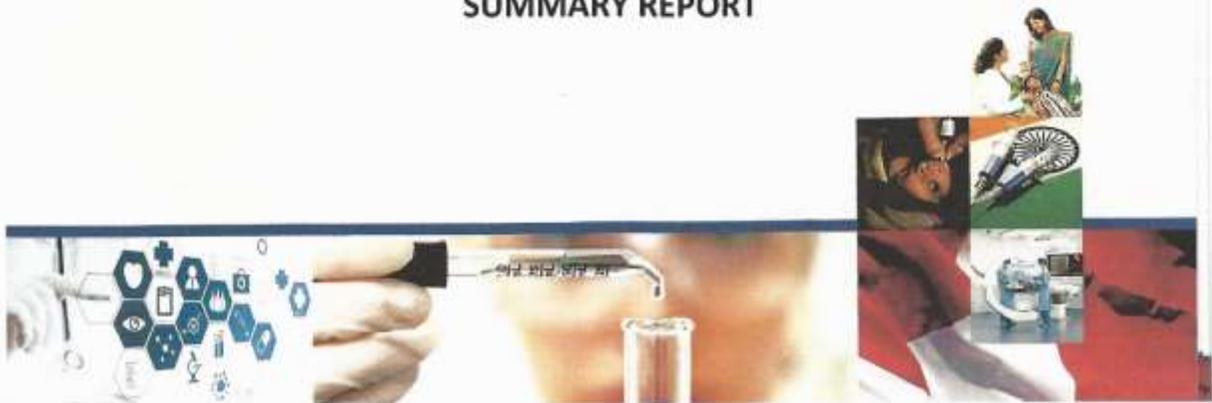




Canada India HEALTHCARE **SUMMIT**

MAY 19 - 20, TORONTO - OMNI KING EDWARD HOTEL

SUMMARY REPORT



CANADA INDIA
FOUNDATION



Democracies Working Together

CANADA INDIA HEALTHCARE SUMMIT, Toronto, Canada
May 19-20, 2015

EXECUTIVE SUMMARY

Canada India Foundation, Canada's premier non-profit public policy organization dedicated to strengthening relations between Canada and India, organized the 5th in the series of its signature Canada India forums, the **Canada India Healthcare Summit**, in Toronto, Canada, on May 19-20, 2015. The Summit continued CIF's tradition of theme-based dialogue on specific areas of mutual interest to Canada and India. It followed the 4 previous theme events, **Canada India Energy Forum (2009)**, **Canada India Mining and Metals Forum (2010)**, **Canada India Agriculture and Food Processing Forum (2012)** and **Canada India Infrastructure Forum (2014)**.

Canada is rightly renowned for its vision and implementation of universal healthcare. Canada's model of universal healthcare is the envy of the world and a source of pride and assurance for Canadians, especially those who have migrated here from various parts of the world. This is a model, aspects of which Canada can share with India for the latter's benefit. On the other hand, delivering universal healthcare presents the challenge of high cost, consuming a high percentage of the nation's Gross Domestic Product (GDP). India, with strengths in knowledge economy, information technology, low-cost manufacture of drugs and a demographic base that lends itself to effective clinical trials, can enable Canada to cost-optimize its healthcare delivery. It is in cognizance of these realities that Canada India Foundation decided to choose Healthcare as the theme for its next Canada India.

As with its earlier forums, CIF adopted a format for the Healthcare Summit consisting of:

- a selection of sub-themes under the chosen theme
- specially invited subject matter expert speakers (5-6 per sub-theme)
- leaders and representatives from both national and provincial/state governments
- industry leaders from private sector
- non-partisan expert observers balancing economic and social priorities of healthcare
- a plenary session to set the stage for dialogue
- panel sessions for each sub-theme
- a closing Going Forward session to review and make recommendations

A great fillip was given to this year's event by the highly successful visit by India's Prime Minister Shri Narendra Modi to Canada, a month before the event. The visit firmly put India in the mainstream map of Canada, as evidenced by the extensive media coverage provided and the overwhelming public response wherever Prime Minister Modi went. It also gave an opportunity to shine the light on Canada's successful Indo-Canadian community and the role it can play in the advancing the healthcare picture in India. Simultaneously, it provided a platform for India's leading healthcare providers to show that not only have they greatly enhanced the healthcare options for Indians, but also are doing the same for patients around the world.

Unlike the themes of CIF's previous forums, which by the nature of the themes, were focused on economic aspects, the Healthcare Summit also adds a social component. Timely and sustaining healthcare is a fundamental right of all people and it is a reality that there is inequality in the provision of healthcare either between nations or within nation from region to region or community to community. With that in mind, the Summit organizing committee chose sub-themes that addressed both the economic and social aspects of healthcare. The sub-themes chosen for the Summit were:

- Major South Asian Health Issues
- Distance Care
- Rural Care
- Rehabilitation
- Research Collaboration
- Digital Health
- Innovations in Healthcare Delivery
- Generic drugs
- Wellness
- Alternative Healthcare
- Healthcare Policy

The Summit was fortunate to have had the participation of governments from Canada and India. They included India's Consul General in Toronto, Mr. Akhilesh Mishra, Ontario's Minister of Health and Long-Term Care Hon. Eric Hoskins, as well as Associate Minister Hon. Dipika Damerla, Minister of Citizenship and International Trade Hon. Michael Chan, and Canada's Minister of Labour and of Status of Women, Hon. Kellie Leitch as well as Assistant Deputy Minister, Ministry of Health, Mr. Anil Arora. Representatives from India's Ministry of Ayush and Central Council of Homeopathy, as well as Mr. V. Ponraj, associate of Dr. Abdul Kalam, former President of India also participated. More than 60 speakers spoke at the Summit, attended by about 200 people, with an additional 150 at the dinner event. Speakers included CEO's and senior representatives from institutions such as (in speaking order):

- Apotex
- University Health Network, including Toronto Rehab Foundation
- Apollo Hospitals
- Dr. Agarwal Hospitals
- St. Michael's Hospital
- McMaster University
- McGill University
- Trillium Health Centre
- Public Health Foundation of India
- William Osler Health System
- Ontario Telemedicine Network
- Sankara Nethralaya
- Pixel Health
- Meenakshi Mission Hospital and Research Centre
- University of British Columbia
- Gujarat Cancer Research Institute
- Chelation Partners
- University of Toronto
- Princess Margaret Cancer Centre
- CSi Consulting
- Teknoscan
- P.D. Hinduja Hospitals
- Meditech
- Markham Stouffville Hospital

- Aravind Eye Care Centre
- Asian bariatrics
- Nizam Institute of Medical Sciences
- Impact Applications
- BlueOcean Nutrasciences
- York University
- Life Sciences Ontario
- College of Homeopaths, Ontario

The Summit highlighted several facts and aspects of healthcare development in Canada and India, the key ones indicated below:

- India's expenditure on healthcare is 1% of GDP, well below need, and targeted by current government to grow to 2.5%
- On the other hand, Canada's expenditure on healthcare is 11% of GDP, indicating an opportunity for cost efficiency in healthcare delivery.
- India could play a role in addressing the cost efficiency.
- Private sector growth in healthcare in India is 17%, highest growth of any sector
- The aging population of Canada will necessitate focus on alternative healthcare and other aspects of wellness. Again, India could play a role with its traditional health solutions, such as Ayurveda and Yoga.
- India is one of the biggest providers of generic drugs. A combination of low-cost, and focus on quality control in generic drug imports from India would greatly benefit Canada
- People living longer also means need for rehabilitation solutions, with Canada delivering state-of-the-art solutions and India known for innovative low-cost solutions, a win-win.
- Canada's leading healthcare providers and India's fast-growing private hospitals can collaborate on best practises
- Public policy initiatives are essential to enhance public health in India, especially in areas of child mortality and also mortality among people who can least afford healthcare.
- Eye-care is a very important component of healthcare in India, as evidenced by the presence of 3 major eye-care providers at the summit, who combine low-cost high-volume solutions for the poor with innovative leading edge technologies.
- Both Canada and India must increase investment in R&D. Opportunity exists for both private and public sector R&D collaboration between the two countries.
- South Asian health issues such as stroke and diabetes have been on the rise in the immigrant population of Canada, and collaboration with Indian researchers may assist in greater understanding of the problem and targeted implementation of solution
- At the same time, "bottom of the pyramid" problems such as TB in India cannot be ignored
- Both Canada and India have a need for efficient rural care and collaboration opportunity is high, when combined with telemedicine solutions. Examples such as shown during the Summit offer hope.
- Healthcare delivery efficiency is directly tied to Digital Health initiatives and India with its strength in Information Technology can play a big role
- Canadian institutions have made important contributions in healthcare training for Indians, particularly in nursing, and can continue to provide training and skills transfer in other areas.
- Research collaboration in cancer has been going on for some time and more is needed to address the "ticking time-bomb" in India
- Canada's municipalities with heavy investment in healthcare industry can join hands with high-growth areas in India

Some of the key recommendations made during the Going Forward segment of the Summit were:

- Providing good healthcare for the poorest is the focus of India's Prime Minister Modi, so any Canadian initiative which can address this need will be well received
- Canada and India should work together from a regulatory perspective to ensure and enable quality generic drug imports at a volume level needed by Canada
- Public policy institutions in Canada and India should work closely with government bodies to ensure public health initiatives are prioritized
- Healthcare investment in India offers great economic returns (3-8 times return in 5-year investment in some cases) and fund managers in Canada must recognize this.

During the course of interactions during the Summit, as well as subsequent to the Summit, many of the participating organizations have had discussions with each other on potential business and research collaborations. This of course, was a key objective of the Summit. Some of the areas where collaboration discussions have already been initiated include **Rural Care, Telemedicine, Alternative Care and Rehabilitation**. While the discussions show potential, at this point they are of business confidential nature and as such names of the organizations are not being disclosed. CIF is proud to have been a catalyst for these potential business and research collaborations, by bringing people together for the Summit and facilitating meaningful dialogue. CIF will continue to monitor progress in these discussions and celebrate the conclusion and announcement of any agreements.

One significant outcome of the Summit, and a very pertinent metric for its success, is the initiative that has come from two of the participating organizations from India, Dr. Agarwal Hospitals and Apollo Hospitals, who have been communicating with CIF to hold the latter's next theme summit in India. The theme will again be healthcare, demonstrating both the importance of healthcare as a topic and the success of the Summit. Talks are currently underway for the follow up event to take place in Bengaluru in India, likely during Spring 2016.

On behalf of Canada India Foundation and the Summit organizing committee, we thank all the participants for making the event a success and for accolades received from them. We also want to thank the organizations which made financial contributions to enable CIF to organize the event.

Dr. V.I. Lakshmanan

Chair, Canada India Foundation (2013-2015)
Co-Chair, Canada India Healthcare Summit

Mr. Ramesh Chotai

Chair, Canada India Foundation (2009-2011)
Co-Chair, Canada India Healthcare Summit

Organizing Committee Members:

Mr. Sridhar Mosur
Mr. Satish Thakkar
Mr. Vijay Sastry
Mr. Vijay Pandya



ORGANIZING PARTNERS

Toronto Rehab Foundation  UHN



May 19, 2015, Toronto

Vanity Fair Ballroom, OMNI King Edward Hotel, Toronto

7:00-8:00 am

Registration, Breakfast, Networking

8:00-8:30 am

WELCOME

Dr. V.I. Lakshmanan

Co-Chair, Canada India Healthcare Summit; Chair, Canada India Foundation

OPENING REMARKS

Shri Akhilesh Mishra

Consul General of India in Toronto

8:30-9:45 am

INAUGURAL SESSION

KEYNOTE ADDRESSES

Dr. Jeremy Desai

CEO and President, Apotex, Canada

Dr. Geoff Fernie

Institute Director, Research, Toronto Rehab, UHN, Canada

Mr. Rahul Reddy

Senior Vice-President, Apollo Hospitals, India

Dr. Prabhat Jha

Executive Director, Centre Global Health Research, St. Michael's Hospital

Professor, Canada Research Chair, University of Toronto

Dr. Sunita Agarwal

Chairman, Dr. Agarwal Hospitals, Gene Research Foundation, India

9:45-10:00 am

Health Break

10:00-10:15 am

OPENING ADDRESS

Hon. Dr. Eric Hoskins, M.P.P

Minister of Health and Long-Term Care, Government of Ontario

10:00-11:45 am

SESSION 1

[South Asian Health Issues](#)

Moderator

Dr. Sonia Anand

Professor of Medicine and Epidemiology, Canada Research Chair,
Director, Chanchlani Research Centre, McMaster University, Canada

