et al. (2011)  
Flor, Meyer (2011)  
Eriksson, Storm, et al. (2008)

- Cannot know that a child is completely anesthetized.
  - Rate of local anesthesia failure is as high as 15%.

Wong, et al. (1992)  
Nakai , Milgrom, et al. (2000)  
Wilson, Primosch, et al. (1990)

- Dentists, physicians, and nurses all tend to underestimate their patients' pain.

Seers, Derry et al. (2018)  
Baghari SC, et al. (2008)  
Versloot J, et al. (2004)

- Theoretically, we have a psychological need to rationalize away pain that we cannot alleviate.

Walco GA, Burns JP, Cassidy RC (2003)

- Can lead to a desire to downgrade pain symptoms that are coincident to tissue trauma into partial pain, partial anxiety.

- Pain is defined as an unpleasant sensory and *emotional* experience.

Raja SN, et al. (2020)

# Pragmatic Solution

Pain = distress that is coincident with procedural tissue trauma  
*until the child says otherwise*

McGrath P, et al. (2003)

Fear/Anxiety = procedural distress that is not coincident with  
procedural trauma

# The number one strategy to reduce procedural fear and anxiety in children . . .

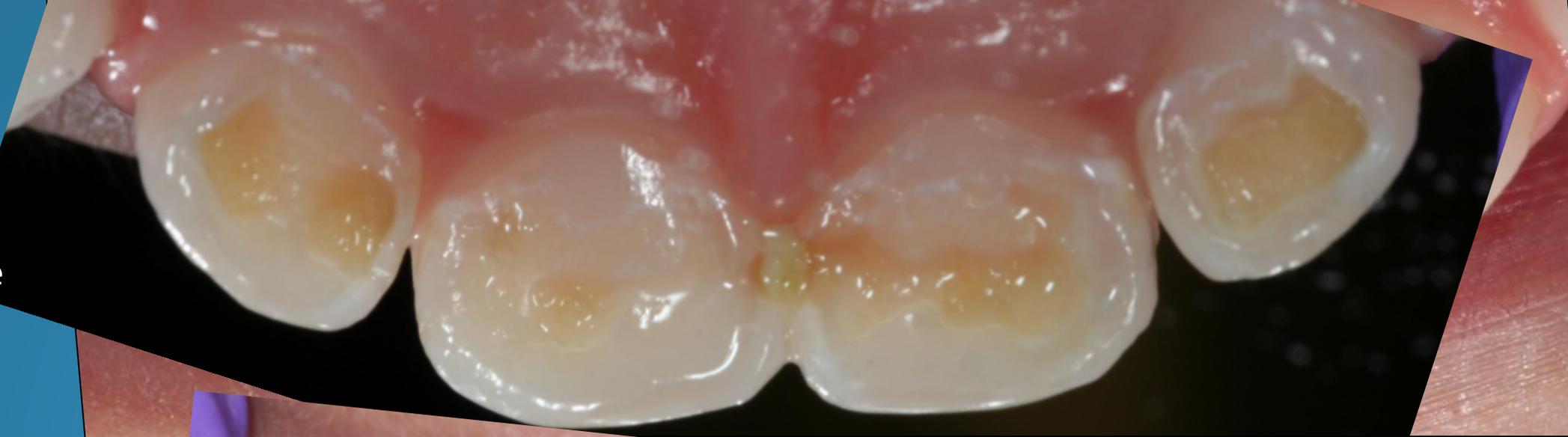
- Deferral of treatment that can be delayed by either non-invasive or less invasive means.
- Intent: Allow children to age to procedural tolerance.
- Age 7 is a milestone in procedural tolerance.
  
- Fluoride varnish
- Silver diamine fluoride
- Alternate restorative technique

Avoids needle procedures

Modulate level of invasiveness to the unique distress tolerance of the patient.

Require increased vigilance (frequency of observation) and maintenance.

More risky pharmacological interventions are only justified when this route is not feasible.





