



THE UNIVERSITY OF BRITISH COLUMBIA
Faculty of Dentistry

360°



Oral Health Disparities: a 360° Review

JANUARY 23, 2018

RESEARCH DAY 2018

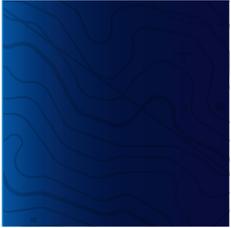
					
			Advancing oral health through outstanding education, research, and community service.		

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MESSAGE FROM THE DEAN



Research Day 2018

The eleventh annual UBC Dentistry Research Day is focused on oral health disparities. Canadians with the greatest burden of dental diseases tend to be members of socially and economically deprived segments of the population who are least likely to be able to afford dental care, from children to older adults. We will be introducing you to some of these Canadians while encouraging reflective thought on how to better enable access to oral health care so that it is equitable for all. The unique landscape of British Columbia and its many community clinics combined with local efforts of our Faculty are aimed at mitigating the effects of oral health disparities to those underserved Canadians. You will be hearing about some of these local and national efforts as we look at the challenges from several different aspects in order to gain a broader perspective and develop possible solutions for eliminating or reducing barriers to oral health care.

It is my pleasure to attend this my first Research Day at UBC Dentistry. I would like to acknowledge the incredible hard work by all individuals who contribute to the research efforts of our Faculty. We have 41 exciting posters to view that collectively will demonstrate the incredible diversity of work being done by all members of our Faculty. I am looking forward to listening to the presentations and celebrating with our poster competition award winners after lunch.

We are grateful to our Silver Sponsors Hu-Friedy, Scotiabank, Sinclair Dental, and Sunstar, as well as our Bronze Sponsor Straumann, for their commitment to supporting the success of this day. I would also like to thank Dr. Putnins and his organizing committee for making Research Day a success. Kudos as well to the Faculty of Dentistry staff who help with the program spearheaded by Mrs. Ingrid Ellis.

Enjoy the day, and I hope this outstanding program will help you to better understand oral health disparities and ways access to care issues can be addressed.

Best wishes,

Mary MacDougall, PhD
Professor and Dean, UBC Faculty of Dentistry

MESSAGE FROM THE DIRECTOR OF RESEARCH



*Thank you for attending
and celebrating our
eleventh UBC Dentistry
Research Day.*

Welcome to the beginning of our second decade celebrating Research Day. Our focus this year is of importance to all health care professionals. The high cost of dental care and the limited coverage available to patients who cannot afford treatment by conventional care delivery models have left many patients unable to make treatment choices that we as clinicians feel are best for our patients. This unfortunate disparity is our focus today.

We begin the day by reviewing health care delivery models, principles of oral health inequities, and drivers of those inequities. After our break, we will discuss dental care delivery models based on regional differences and steps dental professionals can take to help children with special health care needs. After lunch, we will review cultural competencies in dental education prior to our Keynote Address by Dr. Paul Allison from McGill University. Dean Allison chaired the committee that published the 2014 report on Improving Access to Oral Health Care in Canada.

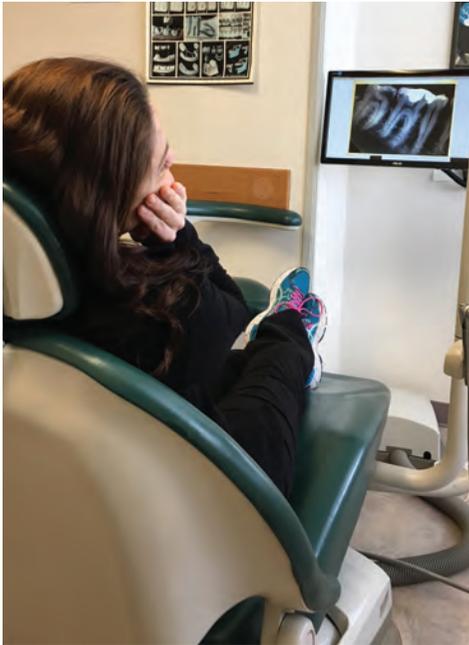
All audience members are strongly encouraged to visit the exciting research posters in the auditorium. This highlights the hard work being done by our undergraduate and graduate students, postdoctoral fellows, research associates, and faculty members. New for this year is the 3-minute poster presentations after lunch, which will highlight the great work being done by the poster competition winners. These winners were decided in the previous weeks by a panel of judges from the Faculty.

