Molar-Incisor Hypomineralisation (MIH) is a prevalent condition in Australia with more than one-fifth of children affected, and about 5% severely affected. The exact causal factors are still unknown, so primary prevention is difficult. Many of these teeth provide great clinical challenges as they are sensitive, difficult to anaesthetise and restorations fail readily. Treatment planning for hypomineralised molars in the child is complicated and difficult and often has long term consequences. The highly experienced presenters at this seminar will cover a range of issues and provide answers to your clinical problems.

Molar-Incisor Hypomineralisation (MIH) – Cause and Prevention Overview
Prof. Mike Hubbard,
Professorial Fellow, Melbourne

MIH is disturbingly prevalent and costly, potentially affecting over 10% of the population with multiple burdens including pain, disfigurement and increased caries risk. MIH is thought to result from a systemic injury to the enamel-forming cells that appears multifactorial and linked to illness during infancy. Given precedence from fluorosis and tetracycline-related defects, there is good reason to anticipate that MIH can become preventable once its causes are unravelled. Accordingly, local researchers are using several scientific approaches (cell biology, biochemistry and toxicology) in an attempt to understand the pathogenesis and cause of MIH.

Following graduation as a dentist, Professor Mike Hubbard did a PhD in Biochemistry and then spent a year in private dental practice. After postdoctoral research positions in the USA and Scotland, he established his independent research career in New Zealand, using dental enamel cells to investigate basic biomedical questions about how calcium affects cell survival. In 2003, he established a translational research program at the Melbourne Research Unit for Facial Disorders, Royal Children’s Hospital. The Unit’s lead project on Developmental Dental Defects is now being supported by a broad range of scientists, academics and clinicians – The D3 Group.

Does the History Let Me Predict the Outcome?
Dr Narisha Chawla
Paediatric Dentist, Melbourne

The clinical course of hypomineralised first permanent molars is difficult to predict. A recently developed index based on clinical features of hypomineralisation of first permanent molars may assist clinicians in predicting the clinical course of the condition and help determine the most appropriate treatment. The use of this index will be described and discussed.

Dr Narisha Chawla received her Bachelor of Dental Science with honours from The University of Melbourne. After working in private practice in Singapore and volunteering around Asia for two years, she returned to Melbourne to undertake a Doctor of Clinical Dentistry (Paediatric Dentistry) which she completed last year. Her research interest in MIH started with an undergraduate summer project and since then Dr Chawla has published two articles on MIH.
TREATMENT PLANNING OF HYPOMINERALISED MOLARS AND ANTERIOR TEETH
Dr David Manton, Senior Lecturer (Paediatric Dentistry), Melbourne

Treatment planning for hypomineralised molars in the child is a complicated, difficult and often a thankless task. Decisions made at the time can have long-term consequences. Should you restore and if so, which material should you restore with? Should you extract and at what time? Should you ask an orthodontist? To remineralise or not to remineralise? What should you tell the parents? These issues will be explored and lead into more specific discussions on the restorative and orthodontic implications of MIH.

Dr David Manton completed his BDS (Melb) in 1984 and in 1991 he undertook an MDSc in Paediatric Dentistry. Currently he is the convener of the Paediatric Dentistry program at The University of Melbourne and is involved in collaborative research with the Royal Children's Hospital, ACTA (the Netherlands) and the University of Dundee. Dr Manton has wide ranging experience in laboratory and clinical trials and his interests are in the demineralisation and remineralisation of enamel with CPP-ACP and fluoride, dentine remineralisation of enamel with MTA, and the development of the lateral cephalometric X-ray and the hand and wrist growth prediction that is used extensively by radiologists worldwide. With a specialist orthodontic practice in Box Hill and Ringwood, Dr O’Callaghan has an active interest in MIH.

ORTHODONTIC IMPLICATIONS OF AND OPTIONS FOR HYPOMINERALISED TEETH
Dr Sean O’Callaghan, Orthodontist, Melbourne

Dr Sean O’Callaghan will describe the orthodontic management of MIH. He will discuss practical aspects in treatment planning of patients with MIH. This will include: orthodontic complications; when to seek orthodontic advice; to extract or to restore; at what age to extract; facial considerations; and several clinical cases to illustrate the points.

Dr Sean O’Callaghan completed his BDS at The University of Melbourne in 1984 and then worked in a group general practice until 1991. That year he went to Case Western Reserve University USA to complete his specialist training in orthodontics. He graduated in 1993 with a Certificate of Orthodontics and Master of Science in Dentistry. This Ohio university houses the Bolton Brush Growth Study Center. The Center is renowned for its expertise in facial growth and the development of the lateral cephalometric X-ray and the hand and wrist growth prediction that is used extensively by radiologists worldwide. With a specialist orthodontic practice in Box Hill and Ringwood, Dr O’Callaghan has an active interest in MIH.

