Contents

Section 1: Pregnancy and CVD in Women
Section Editor: Asha Mahilmaran

Associate Editors: Rukmani Prabha, S Anne Princy, Rajeshwari Nayak, Vatchala Sree Varadharajan, K Meenakshi, S Jayalakshmi, Radha Priya Yalamanchi, Aruna D, Narra Lavanya, Prabhakar Dorairaj, G Justin Paul

1. Prenatal Factors Associated with Maternal Cardiometabolic Risk Markers during Pregnancy: The ECLIPSES Study 1
2. Peripartum Screening for Postpartum Hypertension in Women with Hypertensive Disorders of Pregnancy 3
3. Adverse Pregnancy Outcomes and the Development of Short-term Maternal Cardiovascular Disease Risk Factors 6
4. Risk of Future Cardiovascular Diseases in Different Years Postpartum after Hypertensive Disorders of Pregnancy 7
5. Meta-analysis of Cardiovascular Risk Factors in Offspring of Preeclampsia Pregnancies 9
6. Early Pregnancy Cardiometabolic Risk Factors and the Prevalence of Metabolic Syndrome 10 Years after First Pregnancy 11
7. Association of Gestational Diabetes Mellitus with Overall and Type Specific Cardiovascular and Cerebrovascular Diseases: Systematic Review and Meta-analysis 12
8. Coronary Artery Bypass Graft Surgery for Spontaneous Coronary Artery Dissection in Early Pregnancy: Medical and Ethical Decision-making Issues 14
9. Contemporary Rates of Pre-pregnancy Hypertension and Diabetes Among a Multi-ethnic Sample of Pregnant Individuals in a Diverse US State 16
10. Pregnancy Loss and Risk of Incident CVD Within 5 Years: Findings from the Women's Health Initiative 18
11. Management of Hypertension in Pregnancy 20

Prelims_Shibba Chhabra.indd 23 25-11-2023 15:40:08

Section 2: Hypertension and CVD in Women
Section Editor: Sujatha Vipperla

Associate Editors: Anil Kumar Mahapatro, Achukatla Kumar

1. Sex Differences in Arterial Hypertension: A Scientific Statement from the ESC Council on Hypertension, the European Association of Preventive Cardiology, Association of Cardiovascular Nursing and Allied Professions, the ESC Council for Cardiology Practice, and the ESC Working Group on Cardiovascular Pharmacotherapy 25
2. Sex and Gender in Hypertension Guidelines 28
3. Evaluating Sex Differences in the Effect of Increased Systolic Blood Pressure on the Risk of Cardiovascular Disease in Asian Populations: A Systematic Review and Meta-analysis 30
4. Effect of Sacubitril/Valsartan or Valsartan on Ventricular Remodeling and Myocardial Fibrosis in Perimenopausal Women with Hypertension 32
5. Salt Sensitivity of Blood Pressure in Women 33
6. Placental Syndromes and Long-term Risk of Hypertension 35
7. Hypertension: Sex-related Differences in Drug Treatment, Prevalence, and Blood Pressure Control in Primary Care 37
8. The Effect of Calcium and Vitamin D Supplements on Blood Pressure in Postmenopausal Women: Myth or Reality? 38
9. The Impact of Antihypertensive Treatment of Mild-to-moderate Hypertension during Pregnancy on Maternal and Neonatal Outcomes: An Updated Meta-analysis of Randomized Controlled Trials 40
10. Medications for Preventing Hypertensive Disorders in High-risk Pregnant Women: A Systematic Review and Network Meta-analysis 42
11. Effects of Yoga on Cardiometabolic Risks and Fetomaternal Outcomes are Associated with Serum Nitric Oxide in Gestational Hypertension: A Randomized Control Trial 44
12. The Association between Hypertensive Disorders in Pregnancy and the Risk of Developing Chronic Hypertension 46
13. Is Blood Pressure 120–139/80–89 mm Hg before 20 Weeks a Risk Factor for Hypertensive Disorders of Pregnancy? A Meta-analysis 49
14. Low-dose Aspirin for the Prevention of Superimposed Preeclampsia in Women with Chronic Hypertension: A Systematic Review and Meta-analysis 51
15. Differential Sex-specific Effects of Angiotensin-converting Enzyme Inhibition and Angiotensin Receptor Blocker Therapy on Arterial Function in Hypertension: CALIBREX Trial 53
16. Comparing the Effects of Different Exercises on Blood Pressure and Arterial Stiffness in Postmenopausal Women: A Systematic Review and Meta-analysis 55

