

**MEASURED IMPACT** 

BIENNIAL REPORT 2018-19 & 2019-20

BIENNIAL REPORT 2018-19 & 2019-20

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**66** It is reassuring for families to know that there are medical experts across Western Canada collaborating on child patients in Saskatchewan, Alberta, BC, Manitoba. No need for a second opinion - you get multiple opinions.

Survey Respondent, 2018-19 Home Centre Survey, Saskatoon Saskatchewan

A partnership amongst:







BC Children's Hospital 4480 Oak Street Vancouver, BC V6H 3V4







Stollery Children's Hospital 8440 112th Street NW Edmonton, AB T6G 2B7



Alberta Children's Hospital



Alberta Children's Hospital 2888 Shaganappi Trail NW Calgary, AB T3B 6A8







Jim Pattison Children's Hospital 103 Hospital Drive Saskatoon, SK S7N 0W8







Children's Hospital, HSC 685 Williams Avenue Winnipeg, MB R3E 0Z2

# Who We Are

The Western Canadian Children's Heart Network (WCCHN) links expertise between the five pediatric cardiac centres in western Canada and has successfully established inter-provincial cooperation and partnership. The WCCHN spans over 4-million square kilometres, and serves a population base greater than 11 million people. The WCCHN includes two pediatric cardiac surgical programs (British Columbia Children's Hospital in Vancouver and the Stollery Children's Hospital in Edmonton) and three referring centres (Alberta Children's Hospital in Calgary, Jim Pattison Children's Hospital in Saskatoon, and Children's Hospital – Health Sciences Centre in Winnipeg).

# What We Do

The core function of the Network is to coordinate and integrate care for pediatric cardiac patients across the western provinces and territories. The WCCHN promotes cooperation in education and clinical practice, supports research efforts, and advocates for the continual improvement of service delivery. Collaboration among Network sites ensures that our patients have access to the highest standard of care available.

### **Mission**

To offer a framework for which collaborative care is provided to children in the western provinces and territories.

### Vision

Equitable and timely access to world class care for children with heart disease.

### **Values**

Collaboration | Quality | Collegiality | Respect | Transparency | Engagement

collaborative approach to complex medical care. Collaboration is essential to meeting the challenges of building an exceptional health care system. Thank you for contributing to improved health outcomes for pediatric cardiac patients in the four western provinces and two territories.

Dean Screpnek, Assistant Deputy Minister, Health Standards, Quality and Performance Division, Alberta Health

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## **Our Governance**

In June 2019, the WCCHN merged their Clinical Operations and Steering Committees into a unified and expanded Integrated Advisory Board. The Integrated Advisory Board is designed to provide strategic guidance to the cross-province leadership and institutional members that form the Western Canadian Children's Heart Network. This Board integrates the expertise of leading physicians, senior hospital administrators, Ministry of Health representatives, frontline nurses, and patient and family advisors from all western provinces. Together they ensure that initiatives remain true to the Network's mission, vision, and values. The Integrated Advisory Board stands on three important pillars: Equitable Access to services and resources; Metrics that Matter; and Change through Collaboration.

WESTERN CANADIAN CHILDREN'S HEART NETWORK

# DEPUTY MINISTERS OF HEALTH MINISTRY REPRESENTATIVES INTEGRATED ADVISORY BOARD WORKING GROUPS PROGRAM MANAGER DATABASE STEERING COMMITTEE ADMIN ASSISTANT NURSING COORDINATORS COMMITTEE SYSTEMS ANALYST FAMILY ADVISORY COMMITTEE DATABASE MANAGER CODING SPECIALISTS EDUITABLE ACCESS METRICS THAT MATTER CHANGE THROUGH COLLABORATION

66 I would like to thank the members, staff and stakeholders of the Western Canadian Children's Heart Network for the many years that I have been part of the WCCHN, participating as a parent representative from Manitoba. Being part of the WCCHN committees provided me with opportunity to create many amazing relationships over the years, take part in very valuable initiatives, while enabling me to give back to the Network that provides such excellent cardiac care to thousands of children in my province, including my own son. All of my experiences interacting with WCCHN will continue to hold a special place in my heart and I feel forever blessed.

Joni Wilson, Heart Mom and Former WCCHN Parent Partner, Winnipeg Manitoba

# **Annual Address**



### A Message from the WCCHN Program Manager

2019 has been a time of great renewal for the WCCHN. Not only has it been a chance to reset and recalibrate after 20 years of service, but it has also presented an invitation to re-imagine and recommit to the future that lies ahead. While the Network remains a large and productive group, the past twelve months have offered valuable opportunity to refresh strategy and approach. I have had the great privilege of working alongside some of our most senior leaders and administrators to drive our shared vision forward. Patients and families remain our first and highest priority. We remain committed to finding new ways of keeping heart patients and their families at the centre of all we do.

Elina Williams RN, BScN , PMP Program Manager, Western Canadian Children's Heart Network



# The WCCHN Welcomes Dr. Charissa Pockett as Interim Chair of the Integrated Advisory Board

**Credentials:** MD, FRCPC

**Title:** Faculty, Division Head Pediatric Cardiology, Department of Pediatrics, University of Saskatchewan

**Clinical interests:** Diagnostic and interventional cardiac catheterization, single ventricle physiology, medical education

Originally from Manitoba, Dr. Pockett studied and completed medical school at the University of Calgary in 2005. She completed her Pediatric residency at the Alberta Children's Hospital in Calgary in 2009 which included 6 months of training at the Mater Children's Hospital in Brisbane Australia. She went on to train in Pediatric Cardiology at the Stollery Children's Hospital in Edmonton from 2009 to 2012. In July of 2012 Dr. Pockett joined the division of Pediatric Cardiology at the Royal University Hospital in Saskatoon. A one year leave of absence in 2014 allowed her to pursue advanced training in Pediatric Interventional Cardiology at the Rady Children's Hospital in San Diego, California. Since 2015 Dr. Pockett has been a full time Interventional Cardiologist at the Royal University Hospital, now the Jim Pattison Children's Hospital in Saskatoon. She became Division Head for Pediatric Cardiology in December 2017. She is a member of the Children's Heart Healthy Camp in Saskatchewan (CHAMPS) research team at the University of Saskatchewan and is also currently studying the use of Robotic presence for remote murmur assessment. She became the interim Physician Lead at the Western Canadian Children's Heart Network in June 2019.