Speakers	<p>Dr. Mark Bayley Medical Director, Brain & Spinal Cord Rehab, Toronto Rehab, UHN, Canada</p> <p>Dr. Gopal Bhatnagar Staff Cardiac Surgeon, Trillium Health Centre, Canada</p> <p>Dr. Madhukar Pai Canada Research Chair and Director of Global Health, McGill University, Montreal, Canada</p> <p>Dr. Preet K. Dhillon Epidemiologist, Public Health Foundation of India, New Delhi, India</p> <p>Dr. Naheed Dosani Palliative Care Physician, William Osler Health System, St. Michael's Hospital Inner City Health Associates</p>
11:45 am-12:15 pm	LUNCH
12:15 pm LUNCH ADDRESS	<p>Dr. Howard Rocket Philanthropist, Motivational Speaker on Rehabilitation</p>
1:00-1:15 pm	<p>Hon. Dr. Asha Seth Obstetrician/Gynaecologist and Former Senator, Senate of Canada</p>
1:15 pm – 2:15 pm SESSION 2	<u>Distance/Rural Care</u>
Moderator	Dr. Ed Brown CEO, Ontario Telemedicine Network, Canada
Speaker	<p>Dr. Pramod Bhende Director- Medical Affairs, Sankara Nethralaya, India</p> <p>Mr. Chris Duncan President, Pixel Health, Canada</p> <p>Dr. S. Gurushankar Vice-Chairman, Meenakshi Mission Hospital and Research Centre, India</p> <p>Mr. V. Ponraj Scientist-G, ADA, Ministry of Defense, Govt. of India Former advisor to Dr. Kalam, 11th President of India</p>
2:15-2:30 pm	Wellness Break
2:30-3:45 pm SESSION 3	<u>Healthcare Collaboration Initiatives</u>
Moderator	Dr. Atul Tolia Consultant Radiologist, Hon. Secretary, Canada India Foundation
Speakers	<p>Dr. Susan Dahinten Associate Professor of Nursing, University of British Columbia, Canada</p> <p>Dr. Rakesh Vyas Director, Gujarat Cancer and Research Institute, India</p> <p>Dr. Bill Cheliak Chelation Partners, Nova Scotia, Canada</p> <p>Dr. Senthil Muthuswamy Professor of Molecular Bio-physics and Cell & Systems Biology, Univ. of Toronto Senior Scientist, Princess Margaret Cancer Centre, Toronto, Canada</p>
3:45-5:00 pm SESSION 4	<u>Digital Health</u>

Moderator **Mr. Sridhar Mosur**
CEO, PixelHealth, Canada

Speakers **Ms. Jane DeLacy**
Exec. Director, Clinical Program, William Osler Health System, Canada

Mr. Curren Holla
Corporate Development, CSi Consulting, Toronto, Canada

Dr. Sonny Kohli
Co-Founder and Medical Director, Cloud Dx, Canada

and **Dr. Anil Gupta**
Medical Director, Coronary Care Unit, Trillium Health Partners

Dr. Sabatino Nacson
Chief Technical Officer, Teknoscan, Canada

Gala Dinner

Fairmont Royal York Hotel, Toronto

6:30-7:30 pm

RECEPTION

7:30 pm

Seating for Dinner
Dance Item
Welcome Remarks

7:50– 8:05 pm

DINNER ADDRESS

Hon. Michael Chan

Minister of Citizenship, Immigration and International Trade
Government of Ontario, Canada

8:20-8:35 pm

DINNER ADDRESS

Mr. Gautam Khanna

CEO, P.D. Hinduja Hospitals, Mumbai, INDIA

8:35 pm

8:40 pm

VOTE OF THANKS

DINNER

May 20, 2015, Toronto

Vanity Fair Ballroom, OMNI King Edward Hotel, Toronto

7:00-8:00 am

Networking, Breakfast

8:05- 8:30 pm

KEYNOTE ADDRESS

Hon. Dr. Kellie Leitch

Minister of Labour and Minister of Status of Women, Government of Canada

8:30-9:45 am

SESSION 5

Innovations in Healthcare Delivery

Moderator

Dr. Budhendra Doobay

Vascular Surgeon, Hamilton, Ontario, Canada

Speakers

Dr. Sunita Agarwal

Chairman, Dr. Agarwal Hospitals, Gene Research Foundation, India

Dr. Fred Kahn

Founder, Meditech, Canada

Ms. Janet Beed

CEO / Member-Board of Directors, Markham Stouffville Hospital, Canada

Mr. Maneesh Mehta
Co-Founder, The Black Box Institute
Dr. Nam Perumalsamy
Chairman Emeritus, Aravind Eye Care Centre, India

9:45-10:00 am

Health Break

10:00-11:15am
SESSION 6

Rehabilitation

Moderator

Dr. Paul Oh
Medical Director and Goodlife Fitness Chair,
Cardiovascular Fitness and Rehabilitation, Toronto Rehab, UHN, Canada

Speakers

Dr. Mahendra Narwaria
Chairman, Asian Bariatrics, India
Dr. L. Narendranath
Vice-Chancellor, Nizam Institute of Medical Sciences, India
Dr. David Alter
Research Director, Cardiac Rehabilitation and Secondary Prevention Program
Staff Cardiologist, Toronto Rehab, UHN, Canada
Mr. Michael Wahlster
CEO, Impact Applications, USA

11:45 am

LUNCH

12:15 pm
LUNCH ADDRESS

Hon. Dipika Damerla
Associate Minister of Health and Long-term Care, Govt. of Ontario
Dr. Michael Apkon
CEO, Hospital for Sick Children, Toronto, Canada

1:00-2:15 pm
SESSION 7

Wellness and Alternative Healthcare

Moderator

Ms. Geeta Athreya
Management and Development Consultant, India

Speakers

Dr. Ghazala Javed
Scientist, Ministry of Ayush, Government of India
Mr. Gavin Bogle
CEO, BlueOcean Nutrasciences, Canada
Dr. Srinivasa Rao Nyapati
Member, Central Council for Homeopathy, Ministry of Ayush, India
Dr. Gagan Bhalla
Yoga and Wellness Leader/Practitioner, Canada
Dr. Paul Ritvo
Professor, School of Kinesiology and Health Science, York University

2:15-3:30 pm
SESSION 8

Healthcare Research

Moderator

Mr. Marc Kealey
Chief Advocate, Kealey & Associates, Canada

Keynote Address

Dr. Harvey Skinner
Founding Dean, Faculty of Health, York University, Canada

Speakers

Dr. Ron Heslegrave

Chief of Research, William Osler Health System, Canada

Dr. Sadhna Joshi

Associate Professor, Dept. of Molecular Genetics, U of Toronto, Canada

Dr. Stewart Aitchison

Professor of Electrical and Computer Engineering, University of Toronto

Associate Scientific Director, IC-IMPACTS, Canada

Dr. Robin Green

Canada Research Chair (II), Traumatic Brain Injury, and

Senior Scientist, Cognitive Neurosciences, Toronto Rehab, UHN, Canada

Dr. Sheetal Pundir

Post Doctoral Fellow, McGill University and St. Justine Hospital, Canada

3:30 pm

Dr. Ron Keren

Medical Director, Geriatric Rehabilitation, Toronto Rehab, UHN, Canada

3:45-5:15 pm

CLOSING SESSION

[Healthcare Policy and Going Forward](#)

Moderator

Padma Bhushan Dr. Mrityunjay B. Athreya

Independent Management Advisor, India

Speakers

Mr. Akhilesh Mishra

Consul General of India in Toronto

Mr. Anil Arora

Assistant Deputy Minister, Ministry of Health, Government of Canada

Dr. Steve Morgan

Professor, School of Population and Health, Univ of British Columbia, Canada

Dr. Arun Chockalingam

Director of Global Public Health, University of Toronto, Canada

Dr. Jason Field

CEO and President, Life Sciences Ontario, Canada

Ms. Kavitha Subramanian

Private Equity Investment Principal, India

5:15 pm

VOTE OF THANKS

Mr. Ramesh Chotai

Co-Chair, Canada India Healthcare Forum

5:30-7:00 pm

Post-Event Networking

Canada India Healthcare Summit – Speaker Profiles



Mr. Akhilesh Mishra

Mr. Mishra, Consul General of India in Toronto, belongs to the Indian Foreign Service (IFS) and has served as Joint Secretary in the Ministry of External Affairs, heading India's relations with Nepal and Bhutan, Joint Secretary of the Multilateral Economic Relations Division and Deputy Secretary in the Ministry of External Affairs. His previous assignments include Deputy Chief of Mission in Kabul, Deputy High Commissioner in Dar-es-Salaam, Deputy Consul General in San Francisco, and in different capacities in Indian embassies in Nepal, Rome and Peru. Mr. Mishra holds the Bachelors and Masters of Technology degrees in Mechanical Engineering from the Indian Institute of Technology, Banaras Hindu University. He speaks Spanish, Italian and Nepalese, besides Hindi, Sanskrit and English.



Mr. Anil Arora

Mr. Arora, Assistant Deputy Minister of Health Canada's Health Products and Food Branch, heads up a large and complex organization responsible for managing the health-related risks and benefits of health products and food for all Canadians. As part of this role, Anil serves as chair of the International Coalition of Medicines Regulatory Authorities, which provides strategic direction and coordination with respect to areas that are common to many regulatory authorities' missions. Anil has also held senior executive positions at Natural Resources Canada and Statistics Canada. His experience spans all three levels of government, the private sector and international organizations such as the UN and the OECD.



Dr. Anil Gupta

Dr. Anil Gupta is a Staff Cardiologist at the Trillium Health Partners in Mississauga, Ontario. He is the Medical Director of the Coronary Care Unit at Trillium Health Partners and the Innovation Lead for the Cardiac Program. He co founder and is Chair of the Trillium Health Partners Smoking Cessation Program. He also works closely with Canada Basketball and Tennis Canada. He is on the Talent Fund Committee for Telefilm Canada. He is a Lecturer and an active member of the teaching staff for the Mississauga Academy of Medicine, Faculty of Medicine, University of Toronto. He has expertise in knowledge translation delivery and product development, system innovation in health care and clinical guideline development.



Dr. Arun Chockalingam

Dr. Chockalingam received his PhD in Cardiac Physiology and Pharmacology. His experience covers global health research, policy; and epidemiology and prevention. He served as Founding Director of the Office of Global Health at NHLBI – NIH in Washington DC; Professor and Director of Global Health and Director of Continuing Public Health at the Simon Fraser University, Associate Director of the CIHR Institute of Circulatory and Respiratory Health, Senior Policy Advisor of the Centre for Chronic Disease Prevention and Control – Health Canada, and Associate Professor in the Division of Community Medicine at the Memorial University of Newfoundland. He has published over 160 papers and 11 book chapters, and has contributed to Resolution 66A of the UN High Level Meeting on Prevention & Control of non-communicable diseases.



Dr. Bill Cheliak

Dr. Cheliak, with a PhD in Genetics, has over 20 years of business experience in a wide variety of biotechnology fields, including vaccines, human genetics, drug development, manufacturing and extensive interactions with the pharmaceutical industry. He has been involved in business development in the biotechnology sector with both private and publicly traded companies. He has executed numerous technology deals with pharmaceutical companies, academic institutions and hospitals. He also secured financing for many ventures and has helped establish and grow seven companies. Dr. Cheliak currently serves on the Board of Directors of a publicly traded company on the TSX.



Mr. Chris Duncan

Mr. Duncan is a co-founder and Chairman of SecureScan International, a medical device company developing a new ultrasound technology for rural India. Currently, he is the co-founder and President of Pixel Health, a technology enabled healthcare services company with operation in India, U.S. and Canada. He has over 25 years in start-up and business management experience, including co-founder and former-CEO of Vital Simulations CEO of SIMCare Health, CEO of QuickStep, and former President of Dexxon Capital Corp, a financing company working with startup medical device companies.



Mr. Curren Holla

Mr. Holla is the EBA to the CEO and Manager, Corporate Development at CSI Group. He studied medicine at St. George's University (SGU) and Xavier University. Combining his knowledge in the medical field and his current position at CSI, he has started a venture into the IT Healthcare sector. Curren founded "Meeting of the Minds", an unique group of young talented individuals striving towards excellence in their respected fields of business. The objective of this elite group is to create the leaders of tomorrow in various fields, drive commercial activity and give back to the Canadian society. Curren was the President of Pre-Medicine Student Association at SGU and currently serves on several committees for Providence Healthcare Foundation and Hospital.



Mr. David Alter

Dr. Alter, MD, PhD, FRCPC, is a Senior Scientist at the Institute for Clinical Evaluative Sciences, Research Director of the Cardiac Rehabilitation and Secondary Prevention Program, Staff Cardiologist and Scientist with the University Health Network, and the founder of Vigour Projects. He is an active cardiologist, Board Certified Cardiologist, a Clinician Scientist and an Associate Professor of Medicine at the University of Toronto. He has over 164 scholarly peer-reviewed publications, scientific abstracts, and book chapters. Dr. Alter is a Career Investigator with the Heart and Stroke Foundation of Ontario, and he was recently awarded a 3 year grant from the Foundation.



