

*The National Academies of*  
**SCIENCES • ENGINEERING • MEDICINE**

HEALTH AND MEDICINE DIVISION  
BOARD ON HEALTH SCIENCES POLICY      BOARD ON HEALTH CARE SERVICES

**Committee on Temporomandibular Disorders (TMD):  
From Research Discoveries to Clinical Treatment**

The National Academies  
Keck Center – E Street Conference Room  
500 Fifth St. NW  
Washington, DC 20001

**WORKSHOP AGENDA**

**Thursday, March 28, 2019**

**OPEN SESSION – PUBLIC WORKSHOP**

**8:30 – 8:45 am**      Welcome and Opening Remarks  
*Queta Bond, Committee Chair*

**PANEL 1: TMD SCOPE AND DEFINITIONS**

Objectives:

- Explore the science and mechanisms of TMD.
- Identify similarities and differences between TMD and other chronic pain conditions.
- Discuss definitions of TMD and next steps in defining and categorizing TMD.
- Receive suggestions from panelists for improving the definition of TMD.

Panel Chair:

*Richard Ohrbach, University of Buffalo, committee member*

**8:45 – 9:30am**      **Patient perspective**

- *Jennifer Feldman*, individual with TMD

**Defining TMD for clinical care**

- *Dan Clauw*, University of Michigan
- *Bill Maixner*, Duke University

**9:30 – 10:00am**      Discussion with the committee

**10:00 – 10:15am**      Break

## PANEL 2: PUBLIC HEALTH BURDEN OF TMD

### Objectives:

- Explore the public health significance of TMDs, including prevalence, incidence, burden and costs – what is known and not known?
- Identify current national or regional surveys or other data resources that contain information on TMD.
- Consider the challenges to data collection and reliability in estimating the public health impact of TMD.
- Explore TMD and disability classifications.
- Receive suggestions from panelists for improving knowledge about the public health burden of TMD.

Panel Chair:

*Robert Weyant, University of Pittsburgh, Committee Member*

**10:15 – 11:00am**

### **Patient perspective**

- *Tricia Kalinowski*, individual with TMD

### **Studying the public health impact of TMD**

- *Gary Slade*, University of North Carolina
- *James Friction*, University of Minnesota [**remote presentation**]

**11:00am – 11:30am**

Discussion with the committee

**11:30am – 12:30pm**

Lunch (Keck Atrium)

## PANEL 3: TMD RESEARCH – BASIC & PRECLINICAL

### Objectives:

- Discuss similarities and differences among mechanisms of TMD pain and other chronic pain conditions.
- Explore the state of basic and preclinical TMD science.
- Identify research gaps and future directions and priorities.
- Receive suggestions from panelists for improving TMD basic and preclinical research.

Panel Chair: *Kathleen Sluka, University of Iowa, Committee Member*

**12:30 – 12:45pm**

### **Overview of TMD science and research from an NIH perspective**

*Yolanda Vallejo*, Director, Neuroscience of Orofacial Pain and Temporomandibular Disorders Program, National Institute of Dental and Craniofacial Research, NIH

**12:45 – 1:00pm**

Discussion with the committee

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| <b>1:00pm – 2:00pm</b> | <p><b>Future Directions for Basic &amp; Preclinical TMD Research</b></p> <p><b>Patient perspective</b></p> <ul style="list-style-type: none"> <li>• <i>Lisa Schmidt</i>, individual with TMD</li> </ul> <p><b>Neuroimmunology and transitioning from acute to chronic pain</b></p> <ul style="list-style-type: none"> <li>• <i>Annemieke Kavelaars</i>, MD Anderson [<a href="#">remote presentation</a>]</li> </ul> <p><b>Utility of animal models for TMD and orofacial pain</b></p> <ul style="list-style-type: none"> <li>• <i>Ke Ren</i>, University of Maryland</li> </ul> <p><b>TMD research over the years – gaps and future priorities</b></p> <ul style="list-style-type: none"> <li>• <i>Allen Cowley</i>, Medical College of Wisconsin</li> </ul> |
| <b>2:00 – 2:30pm</b>   | Discussion with the committee   |
| <b>2:30 – 2:45pm</b>   | Break   |
| <b>2:45 – 3:00pm</b>   | <p><b>Ontology of orofacial pain to improve patient care</b><br/>Moderated by <i>Richard Ohrbach</i></p> <ul style="list-style-type: none"> <li>• <i>Werner Ceusters</i>, University at Buffalo [<a href="#">remote presentation</a>]</li> </ul>  |
| <b>3:00 – 3:15pm</b>   | Discussion with the committee   |

