

Timely Access to Child Health Services

Professor William Cole MSc, PhD, FRACS, FRCSC Director, Division of Pediatric Surgery Stollery Children's Hospital University of Alberta Edmonton, Alberta, Canada Medical Lead, Alberta Surgical Wait Times Project





Background to this presentation

Our hospital waiting list pain will only get worse

- by: Grant McArthu; Lucie van den Berg
- From Herald Sun
- January 06, 2012 12:00AM

Hospital	Waiting List 2010/11	Waiting List 2011/12	Diff	Elective Surgery 2010/11	Elective Surgery 2011/12	Diff
METROPOLITAN						
Peninsula	1,680	1,645	- 35	6,280	6,140	- 140
Southern Health	5,900	6,685	+785	22,258	20,400	-1,858
Eye and Ear	3090	2580	-510	11,920	11,470	-450
Royal Women's	750	806	+ 56	3,467	3,860	+ 393
St Vincent's	1201	1215	+14	5,411	5,532	+ 121
Western Health	5900	3675	-2,225	14,000	11,936	- 2,064
Royal Children's	1,700	3850	+2,150	7,600	6,750	- 850
Northern	2,100	2,100	0	8,100	7,884	- 216
Mercy	1,113	1,162	+ 49	6,300	6,215	- 85
Melbourne	1,800	2,195	+ 395	7,906	7,780	- 126
Eastern	3,650	4,963	+ 1,313	13,650	12,684	- 966
The Austin	2,742	3,499	+ 757	10,400	10,150	- 250
The Alfred	2,200	3,100	+ 900	11,300	10,000	-1,300
TOTAL	33,826	37,475	+3,649	128,592	120,801	-7,791

Alberta Health Services Background to this presentation



National definitions for elective surgery urgency categories

Under the National Health Reform Agreement, the Standing Council on Health have requested the Australian Institute of Health & Welfare work together with the Royal Australasian College of Surgeons to develop new national definitions for elective surgery urgency categories including not ready for care to be used in all Australian public hospitals.



Content of presentation

- Children's hospitals of Canada
- Timely access to clinical services is a key issue
- Patient focused approach (diagnosis- and acuity- based) to measure, monitor and <u>manage</u> waiting lists for any clinical service
- Canadian Pediatric Surgical Wait Times Project
- Alberta Surgical Wait Times Project
- Summary



Canadian pediatric hospitals





Western Canadian Child Heart Network

Delivering world-class cardiac care to children in Western Canada

An Intro to WCCHN



Search Site



Mailing Address:

Garneau Professional Building Room 260, 11044-82 Avenue Edmonton, AB T6G OT2

Phone: (780) 407-1519 Fax: (780) 407-1521 Contact Us



New research & Projects

Long-term Outcomes in Children Undergoing Cardiac Surgery with and without Acute Kidney Injury

Family Resilience Study – Safeguarding the Heart Child Research Program



Timely access to clinical services



Many steps for patients

Many delays possible

Today's focus is on access to hospital-based scheduled (elective) surgical services



Canadian Pediatric Surgical Wait Times Project





References

- Wright JG et al. Development of pediatric wait time access targets. Can J Surg 54:107-10;2011
- Wright JG et al. Waiting for children's surgery in Canada: the Canadian Pediatric Surgical Wait Times Project. CMAJ 183:E559-64;2011
- Fixler T et al. Pediatric surgical capacity and demand: analysis reveals a modest gap in capacity and additional efficiency opportunities. Healthc Q Spec no 3:28-34;2011



Priorities & target times

- Acuity-based
 - Category 1 (urgent) <30 days</p>
 - Category 2 (semi-urgent) <90 days</p>
 - Category 3 (non-urgent) <365 days</p>
- Diagnosis- & acuity-based
 - Pediatric Canadian Access Targets for Surgery (pCATS) – evidence- and consensus-based



pediatric Canadian Access Targets for Surgery - pCATS

- Standardized methodology for measuring and comparing pediatric surgical wait times across Canada
- Developed by over 100 pediatric surgeons across Canada from all surgical subspecialties and accepted by the Pediatric Surgical Chiefs of Canada
- Diagnosis- and acuity-based priority classification with associated maximum target times
- Evidence/consensus based
- 857 diagnoses with associated W1 (clinic), W2 (scheduled OR) & E (emergency OR) access targets



pCATS – Data Elements in Each Spreadsheet Row





OR booking form – patient registration

Surgeons' offices

OR booking office

Surgical information system

Operating rooms

Site wait times lead



How to Use pCATS in OR Booking

- Surgeon selects unique pCATS code from specialty list
- Surgeon adds pCATS code to the OR Booking Request Form
- OR Booking Office staff enters pCATS code into their Surgical Information System which links the code with the corresponding diagnosis, priority and maximum target time
- The priority dictates the "demand window" starting from the Patient Ready-to-Treat Date