In addition, this booklet and day are made possible by the efforts of many people on the Research Day Organizing Committee. I would like to personally thank Fiona Beaty, Mario Brondani, Leeann Donnelly, Ingrid Ellis, Kavita Mathu-Muju, Jane Merling, Kim Schultz, and Terry Wintonyk for their hard work.

Do enjoy Research Day 2018.

Edward E. Putnins, DMD, PhD, DipPerio
Professor and Director of Research,
Graduate & Postgraduate Studies

BRIDGET'S STORY					



“Doctor, please help me!”

Chief Complaint: Bridget has a toothache and presents in the dental clinic as an emergency patient saying, *“It’s this one”* and pointing to her lower right molar. A visible sign of infection is indicated by the edema on the right side of her face.

Patient and Social History: Bridget is a 27-year-old single mother currently under medical treatment for depression. A significant portion of her childhood was spent growing up in the foster care system and Bridget was periodically relocated to different homes. During this time, she also experienced childhood emotional abuse. Bridget has tried to cope with this trauma by regularly self-medicating with alcohol for the past 17 years. She now lives in low-income assisted housing on Main Street in Vancouver with her 8-year-old daughter, Margot. Bridget has Ministry of Health disability assistance, which covers the cost of basic dental care, but declares, *“It is difficult to find a dentist who is willing to treat me and accept that insurance.”* She also states that finding a job has been difficult because her upper right front tooth is missing.

Oral Examination: Bridget’s gingiva shows generalized bleeding upon probing. Tooth #47 is percussion-sensitive and responds to heat testing with prolonged pain. Also noted are nine missing teeth as well as recurrent decay in eight previously restored teeth. Bridget’s remaining teeth are generally well-aligned as she did have orthodontic treatment when she was younger.

Missing teeth: #11, #15, #18, #25, #28, #45, #36, #37, #38

Cavitated teeth: #12MD, #15O, #21MDL, #24OMB, #26OD, #45DO, #46MOBD, #47MOB

Radiograph: Bridget has brought a recent radiograph of tooth #47, which was taken at a subsidized volunteer dental clinic that provides limited dental treatment for patients with inadequate financial resources.

Proposed Treatment Plan: You inform Bridget that her public insurance benefits will cover the cost of replacing the deficient restorations on her remaining teeth in addition to the extraction of tooth #47. However, Ministry of Health disability basic dental benefits are insufficient to pay for the necessary treatment to replace her missing teeth, including tooth #11. When you present the cost of replacing her teeth, Bridget breaks into tears. *“How can I turn my life around without my teeth?”* she sobs.

[Case courtesy of Dr. Mario Brondani]



Case Learning Objectives:

After reading and discussing Bridget’s story, participants should be able to:

- List the social determinants of health that influenced the oral health care inequities experienced by Bridget.
- Recommend the changes in delivery of oral health services to British Columbians that are needed to decrease barriers to care.
- Describe how receiving comprehensive dental care, including replacement of Bridget’s missing teeth, would potentially affect her quality of life.