Hon. Dipika Damerla, MPP

Hon. Damerla is the Member of Provincial Parliament for Mississauga East-Cooksville. She is currently the Associate Minister of Health and Long-Term Care (Long-Term Care and Wellness). She has served as the Senior Policy Advisor to the Ontario Minister of Economic Development and Trade, as well as Parliamentary Assistant to the Minister of Tourism, Culture and Sport, the Minister of Community and Social Services, the Minister of Infrastructure. She previously built a reputation in journalism, reporting on political and social issues in addition to a background in business. Her extensive community involvement includes Carassauga, and hosting a classical music show on CIUT 89.5 FM community radio.



Dr. Fred Kahn

Dr. Fred Kahn, MD, FRCS(C), a graduate of the University of Toronto, is a physician. Subsequent to graduation he obtained his fellowship in The Royal College of Surgeons of Canada and The Diplomate of the American Board of Surgery. He practiced in Southern California for 18 years and also served as Chief of Staff at a major hospital in Santa Ana, California for 8 years. Dr. Kahn initiated his research work in the field of Low Intensity Laser Therapy in 1989 and founded Meditech International Inc. in 1990 which focused on the research and development of Low Intensity Laser Therapy Systems and their applications. Dr. Kahn has written numerous articles on this subject and the Bioflex System that he has now developed is considered to be the most advanced globally in this rapidly expanding area of technology.



Dr. Gagan Bhalla

Dr. Bhalla, BDS, is a practicing Orthodontist in Mississauga, Ontario, and Ontario Director to the Great Lakes Association of Orthodontists. He is a recipient of the Mahatma Gandhi Gold Medal (2012), Humanitarian Award (2010) and Melvin Jones Fellow Award (2008). He has also been a Yoga visionary and Breathing Coach since 8 years, promoting health and wellness on radio, live television, in seminars, workshops, and in schools and community workshops. Dr. Bhalla is an Orthodontic graduate from St. Louis University and attained the D.D.S. degree from the State University of New York at Buffalo. He is currently a Vice President and Board Member of Patanjali Yog Peeth, Canada.



Mr. Gautam Khanna

Mr Gautam Khanna is the CEO of P.D. Hinduja Hospital and Medical Research Centre, and the Head of Hinduja College of Nursing, Mumbai. He was previously the Executive Director and Country Business Leader of 3M Healthcare in India and Sri Lanka. Mr. Khanna served as Chair of the FICCI Medical Device Forum, Co-Chair of the AmCham Medical Device Committee, Chair of AdvaMed India and a member of the CII National Committee on Healthcare. He is currently the Vice President for AOH [Association of Hospitals, Maharashtra – India]. He is a founding member of NatHealth, India, and has been leading industry policy advocacy in multiple avenues. He leads the NatHealth Nasscom Joint Committee on the National Healthcare Skill Development Program. Mr. Khanna has an MBA

from IIM Calcutta and a BTech (Mechanical) from IIT Kanpur.



Dr. Gavin Bogle

Mr. Bogle is a Partner at The Magyar and Bogle Law Firm, which provides cost-effective advice and services relating to corporate and commercial law, intellectual property, regulatory matters, patents, Canadian trademarks, and endorsement negotiations. His experience is in the areas of transactions and finance, management, Intellectual Property and litigation. He worked as General Counsel at Iovate Health Sciences, Patent Counsel at Wyeth Pharmaceuticals and Genetics Institute, Business Development Manager at NoAb Diagnostics and Inter Medico, in addition to working at Fitzpatrick, Cella, Harper & Scinto and the Tax Court of Canada. Mr. Bogle earned his JD and MBA from The University of Toronto, and his B.Sc. and M.Sc. degrees from the University Of Western Ontario.



Ms. Geeta Athreya

Ms. Athreya is an independent Development Consultant specializing in healthcare and education. She was a full-time officer with UNICEF (India) for 20 years and represented UNICEF in the Tsunami relief operations in India. She has worked as a resource person for the Ford Foundation, Dutch Water Mission, Oxfam America and the Institute of Social Studies Trust. Ms. Athreya holds an M.A. in Economics from Madras University, an MBA from IIM Kolkata and a Diploma on early childhood studies from the Milton Keynes University. She has also worked for Citibank, Glaxo, and Grindlays Bank.



Dr. Geoff Fernie

Dr. Fernie is the Vice President of Research at the Toronto Rehabilitation Institute and Professor in the Department of Surgery, University of Toronto; he was most recently Director of the Centre for Studies in Aging at Sunnybrook and Women's College Health Sciences Centre. He has published about 100 peer-reviewed journal papers and book chapters, and 16 families of patents as well as taken 6 products to market. He is actively involved with the Institute on Aging at the Canadian Institutes of Health Research, Medical and Assistive Devices Consortium of Ontario and Western New York, Veteran's Administration Research Center in Atlanta and the Ontario Rehabilitation Technology Consortium. He previously had appointments at the University of Guelph, George Brown College and Toronto General Hospital. Dr. Fernie has a PhD in Bioengineering from the

University of Strathclyde and a BSc (Honours) in Mechanical Engineering from the University of Sussex. He was the 2002 recipient of the Dr. Jonas Salk Award.

Dr. Gopal Bhatnagar

Dr. Gopal Bhatnagar, established Trillium's cardiac surgery program at the Hazel McCallion Centre for Heart Health in 2000, a leading practitioner of beating heart surgery and one of only three hospitals in Canada to perform minimally invasive cardiac surgery. He is also the Chief of Staff at Trillium, a position that allows him to influence the direction and quality of patient care hospital-wide.. Dr. Bhatnagar is an MD from the University of Western Ontario, and an MEd and OISE from the University of Toronto.



Dr. Harvey Skinner

Dr. Skinner is the inaugural Dean of the Faculty of Health – York University, a Registered Psychologist and certified trainer in Motivational Interviewing. He graduated in Psychology from the University of Western Ontario and Honors BA from McMaster University. Previously, he was Professor and Chair of the Department of Public Health Sciences – University of Toronto, Board member of the Canadian Public Health Association and charter member, Advisory Board of Directors – Canadian Health Network. He has authored or co-authored 7 books and over 150 articles and chapters. Three of his instruments are widely used internationally for the assessment of alcohol dependence, drug problems and family functioning. Dr Skinner was inducted as a Fellow of the Canadian Academy of Health Sciences. He has served as an expert advisor to the World

Health Organization and U.S. Institute of Medicine among other international institutes.





Dr. Howard Rocket

Dr. Rocket was a successful dentist and entrepreneur who owned a well-known chain of practices, when he suffered a life-threatening stroke in 1995. He has since co-authored *A Stroke of Luck* with Rachel Sklar, a personal story of how recovery from a stroke changed his life and his outlook. A powerful motivational speaker, Dr. Rocket helps people understand that they can overcome any obstacle. Since his recovery, He has campaigned to change people's attitudes towards stroke and increase awareness of its warning signs. He has been featured in numerous print articles and television programs. A hundred percent of net proceeds from the sales of his book go directly to agencies involved in stroke research and treatment.



Ms. Jane DeLacy

Ms. DeLacy's experience includes over 25 years in senior leadership roles in Academic and Community hospital settings. Her experience includes Surgical and Ambulatory Services, Women's and Children's, Cardiovascular, Critical Care and Emergency Department care. She is committed to enhancing system capacity, patient experience through innovation, improved quality and achieving best practice by utilizing change management skills in organizations. A personal interest and professional goal is to positively influence and support the efforts of team members and colleagues through consultation, collaboration, coaching and mentoring. Ms. deLacy is an RN with a Masters of Health Science (Administration), University of Toronto.



Ms. Janet Beed

Ms. Beed is the President and CEO of Markham Stouffville Hospital. She has held a number of leadership roles within the health care system, including Vice President and COO of University Health Network, Vice President of Organizational Development and Patient Care Programs at Princess Margaret Hospital/Ontario Cancer Institute; and several senior positions at the Hospital for Sick Children. She has also worked with Deloitte Consulting and as Partner at Global Consulting Group. A graduate of Dalhousie University and the University of Toronto, she holds a Master of Nursing degree. She volunteers on boards and committees of York Region's Innovation Centre ventureLAB and Character Community Foundation, and Health for All Family Health Team. Ms. Beed has co-led a number of initiatives for Ontario's Ministry of Health and

Long-Term Care.



Dr. Jason Field

Dr. Field is the President and CEO of Life Sciences Ontario, the industry voice for the life sciences sector in Ontario. He collaborates with governments, academia, industry and other life science organizations in Ontario and across Canada to promote and encourage commercial success. Dr. Field obtained his PhD in Chemistry from the University of Massachusetts and his undergraduate degree from the University of Waterloo. He worked in the pharmaceutical industry as a research scientist before joining the Ministry of Economic Development and Trade where he led a team of senior advisors dedicated to growing Ontario's life sciences and Information and Communication Technologies sectors.



Dr. Jeremy Desai

Dr. Desai was born in London, UK, and gained a Pharmacy degree in 1981 followed by a PhD in 1985. He has spent close to 30 years in progressively senior roles in the pharmaceutical industry. In August 2014 he was appointed the CEO and President of Apotex based in Toronto. He has spent the last 17 years establishing pharmaceutical operations in India and has been instrumental in developing an integrated business operating model that leverages the immense talent pool residing in India. He served for 7 years on the Board of Directors of Cangene Corporation and holds the designation ICD.D from the Corporate Institute of Directors.



Dr. L. Narendra Nath

Dr. Narendra Nath is a senior orthopaedic doctor at Nizam's Institute of Medical Sciences. He has worked at the Royal Shrewsbury Hospital and Royal Orthopaedic Hospital in Birmingham. He has organized orthotic and prosthetic workshops and was instrumental in starting a Biomedical Engineering program at Osmania University and the state's first physiotherapy college. He worked under Dr. Abdul Kalam, on polio research in collaboration with defense R&D. He also conducted polio camps in various states and his research product has benefitted more than 30 thousand polio victims. In recognition of this he was awarded the Padmashree in the year 2005. He is currently

involved in developing a composite knee joint for use in Orthosis and Prosthesis in collaboration with IIT Delhi and DRDO.



Dr. Madhukar Pai

Dr. Pai, MD, obtained his PhD in epidemiology at UC Berkeley, and postdoctoral fellowship at the UCSF. He is a Professor of Epidemiology at McGill University, where he serves as Director of Global Health Programs and Associate Director of the McGill International TB Centre. In addition, he is a Consultant for the Bill & Melinda Gates Foundation and Scientific Advisory Committee member of the Foundation for Innovative New Diagnostics. He is on various editorial boards and has previously served as co-chair of the Stop TB Partnership's Working Group on New Diagnostics. Dr. Pai has more than 200 peer-reviewed publications. He is a recipient of the Union Scientific Prize, Chanchlani Global Health Research Award, and Stars in Global Health award as well as a member of the Royal Society of Canada's College of New Scholars, Artists and Scientists.



Dr. Mahendra Narwaria

Dr. Narwaria is one of the pioneers of Laparoscopic Bariatric Surgery in India, with over a decade of experience in the field of Surgical Gastroenterology. A post-graduate in General Surgery from B J Medical College, he trained in Surgical Gastroenterology at the Sanjay Gandhi Post Graduate Institute. He is an invited faculty for a number of national and international conferences and workshops on Laparoscopic Bariatric Surgery and advanced laparoscopic surgery. He is also associated as faculty at the prestigious National conferences including Indian Association of Surgical Gastroenterology, Association of Surgeons of India, International College of Surgeons, Association of Minimal Access Surgeons of India, and many more.



Mr. Maneesh Mehta

Mr. Mehta co-founded The Black Box Institute following a 19-year career at Deloitte. His expertise covers a range of areas, including strategy, market entry, and business operations. He has extensive experience in strategic and financial analysis, demand forecasting and governance. Mr. Mehta started his career with the BNR division of Nortel, after obtaining his MASc and BASc degrees from the University of Waterloo. He has completed executive training programs at IMD and Harvard as well as the ICD DEP program. He sits on the boards of several non-profit organizations, including Ornge and Markham Stouffville Hospital. He has also published numerous articles in the Ivey Business Journal.



