

Contents

vii Foreword

Hiort, O. (Lübeck); Ahmed, S.F. (Glasgow)

ix Preface

Hughes, I. (Cambridge); Lee, P. (Hershey, Pa.)

Concepts

1 Gonadal Development

Lucas-Herald, A.K. (Glasgow); Bashamboo, A. (Paris)

17 The Masculinization Programming Window

Welsh, M. (Glasgow); Suzuki, H.; Yamada, G. (Wakayama)

28 Androgen Action

Werner, R. (Lübeck); Holterhus, P.-M. (Kiel)

Technological Advances

41 Steroid Biochemistry

Kamrath, C.; Wudy, S.A. (Giessen); Krone, N. (Birmingham)

53 Next Generation Sequencing for Disorders of Sex Development

Tobias, E.S. (Glasgow); McElreavey, K. (Paris)

63 Advances in Neuroimaging

Rodie, M.E.; Forbes, K.P.; Muir, K. (Glasgow)

76 Imaging, Endoscopy and Diagnostic Surgery

Wünsch, L.; Buchholz, M. (Lübeck)

87 Fertility Issues in the Management of Patients with Disorders of Sex Development

Guercio, G.; Rey, R.A. (Buenos Aires)

Communication

99 Disorders of Sex Development Peer Support

Baratz, A.B. (Pittsburgh, Pa.); Sharp, M.K.; Sandberg, D.E. (Ann Arbor, Mich.)

113 Improving the Communication of Healthcare Professionals with Affected Children and Adolescents

Nordenström, A. (Solna); Thyen, U. (Lübeck)

128 Working with Adolescents and Young Adults to Support Transition

Gleeson, H. (Leicester); Wisniewski, A.B. (Oklahoma City, Okla.)

138 Past Experiences of Adults with Disorders of Sex Development

GrApSIA; Audi, L. (Barcelona)

The Use of Drugs

149 Sex Hormone Replacement in Disorders of Sex Development

Birnbaum, W. (Lübeck); Bertelloni, S. (Pisa)

160 Hydrocortisone Replacement in Disorders of Sex Development

Blankenstein, O. (Berlin)

Tumours

172 Advances in Molecular Markers of Germ Cell Cancer in Patients with Disorders of Sex Development

van der Zwan, Y.G. (Rotterdam); Cools, M. (Gent); Looijenga, L.H.J. (Rotterdam)

185 Managing the Risk of Germ Cell Tumourigenesis in Disorders of Sex Development Patients

Cools, M. (Ghent); Looijenga, L.H.J.; Wolffenbuttel, K.P. (Rotterdam); T'Sjoen, G. (Ghent)

Timing of Surgery

197 Timing of Hypospadias Repair in Patients with Disorders of Sex Development

Springer, A. (Vienna); Baskin, L.S. (San Francisco, Calif.)

203 Timing of Surgery for Feminizing Genitoplasty in Patients Suffering from Congenital Adrenal Hyperplasia

Eckoldt-Wolke, F. (Jena)

210 Timing of Feminising Surgery in Disorders of Sex Development

Wolffenbuttel, K.P. (Rotterdam); Crouch, N.S. (Bristol)

222 Phalloplasty: A Panacea for 46,XY Disorder of Sex Development Conditions with Penile Deficiency?

Callens, N.; Hoebeke, P. (Ghent)

International Aspects

234 Rare Diseases Research and Practice

Polizzi, A. (Rome); Balsamo, A.; Bal, M.O. (Bologna); Taruscio, D. (Rome)

257 Achieving Diagnostic Certainty in Resource-Limited Settings

Raza, J. (Karachi); Mazen, I. (Cairo)

268 Global Application of Disorders of Sex Development-Related Electronic Resources: e-Learning, e-Consultation and e-Information Sharing

Muscarella, M. (Cambridge, Mass.); Kranenburg-van Koppen, L. (Rotterdam); Grijpink-van den Biggelaar, K. (Delft); Drop, S.L.S. (Rotterdam)

284 International Networks for Supporting Research and Clinical Care in the Field of Disorders of Sex Development

Ahmed, S.F.; Bryce, J. (Glasgow); Hiort, O. (Lübeck)

293 Author Index

294 Subject Index