

August 4, 2022

**Delivered by email and filed on RESS**

Nancy Marconi  
Registrar  
Ontario Energy Board  
2300 Yonge Street, 27<sup>th</sup> Floor  
Toronto, ON, M4P 1E4

Dear Ms. Marconi:

**Re: Ontario Energy Board File No. EB-2022-0012  
Sun-Canadian Pipe Line Application for Leave to Construct NPS 12 East Sixteen  
Mile Creek Pipeline Replacement Project in the Town of Milton, Ontario  
Revised HDI Cost Claim**

We are counsel to the Haudenosaunee Development Institute (“**HDI**”). Please find enclosed HDI’s revised cost claim documents in EB-2022-0012 pursuant to the Ontario Energy Board’s *Practice Direction on Cost Awards* (the “**Practice Direction**”).

A discrepancy between the legal time dockets and the claimed hours on the form submitted on July 21, 2022 was brought to our attention on July 29, 2022. The enclosed documents have been revised to remedy this discrepancy. The form has also been revised to remove HST from the consultant fees.

Please let us know if there are any additional documents required for this corrected filing. We appreciate the opportunity given to revise and thank you for your patience.

Yours truly,

**GILBERT’S LLP**



Jack MacDonald

# Ontario Energy Board COST CLAIM FOR HEARINGS



## Affidavit and Summary of Fees and Disbursements

This form should be used by a party to a hearing before the Board to identify the fees and disbursements that form the party's cost claim. Paper and electronic copies of this form and itemized receipts must be filed with the Board and served on one or more other parties as directed by the Board in the applicable Board order. Please ensure all required (yellow-shaded) fields are filled in and the Affidavit portion is signed and sworn or affirmed.

### Instructions

- Required data input is indicated by yellow-shaded fields. Formulas are embedded in the form to assist with calculations.
- All claims must be in Canadian dollars. If applicable, state exchange rate and country of initial currency.  
Rate: \_\_\_\_\_ Country: \_\_\_\_\_
- A separate "Detail of Fees and Disbursements Being Claimed" (comprising a "Statement of Fees Being Claimed" and a "Statement of Disbursements Being Claimed") is required for each lawyer, analyst/consultant and articling student/paralegal. However, only one "Summary of Fees and Disbursements" covering the whole of the party's cost claim should be provided.
- The cost claim must be supported by a completed Affidavit signed by a representative of the party.
- A CV for each consultant/analyst must be attached unless provided to the Board as prescribed on the Cost Award Tariff.

Except as provided in section 7.03 of the Practice Direction on Cost Awards, itemized receipts must be provided.

File # EB-	2022-0012	Process:	Application for Leave to Construct NPS 12 East Sixteen
Party:	Haudenosaunee Development Institute	Affiant's Name:	Jack MacDonald
HST Number:	N/A	HST Rate Ontario:	0.00%
Full Registrant	<input type="checkbox"/>	Qualifying Non-Profit	<input type="checkbox"/>
Unregistered	<input type="checkbox"/>	Tax Exempt	<input checked="" type="checkbox"/>
Other	<input type="checkbox"/>		

### Affidavit

I, Jack MacDonald, of the City/Town of Toronto  
in the Province/State of Ontario, swear or affirm that:

1. I am a representative of the above-noted party (the "Party") and as such have knowledge of the matters attested to herein.
2. I have examined all of the documentation in support of this cost claim, including the attached "Summary of Fees and Disbursements Being Claimed", "Statement(s) of Fees Being Claimed" and "Statement(s) of Disbursements Being Claimed".
3. The attached "Summary of Fees and Disbursements Being Claimed", "Statement(s) of Fees Being Claimed" and "Statement(s) of Disbursements Being Claimed" include only costs incurred and time spent directly for the purposes of the Party's participation in the Ontario Energy Board process referred to above.
4. This cost claim does not include any costs for work done, or time spent, by a person that is an employee or officer of the Party as described in sections 6.05 and 6.09 of the Board's Practice Direction on Cost Awards.

Signature of Affiant

Sworn or affirmed before me at the City/Town of Toronto,  
in the Province/State of Ontario, on August 3, 2022.  
(date)

**Ontario Energy Board**  
**COST CLAIM FOR HEARINGS**



**Affidavit and Summary of Fees and Disbursements**

**Commissioner for taking Affidavits**

**File #** EB- 2022-0012 **Process:** Application for Leave to Construct NPS 12 East Sixteen

**Party:** Haudenosaunee Development Institute

**Summary of Fees and Disbursements Being Claimed**

Legal/consultant/other fees	\$	41,276.00
Disbursements	\$	-
HST	\$	-
<b>Total Cost Claim</b>	<b>\$</b>	<b>41,276.00</b>

**Payment Information**

Make cheque payable to: The Haudenosaunee Development Institute

Send payment to this address: Sunrise Ct  
Ohswegen, ON  
N0A 1M0

**Ontario Energy Board**  
**COST CLAIM FOR HEARINGS**  
**Affidavit and Summary of Fees and Disbursements**



# Ontario Energy Board

## COST CLAIM FOR HEARINGS



### Detail of Fees and Disbursements Being Claimed

File # EB- <u>2022-0012</u>	Process: <u>Application for Leave to Construct NPS 12 East Sixte</u>
Party: <u>Haudenosaunee Development Institute</u>	Service Provider Name: <u>Tim Gilbert</u>
<div style="display: flex; justify-content: space-around;"> <div> <p><b>SERVICE PROVIDER TYPE</b> (check one)</p> <p>Legal Counsel <input checked="" type="checkbox"/></p> <p>Articling Student/Paralegal <input type="checkbox"/></p> <p>Consultant <input type="checkbox"/></p> <p>Analyst <input type="checkbox"/></p> </div> <div> <p>Year Called to Bar</p> <p style="border: 1px solid black; padding: 2px;">1990</p> </div> <div> <p>Completed Years Practising/Years of Relevant Experience</p> <p style="border: 1px solid black; padding: 2px;">32</p> </div> </div>	
<p>For Consultant/Analyst: <input type="checkbox"/> CV attached <span style="margin-left: 100px;">HST Rate Charged (enter %):</span> <span style="border: 1px solid black; padding: 2px;">0.0%</span></p> <p><input type="checkbox"/> CV provided within previous 24 months</p>	
<p>Hourly Rate: <span style="border: 1px solid black; padding: 2px;">\$330</span></p>	