UBC Dentistry Research Day 2018

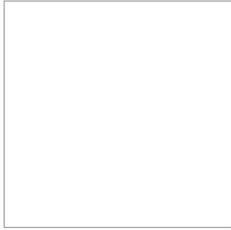
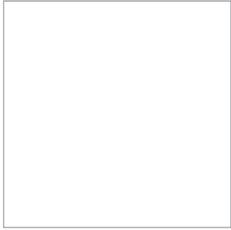
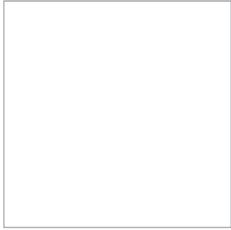
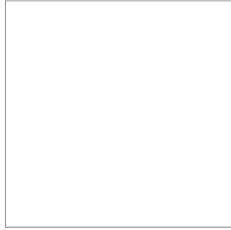
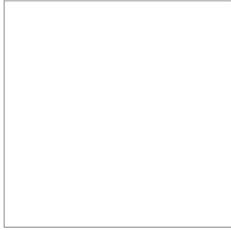
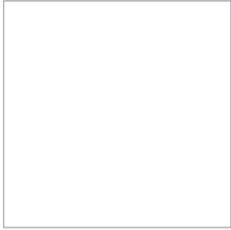
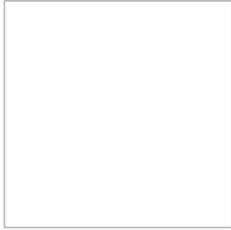
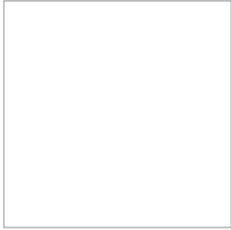
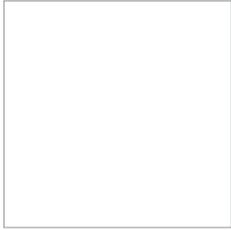
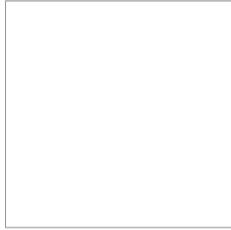
Oral Health Disparities: a 360° Review

Tuesday, January 23, 2018
Alma Mater Society Student Nest, Great Hall

8:00 - 8:30	REGISTRATION & CONTINENTAL BREAKFAST
8:30 - 8:40	WELCOME Dr. Mary MacDougall , Professor and Dean, UBC Faculty of Dentistry
8:40 - 9:15	INTRODUCTION & OVERVIEW OF THE DAY Dr. Edward Putnins , Professor and Director of Research, Graduate & Postgraduate Studies, UBC Faculty of Dentistry
9:15 - 9:50	ORAL HEALTH CARE FOR MARGINALIZED COMMUNITIES AROUND THE WORLD: THE TALE OF UNIVERSAL CARE Dr. Mario Brondani , Associate Professor and Director, Dental Public Health, Department of Oral Health Sciences, UBC Faculty of Dentistry <i>What is the oral health status of marginalized communities across countries with different dental care systems?</i>
9:50 - 10:25	ORAL HEALTH INEQUITIES — RESPONSES AND RECOMMENDATIONS Dr. Bruce Wallace , Assistant Professor, School of Social Work, University of Victoria, Victoria, British Columbia <i>How can health equity principles inform dentistry and responses to oral health inequities for vulnerable populations?</i>
10:25 - 10:55	DRIVERS OF ORAL HEALTH INEQUITIES Dr. Leeann Donnelly , Assistant Professor, Department of Oral Biological and Medical Sciences, UBC Faculty of Dentistry <i>How do structural vulnerabilities contribute to oral health inequity among marginalized populations?</i>
10:55 - 11:30	COFFEE BREAK
11:30 - 12:00	THE CHILDREN'S ORAL HEALTH INITIATIVE: A PARTICIPATORY APPROACH TO ADDRESSING ORAL HEALTH INEQUITIES AMONG FIRST NATIONS COMMUNITIES Dr. Kavita Mathu-Muju , Assistant Professor, Department of Oral Health Sciences, UBC Faculty of Dentistry <i>How do the needs of the dental care delivery infrastructure differ in the Canadian North compared to the private practice delivery system predominating in southern Canada?</i>
12:00 - 1:00	BRITISH COLUMBIA GENERAL DENTISTS' ABILITY TO PROVIDE CARE TO CHILDREN WITH SPECIAL HEALTH CARE NEEDS Dr. Shan Sun , Clinical Assistant Professor, Department of Oral Health Sciences, UBC Faculty of Dentistry <i>What active steps could individual practicing dentists take to improve access to care for CSHCN?</i>
1:00 - 1:30	LUNCH (BOX LUNCH PROVIDED) & RESEARCH POSTER VIEWING Posters by undergraduate students, graduate students, postdoctoral fellows, research associates, visiting scientists, and faculty members
1:30 - 2:05	RESEARCH POSTER AWARDS AND 3-MINUTE PRESENTATIONS Dr. Ravindra Shah , Associate Professor and Director, International Relations, UBC Faculty of Dentistry <i>Undergraduate & Graduate Students</i>
2:05 - 3:05	CULTURAL COMPETENCIES AMONG DENTAL STUDENTS AND RECENT GRADUATES Dr. Jolanta Aleksejūnienė , Associate Professor, Department of Oral Health Sciences, UBC Faculty of Dentistry <i>Does cultural competency teaching at the UBC Faculty of Dentistry need to be enhanced?</i>
3:05 - 3:15	IMPROVING ACCESS TO ORAL HEALTH CARE IN CANADA (KEYNOTE ADDRESS) Dr. Paul Allison , Professor and Dean, Faculty of Dentistry, McGill University, Montreal, Quebec <i>How can the profession come together to improve access to oral health care for vulnerable people living in Canada?</i>
	WRAP-UP & DISCUSSION

