New endowed chairs at the University of Calgary:
- Dr. Adam Kirton, Alberta Children's Hospital Foundation (ACHF) Robert Haslam Chair in Pediatric Neurology
- Dr. Nicola Wright, ACHF Barb Ibbotson Chair in Pediatric Hematology

Dr. Meagan Roy (R3) received the Best Waugh Award. Distributed Learning and Rural Initiatives, for interest in pursuing a career in rural medicine.

2021 Calgary Black Achievement Awards Recipients:
- Dr. Morris Scantlebury, Medicine
- Dr. Nicole Johnson, STEM (Science, Technology, Engineering, Mathematics) Award

Dr. Simone Kortbeek, Fellow, Section of Gastroenterology, 2021 Helios UCMG Post Fellowship Training Award recipient.

Cumming School of Medicine’s 13th Annual Celebration of Excellence Award Recipients:
- Dr. Christian Farrier, Rhodes Scholar.
- Dr. Michele Ramien, Professional Association of Resident Physician of Alberta, Clinical Teaching Award.
- Dr. Scott McLeod, Professional Association of Resident Physician of Alberta, Well-being Award.
- Dr. Carly McMorris, Avenue Magazine’s, Calgary Top 40 under 40.

Alberta Children’s Hospital Research Institute (ACHRI) Child Health and Wellness Catalyst Award recipients:
- Branch Catalyst Awards: Drs. Brent Hagel and Suzanne Tough
- Seedling Catalyst Awards: Drs. Michelle Bailey, Candice Bjornson, Charlotte Foulston, Steven Greenway, Greg Gulicher, Shelina Jamal, Nicole Letourneau

Janet Aucocin, supervised by Dr. Brent Hagel, and Ash Kolstad, co-supervised by Drs. Brent Hagel and Carolyn Emery, received the Frederick Banting and Charles Best Canada Graduate Scholarship Doctoral Awards.

Dr. Gina Dimitropolous and Dr. Stephen Freedman were awarded UCalgary’s Peak Scholars in COVID-19 Innovation Excellence in clinical research.

Dr. Suzette Cooke, UCalgary Alumni of Distinction Award for Excellence in Education.

The Mama na Mtoto team, led by Dr. Jenn Brenner, was awarded the 2021 UCalgary Internationalization Achievement Award, International Program.

The Calgary Eating Disorder Program celebrated 20 years of interdepartmental collaboration.

2021 was a record-breaking year for promotions in the department with seven academic promotions and 14 clinical promotions.

Dr. Susan Samuel was awarded a Tier 1 Canada Research Chair in Precision Medicine and Data Science in Child Health

Dr. Mark Anselmo, 2020-2021 UCalgary PARA Resident Physician Well-being Award Honourable Mention.

Dr. Jovana Milenkovic, 2021 Dr. Marrie Hinton Award, Physician Wellness.

Dr. Khoshid Mohammad, Canadian Paediatric Society Emerging Leader in Neonatology Award.

Dr. Theresa Wu, Undergraduate Medical Education Award for clinical, adjunct and research faculty.

July 2021 marked the launch of the General Pediatrics Competence by Design Curriculum.

1. Dr. Cora Constantinescu and Dr. Jim Kellner, 2020-2021 Cumming School of Medicine CME & PD Top Teacher Award.
2. Dr. Anna MacKinnon, co-supervised by Dr. Lianne Tomfohr-Madsen, awarded the SSHRC Banting Postdoctoral Fellowship for work in perinatal mental health, parenting and child development.
3. Dr. Ian Mitchell, 2021 Canadian Paediatric Society Alan Ross Award.
4. Dr. Janice Heard, University of Calgary ARCH Award in Alumni Service.
5. Dr. Meagan Mahoney, author of “Meranda and the Legend of the Lake,” was featured in the Globe and Mail, Must Read for Fall list.

The Department of Pediatrics Gender Equity and Diversity Report was released.

Dr. Susa Benseler and Dr. Suzanne Tough were inducted into the Canadian Academy of Health Sciences.

Dr. Keith Yeates was named as one of the newest Fellows for 2021 by the Royal Society of Canada (RSC).

Dr. Carolyn Emery and Dr. Nicole Letourneau were named 2021 Killam Annual Professors and recognized for their remarkable achievements in research, teaching and community involvement.

A resident-led mental health advocacy project, led by Dr. Rebecca Hay, received praise for enhancing youth mental health education.

Dr. Ellie Vyver, 2022 Society for Adolescent Health and Medicine (SAHM) International Chapter Award.

Drs. Katherine Bright, Michèle Hébert, and Anna MacKinnon completed the Canadian Child Health Clinician Scientist Program Certification.

A thank you to Drs. Juliet Guichon and Ian Mitchell for their leadership and advocacy in returning fluoride to Calgary’s tap water.

Dr. Suzanne Tough was recognized by the Calgary Public Library for her work with Calgary’s youth.

Dr. Stephen Freedman and Dr. Abhay Lodha were elected as members of the American Pediatric Society (APS).

Think2Switch was awarded $150,000 to develop a novel innovation for children with severe physical disabilities and named the inaugural winner of the ST Innovations Challenge.

Dr. Nalini Singhal, 2021 recipient of the Global Child Health Award.

Dr. Deborah Dewey appointed as an Innovate Calgary e2i Principal Investigator and her postdoctoral fellow, Dr. Gillian England-Mason was awarded an e2i fellowship.

The National Institutes of Health in the United States is providing more than C$11 million to support a six-year study led by Dr. Stephen Freedman to investigate a new treatment for E. coli in children.

Dr. Ayman Abou Mehrem and Dani Smith have trained over 180 health care, education, and administration professionals in the EPIQ Workshop.

The Calgary Couplet Care Pilot Program went live the summer of 2021 at FMC to reduce the separation of mothers and babies resulting from NICU admission.

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Dr. Theresa Wu, Undergraduate Medical Education Award for clinical, adjunct and research faculty.

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MESSAGE FROM DEPARTMENT HEAD

I am continually thankful and honoured to work alongside a group of wonderful individuals who put compassion and care at the center of everything that they do. Year two of the pandemic has been very challenging for everyone, filled with so many uncertainties and it has demanded much from each one of us. And yet, through it all, you continue to show up for each other, our patients and families, and our community; to provide excellent care with a commitment to compassion and keeping everyone safe. Your collective efforts are an inspiration. Thank you!

With a new year ahead of us, I hope we take the time to celebrate all the amazing work that we achieved in 2021.

This report is a celebration of the hard work and unwavering commitment our department has put into patient care, administrative services, research, and education. It includes just some of the many stories about the remarkable work our members have done; for example, in vaccine advocacy, youth and adolescent mental health, medical education, research and innovation, and work to acknowledge equity, diversity, and inclusion within our department.

I am in awe of our members’ incredible and collaborative work, and I am so excited to share these stories and recognition with everyone. The report highlights the breadth of award recognition our members have received internally with the department’s CARE Awards and Innovation Awards and external recognition at the local, national, and international levels.

As we navigate this year ahead, I know we will do so with kindness and compassion. We will continue to uplift one another and celebrate our collective successes. I draw inspiration and strength from the resilience and commitment displayed by each member of this department, and I look forward to celebrating your wins, big and small. The year will bring transition to a new department leader and I know that our future together will be bright. It has been my privilege to serve the department in the interim role; I could not have done so without the support, guidance and advice of a truly outstanding leadership team.

My deepest gratitude and thanks to everyone who helps to live out our vision, mission, and values day in and day out - from our clinical teams, residents and trainees, research teams, administrative support staff, and everyone in between, thank you for everything that you do.

Dr. Michael Leaker
Associate Professor and Department Head (Interim)
Deputy Head, Clinical Affairs
Section Chief, Pediatric Hematology
Department of Pediatrics
VISION, MISSION, VALUES

OUR VISION
Excellence in each of our four CARE Pillars:
Clinical Service
Advocacy and Leadership
Research
Education

OUR MISSION
To promote, maintain, and restore health in children by:
Delivering high quality, evidence-based clinical care
Training caregivers at all levels
Innovation and dissemination of new knowledge

OUR VALUES
Compassion
Respect
Integrity
Collaboration
Leadership
Innovation
CLINICAL HIGHLIGHTS

2.5M
CATCHMENT POPULATION

300+
CLINICAL MEMBERS

24
SUBSPECIALTY CLINICAL SECTIONS & UNITS
The Department of Pediatrics consists of almost 400 clinical and non-clinical faculty, expertly contributing to excellence in clinical care delivery, advocacy and leadership, research and education. We continue to provide care to a community of approximately 2.5 million people while supporting the advancement of health care at a national and international level.

This department has, once again, come together after another tumultuous year of uncertainty and unpredictability. The COVID-19 pandemic has seen our members rise to the occasion and contribute where they can. A number of my colleagues volunteered to support those at the frontlines of the pandemic, jumping in to provide care on adult COVID units. Others became vocal advocates for public health and education. In a time of uncertainty and misinformation, my colleagues became reliable sources of answers for colleagues and for our community at large. While others, helped support our patients on the home-front during staffing shortages.

To all of my colleagues, thank you for your dedication to our patients and our community. It has been a true privilege to support our department over this last year.
ADVOCACY IN OUR COMMUNITY AND BEYOND

ADVOCATES IN OUR DEPARTMENT
For the past 24 months, Dr. Cora Constantinescu has become well-known for her work in vaccine advocacy at both a local and national level.

Dr. Constantinescu has led our community in vaccine education and advocacy for many years. Over the course of the COVID-19 pandemic, her educational influence has broadened to multi-media, appearing regularly as on television, news outlets and radio. She has become well-known for clarifying myths and misinformation about vaccines in a gentle and compassionate manner. On top of her regular clinical duties, Dr. Constantinescu is regularly seen providing community outreach for those who work in healthcare and education. She has provided a number of community engagement sessions, particularly to communities with low vaccine uptake. A recent town hall in the Buffalo region reaching an attendance of 8000 people.

Along with her work at the Vaccine Hesitancy Clinic and being part of a Canada-wide national surveillance group to review adverse events after immunization, Dr. Constantinescu is also the co-lead for “19 to Zero”. Formed back in August 2020, “19 to Zero” is a dedicated coalition of academics, public health experts, behavioural economists, and creative professionals working to understand, engage and shift public perceptions around COVID-19 and vaccination. Much of the content of “19 to Zero” was created or edited by Dr. Constantinescu. The primary aim was to reach individuals and communities who had questions, those who had lost trust amongst the rapidly changing recommendations, and those for whom accessibility to accurate information was a challenge. This program aims to be a consistent, accurate, and transparent resource. “[19 to Zero] has broadened my mind to solutions and possibilities I could never have done otherwise,” says Dr. Constantinescu.