# References

- Bagheri SC, Perciaccante VJ, Bays RA. Comparison of patient and surgeon assessments of pain in oral and maxillofacial surgery. *CDA J* 36(1):43-50, 2008.
- Cemeroglu, A. P., Can, A., Davis, A. T., Cemeroglu, O., Kleis, L., Daniel, M. S., & Koehler, T. J. (2014). Fear of needles in children with type 1 diabetes mellitus on multiple daily injections (MDI) and continuous subcutaneous insulin infusion (CSII). *Endocrine Practice*, 6, 1–25.
- Ginsburg HP, Opper S. Piaget's theory of Intellectual Development, Third Edition, PrenticeHall, New Jersey, 1988, pages 113-179.
- Herr K, Coyne PJ, McCaffery M, Manworren R, Merkel S. Pain assessment in the patient unable to self-report: Position statement with clinical practice recommendations. *Pain Management Nursing* 2011;12(4);230-250.
- Flor H, Meyer P. Psychophysiological and neuroimaging measures on the assessment of patients with chronic pain. In, Turk DC, Melzack R, Eds. *Handbook of Pain Assessment*. Third Edition. Guilford Press, New York, 2011:151-175.
- Eriksson M, Storm H, Fremming A, Schollin J. Skin conductance compared to a combined behavioral and physiological pain measure in newborn infants. *Acta Paediatr*. 2008;97(1);27-30.
- Knight DC, Waters NS, Bandettini PA. Neural substrates of explicit and implicit fear memory. 2009;45(1):208-2014.
- Jay SM, Ozolins M, Elliott CH, et al. Assessment of children's distress during painful medical procedures. *Health Psychol* 2:133-147, 1983.
- Kandel ER. In search of memory: The emergence of a new science of mind. W.W. Norton & Company, Inc. 2006: 131-133.
- Matharu L, Ashley M. PF. Sedation of Anxious Children Undergoing Dental Treatment. *Cochrane Database of Systematic Reviews*. 2006; Issue 1: Art. No:CD003877
- McGrath P, Dick B, Unruh A. Psychologic and behavioral treatment of pain in children and adolescents. In, *Pain in Infants, Children and Adolescents*, Second Edition. Schechter NL, Berde CB, Yaster M, Eds., Philadelphia, Lippincott, Williams and Wilkins; 2003, pp 303-316.

- McMurtry MC, Riddell RP, Taddio A, Racine N, Asmundson GJG, Noel M, Chambers CT, Shah V, HELPPinKids&Adults Team. Far from “just a poke”: Common painful needle procedures and the development of needle fear. *Clinical Journal of Pain* 2015;31:S3-S11.
- Pavlov IP. *Conditioned reflexes: An investigation of the physiological activity of the cerebral cortex*. Anrep GV, Editor, Oxford University Press 1927.
- Pearce JM. A model for stimulus generalization in Pavlovian Conditioning. *Psychological Review* 1987;94(1):61-73
- Raja SN, et al. The revised International Association for the Study of Pain definition of pain: concepts, challenges, and compromises. *PAIN* 2020;161(9):1976-1982.
- Schacter DL, Wagner AD. “Learning and Memory”. *Principles of Neural Science*, Eds. Kandel ER, Schwartz JH, Jessell TM, Siegelbaum SA, Hudspeth AJ, Fifth Edition. McGraw Hill Medical, 2013. 1441-1460.
- Shaw P, Eckstrand K, Sharp W, Blumenthal J, Lerch JP, Greenstein D, Clasen L, Evans A, Giedd J, Rapoport JL. Attention-deficit/hyperactivity disorder is characterized by a delay in cortical maturation. *Proceedings of the National Academy of Science*. 104(49);19649-19654, December 4, 2007.
- Sweet SD, McGrath PJ. Physiological Measures of Pain. In: *Measurement of pain in infants and children*. Finley GA, McGrath PJ, Eds. Seattle, IASP Press; 1998, 59-81.
- Taddio A, Ipp M, Thivakaran S, et al. Survey of the prevalence of immunization non-compliance due to needle fears in children and adults. *Vaccine*. 2012;30:4807-4812.
- Versloot J, Veerkamp JSJ, Hoogstraten J, Assessment of pain by the child, dentist, and independent observers. *Pediatric Dentistry* 26(5):445-449, 2004.
- Walco GA, Burns JP, Cassidy RC. The Ethics of Pain Control in Infants and Children. In, *Pain in Infants, Children and Adolescents*, Second Edition. Schechter NL, Berde CB, Yaster M, Eds. Philadelphia, Lippincott, Williams and Wilkins; 2003, pp 157-168.
- Watson JB, Rayner R. Conditioned Emotional Reactions. *Journal of Experimental Psychology* 1920;3(1):1-14. <http://psychclassics.yorku.ca/Watson/emotion.htm>
- Wong MK, Jacobsen PL. Reasons for local anesthetic failures. *JADA* 1992;123(1):69-73.
- Younger J, McCue R, Mackey S. Pain outcomes: A brief review of instruments and techniques. *Current Pain Headache Reports* 2009;13(1);39-43.

# Contact Information

**Dennis Nutter, DDS, DABPD, FACD**

Diplomate,

American Board of Pediatric Dentistry

[dennispaulnutterdds@yahoo.com](mailto:dennispaulnutterdds@yahoo.com)



# Questions & Discussion

# To Explore More Industry-Leading Research

**CareQuest**  
Institute for Oral Health.

Who We Are Latest News Careers  [Log in/Register](#)

Reimagining Oral Health How We Work  Topics  Resources & Tools Education & Training

## Resource Library

We publish white papers, research reports, briefs, articles, posters, infographics, and tools on topics ranging from adult dental benefits to teledentistry. Use the filters below to find resources by type or topic.