17. Effectiveness of a Community-based Education and Peer Support Led by Women's Self-help Groups in Improving the Control of Hypertension in Urban Slums of Kerala, India: A Cluster Randomized Controlled Pragmatic Trial 56
18. Focus on Today's Evidence While Keeping an Eye on the Future: Lessons derived from Hypertension in Women 58

Section 3: Dyslipidemia and CVD in Women
Section Editor: Kunal Mahajan

Associate Editors: Tanuj Bhatia, Jaikrit Bhutani, Sai Devvrat, Abhishek Rastogi, Prashant Patel, Lokesh Verma

1. Sex Differences in Lipid-lowering Therapy of Familial Hypercholesterolemia 67
2. Gender Disparity in the Relationship between Lipid Profile and the Incidence of Cardiovascular Disease in Young Adults 68
3. Correlation between the Nutrition and Lipid Profile among Adult Women 70
4. Calorie Restriction to Improve Metabolic Health among Overweight or Obese Females 72
5. Effect of Regular Exercise on Lipids and Apolipoprotein Profiles in Middle-aged Women 74
6. Significance of Levothyroxine Treatment on Serum Lipid in Pregnant Women with Subclinical Hypothyroidism 75
7. Association of Lipid Levels with the Prevalence of Hypertension in Chinese Women 76
8. Effect of Optimized Food-based Recommendation Promotion on Lipid Profiles among Minangkabau Women with Dyslipidemia 78
9. Association between Serum Lipid Profile and Osteoporosis in Postmenopausal Women 79
10. Temporal Sequence of Blood Lipids and Insulin Resistance in Perimenopausal Women 81
11. Usefulness of Lipid Screening during First Trimester of Pregnancy 82
12. Sex-specific Differences in Premature ASCVD and its Risk Factors among Patients with Familial Hypercholesterolemia 84
13. Effect of Food-away-from-home on Lipid Profile 85
14. Association between Serum Lipids and Hemostatic Factors 87
15. Impact of Insulin Resistance on Serum Lipoprotein Profile in Women with Gestational Diabetes Mellitus 88
16. Correlation of Trends in Lipid Profiles from First to Second Trimester with Trends in Insulin Indices and Gestational Diabetes Mellitus 90
17. Impact of Early Midlife Cardiovascular Health on Future HDL Metrics in Women 91

Section 4: Diabetes Mellitus and CVD in Women
Section Editor: J Cecily Mary Majella

Associate Editors: Vatchala Sree Varadharajan, K Meenakshi, T Neelambujan, Aarathy Kannan, Rohith Velusamy, J Nandhini, Sundar C, S Arulrhaj, Manikandan, Nikhil Govind, Arun Ranganathan, P Deepa

1. Cardiovascular Risk and Lifetime Benefit from Preventive Treatment in Type 2 Diabetes Mellitus: A Post Hoc Analysis of the CAPTURE Study 95
2. Association of Gestational Diabetes Mellitus with Overall and Type Specific Cardiovascular and Cerebrovascular Diseases: Systematic Review and Meta-analysis 98
3. Cardiovascular Outcomes in Type 1 and Type 2 Diabetes Mellitus 100
4. Cardiovascular Risk Factors in Diabetic Patients with Metabolic Syndrome 105
5. 14 Sex-specific Predictors of Coronary Microvascular Function in a Multiethnic Cohort of 455 Asymptomatic People with Type 2 Diabetes Mellitus 107
6. Pregestational Diabetes Mellitus and Congenital Heart Defects 109
7. Rising Prediabetes, Undiagnosed Diabetes, and Risk Factors in Young Women 112
8. Can Artificial Intelligence Predict Heart Disease in Diabetic and Prediabetic Women: Hype or Hope? 114