66 Many thanks for all your hard work to ensure the continued viability of WCCHN. Although the functioning of the Network is not visible to all, kids and families in western Canada benefit from it every day.

Deb Jordan, WCCHN Integrated Advisory Board Member

Executive Director, Connected Care Services Branch, Ministry of Health, Saskatchewan

BIENNIAL REPORT 2018-19 & 2019-20

# By the Numbers

Annually (BASED ON 2018/19 DATA)

4

MILLION SQUARE KILOMETRES

11

MILLION POPULATION BASE

3

REFERRING CENTRES

2

SURGICAL CENTRES

4

TRAVELLING SPECIALIST CLINICS

852

HEART SURGERIES

699

CARDIAC CATHETERIZATIONS

107

ELECTROPHYSIOLOGY PROCEDURES

24,862

OUTPATIENT CLINIC VISITS

3,066

OUTREACH VISITS

108,246

TOTAL RECORDS IN THE DATABASE

# **Our People**

### **Know your WCCHN Office Staff**



### Elina Williams, Program Manager

- Partners with WCCHN leadership in strategic planning
- · Manages and provides oversite for programming, staff, and strategic initiatives
- Manages stakeholder engagement and communications
- Supports vendor procurement and maintenance for third party contractors
- In her free time: Chases after two rambunctious kids aged 5 and 8



### Vera Horobec, Database Manager

- · Oversees routine operations for the database and registries
- Collaboratively establishes best practice, procedures, process guidelines, and reference materials as it pertains to the database
- · Monitors and facilitates user access requests, onboarding, and training
- Fulfills data access requests
- Supports coding specialists at all five sites in training and continuing education
- Provides ongoing monitoring and quality control for database functionality
- In her free time: Dreams about her next travel destination



### Mike Scott, Systems Analyst

- Provides technical support, maintenance, and application enhancements for the WCCHN and Centripetus databases
- · Supports data access requests
- · Engages both internal and external IT resources
- Monitors systems for stable operations and optimum performance
- In his free time: Likes to play with electronics and is always up for a new TV series to binge



### Karen Lam, Administrative Assistant

- Works closely with all network committees, sites, and members for logistical planning, scheduling, and coordination
- Facilitates core office administration and operations
- Supports internal and external communications
- Manages office documentation and asset archive
- · Participates in profiling activities
- In her free time: Likes to read a good science fiction novel and is learning French

BIENNIAL REPORT 2018-19 & 2019-20

### **Our People**

# **Our People**

### **Know your WCCHN Coding Specialists**



### TANIA GILMORE, BC CHILDREN'S HOSPITAL

Place of study: Douglas College

Year Graduated: 2000

**CHIMA Certified:** Yes

Length of Service with WCCHN: 13 years

### Why do you do what you do?

I enjoy collecting and analyzing health information that is used to provide quality patient care.

### What do you think makes the role of a Health Information Manager so important?

The information collected helps improve the quality of patient care.

### What do you love about your job?

I am always learning something new.

### Just for fun

Reading now: The Wives by Tarryn Fisher Hidden Talent: I play the piano Favourite place in the world:

Maui. I love the sun! Hidden Talent: I play the piano If you could be an animal, what would you be: A horse!

### JESSICA CHAGNON, ALBERTA CHILDREN'S HOSPITAL AND JIM PATTINSON CHILDREN'S HOSPITAL

Place of study: Alberta CHIMA Certified: Yes

Length of Service with WCCHN: 10 years

### Why do you do what you do?

I greatly enjoy this line of work and find it very interesting.

# What do you think makes the role of a Health Information Manager so important? It helps support resource and financial allocation, provides important statistics, aids in research studies, and provides support to physicians.

### What do you love about your job?

The challenges, the application of my post-secondary education, the continuous education, and the importance of the work.

### Just for fun

Reading now: Riding Between The Worlds by Linda Kohanov

Favourite place in the world: On the backs of horses, and anywhere where my family and the dogs are

Hidden Talent: Event planning

If you could be an animal, what would you be: Varies by day, location, environmental conditions, and other circumstances



### KATHLEEN MCCARTHY, STOLLERY CHILDREN'S HOSPITAL

Place of study: Northern Alberta Institute **CHIMA Certified:** Yes

**Length of Service with WCCHN:** of Technology

Year Graduated: 1996 Since the beginning

### Why do you do what you do?

I knew I wouldn't be comfortable being a frontline health professional, but my designation gave me an opportunity to use my 'attention to detail' skills and still be a part of healthcare.

### What do you think makes the role of a Health Information Manager so important?

I believe, when it is done well, that it is beneficial for research projects, financial decisions, and also the area of epidemiology etc.

### What do you love about your job?

I love the advances I've seen in Cardiology, watching procedures once only performed in an OR now being performed in a Cardiac Cath lab (Amplatz devices, valve replacements). I've loved watching the number of days a post-transplant patient stays in the hospital come down dramatically. It has also been amazing to watch our program grow from the time I began in 1997 when we performed 360 surgeries to 2019 when over 800 surgeries were performed - it's incredible.

### Just for fun:

Reading now: Opening to Gratitude & Grace Hobby: I love to walk around my city and by Linda Joy discover new and interesting areas. (My

Favourite place in the world: United highest number of steps to date in a day was

Kingdom, Edinburgh & Dublin just over 30k.) Hidden Talent: I'm fairly good at home If you could be an animal, what would you be:

decorating A cat



### SHARMAINE APUYA. VARIETY CHILDREN'S HEART CENTRE. HEALTH SCIENCES CENTRE - WINNIPEG

Place of Study: Red River College **CHIMA Certified:** Yes

Year Graduated: 2018 **Length of Service with WCCHN:** <1 year

### Why do you do what you do?

Interacting with patients, indirectly, I am still able to provide patient care by performing data analysis of the information found within the health record to facilitate health care delivery, patient safety and decision support.