“Overcoming vaccine hesitancy is usually about three things: confidence, complacency, and convenience,” says Dr. Constantinescu, “with the most challenging aspect being confidence.”

Tailored interventions have become important. Finding influential vaccine champions amongst minority groups have become crucial in building trust and providing vaccine confidence, particularly in the earlier stages of COVID-19 vaccine rollout. Dr. Constantinescu attributes the high vaccine uptake in Canada to the collective effort and hard work of all healthcare workers and vaccine champions who work tirelessly at the community level.

Through her countless media appearances and healthcare worker outreach, Dr. Constantinescu has been able to reach an audience far and wide and has brought our community one step closer to being safer.

You never think about making a difference on a grand scale. The best part is hearing comments from individual people that I’ve been of help to them.
In 2021, the Calgary Eating Disorder Program celebrated 20 years of interdepartmental collaboration.
Drs. April Elliott, Ellie Vyver and Jorge Pinzon have been at the forefront of advocating and addressing the exponential increase of eating disorders, anxiety, somatic symptoms, and related disorders in children and youth over the pandemic. The increased incidence of these disorders in children and adolescents has been a pattern seen across the country and continues to heavily impact our youth today.

The Eating Disorder Clinic saw a huge increase in referrals from the community, a pattern consistent with much of the literature coming from places where COVID lockdowns were first implemented. To deal with this dramatic influx of kids in need, a quick revision of processes was required to put patients and families first. The Section of Adolescent Medicine took steps to recognize the impact this had on the work of their colleagues: community pediatricians, emergency department physicians, and hospital pediatricians. Protocols for inpatient admissions were revised with the help of pediatricians from a number of subspecialties to determine ways to best care for these patients when they presented to the emergency department. Drs. Caroline Chee, Shirmee Doshi and Katie Soper were integral with helping to develop a collaborative care plan for patients and families upon presenting to the Emergency Department.

School closures, the lack of access to sports and recreational programs, and social isolation have taken a toll on Canada’s youth. The need to support the mental health of our children and adolescents has never been greater. The term "#codePINK" was developed by Children First Canada as a way of recognizing this crisis as a pediatric emergency. It has created an online community of pediatric mental health advocates from across the country, such as Dr. Elliott and her colleagues, to help recognize and address the devastating impact of the pandemic on the mental and physical health of children and youth.

"We need to look at things from a biopsychosocial perspective in all areas of child health."

DR. APRIL ELLIOTT

Over the years to come, Dr. Elliott sees the need for the medical community to integrate mental and emotional well-being with the physical health of our youth. This holistic approach encapsulates the practice of Adolescent Medicine, understanding the individual from their biologic, psychologic and societal contexts and working towards comprehensive health.

This kind of work is biopsychosocial, it takes not only the knowledge of the medicine, but also the knowledge of how to show up in a way that is nurturing, compassionate and empathetic.

DR. APRIL ELLIOTT

The Adolescent Medicine physicians pride themselves in taking a biopsychosocial approach to every patient encounter. To develop a family-centered care plan, they take the time to understand the medical, physical, psychologic and social impacts an eating disorder can have on the well-being of an adolescent. Recognizing the mind-body connection is sometimes overlooked in the traditional medical model, but this team continues to lead with a holistic approach to the health of their patients.

Dr. Ellie Vyver from the Section of Adolescent Medicine was the 2022 Society for Adolescent Health and Medicine (SAHM) International Chapter Award recipient.
Professional Affairs within the Department of Pediatrics has been busy over the last year!

Leadership within our department came together early this year to look at organizational factors that contribute to physician exhaustion and burnout. A department-wide wellness strategy and wellness toolkit for medical leaders were developed to support the translation of these organizational strategies at the section-level. A Wellness Council was created, and this group meets monthly to help action interventions. We will continue to monitor our progress with our longitudinal wellness metrics measured in collaboration with Well Doc Alberta.

The Gender Equity and Diversity (GED) Task Force was created to assess gender equity within the Department of Pediatrics. The GED Task Force approached this through:
- A survey of department physicians and faculty to understand member perceptions of gender equity,
- Comparison of these survey results to the collection of objective metrics from within the department.

The findings and recommendations of the report is available here.

Over the last 10 years, the department’s leadership has made an effort to support and promote women physicians, but gender disparity still remains. The GED Task Force made six recommendations and utilized this report as the opportunity to start a conversation. The department remains committed to a future where our diversity is celebrated.

This last year has been a challenging one for our health care colleagues. Thank you to the many department members who stepped up to support our system in our COVID response.

Your leadership and your contributions are so appreciated!
FOSTERING EQUITY, DIVERSITY AND INCLUSION IN THE DEPARTMENT OF PEDIATRICS
I urge all members to begin their journey of self-education on systemic racism and become part of the change towards a more equitable and just medical community. We can take small steps in our teaching to look at how we speak of race and ethnicity in our lectures and conversations. We can look at how we interact with our patients, students, and colleagues from communities different from ourselves. We can reflect on our privilege that is extended to us and see ways to use that privilege for the good of others in a less powerful position.

In conjunction with her clinical work, the last 18 months for Dr. Nicole Johnson has focused on advocacy and education in equity, diversity, inclusion, and anti-racism strategies.

“There are many spaces I have to navigate to prove my worth and capabilities while avoiding pitfalls within racist systems and structures. At times you navigate these spaces alone or with mostly non-Black allies,” says Dr. Johnson. She has always understood that representation matters as one of Canada’s few Black women in pediatrics and pediatric subspecialties. As a leader in medical education, she continues to be a role model for Black youth so that they can see themselves in medicine and academics.

Two significant events moved her to be more conscious and explicit in her anti-oppression efforts: the inhumane death of George Floyd, followed by the Black Medical Students Association’s Calls to Action for the Cumming School of Medicine (CSM). These two big catalysts urged her to look at more ways to be a changemaker and to speak up against systemic racism. With the support of the Department of Pediatrics and Section of Rheumatology, she has taken on leadership roles with the Canadian Rheumatology Association (CRA), the CSM, and the Black Physicians Association of Alberta (BPAA).

Dr. Johnson established two mentorship programs for Black medical students this past year. The first program provides a platform for Black medical students and physicians to meet virtually to provide support for navigating the medical system. Another is a longitudinal program that pairs Black, first-year medical students with a faculty member for ongoing one-on-one mentorship so that they can feel supported throughout their educational journey. Students and faculty alike have recognized these meetings to be both meaningful and inspiring.

This past fall, Dr. Johnson and nine physicians from different academic institutions across the United States led the highly attended “Addressing Microaggressions in Medical Education Workshop” delivered to the Department of Pediatrics.

Dr. Johnson is currently pursuing the Anti-racism Award of Achievement from the University of British Columbia to learn more about anti-oppression strategies to further inform her work and to uplift others. She looks forward to delivering more workshops with allies in our department and assisting post-graduate programs with tools and strategies to become leaders in anti-racism medical programs within Canada.

Dr. Nicole Johnson was awarded:
- The 2021 STEM (Science, Technology, Engineering, Mathematics) Calgary Black Achievement Award for her contributions to the Black community and inspiring a generation of future Black scientists, doctors, and researchers.
- Class of 2020 Clerkship Honor Roll, Cumming School of Medicine, University of Calgary.
The Department of Pediatrics research portfolio has continued to show strength and resilience through another challenging year.

Throughout 2021, the Department of Pediatrics Research Leadership Team worked closely with our partners, the University of Calgary Cumming School of Medicine, the Alberta Children’s Hospital Research Institute (ACHRI), Alberta Health Services (AHS), and site administration to ensure research operations at the Alberta Children’s Hospital remained open.

Through cooperation and collaboration with research teams, additional suspensions of research activities were mitigated at our hospital, enabling teams to launch new studies, recruit participants, conduct research visits, all while managing the ever-present risk of COVID-19. As a result of methodologic adaptations and some creative thinking, there is minimal interruption to research operations even though much of the work we do as researchers continues to happen through virtual means.

Several of our research teams have demonstrated how to overcome the obstacles we have faced in the past 18 months. For example, our Pediatric Emergency Research Team (PERT) secured over 4.9 million dollars in peer-reviewed funding and successfully launched over 10 new studies in the Emergency Department.

Our rising star early-career investigators have also shown how hard work, the ability to adapt, and a passion for providing research-informed care to their patients can lead to innovative project ideas. Dr. Serena Orr was successful in obtaining two CIHR early-career grants and is leading an investigator-initiated clinical trial for a pediatric migraine intervention, all within the first few years of being an academic faculty member. These are only a few of the numerous examples of both new and established research programs poised for growth in the coming years, and we can’t wait to see what’s next.

Child health research is essential for the advancement of clinical care and improved outcomes for patients and their families. We have been very fortunate to play a central role in the rollout of the Child Health and Wellness Strategy, led by our partners at the ACHRI. We have much to look forward to as part of this innovative, multidisciplinary, and diverse research approach is extended across the University of Calgary and our broad, connected communities. This includes more accessible research support and infrastructure, expanded opportunities for clinical and research trainees, and an enhanced network of partners locally, provincially, and beyond.

With much to celebrate this year amidst ongoing challenges, it is a wonderful and exciting time to be a child health researcher in the Department of Pediatrics.
I want to inspire junior clinicians, work on ways to build them up to achieve success in scientific and academic careers, and help them make a difference.

DR. SUSAN SAMUEL
WHAT MADE YOU GO INTO RESEARCH?
I want to do research because I want to make a difference. My family has suffered a lot of health challenges over the years, and we appreciate the impact medical science can make in one’s life.

It was in my first year of fellowship when one particular mentor recognized my interest in epidemiology and statistics, and encouraged me to pursue a Master’s Degree in Epidemiology at the University of Toronto. After completing my degree, I moved to Alberta. Here I met a great mentor, Brenda Hemmelgarn, the current Dean of the Faculty of Medicine & Dentistry at the University of Alberta. She saw my potential, encouraged me, and helped me develop as a clinician scientist.

This is why I am investing in scientist development programs and deeply committed to bringing up individuals from underrepresented groups like my own. Often times, students coming from my culture don’t have role models or a network of connections. You need a broker to help guide you through these things and that is what my role in the Alberta Children’s Hospital Research Institute (ACHRI) is about – connecting learners with the right mentor. We need to make sure all learners have equal opportunities for training, awards, and mentorship.