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MARIO BRONDANI, DDS, MSc, MPH, PhD
Dr. Brondani is a foreign-trained dentist from Brazil with an MSc in Biomedical Gerontology, a Master in Public Health, and a PhD in Dental Sciences. He joined the UBC Faculty of Dentistry in 2001 and is currently Associate Professor and Director of the Graduate Program in Dental Public Health and the President of the Canadian Association of Public Health Dentistry. Dr. Brondani's research and teaching focus mostly on dental public health and dental geriatrics. He has been a member of grant evaluation committees for the Canadian Institutes of Health Research, the Vancouver Foundation, and the New Zealand Dental Research Foundation.

BRUCE WALLACE, BA, MSW, PhD
Dr. Wallace is an Assistant Professor at the University of Victoria's School of Social Work. His research focuses on poverty, health, and equity. Over 15 years ago he was instrumental in the establishment of the Victoria Cool Aid Society's community dental clinic. He is a UBC alumnus who was awarded a doctoral degree in Craniofacial Science in 2012.

**PRESENTERS
 BIOGRAPHIES AND
 SYNOPSES**

- DR. MARIO BRONDANI**
- DR. BRUCE WALLACE**
- DR. LEEANN DONNELLY**
- DR. KAVITA MATHU-MUJU**
- DR. SHAN SUN**
- DR. JOLANTA ALEKSEJŪNIENĖ**
- DR. PAUL ALLISON**

ORAL HEALTH CARE FOR MARGINALIZED COMMUNITIES AROUND THE WORLD: THE TALE OF UNIVERSAL CARE
 Those Canadians bearing the greatest burden of dental disease tend to be members of socially and economically deprived segments of the population who are least likely to afford dental care. Arguably, a publically funded or "universal" approach to oral health care would mitigate the effects of poverty by eliminating or reducing affordability as a barrier to oral care; it is also believed to eliminate inequity. But Canada does not have a universally funded oral health care program. Based on evidence available in the literature and interactive conversations with key informants in four countries, I will present a comparative review of the oral health care system in Brazil, Canada, New Zealand, and Sweden based on two oral health outcomes: decayed-missing-filled-teeth in 12-year-olds and edentulism in adults between 20 and 79 years of age.

ORAL HEALTH INEQUITIES - RESPONSES AND RECOMMENDATIONS
 The current oral health care system in Canada works well for most people but is not effective in providing access to oral health care for vulnerable people. Oral health inequities are well recognized but there is less agreement on how to respond. Dental charity is beneficial but not enough. Is dentistry ready to take a leadership role in redressing the deficits in the oral health care system?



LEEANN DONNELLY, DipDH, BDS(DH), MSc, PhD
Dr. Donnelly is an Assistant Professor at the University of British Columbia's Faculty of Dentistry and an Associate Member in the UBC School of Population and Public Health. She is also the Community and Special Care Coordinator for the Dental Hygiene Degree Program. Her research focuses on oral health equity and access to care for vulnerable and marginalized populations.

DRIVERS OF ORAL HEALTH INEQUITIES

Oral health disparities among vulnerable and marginalized populations have been linked to an inability to access appropriate oral health care services. However, other drivers such as the availability, accessibility, accommodation, and acceptability of services also impact access to oral health care among Canadians marginalized by poverty, adverse childhood experiences, mental health, substance use, incarceration, and other forms of stigma and discrimination. An understanding of how these impact individuals can aid in addressing oral health inequity.

KAVITA MATHU-MUJU, DMD, MPH, CertPedDent
Dr. Mathu-Muju is as Assistant Professor at the UBC Faculty of Dentistry. She completed her DMD at the University of Manitoba in 1993 and received her MPH and Certificate in Pediatric Dentistry from the University of North Carolina, Chapel Hill, in 2006. Her research examines inequities in oral health experienced by children adversely effected by the social determinants of health.