### What do you think makes the role of a Health Information Manager so important?

They maintain the integrity and confidentiality of personal health information and are also responsible for collection of health care data as it is required for patient care, research, education, financial and management planning.

### What do you love about your job?

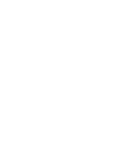
Hobbies: Trying out new activities, food, and

As a new member of the Variety Children's Heart Centre and the WCCHN, it's great to come into a welcoming environment. I enjoy being able to connect with people outside of Manitoba.

### Just for fun

Watching now: The Good Doctor If you could be an animal, what would you be: A Panda Favorite place in the world: Hawaii

visiting new locations





BIENNIAL REPORT 2018-19 & 2019-20

**Our People** 

# Integrated Advisory Board Membership

AS OF NOVEMBER 2019

### **WCCHN**

Dr. Charissa Pockett Interim Board Chair and Divisional Director, Cardiology, Jim Pattison Children's Hospital Elina Williams Program Manager, WCCHN

### **British Columbia**

Susan Schroeder Senior Director, Medical/Surgical Ambulatory Patient Care Services, BC Children's Hospital

Dr. Shubhayan Sanatani Division Head, Cardiology, BC Children's Hospital

Dr. Sanjiv Gandhi Division Head, CV Surgery, BC Children's Hospital

Lea Legge Nurse Clinician, BC Children's Hospital

Derek Rains Director of Medical Services, Provincial Services Branch, BC Ministry of Health

### Alberta - Calgary

 $Patty\ Knox\ \textit{Nurse Clinician, Division of Cardiology, Alberta\ Children's\ Hospital}$ 

Dr. Robin Clegg Staff Cardiologist, Division of Cardiology, Alberta Children's Hospital

Renee Sholes Patient Care Manager, CardioRespiratory, GI, Endocrine, PCWH and Ambulatory Care, Alberta Children's Hospital

### Alberta - Edmonton

Crystal Coroon Discharge Coordinator, Cardiology and GI Services, Stollery Children's Hospital

 $Dr.\ Michal\ Kantoch\ {\it Divisional\ Director,\ Cardiology,\ Stollery\ Children's\ Hospital}$ 

Kristy Cunningham Executive Director, Critical Care and Respiratory Therapy, Stollery Children's Hospital

 $Dr.\ Mohammed\ Al\ Aklabi\ {\it Divisional\ Director,\ CV\ Surgery,\ Stollery\ Children's\ Hospital}$ 

### Saskatchewan

Lucia New Director of Children's Acute and Subspecialty Children's Programs, Royal University Hospital

Marie Penner Nurse Clinician, Cardiology, Jim Pattison Children's Hospital

Deb Jordan Executive Director, Connected Care Services Branch, Ministry of Health, Saskatchewan

### Manitoba

Pam Wiebe Nurse Clinician, Cardiology, Variety Children's Heart Centre

Dr. Reeni Soni Divisional Director, Cardiology, Children's Hospital HSC Winnipeg

Monika Warren Program Director, Child Health, HSC Winnipeg

Sonia Busca Owczar Senior Policy Analyst, Quality and Citizen Experience Branch, Department of Health, Seniors and Active Living, Manitoba Health

Crystal Maslin Patient and Family Advisor

### **CLINIC RESOURCING**

SUMMARY OF PEDIATRIC CARDIOLOGY CLINIC RESOURCING INFORMATION

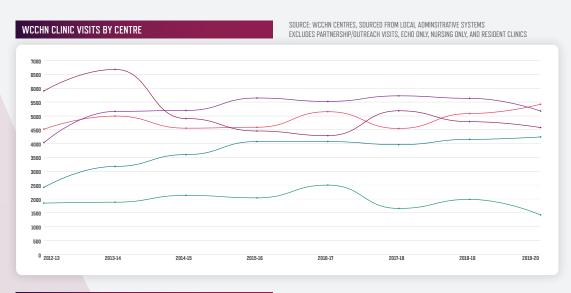
SOURCE: WCCHN CENTRES, SOURCED FROM LOCAL ADMINISTRATIVE SYSTEMS WAIT TIME IS FOR NON-URGENT NEW REFERRALS

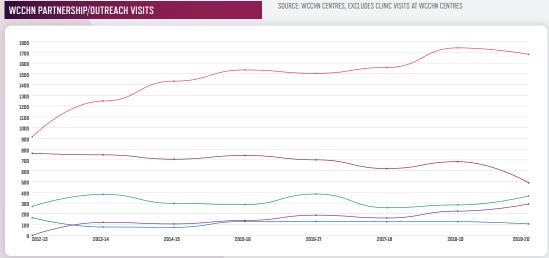
WCCHN Centre	Pediatric Cardiologists	Average Wait Time for Clinic Appt	Clinic Nurses (FTE)	Echo-sonographers (FTE)	Dietician Support (FTE)	Social Work Support (FTE)
BC CHILDREN'S HOSPITAL Vancouver	8	1-6 months	5.4	6.8	0.2 unfunded	0
STOLLERY CHILDREN'S HOSPITAL EDMONTON	16 2 Locums	3-4 months	8.6 RN 1.0 LPN	11.9	1.0	1.0
ALBERTA CHILDREN'S HOSPITAL Calgary	8	3-6 months	2.1 RN 1.0 LPN	4.4	0.5	0.75
<b>JIM PATTISON CHILDREN'S HOSPITAL</b> Saskatoon	4	> 48 months	2.0	2.0	0.5	0.5
CHILDREN'S HOSPITAL HSC Winnipeg	4	6-8 weeks	2.5	3.8	0	1.0

**66** We would like to thank everyone who helped us especially during the hard times, the doctors, specialist, nurses and everybody involved - thank you so much. You've given my daughter a chance to live and to be with us.