Dr. Mark Bayley

Dr. Bayley, MD, FRCPC, is a specialist physician in Physical Medicine and Rehabilitation and Associate Professor at University of Toronto. He is currently the Medical Director and a Clinician Scientist at the Brain and Spinal Cord Rehabilitation Program, Toronto Rehabilitation Institute, and Scientist at the Heart and Stroke foundation Canadian Partnership for Stroke Recovery and the Institute for Clinical and Evaluative Sciences. He leads international guideline groups in the fields of arm recovery and cognitive recovery. He authored the Best Practice Guidelines for the Canadian Stroke strategy, chairs the Stroke Evaluation Advisory Committee of the Ontario Stroke Network and the Health Quality Ontario stroke expert panel besides leading the steering committee of the Ontario

Concussion Strategy. Dr. Bayley has over 80 peer reviewed publications.



Dr. Michael Wahlster

Mr. Wahlster is the CEO of ImPACT Applications, the company that developed the ImPACT Test. In his two years as CEO, He has led ImPACT through a period of dramatic growth that includes the introduction of numerous new products and initiatives. His vision and business acumen continue to reinforce ImPACT's position as the industry leader in concussion management tools, technology and training. As founder and President of Juris Venture, he served clients in financing transactions, IP licensing, and mergers and acquisitions. He served as outside general counsel to small- to medium-sized private companies, investors, corporate partners, and boards of directors. As an entrepreneur, Mike is a co-founder of BikeBandit.com, one of the world's largest e-commerce powersports retailers.



Dr. Mritunjay Athreya

Dr. Athreya is one of the founders and pioneers of the Indian Management Movement. He advises organizations on planning, culture, strategy formulation and implementation, and organizational restructuring. Dr. Athreya was earlier a Professor at IIM Kolkata; London Business School and Strathclyde Business School. He holds a Doctorate in Business Administration from the Harvard Business School and earlier qualified as a Management Accountant. He has been Chairman and member of several government committees on Policy and Restructuring, including the Athreya Committee that enabled India's IT revolution and global recognition. He has addressed various national and international conferences.

He is part of a global movement on integrating values into life and the work place. He is a recipient of the Padma Bhushan, Icon of the Year Award – Institute of Cost Accountants, and Life Time Achievement Award by Thinkers50 India.



Dr. P. Nam Perumalsamy

Dr. Namperumalsamy is the Chairman Emeritus of the Aravind Eye Hospital and founder of Govel Trust, which runs the hospital. He obtained the MBBS and Diploma in Ophthalmology from Madras University, an MS from Madurai University, and was a fellow at University of Illinois and Harvard Medical University. He has published over 100 articles in ophthalmic and research journals and authored 11 chapters in books. Dr. Namperumalsamy is a recipient of the Padmashree Award, the B.C. Roy Award, Time's 100 most influential people in the world (2010) and numerous awards from international ophthalmological societies. He is a member of the Indian Medical Association, Diabetic Association of India, as well as state, national and international ophthalmological associations.



Dr. Paul Oh

Dr. Oh, MD, is the Medical Director of the Cardiovascular Prevention and Rehabilitation Program, University Health Network, and Assistant Professor of Medicine, University of Toronto. He obtained his M.D. from the University of Toronto and completed specialty training in Internal Medicine, Clinical Pharmacology, and Clinical Epidemiology. His clinical, research and educational focus is on the design, delivery, evaluation and dissemination of effective programs for risk factor and lifestyle interventions for the management and prevention of cardiovascular, metabolic and other chronic diseases. He is a past president of the Canadian Association of Cardiovascular Prevention and Rehabilitation and serves on the Board of Directors and Chair of the Cardiovascular

Chronic Diseases Management Working Group for the Cardiac Care Network of Ontario and the Cardiac Rehab Network of Ontario.

Dr. Paul Ritvo



Dr. Ritvo, PhD, C Psych, is a Professor of Kinesiology and Health Science, and Psychology at York University dedicated to neurophysiological and psychometric evaluation of Asian health practices, notably mindfulness meditation. His research has produced groundbreaking demonstrations of neurophysiologic effects from online interventions of mindfulness and Cognitive Behaviour Therapy. He is the Principal Investigator of the Healthy Student Initiative where in-person/online approaches deliver mindfulness programming (free of charge) to distressed students. Dr. Ritvo additionally focuses on smartphone-based interventions in chronic disease, especially Type 2 Diabetes, Hypertension, Congestive Heart Failure, Prostate Cancer and Breast Cancer.



Dr. Prabhat Jha

Dr. Jha, OC, MD, DPhil, FCAHS, is the University of Toronto Endowed Professor in Disease Control, Canada Research Chair at the Dalla Lana School of Public Health, and founding Director of the Centre for Global Health Research at St. Michael's Hospital. He is a lead investigator of the Million Death Study in India, co-investigator of the Disease Control Priorities Network and the author of various books on tobacco control. He served as Senior Scientist for the WHO and headed the World Bank team responsible for the 2nd National HIV/AIDS Control Program in India. Notable recognitions include an Officer of the Order of Canada, Luther Terry Award for Research on Tobacco Control, The Globe and Mail 25 Transformational Canadians, Top 40 Canadians under 40 Award, and the Ontario Premier's Research Excellence Award. Dr. Jha holds an M.D. from the Univ. of Manitoba and a D.Phil. from Oxford University.



Dr. Pramod S. Bhende

Dr. Bhende completed his MBBS and MS (Ophthalmology) from the Government Medical College, Nagpur University. He did his fellowship training in Vitreo-retinal (VR) surgery at the Medical Research Foundation, Sankara Nethralaya, where he continued as junior consultant. He is currently a Senior Consultant, Deputy Director of VR services and the Director of Medical Affairs at Sankara Nethralaya. He has published 44 papers in peer reviewed journals and 7 book chapters. He has delivered over 220 presentations at various conferences. He was awarded Gold medal for Excellence in ophthalmology and VR surgery. He is a life member of the All India Ophthalmological Society and Vitreo Retinal Society, and is also a member of the American society of Retinal Specialists.



Dr. Preet Dhillon

Dr. Dhillon, MPH, is an Epidemiologist and is based at the Centre for Chronic Conditions & Injuries. She works across multiple projects involving diet, metabolic outcomes, and inflammatory markers, and co-chairs PHFI's Cancer Interest Group. She currently works on projects related to pesticides and breast cancer, inflammatory bio-markers associated with Indian dietary patterns and cardio-metabolic outcomes. She was involved in a Lancet Oncology series related to India, a multi-center CDRF study on chronic disease risk and multi-disciplinary research and teaching in India and the USA. Her previous work includes lifestyle and molecular risk factors for prostate cancer risk and survival at the Harvard School of Public Health and a fellowship to conduct a time trends analysis of breast, cervical and ovarian cancer at the International Agency for Research on Cancer, Mumbai.



Mr. Rahul Reddy

Mr. Reddy has over 20 years of experience with IT and healthcare ventures as a CEO, entrepreneur, and advisor. As Senior Vice President for Apollo Hospitals he is responsible for exploring, evaluating, and developing strategic relationships and initiatives. He has a B.A. from the University of Portland. Apollo Hospitals is one of Asia's largest integrated healthcare organizations which owns and manages over 50 hospitals and diagnostic clinics, pharmacies and consultancy services. Additionally, the group's service offerings include healthcare at the patient's doorstep, clinical and diagnostic services, medical business process outsourcing, third party administration services and health insurance. These include telemedicine services, education and training programs, research services and a host of not-for-profit projects.



Dr. Rakesh Kumar Vyas

Dr. Vyas holds an MD and MBBS from S.P. Medical College, University of Bikaner. He is currently the Directly In-charge of the Gujarat Cancer & Research Institute. He has been a senior resident at AIIMS, independent consultant, and Professor and Head of Department at the Gujarat Cancer & Research Institute. Dr. Vyas has published and co-authored numerous research papers in leading journals. He is a life member of the Association of Radiation Oncologists of India.



Dr. Robin Green

Dr. Green is a clinical neuropsychologist, Senior Scientist and Head of Toronto Rehab's Brain Discovery and Recovery Team, and Canada Research Chair (II) in Traumatic Brain Injury. She studies the enduring consequences of moderate-severe traumatic brain and investigates the long-term impact of multiple concussions in retired professional athletes. Her lab has observed ubiquitous ongoing deterioration in brain health and cognition in the chronic stages of injury in many patients, and has identified causes of deterioration. Using these findings, she has been developing and testing behavioural interventions to improve recovery (and offset decline), and has also been engaged in the development of novel

delivery approaches in order to scale up the delivery of therapies to patients across the province (and ultimately Canada), including those in geographically remote areas.



Dr. Ron Heslegrave

Dr. Heslegrave is currently the Chief of Research at William Osler Health System. Previously, he was a Senior Scientist in Research Ethics at the University Health Network and the Inaugural Executive Director of Clinical Trials Ontario. He has chaired the Research Ethics Boards in Canada for over 20 years in institutions that support various research fields. In 2003 he initiated, established and served as the inaugural Chair for eight years of the Research Ethics Board for multi-centre oncology clinical trials in Ontario. Dr. Heslegrave was also a member a Canadian Expert Panel on Scientific Integrity. He is currently the ethics delegate to the Institute of Cancer Research, an International Consultant to NIH, Oxford University, Welcome Trust and the Ministry of

Health in Vietnam, and a national consultant on streamlining the ethics review process in Canada.



Dr. Ron Keren

Dr. Keren received his medical degree at the University of Tel-Aviv and completed his residency in Psychiatry, University of Maryland, with a clinical fellowship in Geriatric Psychiatry. He is an Associate Professor of Psychiatry at the University of Toronto, and Medical Director of the Geriatric Rehabilitation Program and Head of Geriatric Psychiatry at the University Health Network. He is the co-director of the University Health Network Memory Clinic and staff psychiatrist on the Geriatric Psychiatry inpatient unit at the Toronto Rehabilitation Institute. He has been the principal investigator for a various randomized clinical drug trials exploring novel therapeutic approaches for the treatment of Alzheimer's disease. He is also the founder and president of the Canadian Colloquium on Dementia.



Dr. S. Gurushankar

Dr. Gurushankar is the Chairman and proprietor of Meenakshi Hospital, Tanjore, and Vice Chairman/Managing Trustee of the Meenakshi Mission Hospital and Research Centre, Madurai. The medical centres attract patients who seek affordable, international class medical care and services. Dr. Gurushankar graduated from IIM Bangalore and completed his executive education from the Harvard Business School. He is also the proprietor and Chairman of a luxury hotel in Madurai. He has overseen over 150 free heart surgeries, as the Director of Kid Aid Foundation. He is a member of the CII Healthcare panel of Tamil Nadu, Association of Healthcare Providers (India), Healthcare Federation of India (NatHealth) and the National Vice President of the Federation of Hospital Administrators.

Dr. Sabastino Nacson



Dr. Nacson is an internationally recognized leader in security market and industry. He started as a research chemist at Sciex/MDS, moved to Scintrex as Head of the Chemical Detection Division and later joined Barringer. He became adjunct Professor of Chemistry at University of Waterloo, published many papers and several key patents on various instrumentations, chemical products and chemical processes. Dr. Nacson founded Teknoscan as Chief Technical Officer and Co-CEO and developed new aspiration and detection products with a team of excellent engineers bringing the company to 23 employees with several key commercial products in screening marine and air cargo containers for all types of threat substances such as explosives, narcotics, contraband tobacco or other food products, illegal immigrants, ammunition and chemical warfare agents.



Dr. Sandeep Singh Kohli

Dr. Sandeep Singh Kohli, MD, FRCPC, practices Internal & Critical Care Medicine in Oakville, Canada, and is an Assistant Prof (adj) at McMaster University. He is the co-founder and Medical Director/team lead for Cloud Dx, Canada's only team and finalist in the Qualcomm Tricorder XPRIZE competition. He credits this opportunity to his experiences as a former top 40 CSA astronaut candidate, and alumnus of the International Space University. He is also the ACLS Medical Director at Michener Institute, and visiting faculty at the Jodhpur School of Public Health.



Dr. Sheetal Pundir

Dr. Pundir is a Postdoctoral Fellow in Pharmacology at McGill University. She attained a PhD in Biochemistry from the University of Ottawa. She has conducted research at McGill University, the Advanced Medical Research Institute of Canada and the All India Institute of Medical Sciences. Her research has been in the areas of retinopathy, neovascular age-related macular degeneration, anti-cancer drugs, cytogenetic and molecular genetics, and virology. She has had teaching responsibilities in cancer biology, microbiology and genetics, and holds a patent.



Dr. Sonia Anand

Dr. Anand is a Professor of Medicine and Epidemiology at McMaster University, the Director of McMaster Population Genomics Program and a vascular medicine specialist. She holds the Canada Research Chair in Ethnic Diversity and Cardiovascular Disease and the Heart and Stroke Foundation of Ontario/Michael G. DeGroote Chair in Population Health Research. She has a degree in Life Sciences (Queen's University), a Doctor of Medicine, Masters in Clinical Epidemiology and Ph.D. in Health Research Methodology and Internal Medicine Training (all, McMaster). She has had fellowships of the Royal College of Physicians and Surgeons of Canada, the Heart and Stroke Foundation of Canada Research, for Vascular Medicine at Harvard University's Brigham and Women's Hospital. Dr. Anand's work is widely published amongst academic and peer-evaluated journals.



