Brief to the House of Commons' Standing committee on Health: The Role of the Federal Government in improving Access to Organ Donation

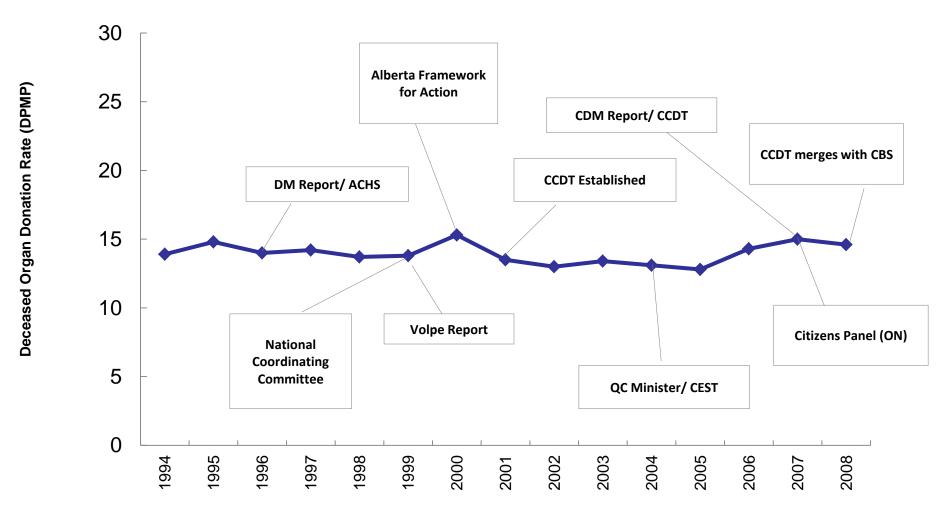
Norman M Kneteman

MD, MSc, FRCSC, FACS, MSM

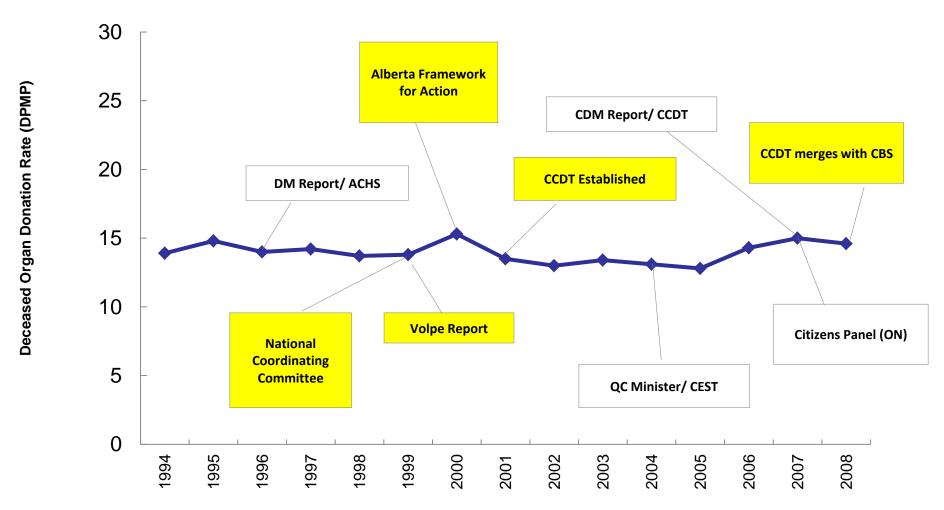
Professor and Director of Division of Transplant Surgery
University of Alberta

Zone Chief Transplantation, Alberta Health Services

Canada: The need for ODT re-design was recognized, but little improvement seen: 1994-2008

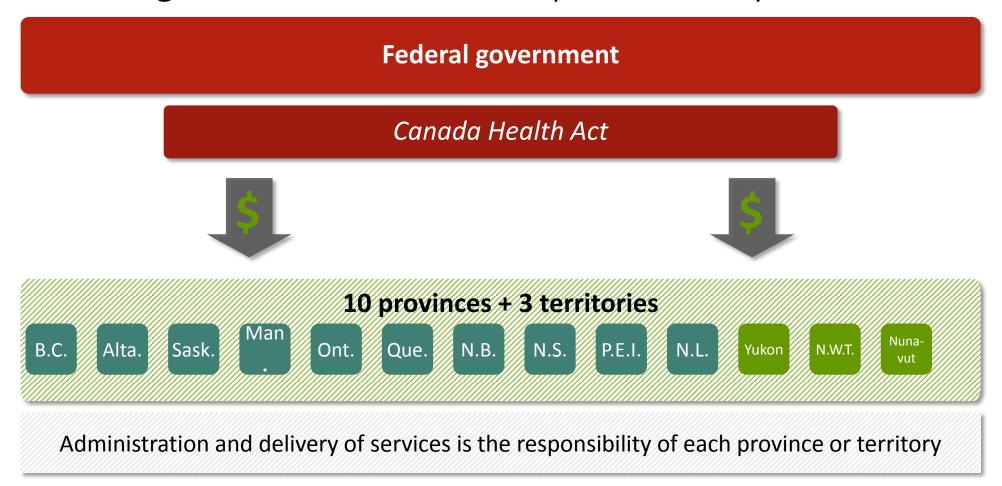


Canada: The need for ODT re-design was recognized, but little improvement seen: 1994-2008



