

Table of Contents

PREFACE

- 5 Welcome to the New *UTMJ*

NEWS

- 8 Perspective on Circumcision and HIV Transmission
Adam Weathermon
- 9 Sharing Solutions: A Successful Strategy for Tuberculosis that may be Used to Treat HIV/AIDS in Developing Countries
Amitha Kalaichandran
- 13 Lactic Acid: Fuel or Foe?
Melissa de Souza
- 15 Early Inhaled Corticosteroid Use in Children at Risk of Asthma
Husam Abdel-Qadir

VIEWS

- 18 **Health Policy and Economics**
Changing the Face of the Health Care System: Local Health Integration Networks (LHINs)
Theresa J.C. Pazonis

CLINICAL CASES

- 20 **Quick Diagnosis**
Case 1
Ali Zaidi and Rajkumar Vajpeyi
- 21 Case 2
Tom Trajkovski and Peter Ferguson
- 26 **Clinicopathological Correlation**
New Frontiers in Pediatric Medulloblastoma
Roberto Jose Diaz and Eric Bouffet
- 32 **Morning Report**
Something's Happening...I'm Not Who I Used to Be
Shannon Daniel and Mike Humphreys
- 35 The Great Pretender
Aidan Cunniffe

FEATURES

- 38 **International Health**
The Face of AIDS
Anna MacDonald
- 39 Student Reflections on the XVI International AIDS Conference 2006, Toronto, Canada
Susan Lee, Brodie Ramin, Quynh-Dao Dinh and Melissa Vyvey
- 42 **Complementary and Alternative Medicine**
Acupuncture: A Synopsis and Highlights of Recent Evidence of Efficacy in the Literature
Peter Tanuseputro, Gina Yip and Evan Kwong
- 45 **Medical Education**
Establishment of the University of Toronto at Mississauga (UTM) Academy: Perspectives from the Faculty of Medicine and Medical Society
Sagar B. Dugani and Julia Kfoury
- 48 **Current Medical Perspectives**
Dr. Albert J. Schumacher: Raising Awareness, Showing Direction, and Creating Results in the Medical Profession
Katie Yu and Kit Man Wong
- 51 **Technology Review**
The Microvascular Anastomotic Device and its Role in Free Tissue Transfer
Goran Jeremic, Mark Shrimme, Jonathan C. Irish, Ralph W. Gilbert and David Goldstein
- 55 **Philosophy and Medicine**
My Heart, Myself: Using a Phenomenological Model to Understand the Body
Lauren Bialystok
- 59 **Book Review**
Medical Marvels
Andrew Perrin

RESEARCH

- 60 "Ethics Teaching is as Important as My Clinical Education": A Survey of Participants in Residency Education at a Single University
Alex V. Levin, Scott Berry, Charles D. Kassardjian, Frazer Howard and Martin McKneally
- 64 Student Teachers: Medical Students Developing Content for Their Own Website-Supported, Self-Assessment Question Database
Gaurav Gupta, Ju Ho Park, Lawrence Spero, Stephen Keleher and Joyce Nyhof-Young

Cover Artist: Sherry Lai, B.M.L.Sc. Born in Taiwan, Sherry has pursued her education in Canada. She is fluent in both English and Mandarin. While obtaining her undergraduate degree in Pathology and Laboratory Medicine at the University of British Columbia, Sherry also worked on refining her artistic skills in her spare time. She is currently enrolled in the Master in Biomedical Communications Program in the Faculty of Medicine at the University of Toronto. Her project focuses on visualizing the disease process of aortic valve stenosis through 3D animation.