WHAT MOTIVATED YOU TO JOIN THE CANADIAN CHILD HEALTH CLINICIAN SCIENTIST PROGRAM (CCHCSP)?
I like to build people up and invest in people. CCHCSP is a program designed to develop skills for emerging clinician researchers to do great research, but also to become influential and resilient leaders.

I also saw an opportunity to innovate CCHCSP and fill in gaps in leadership to address diversity. My team and I spent an incredible amount of time over the last 3 years to increase and diversify the pool of applicants. These policies are working, and we hope to do more in the future.

ADVICE TO JUNIOR RESEARCHERS?
Invest in research training when you have the opportunity. Find a formal scientific mentor and work closely with that person. The mentor will help guide you through the different milestones you need to reach to be a successful clinician scientist or clinician researcher.

Deliberately craft your career towards a career in science or academic medicine. Scientific and academic careers are not created by accident. They are carefully curated, crafted and methodically built over time. Research is for those who want to think critically and engage in a systematic and structured method of thought. One must be willing to invest time and dedication in one focused area, to overcome failure and disappointment, to find it in themselves (with the right support around them) to persevere towards the goals they have set.

WHAT ARE YOU LOOKING FORWARD TO IN THE YEARS TO COME?
I strive to make a difference for my patients through my clinical work and research. I want to see solutions for the childhood health problems that I have committed to work on, such as nephrotic syndrome. I want to continue to support trainees and junior investigators by providing mentorship, tools and resources to succeed.
Dr. Serena Orr is an emerging research leader in our midst. Like many in the department, Dr. Orr’s time is split between clinical and research work and she is currently transitioning to her role as Clinician Scientist. Her interest in mental health and in the brain led her to complete a Bachelor of Science with Honours in Psychology. It was through this honours program that she was first exposed to the research world through a brain mapping project at the Montreal Neurological Institute. Her undergraduate work ultimately led to an interest and focus on headache disorders and migraine in children and adolescents. Dr. Orr’s work in this area allows her to marry her interests in neurology and mental health and to take a holistic approach to her patients.

Since joining the department in 2019, she has begun to collaborate with a number of colleagues with overlapping interests. She works closely with Dr. Ashley Harris as co-leads for a Canadian Institute of Health Research (CIHR) funded study to learn more about the biology of migraine in children and adolescents. For her CIHR Early Career Investigator award project, she is working closely with Dr. Stephen Freedman and Dr. Adam Kirton to improve care and treatment options for children presenting to emergency departments with migraine attacks.

In 2021, Dr. Orr was the recipient of a CIHR Project Grant and a CIHR Early Investigator Award in Maternal, Reproductive, Child and Youth Health.

Dr. Orr is always thinking of the next study and how to advance knowledge and treatment options for children and adolescents with headache disorders. Her overarching goal is for her research to be impactful, change practice, and have patients engaged from day one. All research questions must be important to key stakeholders and designed in a way that is friendly to patients and families. A focus of hers is to integrate more patient, family and other stakeholder engagements in the research process.

Dr. Orr is looking forward to many future research opportunities. One such study focuses on the mental health predictors of outcomes in children and adolescents with migraine by examining different factors such as parent-child interactions and sleep. Second, is a study that aims to understand the biology of migraine in children and adolescents to better target treatments. Lastly, in her CIHR Early Career Investigator grant, Dr. Orr is excited about starting a pilot trial study that aims to assess a new neuromodulation-based treatment option for children and adolescents presenting to the ED with migraine attacks. In this project, Dr. Orr and her team have heavily focused on patient and provider engagement.

[The Department of Pediatrics] has been a great place for me to start my career, I’ve been really happy here, the biggest thing about being here are the people and the collaborations I’ve established.

In 2021, Dr. Orr was the recipient of a CIHR Project Grant and a CIHR Early Investigator Award in Maternal, Reproductive, Child and Youth Health.
CANADIAN INSTITUTES FOR HEALTH RESEARCH

Numerous Department of Pediatrics members were CIHR project grant recipients for studies and innovation that will help to advance and strengthen our health care system.


Dr. Nicole Letourneau, CIHR Operating Grant, Understanding and mitigating impacts of COVID-19 on children, youth and families.

Dr. Ayman Abou Mehrem, CIHR Spring 2021 Project Grant recipient, “Alberta (AB) Collaborative Quality Improvement Strategies to Improve Outcomes of Preterm Infants 32 - 36 Weeks’ Gestation: A Stepped-Wedge Cluster Randomized Trial (ABC-QI Trial).”

Dr. Serena Orr, CIHR Project Grant, “Elucidating brain inhabitation and excitation in pediatric migraine.”

Dr. Serena Orr, 2020 CIHR Early Career Investigator in Maternal, Reproductive, Child and Youth Health operating grant, “A pilot clinical trial of a new neuromodulation device for treating children and adolescents visiting the emergency department with acute attacks of migraine.”

Dr. Morris Scantlebury, CIHR Spring 2021 Project Grant recipient, “The role of the acid sensing ion channel (ASIC) 1a in the mechanism of action of the ketogenic diet in infantile spasms.”

NSERC DISCOVER GRANTS & SSHRC INSIGHT GRANTS

These grants help promote and maintain a diversified base of high-quality research and foster research excellence to build a better understanding about individuals, groups and societies.

NSERC Discovery Grants
- Dr. Julia Jacobs LeVan, “Understanding brain maturation: How spontaneous cortical high frequency oscillations develop and affect executive function during childhood.”
- Dr. Pierre LeVan, “A research program into the neuronal basis of functional connectivity.”

SSHRC Insight Grants
- Dr. Deborah Dewey and Faculty of Kinesiology collaborators, “The effect of peer-to-peer video modelling on socialization and physical literacy with autism spectrum disorder.”

OTHER

Canadian Paediatric Society, Alberta Medical Association, Alberta Innovates, Owerko Catalyst Grant

- Dr. Rebecca Hay (R3) and mentor, Dr. Amonpreet Sandhu, Canadian Paediatric Society Paediatric Resident Advocacy Education Grant recipient and 2020-21 Alberta Medical Association Emerging Leaders in Health Promotion Grant recipient and Canadian for her project entitled: “Minding the gap – youth mental health empowerment and education outreach initiative.”
- Dr. Lara Leijser along with ACHRI researchers Drs. Amy Metcalfe and Donna Slater received $5M in funding to advance maternal and newborn care research.
- Dr. Steven Greenway received an Alberta Innovates grant for Calgary-based research to help determine best treatment options for congenital heart defects.
- Drs. Sheila McDonald, Suzanne Tough, and their collaborators were awarded an Owerko Catalyst Grant for their study entitled: “Identifying Developmental Risk and Protective Factors to Prevent Chronic Pain in Children.”
As we moved into our second year of the pandemic, our educators and trainees have continued to adapt and employ new strategies to promote excellence in medical education in a complex environment. Members of the Department of Pediatrics are committed to undergraduate and postgraduate medical education, and the interest and excitement within medical education continues to grow.

Many of our departmental members received prestigious educator and teaching awards in 2021 for their contributions to medical education. This year, Dr. Theresa Wu was celebrated as our departmental CARE Educator of the Year and was also recognized as the UME Educator of the Year.

Our department continued to bring forth new educational initiatives despite the difficult landscape of the pandemic. Our community pediatricians, including those in small urban centers throughout Alberta, continued to provide valuable opportunities for clinical teaching and leadership to clerks and residents, both in person and virtually. Under the leadership of Program Director, Dr. Amonpreet Sandhu, our general pediatrics program transitioned to competency-based medical education.

Through faculty education, departmental members were able to fulfill an integral role in this process by participating in new forms of evaluation, competency committee meetings and faculty advising. This year also introduced innovative new programs into residency training such as the “Resident as Teacher” curriculum and the POCUS (Pediatric Point of Care Ultrasound) clinical rotation, both to excellent reviews. Our faculty continued to participate in Pediatric CME through virtual education, including weekly grand rounds and our annual pediatric update moved to an online platform.

Our department is proud to highlight a few members who have achieved outstanding work this year. Dr. Aleksandra Mineyko is a Pediatric Neurologist who also holds the role as Director of Learner Resources for PGME, University of Calgary. Along with her team at PGME, she has successfully launched a program to support postgraduate learners in difficulty. Dr. Erika Vorhies, a Pediatric Cardiologist, is just one example of an outstanding educator in our group, who demonstrates excellence in clinical teaching and her behind-the-scenes committee work in residency education.

Our resident members are committed to advocacy and wellness within our community. Senior resident, Dr. Jovana Milenkovic, received the Dr. Marnie Hinton award for her work and commitment to Physician Wellness. Finally, Dr. Rebecca Hay recognized the mental health crisis brought on by the pandemic and organized twenty-two pediatric residents to meet with junior high students in Calgary schools to discuss mental health and provide them with access to mental health services.

Medical education in our department is vibrant, transforming and thriving. Our trainees are a motivating force to create and maintain a comprehensive and fulfilling educational experience. As Deputy Head of Education, I am humbled by the adaptability and productivity of our members committed to education, even in the midst of our own personal challenges. Our entire department plays an integral role in creating a welcoming environment for learners. As we start 2022, I am optimistic that we can come together once again and reflect on our successes over the last two years.
EDUCATORS IN OUR DEPARTMENT

PAVING THE PATH FORWARD

EDUCATORS IN OUR DEPARTMENT
It has been eight years since Dr. Erika Vorhies joined the Department of Pediatrics and seven years since she stepped into Educational Lead for Pediatric Cardiology. Dr. Vorhies continues to enjoy this role because of the opportunity it provides to work with students and support them at different points in their rotation. She joined the Residency Program Committee in 2015 as a pediatric subspecialty representative; this role helped gain her insight and experience as to how post-graduate programs are structured. Her latest experience in education is in her involvement with the Pediatric Postgraduate Medical Education (PGME) Competency Committee, which looks at students’ overarching progress and growth during their training.

When asked what drives her to be involved in medical education, Dr. Vorhies mentioned that she has always been interested in teaching, even during her time as a trainee. She loves seeing learners grow and become more confident as they grasp concepts. Dr. Vorhies has most enjoyed watching students develop from junior residents to practice-ready pediatricians.