Mr. Sridhar Mosur

Mr. Mosur is the founder of Tanroe and CEO of Pixel Health. A chemical Engineer, with over 2 decades of Life sciences leadership experience, he has pioneered innovative business models which have delivered successful outcomes in the areas of Pharmaceutical Research & Development, Global Life Sciences services & and Health care delivery across North America & Asia. He previously had a brief stint at Ranbaxy (Daichi), was Partner in Austin Chemical Company, USA Strategic Business Development manager at Eli Lilly (Asia), CEO of Global Drug Discovery at Jubilant Life Sciences, Board Member of Vanthys Pharmaceuticals and Unitria, Investment Board Member of Health Care Ventures, Advisor to Stabilis, and advisor to Nano Bio Systems and PolymeRx.



Dr. Steve Morgan

Dr. Morgan is a Professor in the School of Population and Public Health, and Leader of Canada's Pharmaceutical Policy Research Collaboration. He founded Pharmacare 2020, a campaign to promote evidence-informed conversation about the future of prescription drug coverage in Canada. His research helps governments balance equitable access to necessary medicines, managing health care spending responsibly, and providing incentive for valued innovation. He has received career awards from the Canadian Institutes of Health Research, the Michael Smith Foundation for Health Research, the Commonwealth Fund, McMaster University, and the University of British Columbia. He has also been commissioned to provide policy advice to numerous governments, the World Health Organization, and Organization for Economic Cooperation and Development.

Dr. Stewart Aitchison



Dr. Aitchison received his Ph.D. from the Heriot-Watt University. He joined the University of Glasgow and was later promoted to a personal chair as Professor of Photonics. He holds the Nortel chair in Engineering at the University of Toronto. His research focuses on the development of micro- and nano-scale devices for optical signal processing and sensing applications. He was the Director of the Emerging Communications Technology Institute, University of Toronto, where he established an open access micro and nano-fabrication facility. He co-founded ChipCare Corporation which is currently developing a portable HIV monitoring system. Dr. Aitchison is a Fellow of the Royal Society of Canada and a Fellow of the American Association for the Advancement of Science.



Dr. Sunita Rana Agarwal

Dr Agarwal is a gold medalist (MBBS) from the Madras Medical College and attained her MS in Ophthalmology from Gujarat University. She has 2 registered global patents and 4 patents pending including one in DNS gene therapy. She has authored and co-authored 15 books, including a 5-volume work on ophthalmic sciences. Her expertise lie in DNA Gene Therapy, laser sclerotomy for glaucoma and Magnetopexy for retinal detachment, as well as innovations such as 700 micron cataract surgery, anti chamber collapser, ECP surgery for fallen lens, low threshold diode laser for macular degenerations and retinal disorders, intra-papillary optic nerve DNA injections for restoring sight. She is also a national gold medallist in swimming and state champion in squash.



Dr. Susan Dahinten

Dr. Susan Dahinten is an Associate Professor at the UBC School of Nursing and Michael Smith Foundation for Health Research Scholar. Her research program focuses on the intersection of family and community factors that influence the health and development of children and youth, and the evaluation of public health interventions to support healthy childhood development. She currently teaches quantitative research methods at the University, and has expertise in the longitudinal analysis of large data sets, including the use of administrative data.



Mr. V. Ponraj

Mr. Ponraj is a scientist at the Aeronautical Development Agency, DRDO, Ministry of Defence. He has been an advisor on Science, Technology and Public Policy, and was Director (Technology Interface) at the President Secretariat. He has worked closely with Dr. APJ Abdul Kalam on various missions, and has travelled globally as part of Dr. Kalam's official delegation. Mr. Ponraj, the architect of Pan African e-Network, and is an expert in ICT in the domains such as aeronautics, simulation, virtual reality, networking, software development and also e-governance, education, healthcare and public policy. He is presently working on his Ph.D. under the guidance of Dr. Kalam with who he has co-authored a book *A Manifesto for Change* – a sequel to *India 2020*. He is an expert member of Shyama

Prakash Mukherjee RURBAN Mission.



Dr. Ghazala Javed

Dr. Javed is a Scientist working in International Cooperation, Ministry of AYUSH. She has an MD in Moalijat (Medicine) and BUMS from Jamia Hamdard, BSc (Hons) in Zoology from Delhi University, and PG diplomas in Hospital Management Intellectual Property rights. She has a expertise in the area of protection of Traditional Knowledge and genetic resources and has represented the Ministry of AYUSH at various national and international platforms. She has extensive experience in research and clinical experience, is a member of the Forum for Ethics review Committee in India, and Honorary Secretary of the All India Unani Tibbi Congress. She is a Technical Expert in Traditional Knowledge Digital Library,

NISCAIR, and the Central Council for Indian medicine, Ministry of Health and Family welfare. She has co-authored a book on clinical research in traditional medicine, and authored 16 papers in peer reviewed journals.



Dr. Sadhna Joshi

Dr. Joshi obtained her PhD and DSc degrees from the University of Paris VII France. She later joined the Department of Microbiology at the University of Toronto. Currently, she is Associate Professor in the Department of Molecular Genetics and the Department of Laboratory Medicine and Pathobiology at the University of Toronto. She has published nearly 50 articles in refereed journals and has been teaching a course on HIV Gene Therapy for nearly 2 decades. Her research is focused on HIV gene therapy. Her research interest is in genetic strategies for the prevention and treatment of HIV-1 infections.



Hon. Dr. Eric Hoskins, MPP

Hon. Dr. Eric Hoskins currently serves as our Minister of Health and Long-Term Care in Canada. First elected to the Ontario legislature as the MPP for St. Paul's, he has been Minister of Economic Development, Trade and Employment, Minister of Children and Youth Services and Minister of Citizenship and Immigration. A Rhodes scholar from Oxford University, Hoskins has served as a doctor and humanitarian in war-torn regions and has co-founded the War Child Canada organization. He has served as senior advisor to then Foreign Minister Lloyd Axworthy on various issues and as Advisor to the Office of the Special Representative for Children and Armed Conflict at the United Nations. He was invested as an Officer of the Order of Canada, has received the Governor General's Meritorious Service Cross and the United Nations Lester B. Pearson Peace Medal.



Dr. Srinivasa Rao Nyapati

Dr. Srinivasa Rao Nyapati is the Managing Director of Ramakrishna Homeo Stores, a Homoeopathic Pharmacy. He has a degree in Homoeopathy Philosophy and Organon, his specialization in Nutrition and Anthroposophy. He served as National Vice-President and Secretary General in the Indian Institute of Homoeopathic Physicians and is a Member of the Central Council for Homoeopathy. He founded DELPHIS, Center for Complementary Medicine and Therapies. He has published several scientific papers at the International Homeopathic congresses. He is a founder member of the Indian Anthroposophic Medical Society and is one of the only two ISCADOR [Mistletoe therapy for Cancer] practitioners in India, certified by the Medical Section of Goetheanum, Switzerland.



Dr. Edward M Brown

Dr. Ed Brown is a founder and CEO of the Ontario Telemedicine Network, one of the largest and most active integrated telemedicine networks globally. Dr. Brown has won numerous awards for his work in Telemedicine, including a Queen Elizabeth II Diamond Jubilee Award for his contributions to health care in Canada. In 2010, he was chosen as one of 25 Living Transformational Canadians by a national media panel sponsored by the Globe and Mail, CTV and Le Presse. He currently sits on the board of OntarioMD and is the past President of the American Telemedicine Association. An emergency physician who studied mathematics and engineering before embarking on his medical career, Dr. Brown is a passionate advocate for telemedicine as a tool to improve access to care, quality of care

and the sustainability of health care systems.



Dr. V.I. Lakshmanan

Dr. V.I. "Lucky" Lakshmanan is one of the founders and the current Chair of Canada India Foundation. He is also the Co-Chair of Canada India Healthcare Summit. An internationally renowned scientist and entrepreneur in the area of technology commercialization, Dr. Lakshmanan has more than 40 years of hands-on experience. He is the founder and currently Vice-Chairman and CEO of Process Research ORTECH. Dr. Lakshmanan has been prime mover for CIF's previous forums on Energy, Mining and Agriculture/Food Processing. He was also instrumental in bringing Dr. Abdul Kalam, former President of India to Canada for two series of meetings and talks. He was awarded the Queen Elizabeth II Diamond Jubilee Medal in 2012.



Hon. Kellie Leitch, MP

Dr. Kellie Leitch was appointed Minister of Labour and Minister of Status of Women. Previously, she was appointed Parliamentary Secretary to the Minister of Human Resources and Skills Development and to the Minister of Labour in May 2011. Dr. Leitch is a pediatric orthopedic surgeon and an associate professor of surgery. Dr. Leitch earned her Doctorate of Medicine from the University of Toronto in 1994 and her MBA from Dalhousie University in 1998. Dr. Leitch has been recognized with the Order of Ontario for her advocacy work on behalf of Canadian children, and in 2005, she was selected as one of Canada's "Top 40 Under 40" for her work in both medicine and business.



Ms. Amrit Mangat M.P.P.

Elected in October 2007, Amrit Mangat is the first woman of Asian heritage to serve as a Member of Provincial Parliament of Ontario. Representing the riding of Mississauga-Brampton South, Amrit currently serves as the Parliamentary Assistant to the Minister of the Environment and Climate Change and on the Communities, Resources and Justice Policy Committee. Previously, she served as the Parliamentary Assistant to the Minister Responsible for Seniors, the Parliamentary Assistant to the Minister of Intergovernmental Affairs, the Parliamentary Assistant to the Minister of Transportation, the Parliamentary Assistant to the Minister of Consumer Services, and the Parliamentary Assistant to the Minister of Children and Youth Services.



Dr. Atul Tolia

Dr. Atul Tolia, MD, DABR, FRCP(C) is a senior Consultant Radiologist in private practice with advanced training and academic expertise at the university of Toronto in the interventional, neuro, cardiac and vascular radiology sub-specialities and with current research interest in the logistics of pre-emptive cardiac healthcare of the South Asians worldwide. He is the Honorary Secretary to the board and founding charter member of the Canada India Foundation.

Ms. Kavitha Subramanian

Kavitha has, for the past 4 years, been investing in Indian Healthcare as a private equity professional at Actis PE, a leading UK-based emerging markets investor with \$4.5b capital under management. At Actis, her portfolio has ranged from hospitals to pharmaceutical companies. Prior to Actis, she has worked at McKinsey & Co. as a strategy consultant in healthcare and IT; and at SKS Microfinance, introducing tech-based solutions for financial inclusion. She holds an MBA in finance from The Wharton School, University of Pennsylvania, and BTech and MTech degrees from IIT Bombay, where she graduated in the top 2% of her class.



Dr. Naheed Dosani

Dr. Naheed Dosani is a Palliative Care & Family Physician at Inner City Health Associates (ICHA) and William Osler Health System. He recently completed his fellowship in Palliative Medicine at the University of Toronto and prior to that, his Residency in inner-city Family Medicine, where he served as Co-Chief Resident of St. Michael's Hospital Family Medicine Residency Program. He founded PEACH

(Palliative Education And Care for the Homeless). He is investigating the impact of housing on health, social media as a tool for communication among healthcare providers and palliative care for heart failure patients. He serves on the Board of Directors for the Agincourt Community Services Association and on the steering committee for Healthcare Providers Against Poverty.



Hon. Dr. Asha Seth

Dr. Asha Seth was appointed by Prime Minister Stephen Harper to the Canadian Senate representing the region of Ontario, becoming the first Indo-Canadian senator in Canada. She is an obstetrician and gynecologist in family practice. She was the recipient of the prestigious Council Award from the Ontario College of Physicians and Surgeons in 2010. She is the Founding President of the NIMDAC Foundation and sits as the National Board Director of the Canadian Institute for the Blind. She is also actively involved with the St. Joseph's Health Centre Foundation. **Dr. Seth passed a Senate motion last year establishing International Maternal, Newborn, and Child Health Week annually during the second week of May**



Dr. Senthil Muthuswamy

Dr. Muthuswamy received his Ph.D. from McMaster University, Hamilton, Canada and his postdoctoral fellowship Harvard Medical School. He began his independent faculty position at Cold Spring Harbor Laboratory, New York, In 2008 he moved to Princess Margaret Cancer Center and Campbell Family Institute for Breast Cancer Research as the Margaret Lau Chair in Breast Cancer Research. He is a recipient of Rita Allen Scholar award, V Foundation scholar award, the US Army Era of Hope Scholar Award, and CSBMCB young investigator award.