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| <b>PANEL 4: TMD RESEARCH – CLINICAL &amp; TRANSLATIONAL</b> |
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Objectives:

- Discuss similarities and differences among mechanisms of TMD pain and other chronic pain conditions.
- Explore the state of clinical and translational TMD science.
- Identify research gaps and future directions and priorities.
- Receive suggestions from panelists for improving TMD clinical and translational research and treatment.

Panel Chair: *Roger Fillingim*, University of Florida, *Committee Member*

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| <b>3:15 – 3:30pm</b> | <p><b>Overview of evidence base for current TMD treatments</b></p> <ul style="list-style-type: none"> <li>• <i>Mark Drangsholt</i>, University of Washington</li> </ul> |
| <b>3:30 – 3:45pm</b> | Discussion with the committee   |

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| <b>3:45 – 4:45pm</b> | <p><b>Future directions for clinical &amp; translational TMD research</b></p> <p><b>Caregiver perspective</b></p> <ul style="list-style-type: none"> <li>• <i>Michelle and Alexandra Reardon</i>, family member and patient</li> </ul> <p><b>Complementary and integrative health approaches</b></p> <ul style="list-style-type: none"> <li>• <i>Helene Langevin</i>, National Center for Complementary and Integrative Health, NIH</li> </ul> <p><b>Neuroimaging research in TMD</b></p> <ul style="list-style-type: none"> <li>• <i>Alexandre DaSilva</i>, University of Michigan</li> </ul> <p><b>Lessons learned from advancements in orthopedics</b></p> <ul style="list-style-type: none"> <li>• <i>Constance Chu</i>, Stanford University [<b>remote participation</b>]</li> </ul> |
| <b>4:45 – 5:15pm</b> | Discussion with the committee   |
| <b>5:15 – 6:15pm</b> | <p><b>Public comments by registered speakers (3 – 5 minutes each)</b></p> <p>Moderators: <i>Queta Bond</i> and <i>Sean Mackey</i></p>   |
| <b>6:15pm</b>        | Day 1 Public Session Adjourns   |

**Friday, March 29, 2019**

**OPEN SESSION – PUBLIC WORKSHOP**

**8:30 – 8:40am**                      **Welcome and Opening Remarks**  
*Queta Bond, Committee Chair*

**PANEL 5: TMD CARE PATHWAYS**

Objectives:

- Discuss current TMD treatments and standards of care – what is known about their effectiveness?
- Explore the current pathways and practitioners TMD patients use to receive care and recommend improved pathways.
- Explore the separation of dental and medical practice in the United States and implications for TMD patient care.
- Receive suggestions from panelists as to how future TMD care can be improved.

Panel Chair:

*David Deitz, David Deitz and Associates, Committee Member*

**8:40 – 9:10am**

**Improving TMD care pathways**

**TMD care pathways – a UK perspective**

- *Justin Durham*, Newcastle University [**remote participation**]

**TMD care pathways – a patient perspective**

- *Adriana van Ineveld*, individual with TMD

**9:10 – 10:00am**

**Improving TMD care pathways – roles of dentistry and medicine**

- American Dental Association
  - *Deepak Kademani*, North Memorial Medical Center [**remote participation**]
- American Association of Oral and Maxillofacial Surgeons
  - *Gary Bouloux*, Emory University School of Medicine
  - *Gregory Ness*, Ohio State University College of Dentistry
- American Association of Public Health Dentistry
  - *Hong Chen*, University of Iowa College of Dentistry and Dental Clinics [**remote participation**]
- American Academy of Pain Medicine
  - *Meredith Barad*, Stanford University [**remote participation**]
- Aetna Inc.
  - *Jeffrey Livovich*, Aetna Inc. [**remote participation**]

**10:00 – 10:30am**

Discussion with the committee

**10:30 – 11:30am**

**Public comments by registered, remote speakers (3 – 5 minutes each)**

Moderators: *Queta Bond* and *Sean Mackey*

**11:30am**

Public Session Adjourns