



**Providence
Health Care**
How you want to be treated.



**FACILITY
ENGAGEMENT**
Specialist Services Committee



PHC Physicians
& Surgeons

Planetary Health & Environmental Sustainability at Providence Health Care

Taking Action Together:
Medical Staff and Providence Partners



Dr. Kristine Chapman, Neurologist

Anthony Munster, Executive Director,
Projects, Planning & Facilities Management



Disclosure Statement:

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Speakers Bureau/Honoraria: *N/A*

Consulting Fees: *N/A*

Other: *N/A*

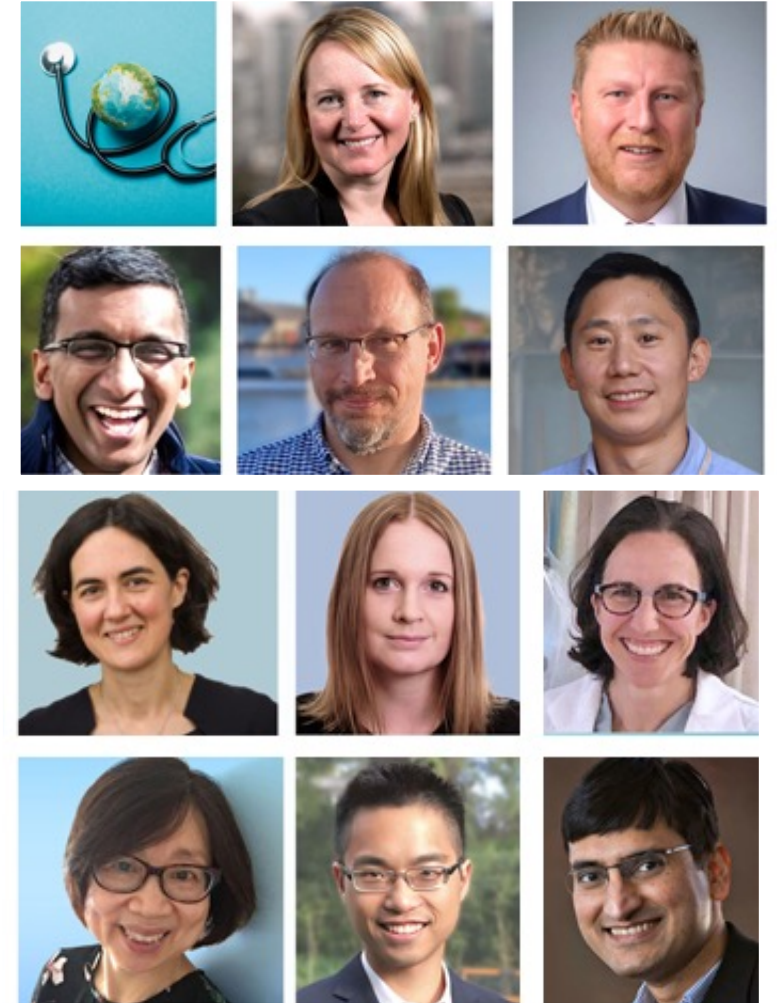


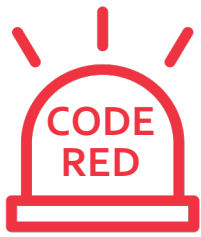
Planetary Health & Environmental Sustainability Engagement Event

January 11, 2024

A catalyst for change

- Build medical staff awareness, engagement in Planetary Health.
- Showcase physician projects underway.
- Increase understanding of our collective impact on Planetary Health.
- Influence environmental sustainability in daily processes, and health authority planning.
- Identify partnership collaboration opportunities.





Setting the context

What more can we do to play our part in the climate emergency?

– Fiona Dalton, President & CEO, Providence Health Care

The landscape of environmental stewardship & health care sustainability

– Dr. Andrea MacNeill, Regional Medical Director of Planetary Health, VCH

PHC's contribution to climate change and initiatives for change

– Anthony Munster, Executive Director, Projects, Planning & Facilities Management, Providence Health Care



“It’s not right to give health care a free pass on planetary health. There is a lot that we can do.

What else are we going to do this year and the next year to play our part in this climate emergency?”

– *Fiona Dalton, CEO*

Projects

Reducing low value care and unnecessary lab testing

– Dr. Andre Mattman, Medical Biochemist



Reducing food waste and improving the food experience for seniors' care

– Dr. Eileen Wong, Family Physician,
Holy Family Hospital



Decreasing the anesthetic agent carbon footprint in the OR

– Dr. Chris Prabhakar, Anesthesiologist



Reducing clinic visits and resource utilization through virtual care and monitoring in cardiac care

– Dr. Shanta Chakrabarti, Cardiologist



Reducing waste in the OR

– Dr. Trina Montemurro, Anesthesiologist



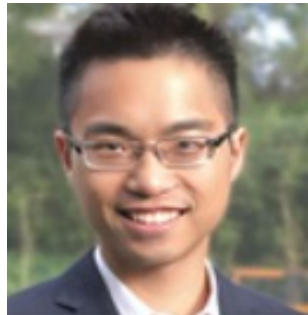
Reducing the impact of pressurized meter dose inhalers

– Dr. Victor Leung, Infectious Diseases Physician,
Medical Microbiologist



Reducing heparin to improve patient outcomes, reduce costs and improve planetary health

– Dr. Tony Wan, Internal Medicine Specialist



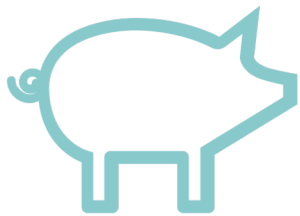
Impact Example

REDUCING HEPARIN: ANTI-COAGULATION STEWARDSHIP

— Dr. Tony Wan, Internal Medicine Specialist

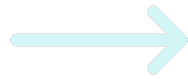


GLOBAL HEPARIN PRODUCTION



1.1 Billion
pigs slaughtered annually

1 serving of pork (100g)
= 12 km of driving



1kg Intestine =
160-260 mg crude
heparin



= Enoxparin 40 mg
Syringe x 1-2 ?



= 6.1 kg CO₂ equivalent
per kg. pig carcass weight
(not accounting for toxic
by products etc)

Impact Example

REDUCING HEPARIN: ANTI-COAGULATION STEWARDSHIP

— Dr. Tony Wan, Internal Medicine Specialist



1

Recognize unnecessary
Heparin use:
low complication risk of
blood clots among many
patients.



2

Target Heparin:
Pharmacist-guided:
adjust prescriptions
to patient risks.



3

Reduce Heparin use
53% reduction
since March 2023
Medicine & Geriatric units

***Bonus:** Environmental practices can save health system costs.*

Impact of the engagement

- **Fostered connections & learning:** partners, physicians, non-physicians
- **Awareness** of PHC Environmental Sustainability Team and work
- **Generated dozens of ideas** from group discussions
- **Catalyzed development** of organization-wide Planetary Health strategic plan
- Created & funded **new Physician Advisor** role



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Insights we can leverage

- Existing opportunities in workplace processes
- Medical staff enthusiasm, ideas
- Opportunities + time to engage
- Learn, collaborate, share widely for collective impact: MSAs, HAs
- Engage partners for action: regional, organizations (e.g. CASCADES)



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