THE CHILDREN'S ORAL HEALTH INITIATIVE: A PARTICIPATORY APPROACH TO ADDRESSING ORAL HEALTH INEQUITIES AMONG FIRST NATIONS COMMUNITIES

The Children's Oral Health Initiative is a national preventive dental program for children that has been implemented in over half of all First Nations and Inuit communities across Canada. This presentation will review the results of research that evaluated the program's effectiveness at improving access to preventive dental services as well as the value of developing community capacity to enhance oral health care for children living in geographically isolated communities.

SHAH SUN, DMD, MSc, DipPedDent
Dr. Sun is a Clinical Assistant Professor at the University of British Columbia's Faculty of Dentistry and a pediatric dentist at BC Children's Hospital. She obtained her Masters in Craniofacial Science and Diploma in Pediatric Dentistry from UBC. Her thesis was entitled "Professional Uncertainty in Providing Dental Care for Special Needs Children Among General Dentists in BC."

BRITISH COLUMBIA GENERAL DENTISTS' ABILITY TO PROVIDE CARE TO CHILDREN WITH SPECIAL HEALTH CARE NEEDS

Inequities in accessing oral health care are prevalent, especially for children with special needs (CSHCN). With fewer pediatric specialists in the province, the general dentist will likely be the primary point of access to dental care for many CSHCN. This presentation will share the results of a survey that investigated how CSHCN are currently managed by general dentists in order to improve our understanding of provider-related issues limiting access to care.

KEYNOTE ADDRESS



JOLANTA ALEKSEJŪNIENĖ, DDS, MSc, PhD

Dr. Aleksejūnienė has been employed at the UBC Faculty of Dentistry since 2005. She is currently Associate Professor and Chair of the Division of Preventive and Community Dentistry. Her main research interests are oral epidemiology, research methodology, behavioural interventions for school-aged children, and educational research including studies of cultural competency. She has served as a peer reviewer for numerous scientific journals and was recently invited to be an Associate Editor for BMC Public Health.

CULTURAL COMPETENCIES AMONG DENTAL STUDENTS AND RECENT GRADUATES

This study assessed self-perceptions of cultural competence by dental students and recent graduates of the University of British Columbia. A substantial proportion of participants admitted that their communication to patients from culturally diverse backgrounds was not effective, two-thirds were not confident in caring for patients from diverse cultural groups, and the majority perceived that sociocultural differences affect the provision of care. Through qualitative assessments, important culturally relevant topics and interactive training methods preferred by students for developing cultural competence were identified. This study concluded that cultural competence was perceived as important by both dental students and recent graduates but also partially deficient.



PAUL ALLISON, BDS, FDSRCS, MSc, PhD

Dr. Allison received his dental degree from University College London in 1986 and then pursued specialist training in oral and maxillofacial surgery, completing his Royal College of Surgeons of England fellowship exam in 1990. Next he undertook further specialist training in dental public health, completing a master's degree at University College London in 1994. Finally he moved to Canada and was granted a doctoral degree from McGill University in 1998. Dr. Allison obtained an Assistant Professor position at the McGill University Faculty of Dentistry in 1999. He was promoted to Associate Professor in 2003, became Director of the Quebec-based Oral and Bone Health Research Network in 2005, Dean in 2008, and was promoted to Professor in 2009. He is currently President of the Association of Canadian Faculties of Dentistry and President-Elect of the Canadian Academy of Health Sciences. Dr. Allison's research interests are psychosocial and social determinants of oral health and oral health care, including issues of access to health care. His research has focused on people with head and neck cancer, those with Down syndrome, young children, and other vulnerable groups. He recently chaired a CAHS panel preparing a report on improving access to oral health care for underprivileged Canadians and an ACFD working group preparing a report on admissions to dentistry programs.

IMPROVING ACCESS TO ORAL HEALTH CARE IN CANADA

The almost entirely private dental care system in Canada is failing large sections of Canadian society. It is important that the dental profession, including dental schools, take the lead in developing, evaluating, and promoting alternative models of dental care delivery. This presentation will describe how dental care in Canada is failing and explore potential areas for change and improvement, including the use of various forms of dental care delivered by different health professionals, in a variety of locations, using various systems to finance the care.