Statement of Fees Being Claimed					
	Hours	Hourly Rate	Subtotal	HST	Total
<b>Pre-hearing Conference</b>					
Preparation		\$ 330.00	\$ -	\$ -	\$ -
Attendance		\$ 330.00	\$ -	\$ -	\$ -
<b>Technical Conference</b>					
Preparation		\$ 330.00	\$ -	\$ -	\$ -
Attendance		\$ 330.00	\$ -	\$ -	\$ -
<b>Interrogatories</b>					
Preparation	1.50	\$ 330.00	\$ 495.00	\$ -	\$ 495.00
Responses	3.80	\$ 330.00	\$ 1,254.00	\$ -	\$ 1,254.00
<b>Issues Conference</b>					
Preparation		\$ 330.00	\$ -	\$ -	\$ -
Attendance		\$ 330.00	\$ -	\$ -	\$ -
<b>ADR - Settlement Conference</b>					
Preparation		\$ 330.00	\$ -	\$ -	\$ -
Attendance		\$ 330.00	\$ -	\$ -	\$ -
Proposal Preparation		\$ 330.00	\$ -	\$ -	\$ -
<b>Argument</b>					
Preparation	50.30	\$ 330.00	\$ 16,599.00	\$ -	\$ 16,599.00
<b>Oral Hearing</b>					
Preparation		\$ 330.00	\$ -	\$ -	\$ -
Attendance		\$ 330.00	\$ -	\$ -	\$ -
<b>Other Conferences</b>					
Preparation		\$ 330.00	\$ -	\$ -	\$ -
Attendance		\$ 330.00	\$ -	\$ -	\$ -
<b>Case Management</b>			\$ -	\$ -	\$ -
<b>TOTAL SERVICE PROVIDER FEES</b>			\$ 18,348.00	\$ -	\$ 18,348.00

**Ontario Energy Board**  
**COST CLAIM FOR HEARINGS**  
**Detail of Fees and Disbursements Being Claimed**



File # EB- 2022-0012

Process: Application for Leave to Construct NPS 12 East Sixte

Party: Haudenosaunee Development Ir

Service Provider Name: Tim Gilbert

Statement of Disbursements Being Claimed			
	Net Cost	HST	Total
Scanning/Photocopy		\$ -	\$ -
Printing		\$ -	\$ -
Courier		\$ -	\$ -
Telephone/Fax		\$ -	\$ -
Transcripts		\$ -	\$ -
Travel: Air		\$ -	\$ -
Travel: Car		\$ -	\$ -
Travel: Rail		\$ -	\$ -
Travel (Other):		\$ -	\$ -
Parking		\$ -	\$ -
Taxi		\$ -	\$ -
Accommodation		\$ -	\$ -
Meals		\$ -	\$ -
Other:		\$ -	\$ -
Other:		\$ -	\$ -
Other:		\$ -	\$ -
<b>TOTAL DISBURSEMENTS:</b>	\$ -	\$ -	\$ -

# Ontario Energy Board

## COST CLAIM FOR HEARINGS



### Detail of Fees and Disbursements Being Claimed

File # EB- <u>2022-0012</u>	Process: <u>Application for Leave to Construct NPS 12 East Sixte</u>
Party: <u>Haudenosaunee Development Institute</u>	Service Provider Name: <u>Jack MacDonald</u>
<div style="display: flex; justify-content: space-around;"> <div> <p><b>SERVICE PROVIDER TYPE</b> (check one)</p> <p><b>Legal Counsel</b> <input checked="" type="checkbox"/></p> <p><b>Articling Student/Paralegal</b> <input type="checkbox"/></p> <p><b>Consultant</b> <input type="checkbox"/></p> <p><b>Analyst</b> <input type="checkbox"/></p> </div> <div> <p><b>Year Called to Bar</b></p> <p style="border: 1px solid black; padding: 2px; text-align: center;">2020</p> </div> <div> <p><b>Completed Years Practising/Years of Relevant Experience</b></p> <p style="border: 1px solid black; padding: 2px; text-align: center;">2</p> </div> </div>	
<p>For Consultant/Analyst: <input type="checkbox"/> CV attached <span style="margin-left: 100px;"><b>HST Rate Charged (enter %):</b></span> <span style="border: 1px solid black; padding: 2px;">0.0%</span></p> <p><input type="checkbox"/> CV provided within previous 24 months</p>	
<p><b>Hourly Rate:</b> <span style="border: 1px solid black; padding: 2px;">\$170</span></p>	

Statement of Fees Being Claimed					
	Hours	Hourly Rate	Subtotal	HST	Total
<b>Pre-hearing Conference</b>					
Preparation		\$ 170.00	\$ -	\$ -	\$ -
Attendance		\$ 170.00	\$ -	\$ -	\$ -
<b>Technical Conference</b>					
Preparation		\$ 170.00	\$ -	\$ -	\$ -
Attendance		\$ 170.00	\$ -	\$ -	\$ -
<b>Interrogatories</b>					
Preparation	11.10	\$ 170.00	\$ 1,887.00	\$ -	\$ 1,887.00
Responses	8.10	\$ 170.00	\$ 1,377.00	\$ -	\$ 1,377.00
<b>Issues Conference</b>					
Preparation		\$ 170.00	\$ -	\$ -	\$ -
Attendance		\$ 170.00	\$ -	\$ -	\$ -
<b>ADR - Settlement Conference</b>					
Preparation		\$ 170.00	\$ -	\$ -	\$ -
Attendance		\$ 170.00	\$ -	\$ -	\$ -
Proposal Preparation		\$ 170.00	\$ -	\$ -	\$ -
<b>Argument</b>					
Preparation	89.20	\$ 170.00	\$ 15,164.00	\$ -	\$ 15,164.00
<b>Oral Hearing</b>					
Preparation		\$ 170.00	\$ -	\$ -	\$ -
Attendance		\$ 170.00	\$ -	\$ -	\$ -
<b>Other Conferences</b>					
Preparation		\$ 170.00	\$ -	\$ -	\$ -
Attendance		\$ 170.00	\$ -	\$ -	\$ -
<b>Case Management</b>			\$ -	\$ -	\$ -
<b>TOTAL SERVICE PROVIDER FEES</b>			\$ 18,428.00	\$ -	\$ 18,428.00

# Ontario Energy Board

## COST CLAIM FOR HEARINGS



### Detail of Fees and Disbursements Being Claimed

File # EB- 2022-0012

Process: Application for Leave to Construct NPS 12 East Sixte

Party: Haudenosaunee Development Ir

Service Provider Name: Jack MacDonald

Statement of Disbursements Being Claimed			
	Net Cost	HST	Total
Scanning/Photocopy		\$ -	\$ -
Printing		\$ -	\$ -
Courier		\$ -	\$ -
Telephone/Fax		\$ -	\$ -
Transcripts		\$ -	\$ -
Travel: Air		\$ -	\$ -
Travel: Car		\$ -	\$ -
Travel: Rail		\$ -	\$ -
Travel (Other):		\$ -	\$ -
Parking		\$ -	\$ -
Taxi		\$ -	\$ -
Accommodation		\$ -	\$ -
Meals		\$ -	\$ -
Other:		\$ -	\$ -
Other:		\$ -	\$ -
Other:		\$ -	\$ -
<b>TOTAL DISBURSEMENTS:</b>	\$ -	\$ -	\$ -