Organ and tissue donation and transplantation program

Canada's organ donation and transplantation system





Provincial Organ Donation Organizations









Alberta Health Services













Elements of High Performing Donation Systems

- 1. System-wide donor coordinators & donation physicians
- 2. Medical record review to identify missed donation opportunities
- 3. On line intent-to-donate registries, legal authorization to proceed
- 4. Legislated mandatory referral to ODOs (standardized clinical triggers)
- 5. Implementation of leading practices- DBD, DCD
- 6. Professional education
- 7. Timely performance data, data transparency
- 8. ICU/transplant/hospital capacity
- 9. ODO funding
- 10. National coordinating agency





Deceased Donation: Canadian Strategies

1. ICU engagement and ownership

- Partnership with Canadian Critical Care Society, Canadian Association of Critical Care Nurses
- Communities of Practice

2. Professionalization of donation services

Nurse coordinators, ICU donation physicians

3. Research to inform health policy & practices

 CBS, Canadian Critical Care Trials Group, Canadian National Transplant Research Network, independent

4. National leading practice guidelines for each step of donor process

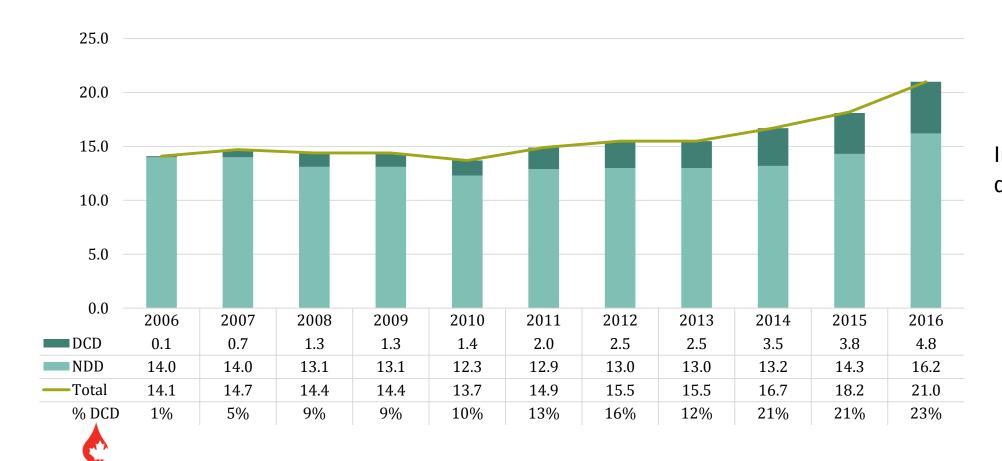
- best available evidence
- consensus process
- embedded knowledge translation
- peer reviewed publication



Deceased Donation in Canada

Canadian Blood Services it's in you to give

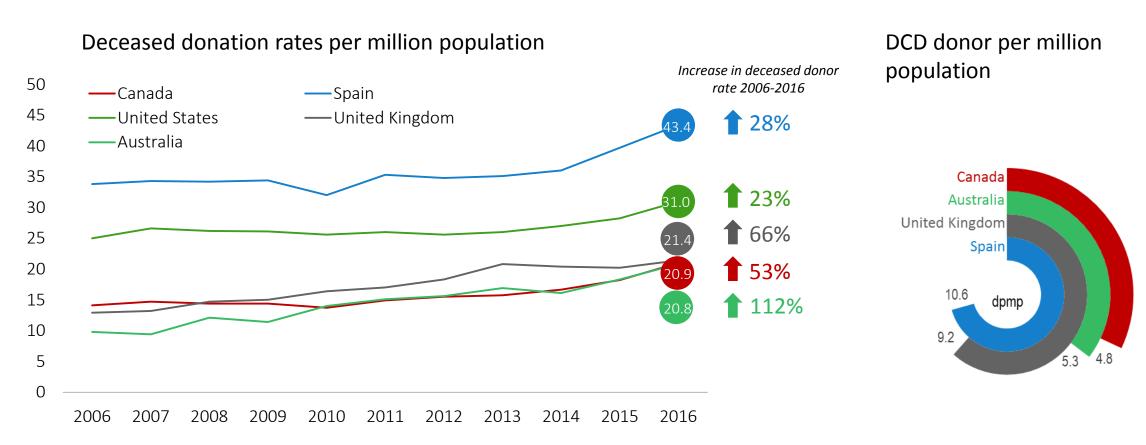
Deceased donors in Canada per million population by type, 2006-2016