Service	Diagnosis	pCATS Code	Within
General Surgery	Inguinal hernia: Incarcerated, non-reducible	3169	24 hours
General Surgery	Inguinal hernia: <1 year non-incarcerated	3167	3 weeks
General Surgery	Inguinal hernia: >1 year non-incarcerated	3168	3 months



Surgery Demand Window - Scheduling

Patient Ready-to-Treat (RTT) Date + Maximum Target Time (MTT)

Demand Window

Maximum Target Time = 6 Weeks



Benefits of model:

- 1. Considers all cases in the queue
- 2. Considers clinical acuity in prioritizing cases





2007 to June 2012: 273,852 cases - 255,660 completed; 18,192 waiting

Alberta Health Services Canadian Pediatric Surgical Wait Times Project % Waiting and Completed Cases Beyond Target Times



National Data



Canadian Pediatric Surgical Wait Times Project

- Strengths:
 - Standardized diagnoses and targets (pCATS)
 - National reference data for measuring, monitoring & managing surgical wait times
 - Essential as each Province has only 1 5 children's hospitals
 - Provides some analytical tools capacity analysis
 - Enables sharing of local problems & solutions
 - Facilitates local management of surgical wait times



Canadian Pediatric Surgical Wait Times Project

- Weaknesses:
 - Future National funding uncertainty
 - pCATS has not been updated
 - Limited emphasis on management of waiting lists
 - National improving access for cases completed associated with worsening access for cases waiting



days waiting for surgery

Hospital	Aug 2009 (# days waiting)	July 2012 (# days waiting)	Change
Benchmarking Hospitals (7)	108	174	<u>61 % increase</u>
Stollery Children's Hospital	101	53	47 % decrease



Stollery Children's Hospital





Stollery Children's Hospital

Percentage of Surgical Patients Waiting Beyond Target Time





Stollery Children's Hospital



Alberta Health Services Canadian Pediatric Surgical Wait Times Project % Waiting and Completed Cases Beyond Target Times



National Data



Stollery - otolaryngology





Stollery – plastic surgery





Stollery - dentistry





CMAJ 183:E559-64;2011

"Dental treatment requiring anesthesia uses the most operating room hours at the majority of pediatric hospitals in Canada. Our results identify dentistry as a high-priority area to address and underscore the importance of reducing the prevalence of dental decay."



Dental Care Plans

theage.com.au

Labor plans \$4bn expansion of dental service

Mark Metherell Published: August 30, 2012 - 3:00AM

The arrangements will provide \$2.7 billion for 3.4 million children to get treatment from public or private dentists, capped at \$1000 over two years, starting from January 2014.

Collaboration – primary care teams, pediatricians, dentists & government



Key Dates & Concepts in Wait Times Management





Normalized wait times – scheduling queue





Normalized wait list example

Surgical Priority	Patient Name (Fictitious)	Actual No. of Days	Clinically-Accepted Maximum Wait Time (Days) (B)	Normalized Wait Time (A / B)
1	Maria	25	14	1.7857
2	Brian	265	180	1.4722
3	Michael	27	21	1.2857
4	Jennifer	89	90	0.9888
5	Debbie	305	365	0.8356
6	Kevin	20	42	0.4762

Alberta Health Services Surgical office report – patients listed in normalized wait

times order with scheduling date range



Online, real time reports



Chief of surgery summary report





Local management of surgical waiting lists

- Well maintained waiting lists
 - All patients for surgery registered
 - Patient ready-to-treat dates current
 - Appropriate pCATS code used
- Queue-based scheduling rather than opportunitybased (random scheduling) – 'right patient at the right time'
- Identify suboptimal processes and resource limitations
- Identify, implement & evaluate solutions



Capacity Analysis – OR Allocation



The pie chart shows that a significant % of Dr. X's children are waiting too long for surgery. However, the Demand vs. Capacity chart shows that Dr. X has sufficient OR time to keep pace with surgical demand.