Section 5: Metabolic Syndrome and CVD in Women
Section Editor: Hetan C Shah

Associate Editors: Tamagna Ghosh, Bhavik Shah, Chandrakant Chavan, Malav Jhala

1. Assessment of Cardiovascular Risk in Women: Progress So Far and Progress to Come 123
2. Cardiometabolic Biomarkers in Women with Polycystic Ovary Syndrome 124
3. Cardiovascular Health in the Menopause Transition: A Longitudinal Study of up to 3,892 Women with up to Four Repeated Measures of Risk Factors 126
4. Cumulative Burden of Metabolic Syndrome and Its Components on the Risk of Atrial Fibrillation: A Nationwide Population-based Study 128
5. Fitness Attenuates Long-term Cardiovascular Outcomes in Women with Ischemic Heart Disease and Metabolic Syndrome 130
6. Gender Differences and Cardiometabolic Risk: The Importance of the Risk Factors 131
7. Menstrual Cycle Regularity and Length Across the Reproductive Lifespan and Risk of Cardiovascular Disease 133
8. Metabolic Disorders in Menopause 134
9. Cardiovascular Disease in Women: Clinical Perspectives 135

10. Metabolic, Behavioral, and Psychosocial Risk Factors and Cardiovascular Disease in Women Compared with Men in 21 High-income, Middle-income, and Low-income Countries: An Analysis of the PURE Study 137
11. Modifiable Cardiovascular Risk Factors in Adults Less than 40 Years of Age 139
12. Scoring Systems of Metabolic Syndrome and Prediction of Cardiovascular Events: A Population-based Cohort Study 140
13. Sex Differences in Adiposity and Cardiovascular Diseases 142
14. Subclinical Cardiovascular Disease and Polycystic Ovary Syndrome 143
15. Women's Reproductive Milestones and Cardiovascular Disease Risk: A Review of Reports and Opportunities from the CARDIA Study 144

Section 6: CVD in Women: Acute Coronary Syndrome
Section Editor: Sarita Rao

Associate Editors: Roshan Rao, Roopali Khanna, Hema S, Pankaj Manoria, Prerna Goyal, Priya Palimkar, Amjad Ali, Abha Pandit, Mahpaekar Mashhadi, Harsh A Chaudhary, Achukatla Kumar

1. Gender Disparities in Prevalence by Diagnostic Criteria, Treatment and Mortality of Newly Diagnosed Acute Myocardial Infarction in Korean Adults 149
2. Sex-specific and Hormone-related Differences in Vascular Remodeling in Atherosclerosis 151
3. Incidence and Outcomes of Cardiogenic Shock Among Women with Spontaneous Coronary Artery Dissection 152
4. Sex-related Differences in Thrombus Burden in STEMI Patients Undergoing Primary Percutaneous Coronary Intervention 153
5. Ischemia with No Obstructive Coronary Arteries (INOCA): A Review of the Prevalence, Diagnosis and Management 155
6. Less Revascularization in Young Women but Impaired Long-term Outcomes in Young Men after Myocardial Infarction 157
7. Updates on MINOCA and INOCA through the 2022 Publications in the International Journal of Cardiology 159
8. Updates on Pharmacologic Management of Microvascular Angina 160
9. Association between Hormone Therapy and Short-term Cardiovascular Events in Women with Spontaneous Coronary Artery Dissection 162
10. Sex Differences in 10-year Outcomes Following STEMI: A Subanalysis from the EXAMINATION-EXTEND Trial 164

Section 7: Coronary Artery Disease and CVD in Women
Section Editor: Bhupinder Singh