UTMJ

University of Toronto Medical Journal

Editors-in-Chief

Justine Chan, B.Sc. (0T9)
Janice Kwan, H.B.Sc. (0T9)

Associate Editors

Senior Sagar Dugani, M.Sc. (0T9)
Jonathan So, B.Sc. (0T9)
Junior Michael T. Jurkiewicz, Ph.D. (1T0)
Navneet Singh, H.B.H.Sc. (1T0)

Managing Editors

Senior Karen Jang, H.B.Sc. (0T9)
Junior Lik Hang Lee, H.B.Sc. (1T0)

Copy Editors

Senior Danica Lam, B.A.Sc. (0T9)
Nicolae Petrescu, B.Sc. (0T9)
Junior Lillia Fung, H.B.Sc. (1T0)
Okuda Taylor, B.Sc. (1T0)
Renée Tseng, H.B.Sc. (1T0)

News and Views Editors

Senior Melissa de Souza, M.Sc. (0T9)
Adam Weathermon, M.A.Sc. (0T9)
Junior Adrian Fawcett (1T0)
Marat Slessarev, M.Sc. (1T0)
Jane Wang, B.Sc. (1T0)

Morning Report Editors

Senior Ashley Hawrylyshyn, B.Sc. (0T9)
Junior Nasir Khan (1T0)

Clinicopathological Correlation Editors

Senior Sivan Bega, M.Sc. (0T9)
Adrian Sacher (0T9)
Junior Homan Cheng, B.Sc. (1T0)

Health Policy and Economics Editors

Senior Theresa J.C. Panzionis, M.A. (0T9)
Junior Matt Schlenker, B.A. (1T0)

Historical Review Editors

Senior Haowei (Linda) Sun (0T9)
Junior Joanna Lazier, H.B.Sc. (1T0)

Medical Education Editors

Senior Ekta Khemani, M.Sc. (0T9)
Junior Sarah Chan, H.B.Sc. (1T0)

International Health Editors

Senior Alice Han, M.Sc. (0T9)
Esther Li (0T9)
Melissa Vyvey, M.Phil. (0T9)
Junior Marlena Habal (1T0)
Winnie Siu, H.B.A.Sc. (1T0)

Quick Diagnosis Editors

Senior Sagar Dugani, M.Sc. (0T9)
Jonathan So, B.Sc. (0T9)
Junior Christine Law, B.Sc. (1T0)

Current Medical Perspectives Editors

Senior Rebecca Menzies, H.B.Sc. (0T9)
Junior Mimi Wang, B.Sc. (1T0)

Philosophy and Medicine Editors

Senior Alex Mansfield (0T9)
Rubini Pathy, B.Sc. (0T9)
Junior Sapna Jha, B.Sc. (1T0)
Amy Shafey, H.B.Sc. (1T0)

Technology Review Editors

Senior Joseph Koval, B.E.Sc., B.A. (0T9)
Jonathan Toma, B.Sc. (0T9)
Junior Emilie Lam (1T0)

Alternative Medicine Editors

Senior Gina Yip, M.H.Sc. (0T9)
Junior Gordon McSheffrey, B.Sc. (1T0)

Book Review

Senior Andrew J. Perrin, M.Res. (0T8)
Junior Daria Pylypiak, B.M.Sc. (1T0)

Financial Officer

Priscilla Che, B.Sc. (0T9)

Graphics Editor

Sherry Lai, B.M.L.Sc. (BMC)

Webmaster

Thien Huynh, B.H.Sc. (0T9)

Editorial Board

Hamideh Alasti, CCPM
Judith Balogh, M.D.
Stephanie J. Brister, M.D.
Janet Craik, M.Sc., OT Reg. (Ont.)
Ian Crandall, D.Phil.
Marko Duic, M.D.
Kymm Feldman, M.D.
Philip Hébert, M.D., Ph.D.
Maggie Lee Huckabee, Ph.D.
Cheryl Jaigobin, M.D.
Richard J. Moulton, M.D.
Richard Pittini, M.D.
Patrick Tang, M.D., Ph.D.
James P. Waddell, M.D.
V. Wee Yong, Ph.D.

Faculty Advisory Board

Chair, Allan Detsky, M.D., Ph.D.
Shabbir Alibhai, M.D.
Jane Aubin, Ph.D.
Michael Baker, M.D.
John M.A. Bohnen, M.D.
Gary Levy, M.D.
Donald Redelmeier, M.D.
Katherine Siminovitch, M.D.
Duncan Stewart, M.D.
Donald Wasylenko, M.D.

Typesetting

Type & Graphics Inc.