**Search by Keyword**  **Filter by Topic**  **Filter by Type**

Title	Topic	Type
<a href="#">Improving Care Coordination Between Oral and Medical Providers</a>	Care Coordination	Video
<a href="#">Veteran Oral Health: Expanding Access and Equity</a>	Expanding Access	White Paper
<a href="#">2021 Oral Health Information Technology Virtual Convening</a>	Care Coordination	Presentation
<a href="#">Dental Fear Is Real. Providers Can Help.</a>	Expanding Access, Health Equity	Visual Report
<a href="#">Why We (Still) Need to Add Dental to Medicare</a>	Adult Dental Benefit, Expanding Access, Health Equity	Report
<a href="#">A Cross-Sectional Analysis of Oral Health Care Spending over the Life Span in Commercial- and Medicaid-Insured Populations</a>	Expanding Access, Health Equity	Article
<a href="#">Time Is on the Side of Change in Dentistry</a>	COVID-19 and Oral Health, Health	Article

[www.carequest.org/education/resource-library](http://www.carequest.org/education/resource-library)

**CareQuest**  
Institute for Oral Health.

## Missed Connections

### Providers and Consumers Want More Medical-Dental Integration

Oral health and overall health are inextricably linked. There is mounting evidence to suggest that poor oral health is related to a variety of chronic health conditions, such as high blood pressure, dementia, diabetes, and obesity. Despite this known connection, dental care is still largely siloed from medical care. The Centers for Disease Control and Prevention (CDC) estimates that integrating basic health screenings into a dental setting could save the health care system up to \$100 million every year.<sup>1</sup>

CareQuest Institute for Oral Health conducted a nationally representative survey in January and February 2021 to assess consumers' perspectives on oral and overall health (n=5,320). CareQuest Institute also conducted a nationwide survey of oral health providers to assess perspectives and current behaviors related to interprofessional practice (n=377). Consumers and oral health providers described a lack of integration between medical and oral health care, and a desire for increased interprofessional collaboration.

**Key Findings:**  
**Medical-dental collaboration is currently uncommon.**

- 63% of consumers report that their primary medical doctor "rarely" or "never" asks about their oral health.
- 33% of consumers report that their oral health provider "rarely" or "never" asks about their overall health.
- 45% of responding oral health providers report "rarely" integrating their care with clinicians outside of dentistry, with only 14% reporting it is part of their "daily" practice.
- Less than a third of consumers report receiving general health screenings from their oral health provider.
- A majority (89%) of adults report never receiving a referral from their oral health provider to a non-oral health professional.
- Almost a fourth (24%) of participating oral health providers report currently implementing interprofessional practice.

# Webinar Evaluation

Complete the **evaluation by Friday, May 13** to receive CE credit.

## *Upcoming Webinars:*

**Thursday May 19, 2022, 3–4 p.m. ET**

## **Building a Teledentistry Program That Expands Access and Increases Equity**

Sign up to receive our newsletter to get more information on future webinars!

**Sign up for News and Updates**

Email\*

CareQuest Institute for Oral Health uses the information you provide to share updates on work and offerings to improve the oral health of all. You may unsubscribe at any time (See [Privacy Policy](#)).

**Submit**

# Stay Connected!

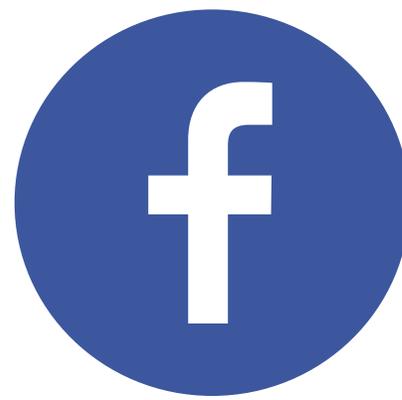
Follow us on social media and let's get connected!



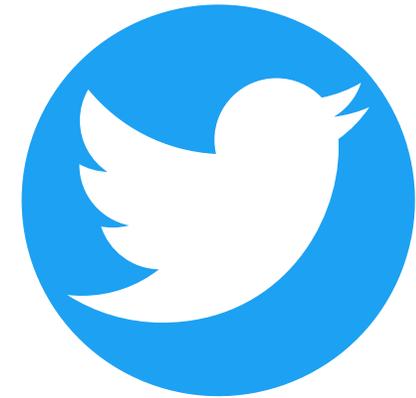
[carequest-institute](https://www.linkedin.com/company/carequest-institute)



[@CareQuestInstitute](https://www.instagram.com/CareQuestInstitute)



[CareQuestInstitute](https://www.facebook.com/CareQuestInstitute)



[@CareQuestInst](https://www.twitter.com/@CareQuestInst)

CareQuest   
Institute for Oral Health®