# Ontario Energy Board

## COST CLAIM FOR HEARINGS



### Detail of Fees and Disbursements Being Claimed

<b>File # EB-</b> <u>2022-0012</u>	<b>Process:</b> <u>Application for Leave to Construct NPS 12 East Sixte</u>
<b>Party:</b> <u>Haudenosaunee Development Institute</u>	<b>Service Provider Name:</b> <u>Aidan Hollis</u>

  

<b>SERVICE PROVIDER TYPE</b> (check one)	<b>Year Called to Bar</b>	<b>Completed Years Practising/Years of Relevant Experience</b>
Legal Counsel <input type="checkbox"/>		20
Articling Student/Paralegal <input type="checkbox"/>		
Consultant <input checked="" type="checkbox"/>		<b>Hourly Rate:</b> <span style="border: 1px solid black; padding: 2px;">\$250</span>
Analyst <input type="checkbox"/>		
For Consultant/Analyst: <input checked="" type="checkbox"/> CV attached		<b>HST Rate Charged (enter %):</b> <span style="border: 1px solid black; padding: 2px;">0.0%</span>
<input type="checkbox"/> CV provided within previous 24 months		

Statement of Fees Being Claimed					
	Hours	Hourly Rate	Subtotal	HST	Total
<b>Pre-hearing Conference</b>					
Preparation		\$ 250.00	\$ -	\$ -	\$ -
Attendance		\$ 250.00	\$ -	\$ -	\$ -
<b>Technical Conference</b>					
Preparation		\$ 250.00	\$ -	\$ -	\$ -
Attendance		\$ 250.00	\$ -	\$ -	\$ -
<b>Interrogatories</b>					
Preparation		\$ 250.00	\$ -	\$ -	\$ -
Responses		\$ 250.00	\$ -	\$ -	\$ -
<b>Issues Conference</b>					
Preparation		\$ 250.00	\$ -	\$ -	\$ -
Attendance		\$ 250.00	\$ -	\$ -	\$ -
<b>ADR - Settlement Conference</b>					
Preparation		\$ 250.00	\$ -	\$ -	\$ -
Attendance		\$ 250.00	\$ -	\$ -	\$ -
Proposal Preparation		\$ 250.00	\$ -	\$ -	\$ -
<b>Argument</b>					
Preparation	18.00	\$ 250.00	\$ 4,500.00	\$ -	\$ 4,500.00
<b>Oral Hearing</b>					
Preparation		\$ 250.00	\$ -	\$ -	\$ -
Attendance		\$ 250.00	\$ -	\$ -	\$ -
<b>Other Conferences</b>					
Preparation		\$ 250.00	\$ -	\$ -	\$ -
Attendance		\$ 250.00	\$ -	\$ -	\$ -
<b>Case Management</b>			\$ -	\$ -	\$ -
<b>TOTAL SERVICE PROVIDER FEES</b>			\$ 4,500.00	\$ -	\$ 4,500.00

# Ontario Energy Board

## COST CLAIM FOR HEARINGS



### Detail of Fees and Disbursements Being Claimed

File # EB- 2022-0012

Process: Application for Leave to Construct NPS 12 East Sixte

Party: Haudenosaunee Development Ir

Service Provider Name: Aidan Hollis

Statement of Disbursements Being Claimed			
	Net Cost	HST	Total
Scanning/Photocopy		\$ -	\$ -
Printing		\$ -	\$ -
Courier		\$ -	\$ -
Telephone/Fax		\$ -	\$ -
Transcripts		\$ -	\$ -
Travel: Air		\$ -	\$ -
Travel: Car		\$ -	\$ -
Travel: Rail		\$ -	\$ -
Travel (Other):		\$ -	\$ -
Parking		\$ -	\$ -
Taxi		\$ -	\$ -
Accommodation		\$ -	\$ -
Meals		\$ -	\$ -
Other:		\$ -	\$ -
Other:		\$ -	\$ -
Other:		\$ -	\$ -
<b>TOTAL DISBURSEMENTS:</b>	\$ -	\$ -	\$ -

# Aidan Hollis

Department of Economics  
University of Calgary  
2500 University Drive  
Calgary, T2N 1N4 Canada

Office Tel: (403) 220-5861  
Facsimile: (403) 220-5861  
e-mail: [ahollis@ucalgary.ca](mailto:ahollis@ucalgary.ca)

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## Education

1990 – 1996 Ph.D., Economics, University of Toronto  
*Dissertation: The Application of Economic Theory to Competition Policy*  
1989 – 1990 M.A., Economics, University of Toronto  
1982 – 1985 M.A., English, Cambridge University

## Professional Experience

2016 – President and Director, Incentives for Global Health  
2009 – Professor (with tenure), University of Calgary  
2008 – 2016 Vice President and Director, Incentives for Global Health  
2003 – 2009 Associate Professor (with tenure), University of Calgary  
2003 – 2004 T.D. MacDonald Chair of Industrial Economics, Competition Bureau, Industry Canada, Ottawa  
1996 – 2003 Assistant Professor, University of Calgary  
1994 – 1995 Instructor, University of Toronto  
1987 – 1989 Loans Officer, Midland Bank Seoul Branch  
1985 – 1987 Trainee, Midland Bank International Division, London

## Awards

### Honours

2021 – Fellow, Global Justice Program, Yale University  
2018 – 2020 Associate Professor (Status only), Faculty of Pharmacy, University of Toronto

2013 - 2014 Assistant Professor (Status only), Faculty of Pharmacy, University of Toronto

2008-13 Adjunct Professor, Centre for Applied Philosophy and Public Ethics, Charles Sturt University, Canberra, Australia

2006-9 Research Fellow, Institute for Advanced Policy Research

2005-6 Academic Director, Centre for Regulatory Economics, Van Horne Institute

2004 “Eminent Scientist of the Year” in the field of Health Economics for Canada, as chosen by International Research Promotion Council (www.irpc.org)

2002 - 6 Research Fellow, Institute of Health Economics

### **Research Grants**

CIHR Project Grant “Evaluating and Informing Canada’s Proposed Pharmaceutical Price Regulations” (\$760,000) [Coapplicant] 2022-2025.

CIHR Network for Global Governance Research on Infectious Diseases “One Health Network for the Global Governance of Infectious Diseases and Antimicrobial Resistance” (\$2,000,000) [Principal Applicant] 2019-2023

Alberta Major Innovation Fund, “Antimicrobial Resistance One Health Consortium”, (\$6,315,000) [Principal Investigator] 2018-2022.