Capacity Analysis – OR & Beds



Limited # beds for sleep apnea patients to stay overnight



Our local strategies

- Optimize processes
- Resource changes:
 - Anesthesia staffing
 - OR allocation Moving from historical to patient wait times – based allocation
 - 20% vs 40% summer OR closures
 - Doubling # of ORs (including an emergency OR)
 - Day ward to be also used as a 24 h surgical unit
 - Improved hospital bed usage
 - New cardiovascular ICU



Dynamic OR template changes

OR Block Deficits/Surpluses Pre and Post OR Template Changes





	Services		
SERVICE	CATEGORY	CODE	DESCRIPTION
GENERAL	(SUBCATEGORY) ABDOMINAL WALL	W5K1	INCARCERATED HERNIA OF ANY TYPE
GENERAL	ABDOMINAL WALL	W5L9	INGUINAL OR FEMORAL HERNIA UNCOMPLICATED
GENERAL	ABDOMINAL WALL	W5N4	UMBILICAL HERNIA UNCOMPLICATED
GENERAL	ABDOMINAL WALL	W5P0	INCISIONAL OR OTHER HERNIA UNCOMPLICATED
GENERAL	BREAST	W5U9	BENIGN BREAST DISEASE EXCLUDING ABSCESS
GENERAL	BREAST (? CANCER)	W5X2	BREAST MASS UNDIAGNOSED FOR BIOPSY
GENERAL	BREAST (CANCER)	W5Z8	BREAST CANCER INFLAMMATORY FOR DEFINITIVE SURGERY

W609

lberta Health

BREAST (CANCER)

GENERAL

Adult tier 1 targets – CABG; cataracts; joint replacements; cancers

SURGERY

BREAST CANCER NON INFLAMMATORY FOR DEFINITIVE

www.albertahealthservices.ca

(aCATS)

MAX WAIT TIME

WITHIN 1 WEEK

WITHIN 26 WEEKS

WITHIN 26 WEEKS WITHIN 6 WEEKS WITHIN 3 WEEKS

WITHIN 1 WEEK

WITHIN 3 WEEKS

Adult Coding Access Targets For Surgery



Can J Cardiol 22:679-683;2006

Treating the right patient at the right time: Access to cardiac catheterization, percutaneous coronary intervention and cardiac surgery

Michelle M Graham MD¹, Merril L Knudtson MD², Blair J O'Neill MD³, David B Ross MD⁴, for the Canadian Cardiovascular Society Access to Care Working Group

Evidence- & consensus-based priority system – each diagnosis with several levels of acuity that determine the priority & maximum target times



Cancer Care Ontario – Surgical Targets

- Priority level I (Emergency)
 - CNS tumour with decreasing level of consciousness
 - Colorectal cancer with obstruction or life threatening bleeding
 - Laryngeal cancer with airway obstruction
- Priority level II (< 14 days)
 - Most CNS tumours
 - Rapidly evolving ovarian cancer
- Priority level III (<28 days)
 - THE EXPERT PANEL HAS SUGGESTED THAT MOST CANCERS FALL IN THIS PRIORITY LEVEL
- Priority level IV (<84 days)
 - "low risk" prostate cancer (early stage, low Gleason score, low PSA level where surgery recommended)
 - "low risk" thyroid cancer
 - Other low risk, indolent cancers



Gynecology

Statement on Wait Times in Obstetrics and Gynaecology

COMMITTEE ON WAIT TIMES

Scott Farrell, MD, FRCSC (Co-Chair), Halifax NS Charmaine Roye, MD, FRCSC (Co-Chair), Brantford ON Joan Crane, MD, FRCSC, St John's NF Don Davis, MD, FRCSC, Medicine Hat AB Mark Heywood, MD, FRCSC, Vancouver BC André Lalonde, MD, FRCSC, Ottawa ON Nicolas Leyland, MD, FRCSC, Toronto ON Vyta Senikas, MD, FRCSC, Ottawa ON **Project Manager**

Christiane Menard, SOGC

This Policy Statement was prepared by the SOGC ad hoc Committee on Wait Times and was reviewed, amended, and approved by the Executive and Council of the Society of Obstetricians and Gynaecologists of Canada.

J Obstet Gynaecol Can 2008;30(3):248-257



Electronic Surgical Access



Novari Surgical Access electronically links the Surgeons' offices, OR Department and the Pre-Surgical Team. Everyone communicates in real time and is always on the same page.



Summary

- Timely access to clinical services is a key issue
- Patient focused approach (diagnosis- and acuity- based) to measure, monitor and <u>manage</u> waiting lists can be applied to any clinical service
- Quality of local data is critical for local change management and for central reporting
- Local change management (processes and resources) needs to be a major focus of wait times projects
- Hospitals need appropriate electronic tools for the measurement and management of waiting lists



Timely Access to Child Health Services

Professor William Cole MSc, PhD, FRACS, FRCSC Director, Division of Pediatric Surgery Stollery Children's Hospital University of Alberta Edmonton, Alberta, Canada Medical Lead, Alberta Surgical Wait Times Project