Survey Respondent, 2018-19 Home Centre Survey

### **CLINIC VOLUMES AND OUTREACH METRICS**



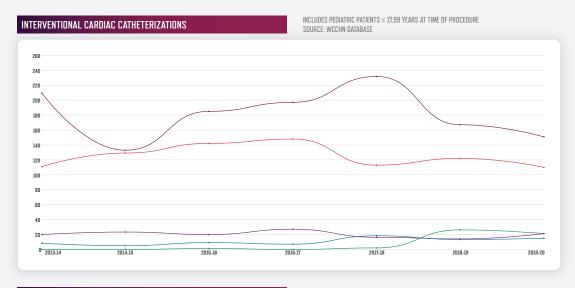


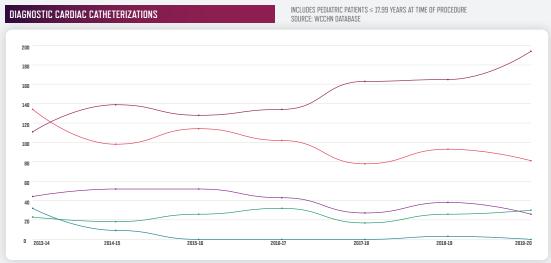
BC CHILDREN'S HOSPITAL, VANCOUVER

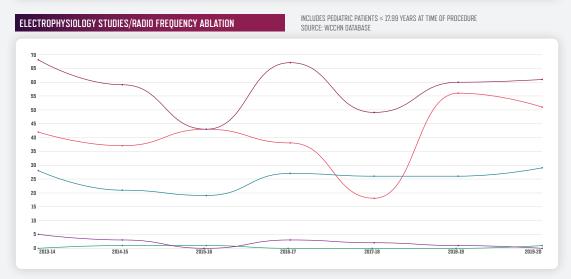
STOLLERY CHILDREN'S HOSPITAL, EDMONTON
ALBERTA CHILDREN'S HOSPITAL, CALGARY
ROYAL UNIVERSITY HOSPITAL, SASKATOON
HEALTH SCIENCES CENTRE, WINNIPEG

### **Metrics that Matter**

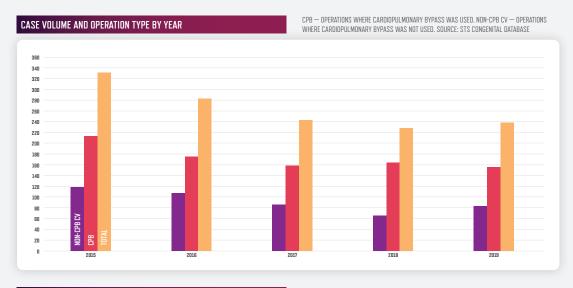
### CARDIAC CATHETERIZATION AND EP METRICS

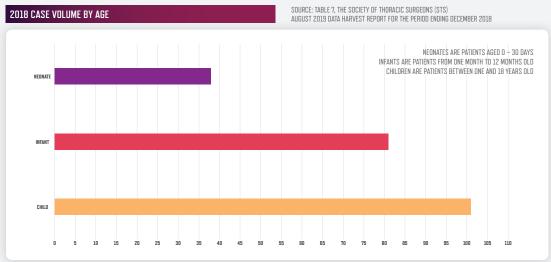






### SURGERY AT BC CHILDREN'S HOSPITAL







### SURVIVAL RATES AND LENGTHS OF STAY BY BENCHMARK PROCEDURE, LAST FOUR YEARS

	Case Volume	Hospital Survival Rate (%)	STS Benchmark (%)	Hospital LOS (days)	STS Benchmark (days)
Coarctation of the Aorta (CDA) repair (off bypass)	65	98.5	98.8	3.0	12.1
Ventricular Septal Defct (VSD) repair	102	100.0	99.5	3.0	9.2
Tetralogy of Fallot (TOF) repair	48	100.0	98.9	5.0	11.7
Atrioventricular Septal Defect (AVSD), complete repair	30	96.7	97.9	5.5	17.9
Arterial Switch Operation (ASO)	25	100.0	97.9	5.0	17.4
Glenn/Hemifontan Procedure	33	97.0	98.0	4.0	14.2
Fontan Procedure	32	100.0	99.0	7.0	13.5
Truncus Arteriosis repair	4	75.0	91.0	11.0	29.
Norwood Procedure	7	71.4	85.5	9.0	48.

FOR THE PERIOD COVERING JANUARY 2015 - DECEMBER 2018. LENGTH OF STAY (LOS) REFERS TO THE LENGTH OF TIME A POST-OPERATIVE PATIENT STAYS IN THE HOSPITAL, MEDIAN LENGTHS OF STAY ARE REFLECTED. SOURCE: TABLE 18, THE SOCIETY OF THORACIC SURGEONS (STS) AUGUST 2019 DATA HARVEST REPORT FOR JANUARY 2015 TO DECEMBER 2018

### 2018 SURVIVAL RATES BY STAT CATEGORY

STS Benchmark (%)	perative Mortality Rate (%)	Discharge Mortalities	Total Volume	Primary Procedure
0.4	0.0	0	94	STAT 1
1.4	1.9	1	53	STAT 2
1.9	5.9	1	17	STAT 3
5.8	4.9	2	41	STAT 4
10.8	0.0	0	2	STAT 5

CONGENITAL HEART OPERATIONS ARE GROUPED BY THE COMPLEXITY OF THE PROCEDURE INTO WHAT ARE KNOWN AS STAT CATEGORIES. STAT CATEGORY 1 INCLUDES THE LEAST COMPLEX OPERATIONS, WHICH ARE ASSOCIATED WITH THE LOWEST RISK OF MORTALITY, AND STAT CATEGORY 5 INCLUDES THE MOST COMPLEX OPERATIONS, WHICH ARE ASSOCIATED WITH THE HIGHEST RISK OF MORTALITY. STAT MORTALITY CATEGORIES WERE DEVELOPED BY STS IN COLLABORATION WITH THE EUROPEAN ASSOCIATION FOR CARDIOTHORACIC SURGERY (EACTS).

OPERATIVE MORTALITY IS DEFINED AS A DEATH THAT OCCURS DURING THE HOSPITAL STAY IN WHICH THE PROCEDURE WAS PERFORMED NO MATTER HOW LONG THE PATIENT REMAINS IN HOSPITAL AFTER THE OPERATION; AT ANOTHER HOSPITAL BECAUSE THE PATIENT WAS TRANSFERRED BUT WAS NEVER DISCHARGED; OR WITHIN 30 DAYS OF THE OPERATION EVEN IF THE PATIENT IS DISCHARGED HOME.

