Focus Issue

Social Determinants of Cardiovascular Health and Disease

Guest Editors: James Brophy, MEng, MD, FRCP(C); Dennis Ko, MD, MSc; Mamas Mamas, BMBCh, DPhil, Brian McCrindle, MD, MPH, Harindra Wijeysundera, MD, PhD, FRCPC FCCS

Society and News

Announcements

945 Call for Original Papers: Focus Issue on Sports and Exercise
946 Call for Original Papers: Focus Issue on Circulatory Support and Shock Management
948 Call for Original Papers: Focus Issue on Right Heart Disease

CCS Announcement

949 CCS National Lipid Screening Awareness

President’s Page

950 Exciting New Initiatives Expand the CCS Community

Michelle Graham, MD, FRCPC, FCCS

General Clinical Practice Update

953 Canadian Cardiovascular Society/Canadian Women’s Heart Health Alliance Clinical Practice Update on Myocardial Infarction With No Obstructive Coronary Artery Disease (MINOCA)

Christine Pacheco, MD, MSc, FRCP(C)(Co-chair), Thais Coutinho, MD (Co-chair), Alexandra Bastiany, MD, FRCP(C), DRCPSC, Rob Beanlands, MD, Kevin E. Boczar, MD, Martha Gulati, MD, MS, FACC, FAHA, FASPC, FESC, Shuangbo Liu, MD, FRCP(C), Judy Luu, MD, PhD, FRCP(C), Sharon L. Mulvagh, MD, FRCP(C), FACC, FASE, FAHA, Amelie Paquin, MD, MSc, Jacqueline Saw, MD, and Tara Sedlak, MD, FRCP(C), MBA
## Table of Contents

### Guest Editor’s Perspective

**Editorial**

969 Social Determinants of Health in Cardiovascular Disease: A Call to Action  
*Dennis T. Ko, MD, MSc, James M. Brophy, MD, PhD, Mamas A. Mamas, DPhil, Brian W. McCrindle, MD, MPH, and Harindra C. Wijeysundera, MD, PhD*

### Social Determinants of Cardiovascular Health

**Editorial**

973 Social Determinants of Health, Adherence, and Outcomes in Heart Failure: The Role of Social Prescribing  
*Jonathan Houle, MD, Alayne M. Adams, PhD, Colleen Norris, RN, PhD, Abhinav Sharma, MD, PhD, and Louise Pilote, MD, MPH, PhD*

**Review**

976 Causal Inference Challenges in the Relationship Between Social Determinants and Cardiovascular Outcomes  
*Jay S. Kaufman, PhD*

989 The Dynamic Nature of the Socioeconomic Determinants of Cardiovascular Health: A Narrative Review  
*David A. Alter, MD, PhD, Peter C. Austin, PhD, and Aaron Rosenfeld, MD*

**Systematic Review/Meta-analysis**

1000 Untangling the Complex Multidimensionality of the Social Determinants of Cardiovascular Health: A Systematic Review  
*Navya Vyas, Aida Zaheer, and Harindra C. Wijeysundera, MD, PhD*

**Review**

1007 Socioeconomic Determinants of Health: Remoteness From Care  
*Luke Ekersley, MBBS, PhD*

1016 Racial and Ethnic Disparities in Primary Prevention of Cardiovascular Disease  
*Mohammad R. Ali, PhD, Hadjer Nacer, PhD, Claire A. Lawson, PhD, and Kamlesh Khunti, PhD*

*Continued*
<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1031</td>
<td>Addressing Social Determinants of Health in Maternal Cardiovascular Health</td>
<td>Adhya Mehta, MD, Jared Spitz, MD, Sneha Sharma, DO, Jason Bonomo, MD, PhD, LaPrincess C. Brewer, MD, MPH, Laxmi S. Mehta, MD, and Garima Sharma, MD</td>
</tr>
<tr>
<td>1043</td>
<td>The Impact of Social Determinants of Health on Transition From Pediatric to Adult Cardiology Care</td>
<td>Diana L. Cabrera Fernandez, MD, Keila N. Lopez, MD, MPH, Katia Bravo-Jaimes, MD, and Andrew S. Mackie, MD, SM</td>
</tr>
<tr>
<td>1056</td>
<td>Socioeconomic Disparities in Women’s Cardiovascular Health in the United States and Canada</td>
<td>Gurleen Kaur, MD, Diane Masket, MS, Tina Reddy, MS, Shruti Revankar, MD, Priyanka Satish, MD, Amelie Paquin, MD, MSc, Sharon Mulvagh, MD, Michelle L. O’Donoghue, MD, MPH, Shelley Zierath, MD, Michael Farkouh, MD, and Martha Gulati, MD, MS</td>
</tr>
<tr>
<td>1069</td>
<td>Indigenizing Cardiac Rehabilitation: The Role for Cultural Adaptation</td>
<td>Miles Marchand, MD, Rylan K. McCallum, BSc, Kergan Marchand, MD, Sonia S. Anand, MD, PhD, Nathaniel Moulson, MD, Carolyn M. Taylor, MD, MPH, and Daisy Dulay, MD</td>
</tr>
<tr>
<td>1077</td>
<td>Determinants, Prevention, and Incidence of Cardiovascular Disease Among Immigrant and Refugee Populations</td>
<td>Manav V. Vyas, MBBS, PhD, FRCPC, Vanessa Redditt, MD, CCFP, Sebat Mohamed, BSc, Mosana Abraha, BEng, BME, Javal Sheth, BSc, Baiju R. Shah, MD, PhD, FRCPC, Dennis T. Ko, MD, MSc, FRCPC, and Calvin Ke, MD, PhD, FRCPC</td>
</tr>
</tbody>
</table>