JPIAMR 5th Call Project Grant. €473,068 [Principal Investigator] 2017-2020

CIHR Project Grant (\$328,950) [Principal Investigator] 2017-2020

CIHR Project Grant (\$240,975) [Co-investigator] 2017-2020

CIHR Dissemination Grant (\$25,000) [Co-investigator] 2014

[European Research Council, \(€1,924,738\) \[Co-investigator\] 2014-2019](#)

Government of Quebec (\$50,000) [Principal Investigator] 2012

CIHR Team Grant (\$1,450,166) [Co-investigator] 2011-2016

CIHR Development Grant (\$15,000) [Principal Investigator] 2010-2011

CIHR/Health Canada Team Grant (\$1,500,000) [Co-investigator] 2009-2013

SSHRC Standard Research Grant (\$45,000) [Principal Investigator] 2007-2010

Centre for Regulatory Affairs (\$6,000) 2006

Institute of Health Economics Research Grant (\$5,500) 2005

University of Calgary SSHRC Development Grant (\$1,000) 2002

SSHRC Standard Research Grant (\$50,450) [Principal Investigator] 1999-2002

University Research Grants Committee, Starter Grant (\$9,376) 1997 - 1999

University of Calgary “Research Excellence Envelope” (\$6,000) 1996 -1997

## Scholarships

SSHRC Fellowship, 1992 - 1994

Ontario Graduate Scholarship, 1991 - 1992

Connaught Fellowship, 1990 - 1992

Tallow Chandlers' Award, 1984

## Publications

### Books

- [1] Hollis, Aidan, and Thomas Pogge, *The Health Impact Fund: Making New Medicines Accessible for All*, Incentives for Global Health, 2008.
- [2] Walls, W.D., and Aidan Hollis, eds., *The Alberta Power Market*, Calgary: Van Horne Institute, 2007.

### Peer-Reviewed Journal Articles

(\* indicates student)

- [1] Beall R, Moradpour J, Hollis A. "The private versus public contribution to the biomedical literature during the COVID-19, Ebola, H1N1, and Zika public health emergencies." *PLoS One*, <https://doi.org/10.1371/journal.pone.0258013>.
- [2] \*McCubbin, K, Anholt, R, DeJong E, Hollis A, *et al.* "Knowledge gaps in the understanding of antimicrobial resistance in Canada." *Frontiers in Public Health*, 2021; 9, 1523. <https://doi.org/10.3389/fpubh.2021.726484>
- [3] Beall R, Kesselheim A, Hollis A. "Pre-market development times for innovative vaccines – to what extent are the COVID-19 vaccines outliers?" *Clinical Infectious Diseases*, <https://doi.org/10.1093/cid/ciab389>.
- [4] Beall R, Hollis A, Kesselheim A, Spackman E. "Reimagining pharmaceutical market exclusivities: Should the duration of guaranteed monopoly periods be value-based?" *Value in Health*, 2021; 24(9): 1328-1334. <https://doi.org/10.1016/j.jval.2021.04.1277>
- [5] Lang R, Benham J, \*Atabati O, Hollis A, *et al.* "Attitudes, Behaviours and Barriers to Public Health Measures For COVID-19: A Survey to Inform Public Health Messaging." *BMC Public Health*, 2021; 21 (765), <https://doi.org/10.1186/s12889-021-10790-0>.
- [6] \*Moradpour J, Hollis A. "The economic theory of cost-effectiveness thresholds in health: domestic and international implications." *Health Economics*, 2021; 30(5): 1139-1151. <https://doi.org/10.1002/hec.4247>.

- [7] \*Rahman S, Lindahl O, Morel C, Hollis A. "Market Concentration of New Antibiotic Sales." *Journal of Antibiotics*, 2021; 74(6): 421-423, <https://doi.org/10.1038/s41429-021-00414-5>.
- [8] \*Sahragardjoonegani B, Beall R, Kesselheim A, Hollis A. "Repurposing existing drugs for new uses: A cohort study of the frequency of FDA-granted new indication exclusivities since 1997." *Journal of Pharmaceutical Policy and Practice*, 2021; 14: 3, <https://doi.org/10.1186/s40545-020-00282-8>.
- [9] Zhang W, Sun H, Guh D, Lynd L, Hollis A, Grootendorst P, Anis A. "The impact of tiered pricing framework on generic entry in Canada." *International Journal of Health Policy and Management*, 2020. <https://doi.org/10.34172/ijhpm.2020.215>
- [10] \*Sharma A, Leal J, Kim J, Pearce C, Pillai D, Hollis A. "The Cost of Contact Precautions: A Systematic Analysis." *Canadian Journal of Infection Control*, 2020; 35(4): 163-169. (Winner of the 2020 IPAC Canada Editorial Award & \$1000)
- [11] \*Moradpour J, Hollis A. "Patient income and health innovation." *Health Economics*, 2020; 29(12): 1795-1803. <https://doi.org/10.1002/hec.4160>.
- [12] Beall R, Hollis A. "COVID-19's unprecedented global clinical trial mobilization: Higher, faster, stronger." *Drug Discovery Today*, 2020. <https://doi.org/10.1016/j.drudis.2020.08.001>
- [13] Zhang W, Guh D, Sun H, Lynd L, Hollis A, Grootendorst P, Anis A. "Factors Associated with Drug Shortages in Canada: A Retrospective Cohort Study." *CMAJ Open*, 2020; 8(3): E535-E544. <https://doi.org/10.9778/cmajo.20200036>
- [14] Morel C, Lindahl O, Harbarth S, de Kraker M, Edwards S, Hollis A. "Industry incentives and antibiotic resistance: an introduction to the antibiotic susceptibility bonus" *Journal of Antibiotics*, 2020; 73: 421-428. <https://doi.org/10.1038/s41429-020-0300-y>
- [15] \*Sharma A, Pillai D, Lu M, \*Doolan C, Leal J, Kim J, Hollis A. "Impact of Isolation Precautions on Quality of Life: A Meta-Analysis" *Journal of Hospital Infection*, 2020; 105(1): 35-42. <https://doi.org/10.1016/j.jhin.2020.02.004>
- [16] Beall R, Clement F, Hollis A, Hardcastle L. "How will recent trade agreements that extend market protections for brand-name prescription pharmaceuticals impact expenditures and generic access in Canada?" *Health Policy* 2019;123(11), 1251-1258.
- [17] Hollis A. "Orphan Drug Pricing and Costs: A Case Study of Kalydeco and Orkambi." *Healthcare Policy* 2019;15(1), 70-80.
- [18] \*Jayasundara K, Hollis A, Krahn M, Mamdani M, Hoch J, Grootendorst P. "Estimating the clinical cost of drug development for orphan versus non-orphan drugs." *Orphanet Journal of Rare Diseases* 2019;14:12. [doi.org/10.1186/s13023-018-0990-4](https://doi.org/10.1186/s13023-018-0990-4)