WHAT DO I DO TO THIS? – RESTORATIVE OPTIONS FOR MIH MOLARS
Dr Gordon Burt, Prosthodontist, Melbourne

The hypomineralised tooth is a restorative dilemma at whatever age it presents. Patients and parents expectations of appearance, function and longevity are often in conflict with what is possible. The application of adhesive dentistry can be used in many situations; while making a decision to ‘draw a line in the sand’ and consider a replacement should be part of the restorative dentist’s treatment options. Dr Burt will address the treatment options for these affected teeth over a patient’s lifetime.

Dr Gordon Burt is a registered Prosthodontist in Glen Iris. He is a visiting consultant in Prosthodontics to the Royal Children’s Hospital, Department of Dentistry. Dr Burt completed his BDS at the London Hospital Medical College and completed a Masters Degree at the Institute of Dental Surgery (Eastman Dental Hospital), University of London, and an MS in Prosthodontics at the University of Minnesota. He is a Fellow of the Royal Australasian College of Dental Surgeons and a member of the ADAVB Continuing Professional Development Committee.

DEALING WITH HYPERSENSITIVE TEETH AND PULP TREATMENT OF THE IMMATURE TOOTH
Em Prof Harold Messer, Professor of Restorative Dentistry, Melbourne

Pulpal management in case of MIH should focus on maintaining pulp vitality where ever possible. Recent developments in revascularisation may help to promote continuing root development and dentine deposition, which will reduce the need for root canal treatment and also strengthen roots. The use of MTA for direct pulp capping and partial pulpotomy has also been very successful in a range of clinical cases and should be attempted whenever possible. Root canal treatment should be considered only as a last resort when the pulp is totally necrotic.

Professor Harold Messer is professor emeritus in the Melbourne Dental School, after serving for 15 years as Professor of Restorative Dentistry and Head of Endodontics. He currently spends time as visiting professor in Chulalongkorn University, Thailand, and in the National University of Singapore, but continues to supervise research students in Melbourne. He has a strong interest in vital pulp therapy.

WHAT’S NEW IN MIH – CURRENT RESEARCH ON PHYSICAL CHARACTERISTICS AND STRUCTURAL CHANGES
Dr Felicity Crombie, General Practitioner, Melbourne

This presentation will provide a synopsis and update of the current literature and research concerning MIH with particular emphasis on physical and structural properties of affected enamel and implications for management.

Dr Felicity Crombie completed her BDS with Honours at The University of Melbourne and practices in both private and public sectors as well as teaching undergraduates. In 2007 Dr Crombie started her PhD studies investigating the properties of molars affected by enamel hypomineralisation and subsequently has published and presented on the topic of molar hypomineralisation both locally and internationally.
ADAVB REGISTRATION CONDITIONS & ADMINISTRATION

REGISTRATION AND FEES

- Registrations must be received three working days prior to the event. Registrations after this may incur an additional charge.
- Registration fees are stated within the event information and on the booking form.
- Members: The member rate is for current members of ADAVB and other Branches of the ADA.
- Students: The student rate applies to full-time dentistry students enrolled at either undergraduate or postgraduate level in 2010. Attach proof of your student status (e.g., photocopy of Student ID Card) when registering.
- Retired members: The retired members rate is only available to dentists who no longer practice and hold a current retired membership with the ADAVB.
- Staff: The staff rate applies to dental hygienists, dental therapists and practice management staff employed by an ADAVB member and are accompanying the member to an event. The member’s name and ADAVB membership number must be provided on their registration form. Staff are not eligible to attend events that are limited to ADAVB members only. Dental hygienists and dental therapists not employed by an ADAVB member must register for events at the non-member rate.
- Dental assistants: The dental assistants rate applies to dental assistants employed by an ADAVB member and who are accompanying the member to an event (except for events specifically organised for dental assistants). The attendance of dental assistants is limited to large venue events only. The member’s name and ADAVB membership number must be provided on the registration form.
- Non-member: Non-member dentists, including those that are employed by current ADAVB members, are not eligible for staff or member rates under any circumstances.