Mr. Ramesh Chotai

Mr. Chotai was a Pharmacy Executive in Uganda where he grew up, before being forced to leave by Idi Amin. Finding refuge in Canada, he started working from the day after he landed and is now one of the leading distributors, importers and manufacturers of generic drugs. Since his arrival, Mr. Chotai has been active in the Indo-Canadian community and has served as the President of ICCC and as Chair of Canada India Foundation. He is also the recipient of the Queen Elizabeth II Diamond Jubilee Medal in 2012.

Hon. Michael Chan, M.P.P.



Since first being elected in 2007, Mr. Chan has served continuously in the Ontario Cabinet as the Minister of Revenue, Minister of Citizenship and Immigration, Minister of Tourism, Culture and Sport and Minister Responsible for the 2015 Pan/Parapan American Games. He currently serves as the Minister of Citizenship, Immigration and International Trade and as a member of the Education, Skills and Economic Policy Cabinet Committee. He continues to be a strong advocate at Queen's Park for accessible healthcare and has delivered on the Markham Stouffville Hospital expansion/re-development. He is also an honorary president of the Toronto Chinese Senior Health and Recreation Association.

Dr. Bhudendranauth Doobay



Dr. Doobay is a cardiovascular surgeon, teacher (Assistant Professor of Surgery at McMaster University) and a renowned leader of the South Asian community. He is a recipient of the Order of Ontario and is the representative of the Government of Canada at the Global Centre of Pluralism Chaired by H.H. Aga Khan. Dr. Doobay is a tireless promoter of Indian values and the President of the Canadian Museum of Indian Civilization, located in the Vishnu Mandir premises, which also includes for a Senior Citizens' residence. He is an expert of Hinduism and hosts the Voice of Hinduism program.

Dr. Michael Apkon



Dr. Apkon is a paediatric specialist and physician executive, having held senior leadership roles at several top academic hospitals. He has served as President and CEO of SickKids since January 2014. Prior to coming to SickKids, Dr. Apkon was Chief Medical Officer for the Children's Hospital of Philadelphia (CHOP) and Executive Director leading Yale-New Haven Children's Hospital. He is currently a Professor of Paediatrics at the University of Toronto and has held faculty positions at University of Pennsylvania, Yale School of Medicine and Yale School of Management.

Dr. Apkon has a BSc degree in Biomedical Engineering from Northwestern University as well as MD and PhD degrees from Washington University School of Medicine in St. Louis. He received an MBA from the Yale School of Management.



CANADA INDIA HEALTHCARE SUMMIT, Toronto, Canada
May 19-20, 2015

Observations and Comments from Speakers

The Canada India Healthcare Summit provided participants an informed perspective on the current status of healthcare scenario in the two countries, challenges in healthcare delivery and opportunities for partnership and mutual learning for the two countries. Attendees heard from more than 60 speakers and panelists and some of the key observations and comments made by some speakers are included below. The full presentations are also enclosed in a CD for reference:

May 19

Mr. Akhilesh Mishra, Consul General of India in Toronto

- Timing of forum is excellent with India having just taken over responsibilities for administration of World Health Organization in Geneva
- Prime Minister Modi's visit to Canada just one month before the Summit also enhanced the visibility of the Summit. 3 aspects of PM's visit stand out:
 - Host PM accompanying visiting PM to three cities. This is unprecedented
 - Overwhelming public response (e.g., 10 000 people in Toronto)
 - Reaction to PM's visit from business community
- Healthcare is one of the most important topics of interest to India right now
 - India has experienced great strides in public health (e.g., eradicating polio)
 - life expectancy and literacy have increased
 - food production/nutrition has also improved
- There is a lot of innovation in healthcare in India (both procedures and technology)
 - and yet the issues (of access and quality) remain a challenge
- Currently, 1% of GDP spent on healthcare by government
 - The current government aims to increase this to 2.5%
- Digital health is a high priority
- On business side, government is encouraging FDI
- Holistic healthcare approach – e.g. yoga -- also important part of PM Modi's plan
- Healthcare industry in India is growing at 17%;
 - This is twice the growth rate of any other service industry
- Biotech industry is growing at 30%
- In comparison, 11% of GDP is spent on healthcare in Canada.
 - This may not be sustainable; Delivery cost efficiencies must be found
- By 2036, there will be 10.4 million people over 65 in Canada
- We have to look at healthcare holistically, not just from a business framework
 - integrate ayurveda, yoga, etc.

Dr. Jeremy Desai

- Canadian prescription market = 22 Billion Dollars
 - Just 22.5% is generic
 - By value, brand name drugs dominate the market
- However, the picture is reversed, when considering number of prescriptions
 - Far more generic medicines are prescribed than brand name
- Generic medications offer great value because they are virtually identical to their brand name counterparts
- When a generic drug is approved, it means it is safe, efficacious and of consistent quality.....the only difference is cost
- Generic prices continue to drop over time, while brand name prices continue to rise -- economic rationale for using generics has never been stronger
- Bringing generic drugs to market has a lot more to do with law (IP law) and much takes place in the courts to invalidate the patent or non infringement (second process is harder but gives the company challenging the patent exclusive rights to market)
- India plays a vital role in the supply chain for generics in Canada
- Although there has been a lot of negative press RE: regulatory control of products coming from abroad, but companies are still investing in quality management systems
- Apotex is a global company 10 000 employees worldwide...close to 2000 in India
- 1 in 5 prescriptions in Canada is an Apotex product (85 million/year)
- Apotex tends to be first to market because they litigate first
- We are moving away from small molecules to biologics
 - SEBs (second-entry biologics/biosimilars) are a HUGE area of potential growth for Apotex in the future

Dr. Geoff Fernie

- Looking at healthcare over time, we are spending more because we are living longer
- Toronto Rehab has a significant number of engineering students (about 1/3 of students)

Two case studies:

Sleep Apnea

- 10% of population has this, but only 1/10 knows they have it
- enormous costs and risk associated with this condition (especially when undiagnosed)
 - but sleep laboratories are very expensive
- We need a less expensive way to reach a broader group
- so Toronto Rehab has developed a piece of equipment to do what is done in sleep laboratories at home

2. Ob-Gyn

- hand washing dramatically decreased mortality but people still die in hospital due to infection
- so Toronto Rehab has developed a wearable reminder
 - Rehabilitation is practical and affordable approach to preventing disease

Mr. Rahul Reddy

- Apollo is the largest integrated healthcare delivery system in Asia
 - ...now expanding globally (Bangladesh, Middle East, Africa)
- Apollo benchmarks against leading healthcare systems globally (e.g., Mayo etc.)
- First in India to use CyberKnife, robotic surgery etc.
- Transplant group did highest number of solid organ transplants in the world last year
- increasing incidence of chronic disease (e.g., diabetes) and limited access is a challenge in India
- Current bed density in India is 7 beds/10 000 patients
 - but about 100 billion dollars needed to bring bed density up to global standards
- We need new approach and new technologies to achieve this
 - e.g, use of telemedicine and mHealth
- In mHealth area, Apollo has developed screening programs that individuals can use at home

Dr. Prabhat Jha

- The key to healthcare cooperation is a science-based approach to policy
- India still has relatively high rates of early childhood mortality, but that is changing rapidly
- In Canada, there is a dramatic decrease in vascular disease-related death
 - ...but in India, the leading cause of death is vascular disease (e.g., stroke, heart disease)
- vascular disease is not unique to the rich, but more prevalent among the poor
- By changing the drug approval process by accepting generics that are effective, this can be particularly effective for lowering mortality among those who can least afford healthcare
- India has many smokers and they can benefit profoundly by quitting
 - ...public policy needs to be changed

Ms. Sunita Agarwal

- Gene therapy has made a major breakthrough in ophthalmology
- Many advances in medicine come from ophthalmology
- new approaches to gene therapy offer tremendous potential without the risks associated with other approaches

OPENING ADDRESS: Dr. ERIC HOSKINS

- It is important for both Canada and India to invest in R&D
- our geographies are vast so we face similar challenges in terms of access in rural areas, etc.
- many opportunities for collaboration in research, generic medicines, technology
- Ontario Healthcare Action Plan is called "Patients First"
 - this is central to the approach that the government is taking
 - the programs and services are a means to the end, but not the end itself

South Asian Health Issues

Dr. Sonia Anand

- Indian diaspora has higher rate of heart disease than others
- When looking at ethnic origin (rather than country of birth) reveals a significant rate of CHD and cancer amongst South Asians vs. Chinese and European origin
 - ...why is this?
- Some of the studies at McMaster suggest that although smoking decreases as Indians migrate, Diabetes Mellitus, hypertension and BMI increase
- Canadian government (CIHI) and Indian government research agencies have worked together to study obesity
- S. Asian mothers tend to be more obese and have higher rates of gestational diabetes
- Central obesity contributes to diseases like cancer

Dr. Mark Bayley

- a stroke is a "brain attack"
 - ...caused by an interruption of blood flow to brain
- people with high blood pressure, high cholesterol, obesity, are at higher risk
- new therapies like thrombolysis can remove clot to restore flow
- even in Canada, only 10% of individuals get to the hospital in time to use these new methods
- as a result, there are a number of people who need to recover from stroke and brain rehabilitation
- for every symptomatic stroke, there may be up to six small ones, and this can be a warning/precursor to Alzheimer's

Dr. Gopal Bhatnagar

- heart disease occurs in SA at a younger age
- up to 80% of Cardio Vascular Disease (CVD) is lifestyle related
- immediate impact of CVD incidence in SA population is that we need more diagnostic equipment
- money spent on healthcare is money not spent elsewhere in the economy

Dr. Madhukar Pai

- India has an enormous burden of infectious and chronic disease
- of the 9 million cases of TB globally, 25% is from India
- 1000 people a day die in India of TB
- there is a cure for this disease, and it only takes 6 months, yet high rates of mortality still exist
- scaling up of DOTS has made treatment free
- ...but despite this, India still has these high rates of TB and TB-related death
- drug-resistant TB has exploded so we are back to the sanatorium era where we can't do anything for TB cases

- The private sector is a huge resource that the government in India does not know much about

- Private healthcare dominates the healthcare market in India (most patients go to private doctor before public sector)
- ...doctors often prescribe the wrong antibiotics, which contributes to drug resistance

- chemists are de-facto healthcare providers (you can get practically anything from them)
- ...we need to harness them to identify TB earlier

TB is a "bottom of the pyramid problem"; huge population, little ability to pay

- working with labs, we have been able to dramatically reduce the cost of testing
- ...expanding this collaboration with private sector can be applied to dengue fever etc.

Dr. Preet Dhillon

- when looking at chronic diseases in India, healthcare access has a significant impact on mortality rates
- diet, indoor air pollution are among the factors contributing to poor health
- malnutrition and undernutrition is still a big problem
- In terms of expenditures, 80% is out of pocket
- In terms of research, we are looking at not just individual lifestyle risk factors, but also environment (e.g., built environment, availability of healthy food vs. fast food)
- Cancer rates are increasing in India, especially as access to diagnostic testing increases
- smoke-free tobacco use is widespread in India
- we have much higher body fat in relation to BMI
- nutritional epidemiology has revealed risks in the S. Asian diet

Dr. Naheed Dosani

- palliative care is both the ethical and economic imperative
- 23 million people in india are homeless
- in Toronto, there are many homeless people and they are at an increased rate of diseases like cancer, heart disease, mental illness, etc.
- in addition to homeless, there are many vulnerably housed in Canada and India (e.g., paying more than 50% of income on housing, couch-surfing, etc.)
- ...the risk factors in this population is just as bad as homeless
- Homelessness cuts lifespan by 50%
- palliative care doesn't just "add life to days", it adds days to life

LUNCH ADDRESS

Howard Rocket

- doctors may save lives, but it takes a lot more to "get your life back" (i.e., quality of life)
- health issues have an individual, physical impact, but also a societal/emotional impact

Hon. Dr. Asha Seth

- Maternal and Child health affects people around the world
- According to the United Nations, a woman dies every two minutes due to a pregnancy-related complications (99% are preventable)
- ...most occur in developing countries

- Millions of children also suffer
- More than 40% of child death occurs in first month of life

Canada is contributing to address this global problem...