- [19] \*Memedovich KA, Manns B, Beall R, Hollis A, Clement F. "The impact of pharmaceutical rebates on patients' drug expenditures" *Canadian Medical Association Journal* 2019;191(11) E308-E312.
- [20] Hollis A. "Bill C-30: Who wins and who loses in Canada's pharmaceutical patent battles?" *Expert Opinion On Therapeutic Patents*, 2018; 28(1): 1-3.
- [21] Hollis, A. and P. Grootendorst, "A comparison of mechanisms for setting generic drug prices in Canada." *Journal of Generic Medicines*, 2017, Jan;13(1):19-27.
- [22] Hollis, A., "Sustainable Financing of Innovative Therapies: A Review of Approaches." *PharmacoEconomics*, 2016; 34(10):971-80. doi: 10.1007/s40273-016-0416-x.
- [23] Hollis, A., "Generic drugs in Canada: an examination of tiered pricing." *Canadian Medical Association Journal*, DOI:10.1503/cmaj.150395. 2015, Oct; 187(14):1033-1034
- [24] Hollis, A. and P. Grootendorst, "Canada's new generic pricing policy: a reasoned approach to a challenging problem." *Healthcare Policy*, 2015 Aug;11(1):10-14.
- [25] Hollis, A. and P. Maybarduk, "Antibiotic resistance is a tragedy of the commons that necessitates global cooperation." *Journal of Law, Medicine & Ethics* 2015; 43(2): S33-S37.
- [26] \*Shajarizadeh, A, P. Grootendorst, and A. Hollis, "Newton's first law for pharmacies: why entry order matters for generics." *International Journal of the Economics of Business* 2015; 22(2):201-217.
- [27] Roberts, E, M. Herder, and A Hollis, "Fair pricing of 'old' orphan drugs: considerations for Canada's orphan drug policy." *Canadian Medical Association Journal* 2015; 187(6):422-425.
- [28] \*Shajarizadeh, A. and A. Hollis, "Price-Cap Regulation, Uncertainty and the Price Evolution of New Pharmaceuticals." *Health Economics* 2015; 24: 966-977.
- [29] Hollis, A. and Z. \*Ahmed, "The path of least resistance: paying for antibiotics in non-human uses." *Health Policy* 2014, 118: 264-270.
- [30] \*Shajarizadeh, A. and A. Hollis, "Delays in the Submission of New Drugs in Canada." *Canadian Medical Association Journal* 187: E47-51, 2014, cmaj.130814.
- [31] Hollis, A. and Z. \*Ahmed, "Preserving Antibiotics, Rationally." *New England Journal of Medicine* 2013, 369(26): 2474-2476.
- [32] Fellows, GK, and A. Hollis, "Funding innovation for treatment for rare diseases: adopting a cost-based yardstick approach." *Orphanet Journal of Rare Diseases* 2013, 8:180.
- [33] Hollis, A., "Synthetic Biology: Ensuring the Greatest Value." *Systems and Synthetic Biology*, 7(3): 99-105, 2013.

- [34] Grootendorst, P., R. Bouchard, and A. Hollis, "Canada's Laws on Pharmaceutical Intellectual Property: The Case for Fundamental Reform." *Canadian Medical Association Journal*, 184(5): 543-549, 2012.
- [35] Grootendorst, P. and A. Hollis, "The 2011 Canada-European Union Comprehensive Economic and Trade Agreement: an economic impact assessment of the EU's proposed pharmaceutical intellectual property provisions." *Journal of Generic Medicines*, 8(2): 81-103.
- [36] Grootendorst, P., A. Edwards, A. Hollis, D. Levine, and T. Pogge, "New approaches to rewarding pharmaceutical innovation." *Canadian Medical Association Journal*, 183(6): 681-685, 2011.
- [37] Bouchard, R., Cahoy, D., Domeij, B., Dutfeld, G., Faunce, T., Hollis, A., Jones, P., Khader, F., Lexchin, J., Nam, H. and Serrano, J., "Structure-Function Analysis of Global Pharmaceutical Linkage Regulations". *Minnesota Journal of Law, Science & Technology* 12(2): 391-457, 2011.
- [38] Pogge, T., and A. Hollis, "Epilogue - New Drugs for Neglected Diseases." *Cambridge Quarterly of Healthcare Ethics* 20(2), 329-334, 2011.
- [39] \*MacCormack, J., A. Hollis, H. Zareipour, and W. Rosehart, "The Large-Scale Integration of Wind Generation: Impacts on Price, Reliability and Non-Wind Suppliers." *Energy Policy*, 38(7): 3837-3846, 2010.
- [40] Peterson, M., A. Hollis, and T. Pogge, "A Critique in Need of Critique." *Public Health Ethics*, 3(2): 175-185, 2010.
- [41] Banerjee, A., A. Hollis, and T. Pogge, "The Health Impact Fund: Incentives for Improving Access to Medicines." *Lancet* 375 (9709): 166-169, January 9 2010. Reprinted in Labonte R et al, *Global Health Ethics, Public Policy and Challenges for the Future*, Sage, 2011.
- [42] Hollis, Aidan, "Commentary on 'Getting what we pay for: The value-for-money challenge.'" *HealthcarePapers* 9(4): 32-35, October 2009.
- [43] Flynn, Sean, Aidan Hollis, and Mike Palmedo, "An Economic Justification for Open Access to Essential Medicine Patents in Developing Countries," *Journal of Law, Medicine & Ethics*, 37(2): 184-208, Summer 2009.
- [44] Hollis, Aidan, "The Health Impact Fund: A useful supplement to the patent system?" *Public Health Ethics*, 1(2): 124-133, July 2008.
- [45] Boyce, John R. and Aidan Hollis, "Preliminary injunctions and damage rules in patent law." *Journal of Economics & Management Strategy*, 16(2): 385-405, Spring 2007.
- [46] Hollis, Aidan and Arthur Sweetman, "The role of local depositors in controlling expenses in small-scale financial intermediation: an empirical analysis." *Economica*, 74: 713-734, November 2007.
- [47] Hollis, Aidan and Peter Ibbott, "How Parallel Trade Affects Drug Policies and Prices in Canada and the United States." *American Journal of Law & Medicine*, 32 (2&3): 193 – 218, Spring 2006.