49%
Increase in total deceased donor rate (2006-2016)

Deceased donation performance results

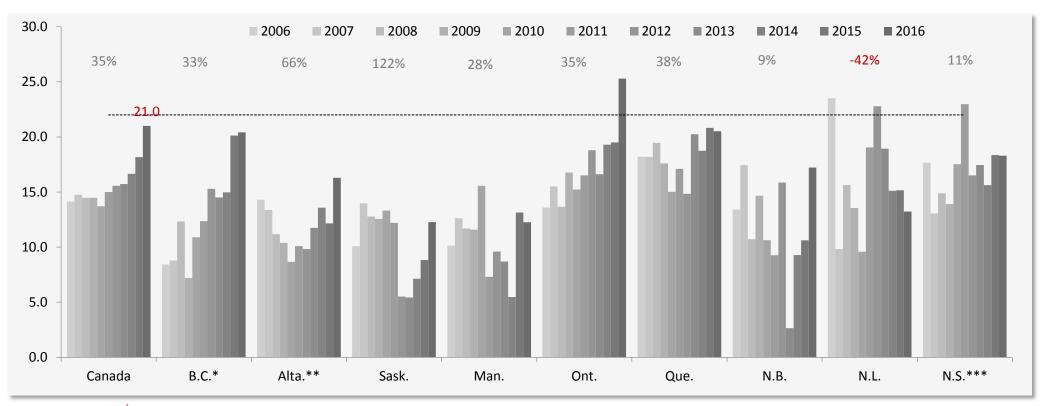
International Donation Comparison





Deceased Donation in Canada

Deceased organ donation rates PMP by province over time, 2006-2016



22.0Current Rate as of 2017



^{*}Rates for BC - population of Yukon is included

^{**}Rates for Alberta - populations of NWT & Nunavut are included.

^{***}Rates for NS – population of PEI is included.

Factors contributing to higher donation rates

	B.C.	ALTA.	SASK.	MAN.	ONT.	QUE.	N.B.	N.S.	N.L.
Mandatory referral		•*		•	•	•	•	_	
Donation physicians	•	A		•	•	A	•	•	

1. Donation physicians

2. Mandatory referral of potential donors

3.DCD implementation

Number of donors, 2015	95	52	10	17	269	172	8	20	8
2011-2015 % change in DPMP	76	33	-17	89	22	26	14	-20	-20

Mandatory consideration

- Implementation complete or near completion
- Implementation in progress
 - Implementation not started

Canadian Blood Services
it's in you to give

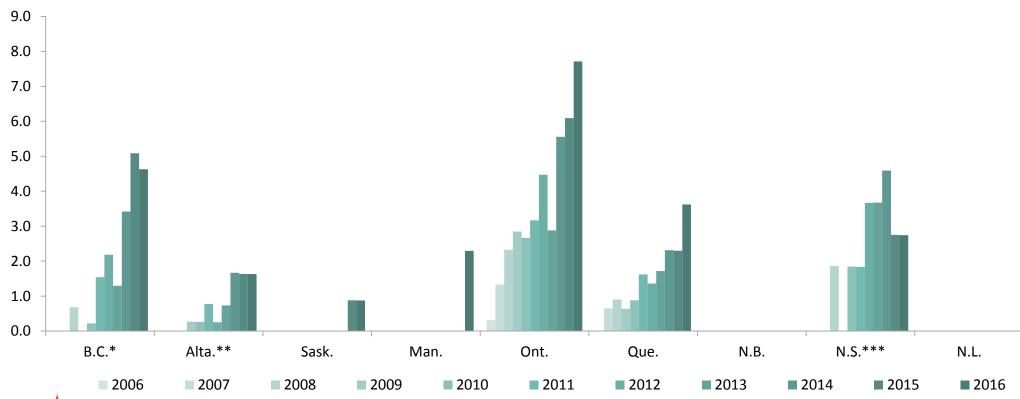
^{*} The population of Yukon is included in the calculation of this rate.

^{***} The populations of Nunavut and the Northwest Territories are included in the calculation of this rate.

^{****} Donors from Prince Edward Island are included in the calculation of these rates.