Dr. Vorhies has had many individuals serve as role models throughout her career, and their teachings are instilled in the way she approaches medical education. “Even as an educator, there is always something new to learn,” is a phrase that has stuck with her throughout her career and has helped her to navigate her role within medical education.

Dr. Vorhies is currently completing a Masters in medical education. Through this, she’s looking to be more involved in various levels and gain the knowledge to continue making valuable contributions in the medical education field. She is also excited to continue supporting the growth of trainees and to see the effects of the transition to a competency-based medical education program in their learning experience.

What is your advice to junior faculty interested in developing expertise in medical education?

“Approach those within medical education and ask where the need is. Get involved, even if it’s a small role, encourage yourself to grow and try something new.”
Dr. Aleksandra (Aleks) Mineyko is a Pediatric Neurologist and the Director of Learner Resources in the Postgraduate Medical Education (PGME) program at the University of Calgary (UCalgary) since 2020. She supports program directors and teaching faculty across the Cumming School of Medicine (CSM) who work with learners who are struggling in any CanMEDS areas of competency.

Dr. Mineyko has always enjoyed teaching and education, and during her time as Program Director for Pediatric Neurology, she identified a gap in the availability of evidenced-based and consistent approaches for program directors who are looking to support struggling residents. Through her work in PGME at UCalgary, she and her team gather and review concepts and practices that have been proven to be successful and share these strategies with residency programs. This provides a hub of resources and guidance for program directors to help support their residents.

The COVID pandemic has heavily affected education. Restrictions implemented at the beginning of the pandemic altered the learning experience of residents and reduced the amount of in-person time supervisors have with their learners. These COVID changes, however, also created opportunities in the delivery of medical education, such as the establishment of virtual meeting spaces. Having this virtual space has been extremely helpful in Dr. Mineyko’s role and for her team. It has become much easier to build relationships and to connect with residents and program directors across the university hospitals and outreach and rural teaching settings.

“Many don’t realize that big improvements do happen. People often say that you can’t change poor communication, for example, when in fact you can. You can train communication skills in physicians who are, as a group, highly motivated to learn. A few small interventions can make a huge difference.”

Dr. Mineyko has enjoyed her time in this supportive medical education role. This role has provided her with the opportunities to grow as an educator, to network with other education leaders, and to learn from others.

Dr. Mineyko has been integral in advancing individualized processes to support the growth and development of CSM residents, tailoring interventions to specific learning needs. Improvement in communication skills, recognizing opportunity in receiving feedback, and transitioning to a growth mindset have all helped shape a positive experience for those needing the supports of this team. This curated approach to the individual has seen positive outcomes. Dr. Mineyko is proud of the processes and resources that are now in place to help residents succeed.

“I want people to know that we are accessible, to contact us anytime. Sometimes people call us for general information not just for remediation or failed rotations. I think that’s important to know.”

Dr. Mineyko and her team provide information on how to support your learners through times of struggle and difficulty.

“Resources to support learners in academic difficulty.”
## OUR DEPARTMENT
2020-2021 ORGANIZATION & LEADERSHIP

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**Dean, Cumming School of Medicine**  
University of Calgary  
Dr. Jon Meddings

**Medical Director, Calgary Zone**  
Alberta Health Services  
Dr. Mark Anselmo

<table>
<thead>
<tr>
<th>Position</th>
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<tbody>
<tr>
<td>Department Head Pediatrics</td>
<td>Dr. Michael Leaker</td>
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<tr>
<td>Deputy Head Clinical &amp; Strategic Affairs</td>
<td>Dr. Michael Leaker</td>
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<tr>
<td>Deputy Head Education</td>
<td>Dr. Leanna McKenzie</td>
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<tr>
<td>Deputy Head Professional Affairs</td>
<td>Dr. Sarah Hall</td>
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<td>Deputy Head Research</td>
<td>Dr. Adam Kirton</td>
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<tr>
<td>Department Manager</td>
<td>Cecilia Lee</td>
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<tr>
<td>Administrative Assistant to Department Head</td>
<td>Debbie Wall</td>
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<tr>
<td>AMHSP Controller</td>
<td>Marco Romanzin</td>
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<td>Billing Coordinator</td>
<td>Tammy Bouchard</td>
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<td>Mary Garcia</td>
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<td>Financial Analyst</td>
<td>Vincent Bali</td>
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<td>Manager of Administrative Services</td>
<td>Michelle Bairstow</td>
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<tr>
<td>Manager of Administrative Services</td>
<td>Jessica Phillips</td>
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<tr>
<td>Physician Affairs Coordinator</td>
<td>Chantelle Cini</td>
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<tr>
<td>Physician Remuneration and Contract Coordinator</td>
<td>Karen Rudd</td>
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<tr>
<td>Senior Consultant Child Health Research</td>
<td>Nicole Romanow</td>
</tr>
<tr>
<td>Research Assistant</td>
<td>Ashton Chugh</td>
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PEDIATRIC SECTION CHIEFS & UNIT DIRECTORS

Adolescent Medicine – Dr. April Elliott
Cardiology – Dr. Kim Myers
Child & Family Health Research Unit – Dr. Gerry Giesbrecht
Community Pediatrics – Dr. Natalie Forbes
Deputy Section Chief – Dr. Caroline Chee
Child Abuse Service – Dr. Jennifer MacPherson
Social Pediatrics Unit - Dr. Jennifer MacPherson
Critical Care – Dr. Simon Parsons
Deputy Section Chief – Dr. Jonathan Gilliland
Pediatric Transport – Dr. Ping-Wei Chen and Dr. Eli Gilad
Developmental Pediatrics – Dr. Jean-Francois Lemay
Emergency Medicine – Dr. Antonia Stang
Endocrinology – Dr. Carol Huang
Gastroenterology – Dr. Iwona Wrobel
Global Child Health Unit – Dr. Jenn Brenner,
Dr. Jean-Francois Lemay, Dr. Nalini Singhal
Hematology & Immunology/Allergy – Dr. Michael Leaker
Hospital Pediatrics – Dr. Gemma Vomiero
Infectious Diseases – Dr. Otto Vanderkooi
Medical Genetics – Dr. Francois Bernier
Neonatology – Dr. Alexendra (Alix) Howlett
Nephrology – Dr. Silviu Grisaru
Neurology – Dr. Michael Esser
Oncology/Bone Marrow Transplant – Dr. Victor Lewis
Palliative Medicine – Dr. Sidd Thakore
Respiratory Medicine – Dr. Candice Bjornson
Sleep Medicine – Dr. Adetayo Adeleye
Rheumatology – Dr. Heinrike Schmeling

EDUCATIONAL PROGRAM DIRECTORS

Undergraduate Medical Education – Dr. Susan Bannister
Clerkship Evaluation Coordinator – Dr. Nicole Johnson

Postgraduate Medical Education
Developmental Pediatrics – Dr. Scott McLeod
Emergency Medicine – Dr. Naminder Sandhu
Endocrinology – Dr. Rebecca Perry
Gastroenterology – Dr. Gary Galante
General Pediatrics – Dr. Amonpreet Sandhu
General Pediatrics Associate Program Directors:
Dr. Amelie Stritzke, Dr. Shrimree Doshi, Dr. Theresa Wu
Hematology/Oncology/BMT – Dr. Doan Le
Hospital Pediatrics – Dr. Suzette Cooke
Infectious Diseases – Dr. Taj Jadavji
KidSIM Pediatric Simulation – Dr. Vincent Grant
Medical Genetics – Dr. Rebecca Sparkes
Neonatology/Perinatology – Dr. Prashanth Murthy
Nephrology – Dr. Anke Banks
Neurology – Dr. Colleen Curtis
Respirology – Dr. Glenda Bendliak
Continuing Medical Education – Dr. Julian Midgley

SITE LEADS

PEDIATRICS

Foothills Medical Centre – Dr. Chris Lever
Peter Lougheed Centre – Dr. Carrah Bouma
Rockyview General Hospital – Dr. Darrell Palmer
South Health Campus – Dr. Faruqa Ladha

NEONATOLOGY

Alberta Children’s Hospital – Dr. Khorshid Mohammad
Foothills Medical Centre – Dr. Amuchou Soraisham
Peter Lougheed Centre – Dr. Leonora Henderson
Rockyview General Hospital – Dr. Hussein Zein
South Health Campus – Dr. Belal Alshaikh

There are over 100 members, including administrators and research staff, who support the Department of Pediatrics at all University of Calgary and Alberta Health Services sites throughout the Calgary Zone.
Dr. Lindsay Long
Dr. Catherine MacNeill
Dr. Sonia Menard
Dr. Christopher Novak*
Dr. Swati Rastogi
Dr. Candace Rypien
Dr. Amnonpreet Sandhu
Dr. Lindsay Stockdale
Dr. Cristina Stoian
Dr. Siddharth Thakore
Dr. Peter Vetere
Dr. Michael Vila
Dr. Gemma Vorniero
Dr. Karen-Rose Wilson
Dr. Theresa Wu

INFECTION DIS relies
Dr. Cora Constantinescu
Dr. Davika Dixit*
Dr. Jessica Dunn
Dr. Tadjen Jadavji
Dr. Jim Kelin
Dr. Susan Kuhn
Dr. Mireille LeMay
Dr. Otto Vanderkooi
Dr. Joseph Vayalumkal

MEDICAL GENETICS
Dr. Ping-Yee (Billie) Au
Dr. Francois Berrier
Dr. Allan (Michel) Innes
Dr. Aneal Khan
Dr. Julie Lauzon
Dr. Matthew Lines
Dr. R. Brian Lowry
Dr. Julian Marcadie
Dr. Ashish Marwaha
Dr. Renee Perrier
Dr. Rebecca Sparkes
Dr. Mary Ann Thomas

NEONATOLOGY
Dr. Ayman Abou Mehrem
Dr. Albert Aikiern
Dr. Essa Al Awad
Dr. Belal Alshaikh
Dr. Harish Amin
Dr. Arina Benlamri
Dr. Ashley Bladon*
Dr. Deborah Clark
Dr. Stefani Doucette
Dr. Adel El Sharkawy
Dr. Carlos Fajardo
Dr. Shabib Hasan
Dr. Jennifer Heath (Neonatal Follow-Up)
Dr. Leonora Henderson
Dr. Alexandra (Alix) Howlett
Dr. Majeeda Kamaludeen
Dr. Thierry Lacaze-Masmontiel
Dr. Lara Laijsier
Dr. Abhay Lodha
Dr. Khorshid Mohammad
Dr. Prashanth Murthy
Dr. Yacov (Jack) Rabi
Dr. Nalin Singh
Dr. Armouchu Soraisham