 $SOURCE: TABLE\ 1,\ THE\ SOCIETY\ OF\ THORACIC\ SURGEONS\ (STS)\ AUGUST\ 2019\ DATA\ HARVEST\ REPORT\ FOR\ THE\ PERIOD\ ENDING\ DECEMBER\ 2018$ 

**66** Given my daughter's CHD (hypoplastic left heart syndrome), the team was excellent in preparing me for her surgery. Parents can only be so prepared for their child's heart surgery, and BC Children's Hospital did an outstanding job before, during, and after surgery.

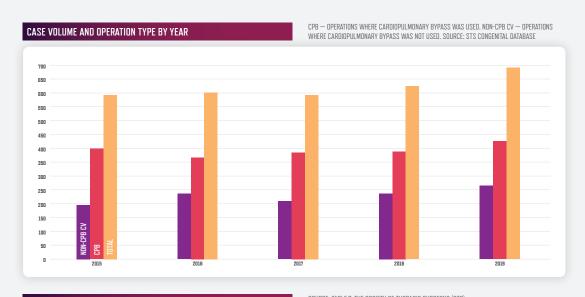
Survey Respondent, 2018-19 Home Centre Survey, Vancouver BC

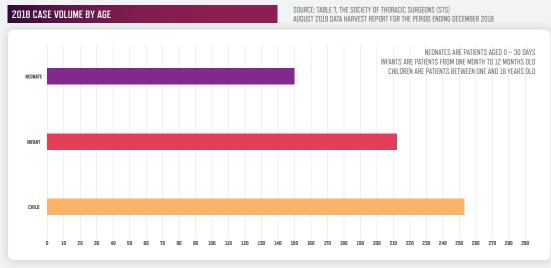
Overall fantastic care, great support by everyone involved. We were lucky enough to live a short walk away from BC Children's and had a very strong family support network available at home. We could not wish for a better team of professionals taking care of our newborn boy's heart. Huge Thank YOU!

Survey Respondent, 2018-19 Home Centre Survey, Vancouver BC

### **Metrics that Matter**

### SURGERY AT THE STOLLERY CHILDREN'S HOSPITAL







### SURVIVAL RATES AND LENGTHS OF STAY BY BENCHMARK PROCEDURE, LAST FOUR YEARS

	Case Volume	Hospital Survival Rate (%)	STS Benchmark (%)	Hospital LOS (days)	STS Benchmark (days)
Coarctation of the Aorta (COA) repair (off bypass)	105	97.1	98.8	9.0	12.1
Ventricular Septal Defct (VSD) repair	116	98.3	99.5	5.0	9.2
Tetralogy of Fallot (TOF) repair	79	98.7	98.9	8.0	11.7
Atrioventricular Septal Defect (AVSD), complete repair	59	100.0	97.9	8.0	17.9
Arterial Switch Operation (ASO)	43	100.0	97.9	11.0	17.4
Glenn/Hemifontan Procedure	91	96.7	98.0	8.0	14.2
Fontan Procedure	73	97.3	99.0	10.0	13.3
Truncus Arteriosis repair	13	84.6	91.0	23.0	29.
Norwood Procedure	57	91.2	85.5	35.0	48.4

FOR THE PERIOD COVERING JANUARY 2015 - DECEMBER 2018, LENGTH OF STAY (LOS) REFERS TO THE LENGTH OF TIME A POST-OPERATIVE PATIENT STAYS IN THE HOSPITAL. MEDIAN LENGTHS OF STAY ARE REFLECTED. SOURCE: TABLE 18, THE SOCIETY OF THORACIC SURGEONS (STS) AUGUST 2019 DATA HARVEST REPORT FOR JANUARY 2015 TO DECEMBER 2018

### 2018 SURVIVAL RATES BY STAT CATEGORY

STS Benchmark (%	Operative Mortality Rate (%)	Discharge Mortalities	Total Volume	Primary Procedure
0.4	0.0	0	147	STAT 1
1.4	1.3	2	154	STAT 2
1.9	2.3	1	44	STAT 3
5.1	4.8	4	83	STAT 4
10.	7.7	1	13	STAT 5

CONGENITAL HEART OPERATIONS ARE GROUPED BY THE COMPLEXITY OF THE PROCEDURE INTO WHAT ARE KNOWN AS STAT CATEGORIES. STAT CATEGORY 1 INCLUDES THE LEAST COMPLEX OPERATIONS, WHICH ARE ASSOCIATED WITH THE LOWEST RISK OF MURITALITY, AND STAL CATEGORY 5 INCLUDES THE MOST COMPLEX OPERATION.

WHERE FIFTURE OPER BY STS IN CALL BARDRATION WITH THE FURIPRY ASSOCIATION FOR CARRIOTHARDRICS INIGERY (FACTS).

OPERATIVE MORTALITY IS DEFINED AS A DEATH THAT OCCURS DURING THE HOSPITAL STAY IN WHICH THE PROCEDURE WAS PERFORMED NO MATTER HOW LONG THE PATIENT REMAINS IN HOSPITAL AFTER THE OPERATION; AT ANOTHER HOSPITAL BECAUSE THE PATIENT WAS TRANSFERRED BUT WAS NEVER DISCHARGED; OR WITHIN 30 DAYS OF THE OPERATION EVEN IF THE PATIENT IS DISCHARGED HOME.

SOURCE: TABLE 1, THE SOCIETY OF THORACIC SURGEONS (STS) AUGUST 2019 DATA HARVEST REPORT FOR JANUARY 2015 TO DECEMBER 2018

Stollery Children's Hospital was amazing in all kinds of ways - Good health care, excellent doctors & nurses & surgeons. We spent a lot of time in the Stollery from birth & on. We felt welcomed & involved in our daughters care. Nothing but amazing.

Survey Respondent, 2018-19 Home Centre Survey, Regina SK

**16** The care at the Stollery was outstanding. I felt well informed that my child would be well taken care of, and that the best possible care was in place for us. Thank you to the staff, doctors, and nurses who helped the two of us get through the procedure and took care of us when we were worried, sad or scared. I am forever grateful.