Deceased Donation in Canada

DCD donors per million population by province and year, 2006–2016



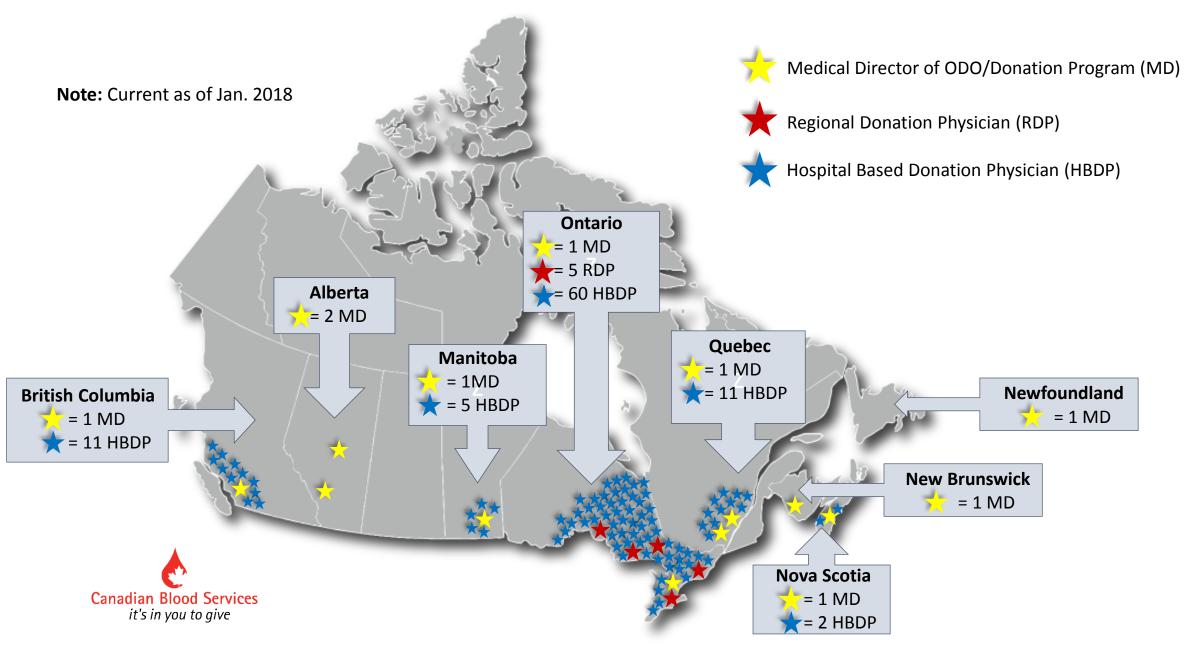


^{*}Rates for BC - population of Yukon is included

^{**}Rates for Alberta - populations of NWT & Nunavut are included.

^{***}Rates for NS – population of PEI is included.

Implementation of Donation Physicians in Canada (n=103)



Deceased donation

Deceased donation: Summary

- The national number of deceased donors is up by 64% since 2006
- The national number of deceased donor transplants is up by 46% since 2006
- Major driver = DCD
- Canada's deceased donation rate is now among the top 20 in the world
- Local, provincial and national programs have all contributed to progress in Canada's organ ODT system by implementing nationally agreed to leading practices
- In Canada, deceased donation rates are the highest in four jurisdictions (B.C., Ont., Que. and N.S.)
- While progress is encouraging, more work is needed to bring Canada closer to the best deceased donation rate in the world
- Provinces that have implemented features of high performing donation systems are seeing even greater results



Where can a national system add to performance

- Where the entire Canadian population of donors is needed to address a problem
- Supporting implementation of strategies proven to increase donation across all provinces
- Building a national database of activity and outcomes for organ donation and transplantation to support decision making and research
- Stability and long term funding for a national agency to support and guide donation and transplantation

Where can a national system add to performance

Where the entire Canadian population of donors is needed to address a problem

Highly sensitized kidney and heart recipients
 Highly Sensitized Patient (HSP) Program

Paired kidney living donor exchange
 Kidney Paired Donation (KPD) Program

High Status liver and heart transplants
 National Organ Waitlist (NOW)

Supporting implementation of strategies proven to increase donation across all provinces

- Mandatory referral of potential donors
- Implementation of donation physicians/professionals
- Implementation of donation after cardiac death programs
- Building a national database of activity and outcomes for organ donation and transplantation
 - Canadian Transplant Registry (CTR)
- Stability and long term funding for a national agency to support and guide donation and transplantation
 - CBS ODT Section

Where can a national system add to performance

- Where the entire Canadian population of donors is needed to address a problem
- Supporting implementation of strategies proven to increase donation across all provinces
- Building a national database of activity and outcomes for organ donation and transplantation to support decision making and research
- Stability and long term funding for a national agency to support and guide donation and transplantation