Dr. Amelie Stritzke
Dr. Surnesh Thomas
Dr. Anne Tierney
Dr. Jennifer Unrau
Dr. Kamran Yusuf
Dr. Hussein Zein

NEPHROLOGY
Dr. Juan (JP) Appendino
Dr. Margaret Clarke
Dr. Colleen Curtis
Dr. Michael Esser
Dr. Heathier Graham
Dr. Aliso Ho
Dr. Julia Jacobs-Le Van
Dr. C. Adam Kinron
Dr. Jean Mah
Dr. Aleksandra Mineyko
Dr. Serena Orr
Dr. Eric Payne
Dr. Beverley Prieur
Dr. Harvey Samat
Dr. Morris Scantlebury

ONCOLOGY/HSC T
Dr. Ronald Anderson
Dr. Melanie Finkbeiner
Dr. Gregory Guilcher
Dr. Lucie Lafay-Cousin
Dr. Victor Lewis
Dr. Zoulficar Menhem
Dr. Arumugavadiavel Narendran
Dr. Ravi Shah
Dr. Douglas Strother
Dr. Tony Truong

PALLIATIVE MEDICINE
Dr. Malia Arasu
Dr. Anne-Josee Cote*
Dr. Naomi Golof
Dr. Estee Grant
Dr. Amanda Hogg
Dr. Erin Kwolek
Dr. Kevin Levere
Dr. Debbie McAllister (Supp)

RESPIROLOGY
Dr. Adetayo Adekeye
Dr. Mark Anselmo
Dr. Glenda Bendiak
Dr. Candice Bjornson
Dr. Jennifer Brenner
Dr. Karen Kam
Dr. Valerie Kirk
Dr. Paul MacEachern (Supp)
Dr. Ian Mitchell
Dr. Mark Montgomery

Dr. Mary Noseworthy
Dr. Jody Platt*

RHEUMATOLOGY
Dr. Susanne Benseler
Dr. Muhammed Dhalla
Dr. Nicole Johnson
Dr. Nadia Luca
Dr. Paivi Miettunen
Dr. Heinrike Schmeling
Dr. Rebeka (Bekia) Stevenson
Dr. Marinka Twilt

UNIVERSITY OF CALGARY APPOINTMENT ONLY
Dr. Marie-Claire Arrieta
Dr. Karen Barlow
Rev. Phillip Behman
Dr. Karen Benzies
Dr. Graham Boag
Dr. Thomas Bowen
Dr. Brian Brooks
Dr. Marie-Anne Bründler
Dr. Jeffrey Buchhalter
Dr. Helen Carlson
Dr. Catherine Chrusch
Dr. Beverly Collioson
Dr. Margaret Ruth Connors
Dr. Dianne Creighton
Dr. Lawrence de Koning
Ms. Kathleen Douglas-England
Dr. Carolyn Emery
Dr. Taryn Fay-McClymont
Dr. Laura Flores-Dinorin (Sarnat)
Dr. Clare Gallagher
Dr. Elaine Gilfoyle
Dr. Walter Hader
Dr. Mark Hamilton
Dr. Laura Kaminsky
Dr. Bonnie Kaplan
Dr. Faisal Khan
Dr. Nicole Letourneau
Dr. Katelyn Lowe
Dr. William Macallister
Dr. Shannon MacDonald
Dr. Frank MacMaster
Dr. Carina Majaesic
Dr. Sheila McDonald
Dr. John McLennan
Dr. Carly McMorris
Dr. Tamara Pringsheim
Dr. Jordan Raugust
Dr. Ivan Rebeika
Dr. Jing Rho
Dr. Ganesh Shanmugam
Dr. Leonard Smith
Dr. Gesche Tallen
Dr. Lianne Tomfohr
Dr. Samuel Wiebe
Dr. Thomas Christopher Wilkes
Ms. Brenda Wilson
Dr. Kathryn (Kay) Wotton
Dr. James (JR) Wright
Dr. Keith Yeates
Dr. Weiming Yu
Dr. Ephrem Zewdie

UNIVERSITY OF CALGARY REGIONAL
Dr. Abdellatif Aborawi
Dr. Charles Bester
Dr. Sophia Capisonda
Dr. Kerry Chan
Dr. Kathryn Cooke
Dr. Magriet du Plooy
Dr. Taifa Ferreira-Van der Watt
Dr. Loretta Fiorillo
Dr. Charlotte Foulston
Dr. Josias Grobler
Dr. Hendrik Hak
Dr. Maya Harlal
Dr. Liesl Heys-Janse van Rensburg
Dr. John Holland
Dr. Ilona Levin
Dr. Mark Mahood
Dr. Kyle McKenzie
Dr. Carey Molberg
Dr. Vanessa Orrego
Dr. Desmon Shulman
Dr. Gerald Vaz

SUPPLEMENTARY/OTHER
Dr. Abdullah Alabas
Dr. Michelle Bischoff (Supp)
Dr. Lee Burkholder
Dr. Elizabeth Condliffe
Dr. Derek Exner (Supp)
Dr. Rex Farran
Dr. Nancy Ghazari
Dr. Vithuya Gnanakumar
Dr. Daniel Gregson (Supp)
Dr. Jennifer Grossman (Supp)
Dr. Richard Haber (Supp)
Dr. Matthew Hall (Supp)
Dr. Christina Hardcastle
Dr. Fatemeh Jafarian* (Supp)
Dr. Barbara Kelner (Supp)
Dr. Pierre Le Van
Dr. Brian Lockhart* (Supp)
Dr. Ian MacDonald (Supp)
Dr. Davide Martino
Dr. Lindsay McMillan (Supp)
Dr. Jamin Mulvey
Dr. Jennifer Nicol (Supp)
Dr. Tyler Pirtiot
Dr. Man-Chiu Poon (Supp)
Dr. Vimal Prapajati (Supp)
Dr. Kathleen (Kathy) Reynolds
Dr. Sharon Roussou
Dr. Justyna Sarna
Dr. Adam Spencer (Supp)
Dr. Samuel Stewart* (Supp)
Dr. Oksana Suchowersky (Supp)
Dr. Martin Vetter
Dr. Andrew Wong (Supp)

New Physicians
*Locum
Dr. Gemma Vomiero has led the Section of Pediatric Hospital Medicine and has created a clear path towards positive change. Despite the challenges that come with leading a large and diverse section and the added difficulties presented by the pandemic, Dr. Vomiero continues to lead by example and with patience and integrity. She is known to address the most challenging issues head on and work collaboratively with all stakeholders to create solutions, all while building and strengthening relationships. She engages in her role tirelessly and is always looking for ways to improve clinical care, medical education, quality improvement and research.

Dr. Jim Kellner has been a local and national leader, especially over the past year with his guidance related to COVID-19 immunity and vaccination. He widely regarded as an expert in childhood vaccination and has tirelessly provided expertise and guidance at local and national levels. Dr. Kellner’s leadership helped establish ACH as the largest recruiting site for the Moderna COVID-19 vaccine trial for Canadian children 6 months to 5 years of age. Dr. Kellner continues to make remarkable contributions to the Department of Pediatrics and remains influential in his efforts at educating and advocating, both, for the public and for healthcare workers throughout the pandemic.

Dr. Susanne Benseler is a leader in our research community. She is widely regarded as a tireless and tenacious leader, leading our department and our university to national and international recognition. She is a dedicated clinician, whose patients and colleagues revere her for her compassion and her advocacy for quality patient care. She is widely celebrated for her incredible leadership and continues to make strides in advancing child health research. In 2021, Dr. Benseler was inducted into the prestigious Canadian Academy of Health Science, joining an esteemed community of the country’s leading health and biomedical scientists and scholars.

Dr. Cora Constantinescu has been at the forefront of COVID-19 vaccination campaigns on a local, provincial, and national level. She remains steadfast and committed in her efforts at educating and advocating for healthcare workers and the public. She was the driving force to help establish the “COVID line,” a resource community physicians use to receive timely phone consultations from infectious diseases specialists. In addition to her leadership work in the COVID-19 landscape, she continues to lead and advocate for local antimicrobial stewardship initiatives at ACH. Dr. Constantinescu’s advocacy for promoting COVID-19 vaccinations has extended beyond the walls of ACH, she has been a tireless and trustworthy leader within our department and in our community.

Dr. Heidi Angeles is an inspiring and well-respected leader. She advocates strongly for her patients and is a supportive teacher to her learners. Dr. Angeles is committed to resident learning, she provides the time and support to help her learners grow. As a longitudinal preceptor, she encourages resident independence and autonomy in patient care and works to bring the next generation of strong community pediatricians into the future. She is empathetic and works to meet patients “where they are” while participating in initiatives to build community capacity.
DISTINGUISHED CAREER AWARDS

We would like to extend a special congratulations to our retiring department members. Diverse in their contributions to patient care and child health research, these department members have role modelled lifelong advocacy for children and youth in our communities. Thank you for your remarkable contributions to the field of medicine.