**Systematic Review/Meta-analysis**

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1088</td>
<td>Mediators of the Association Between Socioeconomic Status and Survival After Out-of-Hospital Cardiac Arrest: A Systematic Review</td>
<td>Nicholas Grubic, MSc, BScH, Braeden Hill, BHSc, Katherine S. Allan, PhD, MAs, Katerina Maximova, PhD, Hailey R. Banack, PhD, Marina del Rios, MD, MS, and Amer M. Jobri, MD, MSc, FASE</td>
</tr>
</tbody>
</table>

**Review**

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1102</td>
<td>Are Socioeconomic Factors Associated With Atrial Fibrillation Sex-Dependent? A Narrative Review</td>
<td>Yusheng Zhou, PhD, Claire Grall-Johnson, BSc, Jonathan Houle, MD, and Louise Pilote, MD, MPH, PhD</td>
</tr>
<tr>
<td>1110</td>
<td>Barriers to Access to Cardiac Surgery: Canadian Situation and Global Context</td>
<td>Dominique Vervoort, MD, MPH, MBA, Abdul Muqadde Afzal, HBSc, Gabriela Zamunaro Lopez Ruiz, MD, Chileshe Mutema, MD, Harindra C. Wijeyasurya, MD, PhD, Maral Ouzounian, MD, PhD, and Stephen E. Femes, MD, MSc</td>
</tr>
<tr>
<td>1123</td>
<td>Disparities by Social Determinants of Health: Links Between Long COVID and Cardiovascular Disease</td>
<td>Amitava Banerjee, MA, MBBCl, MPH, DPhil, FRCP</td>
</tr>
</tbody>
</table>
## Systematic Review/Meta-analysis

### 1135 Approaches to Comparing the Impact of Socioeconomic Disadvantage on Acute Myocardial Infarction Care Within and Across Countries: A Scoping Review

Leo E. Akioyamen, MD, Dennis T. Ko, MD, MSc, Peter Cram, MD, MBA, and Bruce E. Landon, MD, MBA

### Review

### 1146 Socioeconomic and Ethnic Disparities in the Process of Care and Outcomes Among Cancer Patients With Acute Coronary Syndrome

Mohamed O. Mohamed, PhD, Arjun K. Ghosh, PhD, Amitava Banerjee, DPhil, and Mamas Mamas, DPhil

### 1154 Challenges in Promoting Health Equity and Reducing Disparities in Access Across New and Established Technologies

Alex Hoagland, PhD, and Sarah Kipping, RN, MSN, CPMHN(C)

## Training/Practice: Health Policy and Promotion

### 1168 Centering Equity in Cardiovascular Health Technology Assessment

Dominique Vervoort, MD, MPH, MBA, Aminah Sallam, MD, Stephen E. Fremen, MD, MSc, Harindra C. Wijeysundera, MD, PhD, and Derrick Y. Tam, MD, PhD

## Training/Practice: Contemporary Issues in Cardiology Practice

### 1172 Race and Ethnicity Research in Cardiovascular Disease in Canada: Challenges and Opportunities

Saswata Deb, MD, PhD, Maneesh Sud, MD, PhD, Natalie Coburn, MD, MPH, Angela Jerath, MD, MSc, Mehras Motamed, MD, Baiju Shah, MD, PhD, Javal Sheth, BSc, and Dennis T. Ko, MD, MSc

## Letters to the Editor

### 1176 Disparities in Cardiovascular Health: Looking Beyond Traditional Categories

Akshay Pendyal, MD, MHS

### 1177 Reply to Pendyal—Long-term Adverse Outcomes in Black Women With Obstructive Coronary Artery Disease: A Study of the Women’s Ischemia Syndrome Evaluation (WISE) Cohort

Judy M. Luu, MD, PhD, FRCPC, C. Noel Bairey Merz, MD, and Janet Wei, MD

## Journal Information

A7 Information for Readers