Survey Respondent, 2018-19 Home Centre Survey, Calgary AB

Metrics that Matter FAMILY SATISFACTION



HOME CENTRE

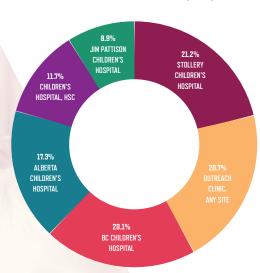
# **Family Satisfaction**

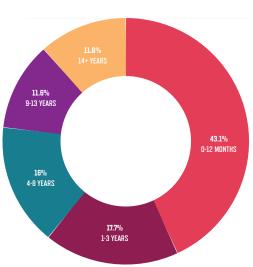
### **Home Centre Survey Results**

In 2018-19, the WCCHN Nursing Coordinators Committee ran a fifth year of their Family Satisfaction Survey. This year's survey focused on delivering meaningful data back to "Home Centres" where patients are seen for their regular cardiac appointments. By capturing information about the patient and family perspective of receiving services at their home centre, the WCCHN hopes to learn more about whether or not patient and family needs and expectations are being met. This allows us to continue improving the quality of service delivery. Surveys were distributed quarterly to any family receiving a surgical procedure or cardiac catheterization in that survey year. 1117 surveys were distributed and 182 were returned (response rate 16.3%).









50%

HALF OF FAMILIES TRAVEL FROM A DIFFERENT CITY TO THEIR HOME CENTRE FOR THEIR REGULAR CARDIAC APPOINTMENTS >1HR

AVERAGE TRAVEL TIME TO HOME CENTRE

96.9%

OF FAMILIES WHO ARE SEEN IN AN OUTREACH CLINIC PREFER THIS OVER TRAVELLING TO THE NEAREST REFERRAL CENTRE Metrics that Matter FAMILY SATISFACTION



TRAVEL

### **Travelling for a Heart Procedure**

- Half the survey respondents indicated their child had never received a heart procedure (surgery or cardiac catheterization) before
- Almost three quarters of families were aware that their child's case may have been reviewed by many specialists across western Canada at Surgical Case Conference. Knowing that their child's case had been discussed at surgical conference did not impact overall satisfaction scores (p=0.0006)
- 60% were required to travel to a different centre for their child's procedure
- Those who drove (vs air travel) were more likely to be satisfied overall (p<.0001)
- Average distance travelled to a procedure centre was 575.8 km
- Travelling less than 500 kms for a medical procedure was correlated with higher satisfaction scores (p=0.0005)

60%
WERE REQUIRED TO TRAVEL TO A DIFFERENT CENTRE

DIFFERENT CENTRE

2/3
FLEW BY PLANE
AWAY IN DAYS

16
FELT READY TO GO
FELT READY TO GO

### **Preparing to Go**

- 95% felt well prepared by their home centre to go. Those who felt their child was prepared well for their age gave higher satisfaction ratings (p<.0001)
- 97.2% felt prepared for the routine pre-procedure tests like ECG or ECHO
- 96% felt their home centre helped them to have a good understanding of their heart condition before going. Those who understood their condition tended to give higher overall satisfaction ratings (p<.0001)</li>
- 92.8% felt their home centre helped them to have a good understanding of the procedure before going
- 68% received a teaching session at their home centre before going. When receiving a
  teaching session, 98.3% agreed it was helpful and 93% said it helped them to prepare for the
  real experience. Those who found the teaching sessions helpful were more satisfied overall
  (p<.0001). Those who felt the teaching sessions prepared them for the real experience were
  more satisfied overall (p=0.0279)</li>
- 96% knew who to contact if they had questions

We were very thankful about the cardiac care that my child received. When we went to BC Children's Hospital for her heart surgery everything, every detail has been taken care of. Our social worker, the nursing staff and cardiologist from our home centre and the cardiologist in BC were very accommodating and helpful. We had an awesome experience! Thank you!!!

**Metrics that Matter FAMILY SATISFACTION** 

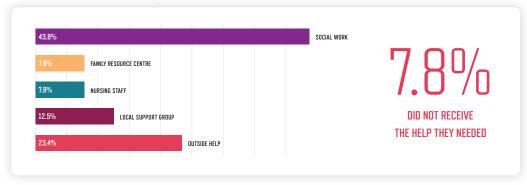


### **Difficulties Encountered**

### **Financial Strain**

1/3 of families experienced financial strain when travelling to another centre for their child's procedure. The experience of financial strain was likely to impact overall satisfaction scores (p=0.0154).

WHEN ADDRESSING FINANCIAL STRAIN. HELP WAS RECEIVED FROM:



### **Difficulty Making Travel Arrangements**

One in four families experienced difficulty making travel arrangements. Difficulty making travel arrangements may impact overall satisfaction scores (p=0.0888).

WHEN ADDRESSING TRAVEL DIFFICULTIES, HELP WAS RECEIVED FROM:



OF FAMILIES BELIEVE THEY ARE RECEIVING THE BEST MEDICAL CARE AVAILABLE FOR THEIR HEART CONDITION AT THEIR HOME CENTRE

97.2% 92.2% 150%

OF FAMILIES FEEL THEY PARTNER WITH THEIR MEDICAL TEAM IN THE PLANNING AND DECISION MAKING PROCESS FOR THEIR CHILD'S CARE

OF FAMILIES ARE UNSURE OF WHETHER OR NOT THERE IS A FAMILY SUPPORT **GROUP AVAILABLE TO THEM IN THE** CITY OF THEIR HOME CENTRE

**Metrics that Matter FAMILY SATISFACTION** 

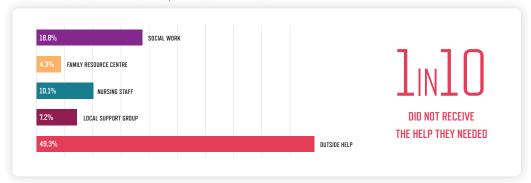


**DIFFICULTIES** 

### **Difficulty Making Arrangements at Home**

37.9% of families had trouble making arrangements at home when preparing to leave for the procedure centre. Although more than one third of families experienced difficulty making arrangements at home, the difficulty encountered did not impact overall satisfaction (p=0.9720).