- [48] Hollis, Aidan, "How do brands' "own generics" affect drug prices?" *Review of Industrial Organization*, 27(4), 329-350, December 2005.
- [49] Hollis, Aidan, "Comment on 'The Economics of Follow-on Drug Research and Development' by diMasi and Paquette." *Pharmacoeconomics*, 23(12): 1187-1192, December 2005.
- [50] Boyce John R. and Aidan Hollis, "Governance of Electricity Transmission Systems" *Energy Economics* 27(2): 237-255, March 2005. Reprinted in Hollis, Aidan and W. D. Walls, eds., *Alberta Power Market*, Calgary: Van Horne Institute, 2007.
- [51] Hollis, Aidan and Stephen Law, "A National Formulary for Canada." *Canadian Public Policy*, 30(4): 445-452, December 2004.
- [52] Hollis, Aidan, How cheap are Canada's drugs really? *Journal of Pharmacy and Pharmaceutical Sciences*, 7(2): 215-216, June 2004. Reprinted in *Pharma Marketing News* 3(8), September 2004.
- [53] Hollis, Aidan, and Arthur Sweetman. "Microcredit and Famine: The Irish Loan Funds during the Great Famine" *World Development*, 32(9): 1509-1523, September 2004.
- [54] Hollis, Aidan and Lasheng Yuan, "Competition Policy in Open Economies" *International Economic Journal*, 18(2): 179-194, June 2004.
- [55] Hollis, Aidan, "The Anti-Competitive Effects of Brand-Controlled 'Pseudo-Generics' in the Canadian Pharmaceutical Market," *Canadian Public Policy* 29(1): 21-31, March 2003.
- [56] Hollis, Aidan, "Industrial Concentration, Output, and Trade: An Empirical Exploration," *Review of Industrial Organization*, 23(2): 103-119, March 2003.
- [57] Hollis, Aidan, "The Importance of Being First: Evidence from Canadian Generic Pharmaceuticals," *Health Economics* 11: 723-734, December 2002.
- [58] Hollis, Aidan, "The Link between Publicly Funded Health Care and Compulsory Licensing," *Canadian Medical Association Journal* 167: 765-767, October 2002.
- [59] Hollis, Aidan, "The Strategic Implications of Learning by Doing," *International Journal of the Economics of Business* 9(2): 157-174, July 2002.
- [60] Hollis, Aidan, and Arthur Sweetman, "The Life-Cycle of a Microfinance Institution: An Economic Analysis of the Irish Loan Funds," *Journal of Economic Behavior and Organization* 34(3): 291-311, November 2001.
- [61] Hollis, Aidan, "Coauthorship and the Output of Academic Economists," *Labour Economics* 8(4): 503-530, October 2001.
- [62] Hollis, Aidan, "Adverse Selection, Extended Warranties, and Aftermarkets," *Journal of Risk and Insurance*, 66(3): 321-344, September 1999.
- [63] Gallini, N.T., and Aidan Hollis, "A Contractual Approach to Gray Markets," *International Review of Law and Economics*, 19(1): 1-21, March 1999.

- [64] Hollis, Aidan, and Arthur Sweetman, "Microcredit: What Can We Learn From the Past?" *World Development* 26(10): 1875-1891, October 1998.
- [65] Hollis, Aidan, and Arthur Sweetman, "Microcredit in Pre-Famine Ireland," *Explorations in Economic History* 35: 347-380, October 1998.

#### Peer-Reviewed Policy Studies

- [1] Gallini, Nancy and Aidan Hollis. "To Sell or Scale-Up: Canada's Patent Strategy in a Knowledge Economy." IRPP Study #72, August 2019.
- [2] Grootendorst, Paul, and Hollis, Aidan "Managing pharmaceutical expenditure: overview and options for Canada." Canadian Health Services Research Foundation, February 2011.
- [3] Hollis, Aidan, "Generic Drug Pricing and Procurement: A Policy for Alberta." School of Policy Studies Research Papers, Volume 2, Issue 1, February 2009.
- [4] Hollis, Aidan, "Prizes, Advanced Market Commitments, and Pharmaceuticals for Developing Countries." International Centre for Trade and Sustainable Development, October 2007.
- [5] Hollis, Aidan, "The City of Calgary's Ownership of ENMAX Energy Corporation: Value at Risk." Institute for Advanced Policy Research Technical Paper #TP-06010, October 2006.
- [6] Hollis, Aidan, and Aslam Anis "Rx for Canada: Close the Internet Pharmacies." C.D.Howe Commentary 205, October 2004.

#### Peer-Reviewed Book Chapters

- [1] Hollis, Aidan and Paul Grootendorst. "Canada and the United States." In Sabine Vogler, ed., *Medicine Price Surveys, Analyses and Comparisons: Evidence and Methodology Guidance*. Elsevier 2018, pp. 31-43.
- [2] Hollis, Aidan and Paul Grootendorst. "The Price of Exclusivity: The Economics of Patent Extensions and Data Protection." In Bryan Mercurio, Daria Kim, eds., *Contemporary Issues in Pharmaceutical Patent Law: Setting the Framework and Exploring Policy Options*, Routledge, 2017, pp. 189-202.
- [3] Grootendorst, Paul, Aidan Hollis, and Aled Edwards "Patents and Other Incentives for Pharmaceutical Innovation." In AJ Culyer, ed., *Encyclopedia of Health Economics*, Elsevier, 2014, pp. 434-442.
- [4] Outtersen, K, Pogge T and Hollis A, "Combating Antibiotic Resistance through the Health Impact Fund." In *The Globalization of Health Care*, Glenn Cohen, ed., Oxford University Press, 2013.
- [5] Hollis, A, T. Pogge, and D. Schroeder, "Beyond benefit sharing: steps towards realizing the human right to health." In Schroeder, Doris and Lucas, Julie (eds) *Benefit Sharing - From Biodiversity to Human Genetics*, Springer: Berlin, forthcoming 2013.

- [6] Hollis, Aidan, "When patents are not enough: supplementary incentives for pharmaceutical innovation." In *Incentives for Research, Development, and Innovation in Pharmaceuticals* Walter Garcia-Fontes (ed.), Springer, 2011, pp. 39-47.  
  
Translated into Spanish as "Cuando las patentes no bastan: Incentivos adicionales para la innovación farmacéutica." In *Incentivos a la I+D+i de Medicamentos*, Walter Garcia-Fontes (ed.), Springer, 2012
- [7] Comment on "Effects of authorized generics on Canadian drug prices." In *Competition Policy and Intellectual Property*, Marcel Boyer, Michael Trebilcock, and David Vaver (eds.), 2009, pp. 311-315.
- [8] Hollis, Aidan, "Drugs for Neglected Diseases: Incentives for Innovation" in *Pharmaceutical Innovation: Incentives, Competition, and Cost-Benefit Analysis in International Perspective*, Frank Sloan and Chee-Ruey Hsieh (eds.) Cambridge University Press, 2007, pp. 75-90.
- [9] Hollis, Aidan, "Drugs for Rare Diseases: Paying for Innovation" in *Health Services Restructuring in Canada: New Evidence and New Directions*, Charles Beach (ed.) McGill-Queen's University Press, 2006, pp. 155-177.
- [10] Hollis, Aidan, "Neglected Disease Research: Health Needs and New Models for R&D." in P. Illingworth, U. Schlukenk, and G.C. Cohen, *The Power of Pills*, Pluto Press, 2006, pp. 125-133.
- [11] Hollis, Aidan, "Women and Microcredit in History: Gender in the Irish Loan Funds," in Gail Campbell, Beverly Lemire and Ruth Pearson, eds., *Women and Credit: Researching the Past, Refiguring the Future*, Oxford: Berg Press, 2002, pp. 73-89.