- Muskoka Initiative to end maternal and child death
- In 2014, Canadian government pledged an additional \$3.5 B towards maternal/child health
- In countries like India, Canadian initiatives have supported critical nutrition programs to reduce child mortality e.g., the micronutrient initiative

Key challenges

- access to immunization
- dietary vitamin A
- environments allow pathogens to thrive

Future opportunities

- telemedicine (especially in rural areas)
- Despite Millennium Development Goals, there is still so much to do
- Challenges include access and continuity
- in Canada, there is maldistribution of healthcare resources
- ...in India, this problem is compounded by enormous population
- Telemedicine offers incredible potential in rural areas
- ...as broadband access spreads, the potential continues to increase

Dr. Pramod Bhende

- Sankara Nethralaya provides world class eye care to ALL (regardless of ability to pay)
- conducts India-centric research

Public Private Partnership

- all consultants work for the organization, profits return to organization
- first eye hospital in India to receive ISO certification
- post-surgery infection rate is much lower than accepted rate
- rated as the best specialty hospital

GOAL -- end preventable blindness due to causes such as cataracts

- Almost 50% of cataract surgery at SN is done free of charge
- 40 million people in India either have glaucoma or at risk of developing glaucoma
- We need more surgeons, more hospitals, reduction in costs of surgery, government help, private funding

Mr. Chris Duncan

- ultrasound is the least expensive, least invasive method of looking inside the body, and it saves lives

Problem:

- in India, the PNMT law has restricted access to ultrasound to rural centres
- ... fetal sex selection is a difficult social problem, but the implications go beyond social challenges

Solutions:

- minimally trained practitioners can perform scans in rural areas which are then interpreted by physicians remotely
- portable ultrasounds

Dr. S. Gurushankar

- India has a huge shortage of hospital beds
- India only spends 4% of GDP on healthcare overall...and only 1.38 is spent by government
...so most healthcare is provided by private players
- India only has 9 hospital beds for every 10000, and these are concentrated in urban centres (as opposed to, say, the US, at 31/10000, or China @ 20/10000)
- India needs to build more hospitals for two reasons...charity or business
...either way, the opportunity is in rural areas
- bigger cities already have enough hospitals and providers
- Meenakshi Mission Hospital started as a small hospital and is now the largest private hospital in Madurai (Tamil Nadu)
...caters to various villages, too, via a hub-and-spoke model
- Future areas of growth include Africa (so many opportunities there because infrastructure is even less than in India)

Canada India Foundation has donated a mobile clinic to the hospital.

Mr. V. Ponraj

- Tamil Nadu is one of the most advanced states in India in terms of healthcare
- access to healthcare in rural areas is a challenge because of cost, infrastructure, etc.
...but even if these challenges are met through innovation (e.g., telemedicine), people may not use it (e.g., they seek immediate relief from chemist instead of seeking an accurate diagnosis from a telemedicine centre which does not offer immediate relief)
- mobile diagnostic clinic can cover all the villages (funded by CIF)

So far, the experience of telemedicine is that it is used to diagnose, but there is tremendous opportunity to use telemedicine to treat, as well, which reduces in-patient admission (and, indirectly, costs)

- Plenty of opportunities for Healthcare Collaboration Initiatives in rural areas

Dr. Susan Dahinten

- UBC School of Nursing has been providing education in Punjab since 1998
- nurses are present in every healthcare setting "the backbone" of healthcare system
- there is a worldwide shortage of nurses, and India is part of this
- the quality of nursing education is just as important as the number of trained nurses
- UBC has done a lot to advance the status of nursing education (increasing nursing baccalaureate programs)
- international partnerships need to be supplemented by local mentorship

Dr. Rakesh Vyas

- healthcare sector in India is one of the prominent contributors to GDP in future
- India has become very popular for medical tourism and clinical research
- Indian Council for Medical Research (ICMR) principal coordinator for healthcare research in India
- The vision of Gujarat Cancer and Research Institute (GCRI) is:
... to design novel interdisciplinary approaches to research and healthcare delivery

- GCRI has the largest patient pool for clinical trials, large tumour repository, trained workforce

Dr. Bill Cheliak

- Chelation Partners; Restoring the Efficacy of Antibiotics
- there are a lot of effective antibiotics in existence
- many are no longer effective due to resistance
- using a proprietary polymer, iron ions can be taken away from pathogens to make "old" antibiotics effective again
- by partnering with Indian companies e.g., Jubilant LifeScience, Bionees India Private Limited, a tiny Canadian company can tackle a huge problem like antibiotic resistance

Dr. Senthil Muthuswamy

- Princess Margaret Hospital is collaborating with India
- Research focuses on cancer
- to study cancer cells in 3D, we usually use mice, but this takes a lot of time, which is very scarce/valuable in cancer research
- about 15 years ago, we developed approach where we can grow tumour cells in spheres
...this allows for personalized medicine approaches (see which drug a particular type of tumour cell responds to)
- Cancer is a ticking time bomb in India
...so significant collaboration (e.g., with Canada) is required

Digital Health

Mr. Sridhar Mosur

- this area of healthcare is not restricted by funding, because there is a lot of funding coming in
- digital health also empowers patients, turning patients into consumers

Ms. Jane DeLacy

- William Osler covers quite a large area with a lot of special needs
- aging population is an aspect of the demographic being served
- huge burden of chronic disease (e.g., highest proportion of diabetes in the province)
- very diverse ... 50% born outside Canada
- busiest ER in the country, so unscheduled ER visits are a challenge

- virtual care provides one potential approach to confronting some of the challenges (e.g., managing chronic diseases effectively reduces unscheduled hospital visits)
- digital health can also help patients manage their own disease (self-management)
...e.g., patients using equipment at home (blood pressure, scale, oximeter), nurses interact with patients and track trends over time and provide coaching
- dramatic decrease in hospital admissions

Mr. Curran Holla

- CSi is a software consulting firm
- healthcare IT needs to be interoperable, needs to be user friendly for both provider and patient
- success stories include PANORAMA project with Ontario Ministry of Health, St. Michael's project management

Dr. Sonny Kohli and Dr. Anil Gupta

- "Handheld Healthcare" -- from Haiti to XPRIZE
- in areas with few resources (e.g., post-earthquake Haiti), access to technology is a huge barrier to diagnosis (e.g., ECG)
- Challenge -- create a technology to deal with resource-poor environments (very similar to space, actually) that is autonomous (reduced dependence on providers)
...essentially a "tricorder" (turning science fiction into reality)
- goal of device; diagnose all 5 vital signs, where AI can look for problems such as Atrial Fibrillation, Pneumonia, etc.

Dr. Sabatino Nacson

- looking for non-invasive diagnostic tools using chemical markers in breath
- widespread applications and implications ... e.g., look at what we are breathing in workplace environment and related diseases
- lots of information in our breath (e.g., ketones in breath could indicate acidosis related to blood sugar, fish smell could indicate liver failure)

DINNER

Mayor of Brampton Linda Jeffrey

- bringing business, government and healthcare is really important
- Brampton's future success depends on creating excellent healthcare
- The presence of leading companies with three major hospitals presents Brampton with an opportunity to become an attractive place for healthcare workforce
- Other developments are also contributing...e.g., LRT and rail development, potential to develop a university in Brampton
- Mayor wants Brampton to be an applied health sciences-themed university
- City of Brampton is a proud sponsor because Brampton-based business care about the future of healthcare in Brampton

Mayor of Mississauga Bonnie Crombie

- Mississauga is home to a dynamic and growing life sciences industry
- The exchange of ideas at this summit are of great relevance to Mississauga
- Today, Mississauga is the home to the third largest life sciences cluster in Canada (after Montreal and Toronto)
- Several world-class companies choose Mississauga as their home (e.g., "pill hill")
- Mississauga has an airport, access to highways, close proximity to United States, etc.
- Mississauga has two world-class educational institutions (UTM and Sheridan)

Hon. Michael Chan

- a strong trade relationship = a true friendship
- Ontario and India share a very special relationship
- The jurisdictions with the most immigrants trade the most
- We want to use our immigrant networks to attract investment
- Ontario wants to share with India the growth potential in knowledge development and technology
- In healthcare, in particular, there are special opportunities because we attract medical talent from around the world
- We have turned healthcare into a product that we export (e.g., medical devices, hospital construction and administration, etc.)
- When Modi visited Canada last month, he helped create relationships and strengthen ties
- Let's use this conference to increase trade between two nations and create jobs in Ontario
- Ontario has trade offices in Delhi and Mumbai ... there are more trade mission ambitions in the future

Mr. Gautam Khanna

- India is a land of opportunity in terms of healthcare
- HUGE population
- Hinduja Group is comprised of not-for-profit hospitals (some of the best in the country)
- Indian healthcare market was worth \$70 billion in 2012
- right now, there is an increased healthcare consumption due to economic growth and urbanization
- growth of private health insurance...expected to grow at 25% CAGR
- Government is working on integrating IT with healthcare
- Huge boom of start-ups in healthcare with a lot of VC investment
- You can get world class healthcare at 10-20% of the international cost in India
- However, India has some challenges...
....ACCESS is the biggest challenge

Others:

- affordability (70% of expenditure is out of pocket)
- quality

"The Iron Triangle of Healthcare" = Access, Affordability, Quality

- Country is growing economically and lifestyle is changing
- people are more sedentary with poor diets, which is contributing to increased costs

HNH Example;

- Short Stay Service, like a daycare centre
- lower treatment costs, higher bed turnover, etc.
- Care @ Home
- homecare services like Lab sample collection, nursing and physiotherapy
- facilities like online booking, payment and test report delivery
- leads to improved patient satisfaction

IT has helped

- e.g., movie tickets in India are now purchased on the phone...hospitals are starting to do the same thing

...no crowding and no queuing up to pay
- People queue to pay or collect reports...
- e-mail can be used to distribute reports

- Increasing Thrust on Medical and Clinical Research
- Increasing access in rural areas being achieved through mobile clinics

Opportunities in India include

- building capacity
- talent and knowledge sharing
- IT integration
- healthcare financing and insurance
- alliances for large healthcare projects

MAY 20

Hon. Dr. Kellie Leitch

- Canadian government has been focused on protecting women and children, particular girl children around the world
- Last June, PM Harper hosted "Saving Every Women, Every Child", and pledged significant funding towards this cause
- Muskoka Initiative; focus = preventing maternal death and eradicating preventable maternal death in the developing world

- Three foci;
health systems
improved nutrition (e.g., 'sprinkles' vitamins)
basic immunization

- Government has also focused on human/girl rights (e.g., prevention of child marriages)

Innovations in Healthcare Delivery

Dr. Sunita Agarwal

- one drop of blood + one drop of mana = fetal, healthy cells

Dr. Fred Kahn

- laser therapy has long been doubted in medicine, even though it is highly effective
- Meditech was focused on biomedical research and development, focussing on laser therapy
- range of conditions include arthritis and trauma by treating inflammation
- also can be used to treat traumatic brain injury (AKA concussion)
- the company hosts more than 25 educational opportunities that are dedicated to educating clinicians to better serve their patients
- two clinics in Toronto treating up to 1400 patients/week
- it takes less than a week to train someone to use lasers, the equipment is easy to transport (so it can be taken to India easily)

Mr. Maneesh Mehta & Ms. Janet Beed

- Markham Stouffville Hospital recently grew significantly
- healthcare delivery in Ontario is going through a lot of change now; substantial decreases in funding
- when trying to expand, these changes can affect service
- older patients require 3x as much funding as younger patients
- 5% of population takes up 66% of budget
- many components of expansion; important to make certain that foundation was true to mission and vision of hospital
- the future of healthcare is uncertain and unpredictable...but in healthcare, we need to base decisions about future on the past data

Dr. Nam Parumalsamy

- At Aravind Eye Care, the word "innovation" need not be groundbreaking -- focus is on the bottom on the pyramid; helping the poorest
- There is a tremendous need for eye care in India and blindness is a large problem
- Now there are 4000 beds across all Aravind Eye Care hospitals
- only 35% of patients pay for services; 65% subsidized
- sliding scale payment

Rehabilitation

Dr. Paul Oh

- current focus in rehab = chronic disease instead of acute (prevention can save a lot of money in the long-term)
- e.g. S. Asian population = vulnerable to diabetes

Dr. Mahendra Narwaria

- Indian culture includes a lot of eating
- Obesity is a medical disease that requires treatment like any other disease
- now India has obesity and undernutrition
- central obesity and low muscle mass is a particularly big problem (due to genetics and diet)

Dr. Narendranath

- locally developed foot prosthetic; low cost solution utilizing local knowledge from IIT Bombay

Dr. David Alter

- recent research suggests that risk to S. Asian population to develop heart disease is much higher than other populations, but once heart disease develops, mortality risks are pretty similar
- ...so prevention needs to be the goal
- multilateral partnerships are required
- innovative approaches are required (e.g., use of technology...adding a beat to music listened to via an iPod can dramatically help with cardiac rehab)
- despite cultural differences in terms of onset of disease, the end stage of disease are the same...we have to approach the so-called 'know-do gap'

Mr. Michael Wahister

- mild traumatic brain injury is often missed or misdiagnosed
- 80% of concussions resolve in less than 21 days, but the remainder require rehab
- Impact Applications has the largest clinical database in the industry

LUNCH

Hon. Dipika Damerla M.P.P.