The University of Toronto Medical Journal is funded in part by its subscribers and the Medical Society. Patronage to the Journal is subdivided into four categories. Friend of the *UTMJ* - \$50.00; *UTMJ* Patron - \$75.00; *UTMJ* Benefactor - \$100.00; and *UTMJ* Grand Benefactor - > \$100.00. To subscribe, please see the last page of the Journal. The *UTMJ* wishes to thank the following patrons for their generous donations:

UTMJ Grand Benefactor

Dr. Michael A. Baker
Department of Medicine, Mount Sinai Hospital
Dr. John S. Floras
Dr. Ronald S. Fenton
Dr. Barry Goldlist
Dr. Filoteo Pasquini
Dr. Catharine Whiteside

UTMJ Benefactor

Dr. Eduardo R. Azevedo
Dr. Alan Bocking
Dr. C. Mark Cheung
Dr. Arnis Freiberg
Dr. Michael Hutcheon
Dr. Jason Shack
Dr. Donald Stuss

UTMJ Patron

Dr. Marius Aurelian
Dr. I. George Fantus
Hospital for Sick Children Hospital Library
Dr. Stephen Kraft
Dr. Steven Shadowitz

Friend of the UTMJ

Dr. Anne Agur
Anderson Architects
Dr. Ronald Burkes
Dr. Edward Cole
Dr. Helen P. Demshar
Dr. Armand Keating
Dr. J. T. Marotta
Dr. Robert N. Richards

The Editors apologize for any omissions to the above list; this list represents our final version at press time. We will update the list in future issues.

Department of Medicine, Mount Sinai Hospital

The University of Toronto Medical Journal wishes to thank Dr. Allan Detsky and the following patrons from the Department of Medicine at Mount Sinai Hospital for their generous donations:

Dr. Howard Abrams	Dr. Stephen Lapinsky
Dr. Dominick Amato	Dr. Peter Lee
Dr. Eduardo Azevedo	Dr. Gary Lewis
Dr. Jerald Bain	Dr. Conrad Liles
Dr. Meyer Balter	Dr. Ken Locke
Dr. Alan Barolet	Dr. Alexander Logan
Dr. Martin Blackstein	Dr. Susanna Mak
Dr. Claire Bombardier	Dr. Heather McDonald-Blumer
Dr. Louise Bordeleau	Dr. Sangeeta Mehta
Dr. Ronald Burkes	Dr. Melitta Mezody
Dr. Vivian Bykerk	Dr. Malcolm Moore
Dr. Simon Carette	Dr. Alvin Newman
Dr. Charles Chan	Dr. Gary Newton
Dr. Ed Cole	Dr. Mitra Niroumand
Dr. Jack Colman	Dr. Mirek Otremba
Dr. Tim Cook	Dr. John Parker
Dr. Allan Detsky	Dr. Yash Patel
Dr. Daniel Drucker	Dr. Sue Quaggin
Dr. Shereen Ezzat	Dr. Ravi Retnakaran
Dr. George Fantus	Dr. Cheryl Rosen
Dr. Denice Feig	Dr. Douglas Ryan
Dr. S. Victor Feinman	Dr. Zion Sasson
Dr. John Floras	Dr. Maureen Shandling
Dr. Shital Gandhi	Dr. Mark Silverberg
Dr. Shiphra Ginsburg	Dr. Katherine Siminovitch
Dr. Jewel Gold	Dr. Hillary Steinhart
Dr. R. Goldstein	Dr. Thomas Stewart
Dr. Pamela Goodwin	Dr. Jerry Tenenbaum
Dr. Allan Gordon	Dr. Hillar Vellend
Dr. M. Gordon	Dr. Robert Wald
Dr. Gordon Greenberg	Dr. Randy Wax
Dr. Tony Hanley	Dr. Catherine Zahn
Dr. Jacqueline James	Dr. Noe Zamel
Dr. Ralph Kern	Dr. Bernard Zinman
Dr. Ed Keystone	

Welcome to the New *UTMJ*

It is with great pleasure that we present to you the 2006-2007 edition of the University of Toronto Medical Journal (UTMJ). We are deeply honoured and grateful to have been given the opportunity to be a part of the great history of this medical student publication. This academic year, our vision is to continue the time-honoured tradition of our predecessors, while reinvigorating the Journal in order to usher it into a new era fitting for the rapidly evolving world of modern medicine. This issue marks the introduction of a newly designed logo, as well as a revitalized layout. Moreover, together with the editorial staff, we have compiled a myriad of fascinating news, views, clinical, feature, and research articles that will interest both the first-year novice and the seasoned medical expert.