#### Non-Peer Reviewed Articles

- [1] Hollis A, Pogge T. "Pharma can shine even more." [G-20 Digest](#). 2021; 1(2): 17-26.
- [2] Hollis A, Busby C. "International fund could drive equitable development of COVID-19 vaccine." [Policy Options](#), 3 April 2020.
- [3] Gallini N, Hollis A. "Why do foreign firms own so many patents on Canadian inventions?" [Policy Options](#), 24 September 2019.
- [4] Fellows G, Dutton D, Hollis A. "Making sure orphan drugs don't get left behind." [School of Public Policy Communiqué](#) 10:6. August 2018. doi.org/10.11575/sppp.v11i0.53048.
- [5] Haider, N., A. Hollis and J. Love, "Delinkage proposals and the measurement of health benefits." *Whittier Law Review* 2014; 35(3):349-362.
- [6] Banerjee, A., A. Hollis, and T. Pogge, "The Health Impact Fund: Meeting the Challenge of Health Impact Assessment." *Journal of Epidemiology and Community Health*, August 2011, 65(Supp 1): A69-A70.

- [7] Hollis, Aidan, and Bryan A. Liang, "Assessing the Effects of Authorized Generics on Consumer Prices." *Journal of Biolaw & Business*, January 2007, 10(1): 10-18.
- [8] Hollis, Aidan, "The economics of compulsory licensing of essential medicines." *Recent Advances and Research Updates*, September 2004, 5(2): 219-225.
- [9] Hollis, Aidan, "The use of the 'pseudo-generic' strategy in the Canadian pharmaceutical market." *World Markets Series Business Briefing: Pharma-generics*, September 2002, pp. 99-102.
- [10] Hollis, Aidan, "Closing the FDA's Orange Book," *Regulation* 24(4): 14-17, Winter 2001.

#### Book Reviews and Letters

- [1] Hollis A, "In defense of Canada's drug plan managers." *CMAJ* 2018 290(25) E771-E772. doi.org/10.1503/cmaj.69951 .
- [2] Pogge, T., Z. Rizvi and A. Hollis, "The Health Impact Fund: a novel way forward." *Blood*, 2013.
- [3] Hoffman, S., T. Pogge, and A. Hollis, "New drug development." *Lancet*, 2011.
- [4] Banerjee, A., A. Hollis, and T. Pogge, "The Health Impact Fund." *Lancet* 375:1393.
- [5] Hollis, Aidan, Review of *An Irish Working Class: Explorations in Political Economy and Hegemony, 1800-1950* by Marilyn Silverman. *Journal of Interdisciplinary History* 33(3): 469-470, Winter 2003.

#### Reports for government and industry

- [1] Hollis, Aidan. "Competitive Dynamics in the Generic Drug Market in Canada." 2020. Report commissioned by Health Canada.
- [2] Hollis, Aidan. "Economic commentary on Raising Canada: A case for investing in children" O'Brien Institute and Children First Canada. 2018. Available from: <https://obrieniph.ucalgary.ca/Economic-analysis-Raising-Canada>
- [3] Hollis, A. "Acceso a medicamentos y políticas de control de precios de fármacos en Ecuador." pp. 81-87. In *Acceso Publico a Medicamentos de Calidad: Las Compras Publicas como mecanismo para garantizar el derecho a la salud*. Servicio Nacional de Contratación Pública, Quito, Ecuador, 2016.
- [4] Cambourieu C, Grootendorst P, Hollis A, Pomey M-P. Fixation des prix des médicaments génériques au Québec. June 2013 Commissaire à la santé et au bien-être du Québec. (58 pages)
- [5] Hollis A, Grootendorst P. Tendering generic drugs: what are the risks? October 2012. Canadian Generic Pharmaceutical Association. (29 pages)

- [6] Hollis A, Grootendorst P. Drug market exclusivity in the EU and Canada: Problems with Norton Rose's Comparative Analysis. January 2012. Canadian Generic Pharmaceutical Association. (7 pages)
- [7] Grootendorst P, Hollis A. The Canada-European Union Comprehensive Economic & Trade Agreement: An economic impact assessment of proposed pharmaceutical intellectual property provisions. February 2011. Canadian Generic Pharmaceutical Association. (82 pages)

## Op-eds

- [1] \*Matthey M, Holzer F, Hollis A, Daly T, "Verdient Malaria kein Biontech?" *Der Freitag*, 27 November 2020.
- [2] Hollis A, Daly T, Holzer F, Pogge T. "Le Fonds d'impact sanitaire, pour une recherche pharmaceutique plus équitable." *Libération*, 9 November 2020.
- [3] Holzer F, Pogge T and Hollis A. "COVID-19 and beyond: how to pay for new pharmaceuticals." *Journal of Medical Ethics Blog*. 25 May 2020.
- [4] Hollis, Aidan. "[Create a health impact fund to spur development and equitable use of a Covid-19 vaccine.](#)" *STAT*, 3 June 2020.
- [5] Hollis, Aidan. "What's the future for Alberta's electricity market?" *Calgary Herald*, 24 May 2019.
- [6] Hollis, Aidan. "Carbon tax is short-changing Albertans in electricity sector." *Calgary Herald*, 13 April 2019.
- [7] Edwards, Aled, and Hollis, Aidan. "Open Source Drug Discovery." Canadian Science Policy Centre. <http://sciencepolicy.ca/news/open-source-drug-discovery> 28 February 2018.
- [8] Hollis, Aidan, "Time to end haphazard pharmacare coverage." *Edmonton Journal*, 22 October 2015.
- [9] Hollis, Aidan, "Charge fees for farm antibiotics to slow the spread of superbugs." *The Conversation*, 8 January 2014.
- [10] Pogge, Thomas, and Aidan Hollis, "Hvordan kan udvikling af nye lægemidler sikres?" *Information* (Copenhagen), 20 July 2010.
- [11] Hollis, Aidan, "The price is wrong." *National Post*, 18 May 2010.
- [12] Pogge, Thomas and Aidan Hollis, "New-drug fund can fix thorny pricing problem." *BusinessDay* (Johannesburg), 11 March 2010.
- [13] Pogge, Thomas, \*Sinead Deery, and Aidan Hollis, "Innovative Health Impact Fund aims to save lives." *Edmonton Journal*, 30 January 2010.
- [14] Pogge, Thomas and Aidan Hollis, "En realistisk plan." *Dagbladet* (Oslo), 25 August 2008.
- [15] Hollis, Aidan, "Secret rebates amount to a tax on patients." *Victoria Times Colonist*, 29 June 2008.

- [16] Hollis, Aidan, "Enmax Energy exposes Calgarians to too much risk." *Calgary Herald*, 16 May 2008.
- [17] Hollis, Aidan, "Canada needs policy on orphan drugs." *Winnipeg Free Press*, 19 December 2006. Reprinted in *Calgary Herald*, 6 January 2007.
- [18] Hollis, Aidan, "Prof defends his argument for selling Enmax." *Calgary Herald*, 4 November 2006.
- [19] Hollis, Aidan, "Close down our web pharmacies." *National Post* 29 October 2004, p. A16.

## Presentations in Conferences and Universities

I have made over 100 invited presentations at conferences and universities.

## Teaching

I have taught graduate and undergraduate courses in microeconomics, industrial organization, and economic regulation at the Universities of Calgary and Toronto.