Associate Editors: Suraj Kumar, Surender Deora

1. Sex Differences in the Clinical Presentation of Acute Coronary Syndromes 168
2. Sex-related Differences in Plaque Characteristics and Endothelial Shear Stress-related Plaque-progression in Human Coronary Arteries 169
3. Sex-specific Associations of Myocardial Perfusion Imaging with Outcomes in Patients with Suspected Chronic Coronary Syndrome 170
4. The Prevalence of Risk Factors and Pattern of Obstructive Coronary Artery Disease in Young Indians (<45 Years) Undergoing Percutaneous Coronary Intervention: A Gender-based Multicenter Study 172
5. Sex Difference in the Association of the Triglyceride Glucose Index with Obstructive Coronary Artery Disease 173
6. Relationship between Breast Arterial Calcification and Coronary Artery Disease by Invasive Coronary Angiography in Postmenopausal Women 174
7. Early Coronary Atherosclerosis in Women with Previous Preeclampsia 176
8. Comparative Effectiveness of Initial Computed Tomography and Invasive Coronary Angiography in Women and Men with Stable Chest Pain and Suspected Coronary Artery Disease: Multicenter Randomized Trial 177
9. Sex Difference in Coronary Artery Spasm Tested by Intracoronary Acetylcholine Provocation Test in Patients with Nonobstructive Coronary Artery Disease 179
10. Psychosocial Well-being and Progression of Coronary Artery Calcification in Midlife Women 180

Section 8: Miscellaneous
Section Editors: Kunal Mahajan, J Cecily Mary Majella, Ankur Goyal

Associate Editors: Jai Bharat Sharma, Rahul Yadav, Surender Kumar, Suresh Kumar P, Raghothaman Sethumadhavan, Raagini Gupta, Nikita Sharma, Zoofi Shan, Muzammil Farooqi, Rabia Aggarwal, Khushi Goyal, Anshdeep Saluja, Harsh Kishore, Samman Verma, Akash Batta

1. Gender Differences in Benefits of Empagliflozin in Patients with HFpEF 184
2. Sex Differences in Bleeding Events in Patients Receiving Aspirin and P2Y12 Inhibitor after Percutaneous Coronary Intervention for Acute Coronary Syndrome 186
3. Gender Differences in Mortality Rate after Surgical Aortic Valve Replacement 188
4. Sex Differences in Outcomes after Single Antiplatelet Maintenance Therapy after Percutaneous Coronary Intervention 189
5. Sex Differences in Quality of Life of Heart Failure Patients 191

6. Gender Differences in Heart Failure Trends in China from 1990 to 2019 193
7. Gender Disparities after Transcatheter Aortic Valve Replacement with Newer-generation Transcatheter Heart Valves: A Systematic Review and Meta-analysis 194
8. Gender Differences in Atrial Fibrillation: From the Thromboembolic Risk to the Anticoagulant Treatment Response 196
9. Sex Differences in Characteristics, Outcomes, and Treatment Response with Dapagliflozin Across the Range of Ejection Fraction in Patients with Heart Failure: Insights from DAPA-HF and DELIVER 197
10. Gender Differences in Acute Aortic Dissection 199
11. Sex and Gender Differences in the use of Oral Anticoagulants for Non-valvular Atrial Fibrillation: A Population-based Cohort Study in Primary Health Care in Catalonia 201
12. Maternal and Fetal Outcomes in Pregnant Patients with Mechanical and Bioprosthetic Heart Valves 207
13. Validation of Risk Stratification for Cardiac Events in Pregnant Women with Valvular Heart Disease 208
14. Pregnancy Outcomes in Women with Heart Disease: The Madras Medical College Pregnancy and Cardiac (M-PAC) Registry from India 209
15. 2023 HRS Expert Consensus Statement on the Management of Arrhythmias During Pregnancy 210
16. 2023 ESH Guidelines for the Management of Arterial Hypertension the Task Force for the Management of Arterial Hypertension of the European Society of Hypertension Endorsed by the International Society of Hypertension (ISH) and the European Renal Association (ERA) 212
17. Sex-based Differences in Risk Factors for Incident Myocardial Infarction and Stroke in the UK Biobank 213

Index 221