Dr. Albert Akierman, Neonatology
Dr. Ron Anderson, Pediatric Oncology
Dr. Heather Graham, Pediatric Neurology
Dr. Donald Bethune, Pediatric Emergency Medicine (Supplementary)
Dr. Michele Bjornson, Pediatric Emergency Medicine
Dr. Jennifer Fisher, Developmental Pediatrics
Dr. Roger Galbraith, Pediatric Emergency Medicine
Dr. Heather Graham, Pediatric Neurology
Dr. Hardally (Kris) Hegde, Community Pediatrics
Dr. Lori Kardal, Community Pediatrics
Dr. Barbara Kellner, Community Pediatrics (Supplementary)
Dr. Victoria (Vicki) Kendrick, Community Pediatrics
Dr. Val Kirk, Pediatric Respiratory
Dr. Mireille LeMay, Pediatric Infectious Diseases
Dr. Kathleen Mitchell, Community Pediatrics
Dr. Beverley Prieur, Pediatric Neurology
Dr. Barbara (Cathy) Ross, Pediatric Critical Care
Dr. Elizabeth Shyleyko, Community Pediatrics
Dr. Douglas Strother, Pediatric Oncology
Dr. Anne Tierney, Neonatology

RESEARCH AND INNOVATION AWARDS

2020 INNOVATION AWARDS
“Pregnancy During the COVID-19 Pandemic”
Drs. Gerald Giesbrecht, Catherine Lebel, Lianne Tomfohr-Madsen, Marcel van de Wouw, Elnaz Vaghef Mehrabani, John Kim, Stephen Freedman
Primary Project Type – Research
Awarded $24,970

“Professional Calling and Career Planning: Facilitating a Novel Process to Plan Meaningful Work Across the Career Trajectory”
Drs. Susan Kuhn, Chantelle Barnard, Lorelli Nowell, Elizabeth Oddone Paolucci
Primary Project Type – Education
Secondary Project Type – Research
Awarded $2,915

“A Novel Method for the Prospective Evaluation of Hepatic Veno-Occlusive Disease in Patients Undergoing Hematopoietic Stem Cell Transplantation: A Pilot Study”
Drs. Simon Lam, Tony Truong, Jennifer deBruyn, Aru Narendran
Primary Project Type – Research
Secondary Project Type – Clinical
Awarded $25,000

“Smooth Transitions – Optimizing the use of virtual health methods in the care of adolescent and young adult rheumatology patients in Southern Alberta”
Drs. Nadia Luca, Heinrike Schmeling, Nicole Johnson, Elzbieta Kaminska, Michelle Jung, Paul MacMullen, Ms. Sarah Wilkie
Primary Project Type – Clinical
Secondary Project Type – Research
Awarded $18,920

“Getting Together for Safest Together: An Initiative to Enhance Pediatric Patient Safety by Learning from the Family Perspective and Building Engagement”
Drs. Jennifer Thull-Freedman, Kathleen Chaput, Michelle Bailey, Maria Santana, Charlotte Foulston, Ms. Consuelo Ong, Juliana Harris
Primary Project Type – Clinical
Secondary Project Type – Research
Awarded $12,000
NEONATAL-PERINATAL MEDICINE FELLOWSHIP PROGRAM
TEACHING AWARDS
Teacher of the Year for Bedside Clinical Teaching, 2020-2021: Dr. Majeeda Kamaluddeen
Teacher of the Year for Academic Half-Day Teaching, 2020-2021: Dr. Jack Rabi and Dr. Prashanth Murthy

DR. HUSAM ZAKI (SAM) DARWISH CLINICAL TEACHER OF THE YEAR AWARD
In Recognition of Excellence in Clinical Teaching
(Presented by the Alberta Children’s Hospital Pediatric Residents)
Subspecialty Pediatrics: Dr. Erika Vorhies (Pediatric Cardiology)
Community Pediatrics: Dr. Ciara Chamberlain
Hospital Pediatrics: Dr. Mike Vila

CLINICAL TEACHER OF THE YEAR AWARD
Awarded to Subspecialty Fellows in Recognition for Outstanding and Dedicated Teaching to the Pediatric Residents at Alberta Children’s Hospital
Dr. Christopher Novak and Dr. Simone Kortbeek

2021 DR. GEORGE PRIEUR PEDIATRIC SCHOLARSHIP AWARD
Dr. Rouzbeh Ghadiry-Tavi (General Pediatrics)

ANNUAL RESIDENTS & FELLOWS RESEARCH DAY 2021
First Place – Dr. Amanda Brett (General Pediatrics)

INTERNAL AWARDS
Dr. Carolyn Emery, Killam Annual Professorship, University of Calgary
Dr. Nicole Letourneau, Killam Annual Professorship, University of Calgary
Dr. Theresa Wu, 2021 University of Calgary UME Clinical/Adjunct/Research Award

EXTERNAL AWARDS
Canadian Academy of Health Sciences, Fellowship
Dr. Susanne Benseler
Dr. Suzanne Tough

Alberta Medical Association
Dr. Roxanne Goldade, Long-Service Award
Dr. Juliet Guichon, Medal of Honor
Dr. Sarah Hall, Long-Service Award
Dr. Ian Mitchell, Compassionate Service Award

Other:
Dr. Helen Carlson, American Heart Association, Paul Dudley White International Scholar Award at the International Stroke Conference
Dr. Bonnie Kaplan, (Emerita), Calgary Top 7 Over 70
Dr. Ian Mitchell, Canadian Pediatric Society, Alan Ross Award
Dr. Keith Yeates (Adjunct), Royal Society of Canada, Fellowship

ASSOCIATE DEAN’S LETTER OF EXCELLENCE, ACADEMIC YEAR 2020-2021, CUMMING SCHOOL OF MEDICINE
For Lecture (taught 3+ lecture sessions, received an average rating of 4.0+ (very good - outstanding) on the student feedback): Dr. Jennifer (Jenn) D’Mello, Dr. Luis Murguia Favela, Dr. Sharron Spicer, Dr. Vithya Gnanakumar
For Small Group Teaching (taught 5+ small group sessions, received an average rating of 4.2+ (very good - outstanding) on the student feedback): Dr. Man-Chiu Poon, Dr. Lee Burkholder, Dr. William (Ben) Gibbard, Dr. Gary Galante, Dr. Glenda Bendiaik, Dr. Kimberley (Kim) Smyth, Dr. Gesche (Gesche) Tallen, Dr. Roger D. Galbraith, Dr. Ian Mitchell, Dr. Sharron Spicer, Dr. Vithya Gnanakumar
For Clinical Core (6+ teaching hours of clinical core sessions, received an average rating of 4.4+ (very good - outstanding) on the student feedback): Dr. Alexandra (Alixe) Howlett, Dr. Amina Benlamri, Dr. Amuchou Soraisham, Dr. Anne Tierney, Dr. Christopher Waterhouse, Dr. Kyle McKenzie, Dr. Jennifer DeBruyn, Dr. Deborah Clark, Dr. Joseph Vayalumkal, Dr. Hussein Zein, Dr. Abhay Lodha, Dr. Amelie Stritzke, Dr. Essa Al-Awad, Dr. Harish Amin
For Clerkship Teaching (received an average rating of 4.6 (outstanding) from student feedback on 3 or more evaluations): Dr. Gordon McNeil, Dr. Marc Francis, Dr. Alexandra (Alixe) Howlett, Dr. Izabela Sztukowski, Dr. Kevin Levere, Dr. Robin Clegg, Dr. Amuchou Soraisham, Dr. Anne Tierney, Dr. Christopher Waterhouse, Dr. Kyle McKenzie, Dr. Jennifer DeBruyn, Dr. Deborah Clark, Dr. Joseph Vayalumkal, Dr. Hussein Zein, Dr. Abhay Lodha, Dr. Amelie Stritzke, Dr. Essa Al-Awad, Dr. Harish Amin

DEDICATED SERVICE AWARD, CUMMING SCHOOL OF MEDICINE
Bronze (10+ hours of teaching): Dr. Amelie Stritzke, Dr. Christine Kennedy, Dr. Leanna McKenzie, Dr. Theresa Wu, Dr. Essa Al-Awad, Dr. Cora-Mihaela Constantinescu, Dr. Harish Amin, Dr. Naminder Sandhu, Dr. Nicole Johnson, Dr. Jean Mah, Dr. Michael Leaker, Dr. Josephine Ho, Dr. Man-Chiu Poon, Dr. Kara Murias, Dr. Jorge Pinzon, Dr. Tamara Pringsheim, Dr. Lee Burkholder, Dr. Luis Murguia Favela
Silver (20+ hours of teaching): Dr. William (Ben) Gibbard, Dr. Gary Galante, Dr. Glenda Bendiaik
Gold (30+ hours of teaching): Dr. Kimberley Smyth, Dr. Gesche Tallen, Dr. Jean-Francois Lemay, Dr. Pamela Veale, Dr. Sharron Spicer, Dr. Vithya Gnanakumar
Platinum (40+ more hours of teaching): Dr. Roger Galbraith, Dr. Ian Mitchell, Dr. Andrew Wade, Dr. Julian Midgley

UNDERGRADUATE MEDICAL EDUCATION (UME) AWARDS
Jersey Award (Course 6): Dr. Theresa Wu
Pediatrics Gold Star Award (Faculty): Dr. Izabela Sztukowski
Honour Roll (Faculty): Dr. Jennifer (Jenn) D’Mello, Dr. Christopher Lever, Dr. Cora-Mihaela Constantinescu, Dr. Kim Smyth, Dr. Ian Mitchell
CURRENT RESIDENTS AND Fellows

GENERAL PEDIATRICS

R1
Dr. Alex Corrigan
Dr. Jesse Grist
Dr. Rachel Lipp
Dr. Christine Lukac
Dr. Sarah O’Neill
Dr. Sydney Osland
Dr. Rina Patel
Dr. Sophie Rossini
Dr. Rebecca Schmidt
Dr. Sarah Tougas
Dr. Tamara Yee

R2
Dr. Daphne Cheung
Dr. Brielle Cram
Dr. Tara Evans-Atkinson
Dr. Christian Farrier
Dr. Michelle Fric
Dr. Mackenzie Gault
Dr. Keon Ma
Dr. Chika Olijo
Dr. Lana Rothfels
Dr. Alyse Schacter
Dr. Kalya Silsikovic
Dr. John Storwick

R3
Dr. Marian Coret
Dr. Elizabeth Gonzalez Sierra
Dr. Rebecca Hay
Dr. Jenessa Kerr
Dr. Elise Martin
Dr. Paulina Podgorny
Dr. Katherine (Tusia) Pohoreski
Dr. Madison Riddell
Dr. Meagan Roy
Dr. Alexa Scarcello
Dr. Jordan Yeo
Dr. Katherine Yurkiw

R4
Dr. Abdulaziz Abul
Dr. Jazmyn Balfour-Boehm
Dr. Amanda Brett
Dr. Paige Burgess
Dr. Alexa Geddes
Dr. Dylan Ginter
Dr. Susan Knechtel
Dr. Jovana Milenkovic
Dr. Gayathri Narendran
Dr. Roxanne Pinson
Dr. Jennifer Saunders
Dr. Anna Solbak

DEVELOPMENTAL PEDIATRICS

Dr. Michelle Hui
Dr. Sarah MacEachern - Fellow

EMERGENCY MEDICINE

Dr. Katie Anker
Dr. Grazyna Burek
Dr. Nicholas Monfries
Dr. Alexandra St-Onge-St-Hilaire
Dr. Gloria Yoo

ENDOCRINOLOGY

Dr. Matthew Feldman
Dr. Samantha Gerber

GASTROENTEROLOGY

Dr. Leena Desai
Dr. Sarah Dinn
Dr. Jaclyn Straus - Fellow

HEMATOLOGY/ONCOLOGY

Dr. Mohammad AlNajjar
Dr. Kyle Canton
Dr. Jaspreet Gharial - Fellow
Dr. Mansoor Mazari - Fellow