- Healthcare is a tremendously important part of Canadian identity (e.g., Canadians chose Tommy Douglas as the most influential Canadian)
- however, universal healthcare comes at a tremendous cost
- we need to find ways to bend the cost curve
- how is India able to provide world-class healthcare at such a lower cost?
...the answer is NOT because providers are paid less

- Ontario has a lot to learn from approaches being used in India
- Ontario healthcare is currently spending a lot in acute care, but we need to invest more on non-communicable chronic diseases

- In the 1830s, when public health first started (e.g., cholera), there were hypotheses surrounding sanitation to prevent disease from developing in the first place
...we need to find similar preventive approaches for non-infectious diseases
- we spend 50% more on acute care than we do on health promotion

- a few things that are being done in health and long-term care;
...bill 45 "making healthy choices act"
...if passed, it would make it mandatory for all restaurants with more than 20 locations to post calories
...empowers consumers to make more informed choices
- also, Ontario plans to ban flavoured tobacco and menthol cigarettes
- Ontario smoking bans have had a widespread impact on other provinces
- also, regulation of electronic cigarettes may be in the pipeline
- When it comes to chronic disease prevention, the two most important things that Ontario can do is to quit smoking and maintain a healthy weight

Wellness and Alternative Healthcare

Ms. Geeta Athreya

- wellness is very hard to define, but it involves harmony of body mind and spirit
- India has so much to offer in the alternative healthcare space (e.g., yoga, Ayurveda, etc.)

Dr. Ghazala Javed

- Indian government has been committed to training and research of indigenous systems of healthcare (from the time of Nehru)

- There are about 7 Ayush practitioners/10000 people in India
- These systems of traditional medicine are regulated by the central government
- there is a lot of work being done to safeguard traditional knowledge and prevent biopiracy

Mr. Gavin Bogle

- BlueOcean Nutrasciences is a collaboration with an Indian entity (shrimp oil)
- shrimp oil is a very high source of omega 3s
- Omega 3s have countless benefits and few side-effects
- BlueOcean takes the waste product of shrimp fishing (in Canada) and turns it into oil in India
- Some pills are vegan (algae oil)

Dr. Srinivas Rao Nyapati

- the NAM (National Ayush Mission) launched in September 2014 by PM Modi
- ...can contribute to bending the cost curve

Dr. Gagan Bhalla

- We can reduce our chances of having chronic diseases by up to 80% if we follow at least four of the following;
 - ...stop smoking
 - ...30 minutes of daily physical activity
 - ...eating well
 - ...maintaining healthy body weight
- yoga is an ancient gift from India for the rest of the world
 - ...backed up by lots of scientific research that continues to this day
 - in addition to weight management, yoga also improves immunity
 - most of the money spent on healthcare is on curative care rather than preventative care
 - ...but an ounce of prevention is worth a pound of cure

Dr. Paul Ritvo

- we are currently in the midst of a "mindful revolution"
 - ...there is an abundance of positive findings in mindfulness meditation
- we are also in the midst of a mental health crisis; across the world
 - ...depression and suicide are enormous challenges in India
- in Canada, we want to provide more services to those who need it (e.g., students), but many of those who need it do not actually attempt to access these resources
 - ... at York, they started offering meditation tutorials free of charge
 - ... the results were profound; very large effects on mood
- we can now look inside the brain to see what is happening when mindfulness is used

Healthcare Research

Dr. Harvey Skinner

- mobile phones are one of the most disruptive technologies ever created...one in three mobile phones in India are smartphones
- Gov't of Canada funded a recent study on use of mobile phones and cloud computing to increase quick access to care; can be used to manage global problems like diabetes
- York is one of the leaders in eHealth development in Canada

- the GTA is such a diverse region; so anything that is developed locally can be adapted abroad (huge strategic advantage)

Dr. Ron Heslegrave

- William Osler Health System is committed to patient-inspired care with no boundaries
- e.g., teams are sent to India to scout out collaborative opportunities with groups such as Apollo hospitals
- over 50% of community served by William Osler system are from abroad; particularly from North India

Dr. Steward Aitchison

- IC-IMPACTS is a partnership with a number of IITs with Canadian universities
...supports academic research, training (graduate level), community engagement, knowledge mobilization/commercialization
- areas of interest include mHealth, eHealth, training of personnel
- also working on things like Clean Ganga, etc.

Dr. Sadhna Joshi

- HIV treatment and prevention is vitally important global
...India has the third largest number of infections
- local research at University of Toronto involves gene therapy that can cure disease for entire life (as opposed to current strategies that require lifelong adherence to treatment)

Dr. Robin Green

- moderate to severe traumatic brain injury has lifelong implications but there is a lot we can do to improve long term prognosis
- most common causes of traumatic brain injury are car accidents
...falls are also a risk (especially among older adults)
- TBI is a chronic disease process (does not heal like a broken bone)
- In India, neurological disability is an epidemic, with TBI contributing to most of it
...More than 15 million people in India are living with neurological disability due to TBI
- cognitive behavioural therapy can help with depression and anxiety

Dr. Sheetal Pundir

- chloroquine was an important malarial therapy, can also be used for cancer

Geriatric Rehabilitation

Dr. Ron Keren

- Alzheimer's disease and dementia is a tremendous challenge facing aging population around the world
- ...affects patients, their families, and society at large
- Global incidence is expected to quadruple by 2050
- current approaches using animal models involve inoculation to prevent formation of plaques in brain

Healthcare Policy and Going Forward

Dr. Mrityunjay Athreya (moderator)

- four main stakeholders in Canada-India healthcare
 - Government of India
 - Indian business and civil society organizations
 - Canadian businesses and research organizations
 - Government of Canada (e.g., championing maternal and child health)

Mr. Akhilesh Mishra

- while India has pockets of excellence, there are also oceans of inadequacies (e.g., access to water, etc.)
- ...so providing for the poorest is the focus of PM Modi
- Canada has tremendous assets to help invest and develop healthcare in India

Mr. Anil Arora

- the role of the regulator is to look at products as they come in to make sure they are safe and efficacious
 - ...but how can the regulator also facilitate innovation?
(this is the way of the future)
- regulatory heads across nations should also collaborate to reduce redundancy through harmonization of regulation across borders
- there is a huge culture shift where public is demanding accountability and transparency from their regulatory agencies

Dr. Steve Morgan

- Canada is the only country with a universal healthcare system without universal coverage of drugs
- access to healthcare is a fundamental right
 - ... accomplishing this in India is very hard, but Canada faces a lot of similar challenges so we have a lot to learn from each other
- Canadian system is highly fragmented and expensive
 - ...factor of public healthcare and privately funded pharmaceuticals, etc.
- In terms of the path forward for prescription medicines, both countries might want to create a list of essential generic medications available at little/no cost

Dr. Arun Chockalingam

- The biggest problems in both Canada and India is chronic disease
- Every minister should be a health minister; health affects every aspect of public policy (e.g., crisis of garbage production and collection affects healthcare)

Dr. Jason Field

- What can Canadian industry do and contribute to move the needle in healthcare
- we need to build trust (e.g., at Life Sciences Ontario, they have developed a strong connection with Quebec)
 - ...industry needs to take the lead because governments are beholden to their voters and can have conflicts of interest
- we need to focus on increasing value (rather than focusing on cost containment)
 - ...how can we grow companies locally to collaborate with partners in places like India?
- we need access to capital
 - ...we (Canada) are a very wealthy nation that has developed through exploitation of natural resources but we need to leverage our intellectual capital better than we do now
- a few companies of interest
 - ... e.g., Nutrasource diagnostics in Guelph; does clinical trials to prove claims of natural health products
 - ...e.g., Clearsynth -- a group from India

Ms. Kavita Subramanian

- There is a staggering need for investment in Indian healthcare
- Recently, there is more investment in healthcare than financial sector
- If you look at listed pharma companies in India, there is a 3-8x return on five year investment
- little to no volatility ... demand is highly inelastic

On another note...

- a for-profit approach can be used to eradicate poverty (e.g., loans using social collateral)
- India can benefit tremendously from Canada learning more about women and child health



About Canada India Foundation

Since its formation in 2007, Canada India Foundation (CIF) has taken a leadership role in fostering support for stronger bilateral relations between Canada and India, greater engagement of the Indo-Canadian community in formulating Canadian public policy and increasing the awareness of Canadians of the changing face of India.

CIF has pursued these objectives through the following broad initiatives:

1. Through active participation in the public policy debate and active engagement with parliamentarians, CIF positions the need for a strategic partnership between Canada and India as critical to Canada's future
2. CIF works towards raising the profile of the Indo-Canadian community by facilitating:
 - participation by qualified members of the community in policy-making and the legislative process
 - engagement with legislators at the federal and provincial levels in the spheres of immigration, professional accreditation and national security
 - increased representation of the community within crown agencies, government boards and judicial and quasi-judicial tribunals
3. CIF takes an active role in increasing the awareness of Canadians about the changing face of India, and the promotion of Canada's interests in India. It seeks to do this by , among other initiatives:
 - the organization of policy forums highlighting specific sectors of collaboration between the two countries, and recommending policy imperatives
 - Participation in and support of initiatives aimed at greater interaction between the two countries, at multiple levels, i.e;
 - o Federal
 - o Provincial
 - o Municipal
 - o Academic and
 - o Private Sector

A sampling of the many activities that CIF has been involved in as part of the above initiatives is given below:

- Periodic meetings with Canada India Interparliamentary Friendship Group
- Meetings with representatives of political parties at both federal and provincial level
- Organization of the Canada India Energy Forum 2009, Canada India Mining and Metals Forum 2010, Canada India Agriculture and Food Processing Forum 2012, Canada India Infrastructure Forum in 2014 and the current Canada India Healthcare Summit.
- Conducting a think tank workshop to discuss and short list areas of importance for academic research in the Canada-India corridor

- Support to the federal Justice for Victims of Terrorism Act, which passed in March 2012
- Presentation of a case for greater engagement with India, through deposition in front of the Senate and House of Commons Sub-committees formed to review engagement with emerging economies

At CIF, we are all about celebrating our adopted land, Canada, and its people, while highlighting the need and opportunities for engaging with the land of our origin and ethnic identity, India.

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Ms. Kavitha Subramanian, Dr. V.I. Lakshmanan, Mr. Ramesh Chotai



Dr. Arun Chockalingam, Dr. Sonia Anand, Consul General Mishra



Dr. Lakshmanan, Summit Co-Chair welcomes the delegates.



Dr. Jeremy Desai, CEO, Apotex, delivers Plenary Session Address



Dr. Geoff Fernie, University Health Network speaks at Plenary Session



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Mr. Rahul Reddy, SVP, Apollo Hospitals



Dr. Prabhat Jha, Dr. Sunita Rana Agarwal and other Plenary Speakers



Ontario's Minister of Health, Hon. Eric Hoskins



Presentation from India's Ministry of Ayush to Minister Hoskins



Members of Ontario College of Homeopaths with Minister Hoskins



Healthcare Summit Organizing Committee members



Panel Speakers – South Asian Health Issues



Motivational Speaker Dr. Howard Rocket on Recovery from Stroke



Dr. Asha Seth speaking about Canada's initiatives on infant mortality



Panelists on the Distance Care/Rural Care Session



Summit Organizers and Delegates



Dr. Atul Tolia Moderating Session on Healthcare Collaboration



Summit Co-Chairs with Speakers at Digital Health Session



The Volunteers behind the success of the Healthcare Summit



Mayors Linda Jeffrey (Brampton) and Bonnie Crombie (Mississauga)



Ontario Minister Hon. Michael Chan delivering Dinner Address



Dinner Keynote Speaker, Mr. Gautam Khanna



Mayor of Markham, Frank Scarpitti with CIF's Satish Thakkar



Minister Hon. Kellie Leitch and ICBC's Ms. Nadira Hamid



Speakers at Session on Innovations in Healthcare Delivery



Speakers at the Rehabilitation Panel Session



Ontario's Assoc. Minister for Health, Hon. Dipika Damerla



CEO of The Hospital for Sick Children, Mr. Michael Apkon



Moderator Ms. Geeta Athreya leads Wellness Session Speakers



Speakers at Session on Research Collaboration Initiatives



Dr. Ron Keren speaks about Geriatric Rehabilitation



Moderator of the Going Forward Session, Dr. Mrityunjay Athreya



Asst. Deputy Minister, Canada's Ministry of Health, Mr. Anil Arora



Speakers at Going Forward Session discuss recommendations



All Smiles at the end of 2 days of productive dialogue