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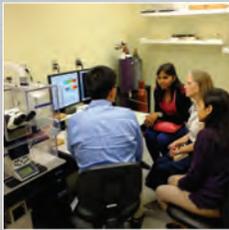
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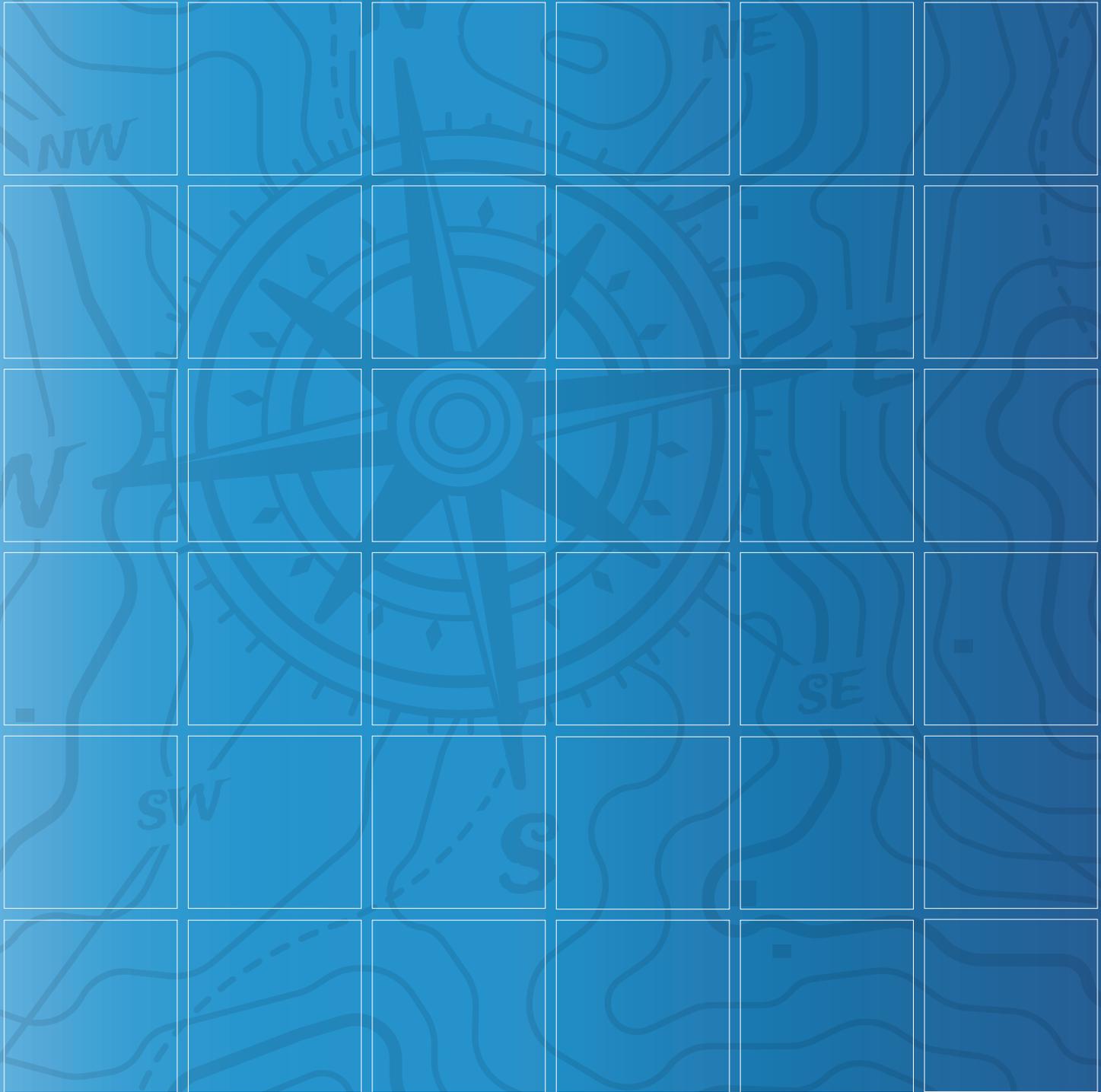
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