KIDSIM PEDIATRIC SIMULATION

Dr. Donovan Duncan - Fellow
Dr. Louise Ing - Fellow
Dr. Martin Perlsteyn - Fellow

MEDICAL GENETICS & GENOMICS

Dr. Lauren Borch
Dr. Samuel Bradbro
Dr. Molly Jackson
Dr. Eliza Phillips
Dr. Bradley Prince
Dr. Chris Smith
Dr. Tara Spence - Fellow
Dr. Amanda Tyndall - Fellow
Dr. Xiao-Ru Yang

NEONATAL/PERINATAL

Dr. Neha Bansal – Fellow
Dr. Harkirat Bhullar
Dr. Alia Embaireeg
Dr. Maria Liza Espinoza
Dr. Anirban Ghosh – Fellow
Dr. Farzana Hamid – Fellow
Dr. Chacko Justin Joseph – Fellow
Dr. Marina Journault
Dr. Adriana Reyes Loredo – Fellow
Dr. Ahmed Maarouf – Fellow
Dr. Sarfaraz Momin – Fellow
Dr. Kaspar Ng
Dr. Martin Perlsteyn
Dr. Ankur Srivastava – Fellow
Dr. Soumya Thomas – Fellow
Dr. Sujith Gurram Venkata – Fellow
Dr. Vimal Komban Vincent – Fellow

Nephrology

Dr. Areefa Alladin-Karan – Fellow
Dr. Augustina Ockere
Dr. Kayla Young
Dr. Thomas Renson – Fellow

Neurology

Dr. Stephanie Hammond
Dr. Rebecca Lindsay
Dr. Alison Marshal
Dr. Sarila Sanhan
Dr. Kirsten Sjonnesen
Dr. Ratika Srivastava – Fellow
Dr. Eroshini Swarnalingam – Fellow
Dr. Kristine Woodward – Fellow
Dr. Jordan Van Dyk

Pediatric Hospital Medicine

Dr. Lea Restivo – Fellow

Pediatric Respirrology

Dr. Nikytha Antony
Dr. Susan Telencoe
Our Department
2020-2021 Demographics

Department Demographics*
Number of Members by Age Groups (Years)
*Includes primary appointees only

Information based on Calendar Year: January 2021 - December 2021.

University Faculty Appointments

<table>
<thead>
<tr>
<th>Academic Status</th>
<th>Primary Appointments (322)</th>
<th>Joint Appointments (62)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Clinical Faculty</td>
<td>GFT Faculty</td>
</tr>
<tr>
<td>Lecturer</td>
<td>90</td>
<td>0</td>
</tr>
<tr>
<td>Assistant Professor</td>
<td>100</td>
<td>3</td>
</tr>
<tr>
<td>Associate Professor</td>
<td>51</td>
<td>25</td>
</tr>
<tr>
<td>Professor</td>
<td>9</td>
<td>22</td>
</tr>
<tr>
<td>Totals</td>
<td>250</td>
<td>50</td>
</tr>
</tbody>
</table>

There are 2 additional members with emeritus or honourary university appointments.

Alberta Health Services (AHS) Medical Staff Appointments

<table>
<thead>
<tr>
<th>Primary AHS Pediatrics*</th>
<th>Supplementary AHS Pediatrics</th>
</tr>
</thead>
<tbody>
<tr>
<td>314</td>
<td>53</td>
</tr>
</tbody>
</table>

*This number includes 26 part-time or full-time locums.
6,811 INPATIENT VISITS ACROSS ALL SITES (EXCLUDING MENTAL HEALTH AND SURGICAL ADMISSIONS)

54,237 EMERGENCY DEPARTMENT VISITS ACROSS ALL SITES (EXCLUDING MENTAL HEALTH AND SURGICAL ADMISSIONS)

283,018 OUTPATIENT VISITS

55,537 UNIQUE PATIENTS 77,866 TELEPHONE/VIRTUAL VISITS

THIS DOES NOT INCLUDE THE THOUSANDS OF CHILDREN SEEN BY MEMBERS OF THE DEPARTMENT WHO ARE COMMUNITY-BASED PEDIATRICIANS
## Calgary Zone Pediatric Discharges

### Total Discharges per Year by Site

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ACH Pediatrics*</td>
<td>4,588</td>
<td>4,871</td>
<td>3,680</td>
</tr>
<tr>
<td>PLC Pediatrics*</td>
<td>1,249</td>
<td>1,289</td>
<td>261</td>
</tr>
<tr>
<td>NICU Total (ACH, FMC, PLC, RGH, SHC)</td>
<td>3,295</td>
<td>3,004</td>
<td>2,870</td>
</tr>
<tr>
<td>Calgary Zone Total Pediatrics (ACH, PLC) and NICU (total)</td>
<td>9,132</td>
<td>9,164</td>
<td>6,811</td>
</tr>
</tbody>
</table>

*Excluding Neonatology

Information based on Fiscal Year: April 2020 – March 2021.

## Calgary Zone Pediatric Hospital Days

### Total Hospital Days per Year by Site

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ACH Pediatrics*</td>
<td>33,335</td>
<td>31,236</td>
<td>25,585</td>
</tr>
<tr>
<td>PLC Pediatrics*</td>
<td>2,278</td>
<td>2,800</td>
<td>493</td>
</tr>
<tr>
<td>NICU Total (ACH, FMC, PLC, RGH, SHC)</td>
<td>43,122</td>
<td>42,573</td>
<td>38,005</td>
</tr>
<tr>
<td>Calgary Zone Total Pediatrics (ACH, PLC) and NICU (total)</td>
<td>78,735</td>
<td>76,609</td>
<td>64,083</td>
</tr>
</tbody>
</table>

*Excluding Neonatology

Information based on Fiscal Year: April 2020 – March 2021.
ACH Pediatric Inpatient Length of Stay Trends
Total Discharges per Year by Length of Stay (Days)

Annual Unit Pediatric Occupancy

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Unit 1</th>
<th>Unit 2</th>
<th>Unit 3</th>
<th>Unit 4</th>
<th>Mental Health</th>
<th>NICU</th>
<th>PICU</th>
<th>Surgical Short Stay</th>
<th>Total Pediatrics</th>
<th>NICU</th>
<th>NICU</th>
<th>NICU</th>
<th>NICU</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018/2019</td>
<td>90.7%</td>
<td>91.5%</td>
<td>98.8%</td>
<td>96.2%</td>
<td>108.0%</td>
<td>86.9%</td>
<td>64.2%</td>
<td>53.6%</td>
<td>90.8%</td>
<td>63.9%</td>
<td>92.3%</td>
<td>92.7%</td>
<td>84.4%</td>
</tr>
<tr>
<td>2019/2020</td>
<td>92.5%</td>
<td>92.0%</td>
<td>99.2%</td>
<td>97.9%</td>
<td>103.2%</td>
<td>87.2%</td>
<td>66.0%</td>
<td>53.9%</td>
<td>90.8%</td>
<td>73.9%</td>
<td>89.6%</td>
<td>90.0%</td>
<td>77.0%</td>
</tr>
<tr>
<td>2020/2021</td>
<td>80.0%</td>
<td>71.60%</td>
<td>77.4%</td>
<td>79.8%</td>
<td>94.8%</td>
<td>80.4%</td>
<td>44.4%</td>
<td>38.0%</td>
<td>74.3%</td>
<td>61.5%</td>
<td>81.4%</td>
<td>82.0%</td>
<td>68.0%</td>
</tr>
</tbody>
</table>

PLC Pediatric Unit Admissions by Admission Type

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Pediatric Admits to Ped Unit (Age &lt;18Y)</th>
<th>Direct Inpatient Transfer from ACH</th>
<th>Direct Outpatient Transfer from ACH</th>
<th>Admit Thru PLC ED</th>
<th>Other - Jaundice Diagnosis</th>
<th>Other - No Jaundice Diagnosis</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020/2021</td>
<td>256</td>
<td>11</td>
<td>53</td>
<td>16</td>
<td>153</td>
<td>23</td>
</tr>
</tbody>
</table>

Days stay is the total number of accumulated inpatient days for patient discharged (including deaths). The day of admission is counted but not the day of discharge. LOS <12 hours included pseudo admissions, and patients in and out the same day or the next calendar day.
# ACH Inpatient Activity by Most Responsible Physician Section

<table>
<thead>
<tr>
<th>Medical Sections</th>
<th>2020/2021</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Discharges</td>
<td>Total Days Stay</td>
<td>Average Length of Stay</td>
</tr>
<tr>
<td>Cardiology</td>
<td>66</td>
<td>353</td>
<td>5.3</td>
</tr>
<tr>
<td>Endocrinology</td>
<td>133</td>
<td>334</td>
<td>2.5</td>
</tr>
<tr>
<td>Gastroenterology</td>
<td>134</td>
<td>582</td>
<td>4.3</td>
</tr>
<tr>
<td>Intensivist</td>
<td>168</td>
<td>1,967</td>
<td>11.7</td>
</tr>
<tr>
<td>Neonatology</td>
<td>185</td>
<td>2,684</td>
<td>14.5</td>
</tr>
<tr>
<td>Nephrology</td>
<td>116</td>
<td>619</td>
<td>5.3</td>
</tr>
<tr>
<td>Neurology</td>
<td>196</td>
<td>642</td>
<td>3.3</td>
</tr>
<tr>
<td>Oncology/Hematology</td>
<td>426</td>
<td>4,704</td>
<td>11.0</td>
</tr>
<tr>
<td>Paediatric Medicine</td>
<td>2,421</td>
<td>16,165</td>
<td>6.7</td>
</tr>
<tr>
<td>Respirology</td>
<td>20</td>
<td>219</td>
<td>11.0</td>
</tr>
<tr>
<td>Total - Medical</td>
<td>3,865</td>
<td>28,269</td>
<td>7.6</td>
</tr>
</tbody>
</table>