The striking image on the cover designed by Biomedical Communications student, Sherry Lai depicts an HIV virion descending upon planet Earth. With the lessons learned from AIDS 2006: XVI International AIDS Conference held in Toronto during the month of August still reverberating clearly in our minds, it was only natural for us to choose "The Global Impact of HIV/AIDS" as the theme for this issue. The gravity of this devastating disease not only manifests itself as an international phenomenon, but a medical and human condition that greatly affects us all. In our Feature piece in the International Health section, four University of Toronto medical students describe their experiences at AIDS 2006, and detail the ways in which medical students can involve themselves in the fight against HIV/AIDS. Furthermore, in our News section, Weathermon explores the evidence for and against circumcision and HIV transmission, while Kalaichandran investigates the applicability of the Directly-Observed Treatment Short-Course (DOTS) strategy used in tuberculosis towards the treatment for AIDS.

Also in this issue is a stimulating investigation into the efficacy of acupuncture by Tanuseputro et al. in the Feature article on Complementary and Alternative Medicine. In the Feature article on Medical Education, you will find an informative interview with Deans Whiteside and Rosenfield, together with the current and past presidents of the Medical Society concerning the expansion of medical education into the University of Toronto at Mississauga.

Last but not least, we would like to take this opportunity to express our gratitude to our patrons, without whose continued support, we would be unable to carry on the lasting legacy of academic and literary excellence of the Journal.

We truly hope that you will enjoy reading this issue of the UTMJ.

Your Sincerely,

Justine Chan and Janice Kwan
Editors-in-Chief



Office of Student Affairs
Faculty of Medicine, University of Toronto

Here to **MATCH** Your Needs

- PERSONAL**
- crisis/problems
 - health (physical and emotional)
 - safety/security
 - mistreatment in personal/academic life
 - housing and other issues of concern
- ACADEMIC**
- mentors
 - leave of absence/withdrawal from school
 - special accommodations for disabilities
- CAREER**
- Glaxo Career Pathway Program
 - career fairs
 - licensing examinations, etc.
 - skills for interviews, resume and letter writing
- BRIDGING THE GAP**
- stress and time management
 - study skills
 - gender and equity issues
 - multicultural issues
 - other pertinent concerns and issues raised by students

*In the spirit of the medical profession,
all personal counselling is done discreetly*

DIRECTOR: DR. ANNA JARVIS
COORDINATOR: DIANA ALLI
SECRETARY TO DIRECTOR: NADIA NALLI
STUDENT AFFAIRS ASSISTANT: DABBIE LAU
CAREER COUNSELLOR: TERESA SCANNELL
COUNSELLOR/THERAPIST – ALL PROGRAMS: CHRISTOPHER HURST
MEDICAL RADIATION COUNSELLORS: AISHA SHEIKH, PATRICIA CHARMAN
Medical Sciences Building
Rm. 2171B, 1 King's College Circle, Toronto, Ontario M5S 1A8
(416) 978-2764



The Scarborough Hospital

The future of urban
community healthcare
begins here.

Please contact Kaaren Barbaro, Medical Affairs at (416) 431-8101
for more information about practice opportunities with us.

Areas of Practice

Cardiology Oncology Geriatrics Haematology Respiriology Paediatrics
Endocrinology Gastroenterology Neurology Rheumatology Thoracics
Infectious Diseases General Medicine Intensive Care Anesthesiology
Diagnostic Imaging Emergency Services Family Practice Internal Medicine
Laboratory Medicine Obstetrics/Gynecology Psychiatry Surgery

Please email us at physicians@tsh.to