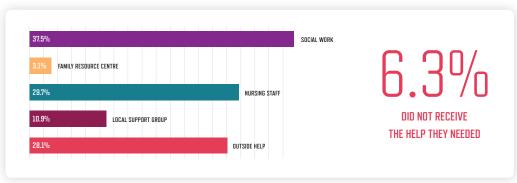
WHEN ADDRESSING HOME ARRANGEMENTS. HELP WAS RECEIVED FROM:



### **Difficulty Accessing Emotional Support**

35.2% of families had difficulty accessing the emotional support they felt they needed when travelling to another site for their heart procedure. Provision of emotional supports while preparing was correlated with a higher degree of overall satisfaction (p=0.0502).

WHEN SEEKING EMOTIONAL SUPPORT, HELP WAS RECEIVED FROM:



FELT THEIR HOME CENTRE HELPED THEM TO HAVE A GOOD UNDERSTANDING OF THE PROCEDURE BEFORE GOING

92.8% | 575KM

AVERAGE DISTANCE TRAVELLED TO A PROCEDURE CENTRE WAS 575.8 KM

KNEW WHO TO CONTACT IF THEY HAD QUESTIONS Metrics that Matter FAMILY SATISFACTION



RETURNING HOME

### **Returning Home**

- When patients reported feeling prepared to return home, overall satisfaction scores were higher (p=0.0397)
- After returning home, 97% of patients were able to get the follow up appointments at their home centre on the timeframe recommended by the procedure centre
- 92% said the information they received from their home centre after the procedure was the same as what the procedure centre had told them. When families felt the information between the two centres was the same, they tended to report higher overall satisfaction (p=0.0024)
- One in ten families felt the communication between the two centres could have been better

97%

OF PATIENTS WERE ABLE TO GET THE FOLLOW UP APPOINTMENTS AT THEIR HOME CENTRE ON THE TIMEFRAME RECOMMENDED 92%

SAID THE INFORMATION RECEIVED FROM THEIR HOME CENTRE AFTER THE PROCEDURE MATCHED THE INFORMATOIN FROM THE PROCEDURE CENTRE 10%

ONE IN TEN FAMILIES FELT THE COMMUNICATION BETWEEN THE TWO CENTRES COULD HAVE BEEN BETTER

**66** The care we have received in our home centre and surgical centre have been outstanding. The staff are thorough, informative, accommodating and compassionate. We feel fortunate to have received such world class care for our daughter so close to home.

Survey Respondent, 2018-19 Home Centre Survey

**16** The Drs and nurses were professional, compassionate and empathetic. They thoroughly explained everything to me in fine detail. I never felt confused, or lost in anything.

Survey Respondent, 2018-19 Home Centre Survey

**66** [Our surgical centre] was amazing. The nurses were well trained and cared for our child. The surgeon was friendly, knowledgeable and did a great job in the surgery. We felt comfortable and trusted the surgical team. When arriving at [our home centre], our cardiologist provided the care our child needed. She answered our questions and followed up on care. She was cautious with diagnosing and followed through on findings. We are so lucky to be at both centres.

Survey Respondent, 2018-19 Home Centre Survey



# Factors most likely to influence overall satisfaction:

TRAVEL TIME
DISTANCE TRAVELLED
MODE OF TRANSPORTATION
PROVISION OF FAMILY CENTRED CARE
AWARENESS OF LOCAL SUPPORT GROUPS
PREPARATION BEFORE GOING
UNDERSTANDING OF DIAGNOSIS
RECEIVING TEACHING SESSIONS THAT WERE HELPFUL IN PREPARING THEM FOR THE EXPERIENCE
FINANCIAL STRAIN
ACCESS TO EMOTIONAL SUPPORTS WHILE PREPARING
DISCHARGE PREPARATION BEFORE RETURNING
CONSISTENT INFORMATION BETWEEN SITES
UNIVARIATE DESCRIPTIVE ANALYSIS PROVIDED BY DR. G. HANSEN, ROYAL UNIVERSITY HOSPITAL, SASKATOON, SASKATCHEWAN

**66** Overall very pleased! We feel very fortunate to live where we do and have the care that we have.

BIVARIATE STRATIFIED ANALYSIS USING CHI-SQUARE PROVIDED BY AHS DATA INTEGRATION, MEASUREMENT & REPORTING (DATA & ANALYTICS), EDMONTON, ALBERTA

Survey Respondent, 2018-19 Home Centre Survey

**66** We have always had amazing care @ both our centres. We always know what's ahead. Survey Respondent, 2018-19 Home Centre Survey

### **GROWING IMPACT**

### OUR **HISTORY**

1992

INDEPENDENTLY AND IN ISOLATION

**ACROSS THE WESTERN** 

**WESTERN CANADIAN** PROVINCES RECOGNIZE A NEED TO ENGAGE INTERPROVINCIAL **COLLABORATION WHERE SURGICAL VOLUMES** ARE LOW AND THE POPULATION IS WIDELY DISPERSED

1994

**PUBLIC EVENTS** 

REGARDING SURGICAL

CANADA LEAD TO A

PEDIATRIC CARDIAC

**EVENTUAL CLOSURE** 

OF SMALLER SURGICAL

INQUEST AND THE

MORTALITY IN WESTERN

1997

2000

2001

PEDIATRIC CARDIAC SERVICES OPERATE

**4 SURGICAL PROGRAMS PROVINCES** 

> A RECOMMENDATION IS PUT FORTH FOR **REGIONALIZATION OF** PEDIATRIC CARDIAC SURGICAL CARE, DRIVING **VOLUMES TO THE** LARGER CENTRES IN THE **WESTERN PROVINCES**

**PROGRAMS** 

**WESTERN DEPUTY** MINISTERS OF HEALTH PROPOSE THE CONCEPT OF THE WCCHN

PEDIATRIC CARDIAC SERVICES COMMITTEE **DEVELOPS A REGIONAL** APPROACH TO THE **DELIVERY OF SERVICE** AND RECOMMENDS THE **ESTABLISHMENT OF THE WESTERN CANADIAN** CHILDREN'S HEART **NETWORK** 