# ACH Frequently Encountered Discharge Diagnoses

<table>
<thead>
<tr>
<th>Diagnosis</th>
<th>2020/2021</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Neonatal Jaundice from Other/Unspecified Causes</td>
<td>193</td>
<td>250</td>
<td>1.3</td>
</tr>
<tr>
<td>Epilepsy</td>
<td>143</td>
<td>653</td>
<td>4.6</td>
</tr>
<tr>
<td>Depressive Episode</td>
<td>136</td>
<td>269</td>
<td>2.0</td>
</tr>
<tr>
<td>Type 1 Diabetes Mellitus</td>
<td>126</td>
<td>309</td>
<td>2.5</td>
</tr>
<tr>
<td>React to Severe Stress and Adjustment Disorder</td>
<td>89</td>
<td>147</td>
<td>1.7</td>
</tr>
<tr>
<td>Nausea and Vomiting</td>
<td>82</td>
<td>287</td>
<td>3.5</td>
</tr>
<tr>
<td>Other Anxiety Disorders</td>
<td>75</td>
<td>165</td>
<td>2.2</td>
</tr>
<tr>
<td>Other Disorders of Urinary System</td>
<td>72</td>
<td>388</td>
<td>5.4</td>
</tr>
<tr>
<td>Eating Disorders</td>
<td>63</td>
<td>1093</td>
<td>17.3</td>
</tr>
<tr>
<td>Foreign Body in Alimentary Tract</td>
<td>57</td>
<td>60</td>
<td>1.1</td>
</tr>
<tr>
<td>Fever of Other and Unknown Origin</td>
<td>52</td>
<td>123</td>
<td>2.4</td>
</tr>
<tr>
<td>Hyperkinetic Disorders</td>
<td>52</td>
<td>81</td>
<td>1.6</td>
</tr>
<tr>
<td>Asthma</td>
<td>49</td>
<td>125</td>
<td>2.6</td>
</tr>
</tbody>
</table>

These are some of the most frequent discharge diagnoses, excluding mental health and surgical admissions.
ACH Pediatric Intensive Care Unit (PICU) Activity

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>2020/2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>PICU Cases</td>
<td>627</td>
</tr>
<tr>
<td>Total Admissions/Transfers Into PICU*</td>
<td>647</td>
</tr>
<tr>
<td>Admissions to PICU*</td>
<td>285</td>
</tr>
<tr>
<td>Transfers into PICU from Units*</td>
<td>204</td>
</tr>
<tr>
<td>Transfers into PICU from ADOP/PACU*</td>
<td>158</td>
</tr>
<tr>
<td>Discharge from or Death in PICU</td>
<td>145</td>
</tr>
<tr>
<td>Transfers Out of PICU to Units*</td>
<td>490</td>
</tr>
<tr>
<td>PICU Unit LOS</td>
<td>2,416</td>
</tr>
<tr>
<td>Hospital LOS - PICU Cases</td>
<td>9,666</td>
</tr>
</tbody>
</table>

*Fiscal year based on hospital admission date, others based on hospital discharge date. Patients may have more than 1 admission, transfer into PICU, and transfers out of PICU on a hospital stay.

Emergency Department (ED) Pediatric Mental Health Visits

<table>
<thead>
<tr>
<th>Site</th>
<th>Total Pediatric ED Visits</th>
<th># Mental Health Visits</th>
<th>% Mental Health ED Visits</th>
<th>Mental Health Admit from ED to Same Site</th>
<th>Mental Health Transfer to Other Acute Care Facility</th>
<th>Mental Health ED Discharge/Other</th>
<th>Mental Health ED Left Without Being Seen</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACH</td>
<td>47,347</td>
<td>3,619</td>
<td>7.6</td>
<td>920</td>
<td>172</td>
<td>2,496</td>
<td>31</td>
</tr>
<tr>
<td>SHC</td>
<td>6,890</td>
<td>526</td>
<td>7.6</td>
<td>129</td>
<td>50</td>
<td>333</td>
<td>14</td>
</tr>
<tr>
<td>Total Other Sites (FMC, PLC, RGH)</td>
<td>5,490</td>
<td>403</td>
<td>7.3</td>
<td>124</td>
<td>45</td>
<td>225</td>
<td>9</td>
</tr>
</tbody>
</table>

Pediatric refers to patients < 18 years of age. Mental Health defined by diagnoses codes used by Addictions and Mental Health on ED visits.

Pediatric Emergency Department (ED) Visits

Total ED Visits by Site for Fiscal Year 2020/2021
- ACH 47,347
- SHC 6,890

ACH Emergency Room Visits and Admissions

Total Patients by CTAS Score
- Total Emergency Room Visits by CTAS Score
- Admissions from ACH Emergency Room by CTAS Score

Resusc CTAS Level 1: 302
Emergent CTAS Level 2: 189
Urgent CTAS Level 3: 2,348
Semi-Urgent CTAS Level 4: 1,225
Non-Urgent CTAS Level 5: 2
Neonatal Intensive Care Unit (NICU) Activity by Site

<table>
<thead>
<tr>
<th>NICU Indicators</th>
<th>ACH</th>
<th>FMC</th>
<th>PLC*</th>
<th>RGH</th>
<th>SHC</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discharges</td>
<td>242</td>
<td>982</td>
<td>681</td>
<td>589</td>
<td>376</td>
<td>2,870</td>
</tr>
<tr>
<td>Total Days Stay</td>
<td>5,745</td>
<td>12,341</td>
<td>8,280</td>
<td>7,482</td>
<td>4,157</td>
<td>38,005</td>
</tr>
<tr>
<td>Average Length of Stay (ALOS)</td>
<td>24</td>
<td>13</td>
<td>12</td>
<td>13</td>
<td>11</td>
<td>13</td>
</tr>
<tr>
<td>Intracity Transfer</td>
<td>31</td>
<td>476</td>
<td>57</td>
<td>33</td>
<td>32</td>
<td>629</td>
</tr>
<tr>
<td>Total Days in NICU Unit</td>
<td>3,993</td>
<td>11,773</td>
<td>7,699</td>
<td>7,055</td>
<td>3,908</td>
<td>34,428</td>
</tr>
<tr>
<td>Average Case Weight (ARIW)</td>
<td>8</td>
<td>4</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Unique Patients (based on uli)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Average Neonatal Length of Stay per Patient (Days)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>17</td>
</tr>
</tbody>
</table>

*PLC NICU Cases may be included in the PLC Pediatric unit data if patients were discharged from that unit. Unique Patients is the number of babies with a stay in NICU (based on uli) discharged in the fiscal year. Average neonatal stay for these patients includes all days stay in a Calgary hospital prior to discharge home by March 31. Average Case Weight for all years is based on current year values.

Calgary Zone NICU Discharges

Total Discharges by Site

Information based on Fiscal Year: April 2020 – March 2021.

*PLC NICU Cases may be included in the PLC Pediatric unit data if patients were discharged from that unit.
Providing subspecialty services to children, youth, and families across Southern Alberta. Over the past year, some of the clinics were done virtually.

(Image updated December 2021)
## Research Activity
### 2020-2021 Data & Metrics

### Total Research Revenue

<table>
<thead>
<tr>
<th>Department/Faculty</th>
<th>2019/2020</th>
<th>2020/2021</th>
<th>% Change 2019/2020 v 2020/2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pediatrics</td>
<td>$12.4 M</td>
<td>$13.1 M</td>
<td>+6%</td>
</tr>
<tr>
<td>Total Cumming School of Medicine (CSM)</td>
<td>$213.8 M</td>
<td>$222 M</td>
<td>+4%</td>
</tr>
</tbody>
</table>

### Total Research Revenue Per Full-time Equivalent (FTE)

<table>
<thead>
<tr>
<th>Department/Faculty</th>
<th>2019/2020</th>
<th>2020/2021</th>
<th>% Change 2019/2020 v 2020/2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pediatrics</td>
<td>$0.23 M</td>
<td>$0.24 M</td>
<td>+4%</td>
</tr>
<tr>
<td>Average Cumming School of Medicine (CSM)</td>
<td>$0.37 M</td>
<td>$0.36 M</td>
<td>-3%</td>
</tr>
</tbody>
</table>

### Total CIHR Research Revenue

<table>
<thead>
<tr>
<th>Department/Faculty</th>
<th>2019/2020</th>
<th>2020/2021</th>
<th>% Change 2019/2020 v 2020/2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pediatrics</td>
<td>$3.32 M</td>
<td>$6 M</td>
<td>+81%</td>
</tr>
<tr>
<td>Total Cumming School of Medicine (CSM)</td>
<td>$46.7 M</td>
<td>$58 M</td>
<td>+24%</td>
</tr>
</tbody>
</table>

### Annual Publications*

<table>
<thead>
<tr>
<th></th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary appointment/FTE</td>
<td>296</td>
</tr>
<tr>
<td>Primary appointment/Non-FTE</td>
<td>154</td>
</tr>
<tr>
<td>Secondary Appointment (Non-FTE)</td>
<td>138</td>
</tr>
<tr>
<td>Total</td>
<td>483</td>
</tr>
</tbody>
</table>

*Total unique publications: a paper co-authored by multiple Department of Pediatrics members is only counted once. The categorical data reports non-unique totals by appointment classification. From March-September 2020, research operations were either suspended or only permitted by special approval (with the exception of COVID-19 research).

### Annual First/Last Author Publications†

<table>
<thead>
<tr>
<th></th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary appointment/FTE</td>
<td>100</td>
</tr>
<tr>
<td>Primary appointment/Non-FTE</td>
<td>59</td>
</tr>
<tr>
<td>Secondary Appointment (Non-FTE)</td>
<td>48</td>
</tr>
<tr>
<td>Total</td>
<td>193</td>
</tr>
</tbody>
</table>

†Total unique publications: a paper with >1 Department member as first and/or last author is only counted once. The categorical data reports non-unique totals by appointment classification. From March-September 2020, research operations were either suspended or only permitted by special approval (with the exception of COVID-19 research).
ACKNOWLEDGEMENTS

The Department of Pediatrics gratefully acknowledges and thanks the following individuals and groups for their contributions to this report:

Project Lead
Dr. Sarah Hall, Deputy Head Professional Affairs, Department of Pediatrics

Design and Editorial Management
Mary Garcia, Communications Coordinator, Department of Pediatrics
Alison Shepherd, Communications Coordinator, Department of Pediatrics

Photography
V Strategies, Calgary, AB

Data Collection, Preparation, and Reporting
Diane Moser, Health Information Analyst, Alberta Health Services
Alberta Health Services Child Health Annual Report 2020/2021
Tina Sakon, Project Coordinator, Outreach Services, Alberta Children’s Hospital

Special thanks to the Alberta Children’s Hospital Foundation, Alberta Children’s Hospital Research Institute, Administrative Staff and members of the Department of Pediatrics for their contributions.

We would also like to express our sincere appreciation to our patients and their families featured in this report.