## Supervision of Graduate Students

### **Current students**

- Sakib Rahman, PhD thesis [Supervisor], The Resistance: The Economics of Antibiotic Usage
- Jason Lee, PhD thesis. University of Toronto [Thesis committee member]. TBD

### **Past students**

- Babak Sahragardjoonegani, MA thesis [Supervisor] 2021. "When the truth hurts: ordinary selling price regulation in a monopoly."
- Anuj Sharma, MA thesis [Supervisor] 2020. "Economic Analysis of Near-Patient Testing for *C. difficile* Implemented in a Large Hospital in Calgary, Canada."
- Javad Moradpour, PhD thesis [Supervisor], 2020, "Economics of Pharmaceutical Innovation."
- Tianjiao (Hilary) Bao, MA thesis [Supervisor] 2018, "Solutions for the Resource Adequacy Issue: Capacity Market, Scarcity Pricing, or Single Buyer Model".
- Robin Lau, PhD thesis, University of Alberta [Thesis committee member] 2017. "Policy Analysis of the Continuous Subcutaneous Insulin Infusion – Access With Evidence Development Scheme in Alberta: A Cost Effectiveness, Value of Information and SWOT Analysis"
- Ali Shajarizadeh, PhD thesis [Supervisor] 2016, "Dynamic pricing in pharmaceutical markets."

- G. Kent Fellows, PhD thesis [Supervisor] 2015, "Select Issues in Applied Regulatory Theory."
- Ethar Ismael, MPharm, University of Toronto, 2013 "Generic drug pricing and substitution in private drug plans in Canada." [Thesis committee member]
- John MacCormack, PhD thesis, 2012 "Prices, Reliability of Supply and Large Scale Wind Generation in Electricity Markets" [Thesis committee member]
- Kent Fellows, MA thesis, 2010, Negotiated Settlements [Supervisor]
- L. So, PhD thesis, 2009, "Microeconomic analyses of health care." [Co-supervisor]
- E. Sawatzky, MEd project, 2009, "The effect of patent duration on pharmaceutical R&D investment." [Supervisor]
- M. Amery, MA thesis, 2007, "A more efficient method for picking standby reserves in the Alberta power market." [Co-supervisor]
- M. Tepczynska, MA thesis, 2003, "An Economic Analysis of the Regulating Reserves Market in Alberta." [Supervisor]
- W. Brown, MEd project, 2002, "Strategic Issues in the Electrical Power Generation Industry." [Supervisor]
- H. Wang, MA thesis, "An Empirical Study of Economies of Scale in the Chinese Railway System." [Supervisor]
- R. Williams, MA thesis, 2002, "Williams on Electricity." [Supervisor]
- K Aksomitis, MA thesis, 2002, "Strategic Behavior in the Alberta Electricity Market." [Supervisor]

I have also acted as examiner for several PhD candidates at University of Calgary, University of Alberta, University of Toronto, and McMaster University.

## Other Professional Activities

- Member, Expert Advisory Group, [Global AMR R&D Hub](#). 2019-2021.
- Member, World Health Organization [Guideline Development Group on the use in food animals of critically important antimicrobial agents for human medicine](#), 2016-17.
- I have acted as referee for books, institutes, and granting agencies (Research Council of Norway, Netherlands Organization for Scientific Research, Agence Nationale de Recherche de France, Social Science and Humanities Research Council of Canada, Canadian Institute for Health Research, National Science Foundation, Rockefeller Foundation), and for over twenty journals (including *American Economic Review*, *Canadian Journal of Economics*, *Health Affairs*, *Health Economics*, *International Journal of Industrial Organization*, *Journal of Economics & Management Strategy*, *Journal of Health Economics*, *Journal of Industrial Economics*, *Journal of Political Economy*, *Management Science*, *Quarterly Journal of Economics*, *RAND Journal of Economics*, and *World Development*).

- I have provided economic commentary from time to time on television news programs and in newspapers.
- Member of the Patented Medicine Prices Review Board's Working Group on Therapeutic Substitution, 2007-8.
- Member of Pfizer Canada Health Technology Assessment Advisory Board, 2010.
- Member of Pfizer Canada Intellectual Property Advisory Board, 2012.
- I have provided evidence in cases before the Federal Court, Federal Court of Appeals, the Supreme Court of Canada, the Ontario Superior Court of Justice, the Competition Tribunal, and the Alberta Energy and Utilities Board, and have consulted for firms, consumer groups, and governments.
- I have acted as an external referee for tenure and promotion decisions at York University, the University of Alberta, Harvard University, University of Waterloo, and Dalhousie University.

## Community Service

- President, Board of Directors, [Amici String Program Association](#), 2009-2012.
- [Brentwood](#) Girls U-12 soccer coach, 2008, 2009

Current as of May 12, 2022



# HOLLIS ECONOMIC ANALYSIS LTD

3100 Conrad Dr. N.W., Calgary, Alberta, T2L 1B4 Canada

Mr Tim Gilbert  
Gilberts LLP  
Toronto

May 11, 2022

Dear Mr Gilbert,

I attach an invoice for work performed by Hollis Economic Analysis Ltd relating mainly to preparation of an affidavit concerning the Nanfan treaty on behalf of HDI.

The principal tasks are detailed on the invoice, which I am sending by email only. (If you require additional information, please let me know by email at [aidanhollis@gmail.com](mailto:aidanhollis@gmail.com). Please mark to my attention.)

Yours truly,

Kumudini Hollis  
Business Manager  
Hollis Economic Analysis Ltd

# HOLLIS ECONOMIC ANALYSIS LTD

3100 Conrad Dr. N.W., Calgary, Alberta, T2L 1B4 Canada

## Invoice

Mr Tim Gilbert  
Gilberts LLP  
Toronto

Our Reference No: 2022-03

May 11, 2022

Item:

<ul style="list-style-type: none"><li>• Conference calls [REDACTED]</li><li>• Analysis of Nanfan treaty rights</li><li>• Drafting of an affidavit</li></ul> <p>details attached</p>	[REDACTED]
[REDACTED]	[REDACTED]
<b>Total Due</b>	[REDACTED]

Due upon receipt.

Please make cheques payable to **Hollis Economic Analysis Ltd.**

BN: **844351908RT0001**

Date	Minutes	Activity
[REDACTED]	[REDACTED]	[REDACTED]
2022-05-03	15	call with TG and TD
2022-05-04	180	Review of cases Preliminary analysis, concall with TG and Gilberts HDI
2022-05-05	180	team
2022-05-06	240	Research and write draft of Nanfan analysis
2022-05-07	210	Complete first draft of Nanfan analysis
2022-05-08	60	concall with HDI team and Detlor
2022-05-09	30	Work on edits
2022-05-10	135	Concall with HDI team and Doolittle; revised draft
2022-05-11	30	Concall with Gilberts HDI team; edits

Total

[REDACTED]