FINAL REPORT OF THE IMPLEMENTATION **COMMITTEE IS ISSUED** 

AFFILIATION OF THE FIVE PEDIATRIC CARDIAC **CENTRES IS FORMALIZED** 

**CORE FUNCTIONS ARE IDENTIFIED** 

**20 STRATEGY** RECOMMENDATIONS **EMERGE** 

KPMG CONSULTANTS **ISSUES WCCHN IMPLEMENTATION** 

FRAMEWORK

A COMMON DATABASE IS DISCUSSED

WCCHN TERMS OF REFERENCE ARE DEVELOPED

2018 2003 2004 2006 2011 2014 THE WCCHN OFFICE IS **GOVERNANCE** WCCHN DATABASE CARDIOACCESS FIRST SITE GOES LIVE **OFFICE TEAM EXPANDS ESTABLISHED WITHIN COMMITTEES BEGIN** IS IMPLEMENTED AND WITH ADDITION OF IT IS UPGRADED TO WITH ACC IMPACT **CAPITAL HEALTH (NOW** MEETING ON A **GOES LIVE IN EACH OF** SYSTEMS ANALYST CENTRIPETUS REGISTRY **ALBERTA HEALTH REGULAR BASIS** THE FIVE CENTRES (2019) CLINICAL CARDIOACCESS CORE DATABASE SERVICES) WCCHN DATABASE PERMANENT DATABASE **GOES LIVE** TRANSITIONS FROM OPERATIONS COMMITTEE FIRST COORDINATOR PROJECT IS INITIATED MANAGER IS RECRUITED HONOS DIAGNOSIS/ AND STEERING SURGICAL DATA IS IS HIRED COMMITTEE ARE AND HIRED PROCEDURE CODING OFFICE TEAM GROWS SUBMITTED TO THE TO IPCCC CODING AMALGAMATED INTO A WITH ADDITION OF INFORMATION SOCIETY OF THORACIC UNIFIED INTEGRATED NOMENCLATURE **ADMINISTRATIVE** MANAGEMENT SURGEONS AND REGULAR **ADVISORY BOARD** SUPPORT AND A **AGREEMENT IS FULLY BENCHMARKING BEINGS** TEMPORARY DATA **EXECUTED QUALITY ANALYST** TO TRAIN CODING

SPECIALISTS ACROSS

**ALL SITES** 

BIENNIAL REPORT 2018-19 & 2019-20

# WCCHN Supports Knowledge Dissemination

### **Helping Siblings Cope**

Parents know their children best. Brothers and sisters can be anxious, too. This brochure helps families balance the needs of siblings affected by Congenital Heart Disease in their family. Order your copies by contacting our office.

### **Fetal Cardiology Resource and Education**

Developed and designed by the Stollery Children's Hospital with WCCHN member-site consultation, this handbook prepares families referred to Stollery for services following prenatal diagnosis of Congenital Heart Disease. WCCHN is happy to produce these handbooks for our Saskatoon and Winnipeg sites.

### **Pediatric Heart Transplant Management: Clinical Practice Guidelines**

Used by more than 20 centres around the world including Germany, Boston, Stanford, and Toronto, WCCHN is pleased to sponsor print production of the collaboratively developed Pediatric Heart Transplant Guidelines.

### **Prepaid access to PedHeart Resource**

The most comprehensive site of its kind, PedHeart Resource is devoted exclusively to congenital heart disease education. Including detailed defect and treatment descriptions, in depth tutorials, a searchable image library, and collections of patient handouts, our staff tell us this resource is useful for both patient consultation and continuing education. In the past two years, we have had 448 new accounts registered using the WCCHN corporate subscription, a value equivalent to > \$46k USD! Prepaid access to this resource is available to all cardiac staff at any WCCHN member site.

### WCCHN's Nursing Coordinators Committee (NCC) Literature Review

Parental Experience of PTSD Following Pediatric Cardiac Surgery

Clinical Considerations and Implications for Cannabis use in the Pediatric Cardiac Population

### Jordan's Principle Info Session for the WCCHN Integrated Advisory Board

Hosted by the First Nations and Inuit Health Branch (FNIHB), Indigenous Services Canada, this session addressed topics including equity of access, substantive equality, and provision of culturally appropriate services for ensuring that First Nations children have access to the services they need.

# **Financial Statements**

### STATEMENT OF OPERATIONS AS AT MARCH 31, 2020

GOVERNMENT FUNDING BY PROVINCE	2018/19	2019/20
British Columbia	229,125	233,707
Alberta	305,500	311,610
Saskatchewan	76,375	77,902
Manitoba	152,750	155,805
Total Revenue Received	763,750	779,024
Deficit/Surplus Carry Forward	128,725	155,915

### STATEMENT OF RESULTS AS AT MARCH 31, 2020

EXPENDITURES	2018/19	2019/20
Operating Costs	15,130	20,802
Patient and Family Centred Care	3,332	2,469
Travel and Meetings	10,000	8,811
Data Platform	87,581	47,290
Contracted Services	212,723	188,690
Salary and Benefits	407,794	400,627
Integrated Advisory Board Series	n/a	45,326
Total Expenditure	736,560	714,015

### **Western Canadian Children's Heart Network**

Alberta Children's Hospital 2888 Shaganappi Trail NW Calgary, AB T3B 6A8

Phone: 403-955-7562 Fax: 403-668-2168 Email: WCCHN@ahs.ca

wcchn.ca







BC Children's Hospital 4480 Oak Street Vancouver, BC V6H 3V4





Stollery Children's Hospital 8440 112th Street NW Edmonton, AB T6G 2B7





Alberta Children's Hospital 2888 Shaganappi Trail NW Calgary, AB T3B 6A8





Jim Pattison Children's Hospital 103 Hospital Drive Saskatoon, SK S7N 0W8





Children's Hospital, HSC 685 Williams Avenue Winnipeg, MB R3E 0Z2