PAYMENT OF COURSE FEES

- All registrations must be accompanied by payment, which can be made via mail or fax with credit card details clearly written on the registration forms (only Amex, Mastercard and Visa accepted), or cheques made payable to “ADAVB Inc.” and mailed to ADAVB, P.O. Box 9015, South Yarra, VIC 3141.
- Phone registrations and payments will not be accepted.
- Once full payment of the registration fees has been received and your name is registered, a confirmation letter and receipt will be mailed to you.
- The fees include your registration, handouts and course materials (if any), all meals and refreshments during the day.
- Early registration is recommended for programs with a limited enrolment (e.g., hands-on workshops).
- Contact the ADAVB if confirmation of your enrolment is not received 7 working days after the initial application.

CANCELLATIONS

- Lectures: Cancellations received up to 7 working days prior to the event date will be refunded, less a $40 per person handling fee. No refunds will be issued for cancellations made less than 7 working days prior to the event, except under special circumstances.
- Hands-on workshops: Cancellations received up to 14 working days prior to the event date will be refunded, less a $40 per person handling fee. No refunds will be issued for cancellations made less than 14 working days prior to the event, except under special circumstances.
- A substitute delegate may be nominated and ADAVB must be informed of the substitute’s details.
- All cancellations must be made in writing to the ADAVB.
- Refunds will be issued via cheques. It may take up to 14 working days for refunds to be processed.

CATERING

- Catering will be provided for each course.
- Full day courses (e.g., 9.00am – 5.00pm) will have morning and afternoon tea and a luncheon provided.
- Half-day courses (either morning, afternoon or evening) will have light refreshments provided, unless otherwise stated.
- Vegetarian, halal and kosher meals are available on request and can be specified on the application form along with any other dietary requirements. While ADAVB tries to accommodate specific dietary needs, it cannot guarantee that the requests can be met. Call the ADAVB if in doubt.

ADAVB’S CALENDAR OF EVENTS FOR 2010

- For updates on the latest ADAVB seminars and group activities, log on to www.adavb.net or check the ADAVB monthly Newsletter.

PRIVACY STATEMENT

- ADAVB is bound by the Privacy Amendment (Private Sector) Act 2000. The information provided by you will be used to register you for this seminar. If you do not wish for your details to be accessed by the individual sponsors (where applicable) please tick the appropriate box on the registration form.
# ADAVB REGISTRATION FORM

Multiple registrations can be made on this registration form.

<table>
<thead>
<tr>
<th>Seminar</th>
<th>2010 Seminar Dates</th>
<th>Member &amp; Staff* Rate (per person)</th>
<th>Student/Retired Member Rate (per person)</th>
<th>Dental Assistant Rate (per person)</th>
<th>Non-member Rate (per person)</th>
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<td>Direct Aesthetic Solutions</td>
<td>4 March</td>
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<td>$120</td>
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<td>A Pain Free Day</td>
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<td>Exploring the Science in Dental Materials</td>
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* See definition on ADAVB registration conditions and administration page.

* Staff can attend this course. Other courses listed are for members only.

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**REGISTRATION DETAILS**

- **Title**: 
- **Name**: __________________________________________________________
- **ADAVB Membership No**: ________________________________
- **Address**: ____________________________
- **Postcode**: ____________________________
- **Phone**: ________________________________
- **Fax**: ________________________________
- **Mobile**: ________________________________
- **Email**: _________________________________________

**ACCOMPANYING STAFF DETAILS**

- **Name**: ___________________________________________________________________
- **Email**: ___________________________________________________________________
- **Event**: ___________________________________________________________________

- **I__l Hygienist  I__l Therapist  I__l Practice Staff  I__l Dental Assistant**

**Special dietary requirement/s (if any)** _______________________________________

If required, include additional staff names on a separate piece of paper, with your name and ADAVB membership number and attach this with your registration form.

**PRIVACY STATEMENT**

ADAVB is bound by the Privacy Amendment (Private Sector) Act 2000. The information provided by you will be used to register you for this seminar. If you do not wish for your details to be accessed by sponsors please tick here.

**PAYMENT**

- **I__l Cheque (payable to ADAVB Inc)**
- **Credit Card  I__l MasterCard  I__l Visa  I__l American Express** (Diners Club not accepted)
- **Card Number** __________ __________ __________ __________ __________ __________ __________ __________ __________ __________
- **Exp Date** __________ __________
- **I hereby authorise ADAVB to debit my credit card. Amount $**
- **Signature** ___________________________________________________________________
- **Date** ___________________________________________________________________

This document will be a TAX INVOICE for GST upon payment. All rates are GST inclusive.

By providing registration details and payment, I declare that I have read and understood all the terms and conditions stipulated herein.

**Contact ADAVB if your enrolment confirmation is not received 7 working days after the initial application**

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While ADAVB tries to accommodate specific dietary needs, it cannot guarantee that the requests can be met.