

Curriculum Vitae

Katharina Maria Main
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Primære forskningsområder

Normal and impaired development of the human gonads (ovaries and testes) pre- and postnatally including interactions with (epi)genetic, life style and growth-related factors as well as environmental influences such as endocrine disrupting chemicals.

Ansættelse

Consultant in Paediatric Endocrinology & Member of the Department's Management Team

Professor
Afdeling for Vækst og Reproduktion
Region Hovedstaden
København, Danmark
1 jan. 2000 → present

Københavns Universitet

Copenhagen, Danmark
1 jan. 2005 → present

1986 Graduation from Medical School, Bonn, Germany
1987 Medical Authorisation in Denmark
1990-1994 Clinical Research Fellow, Department of Growth and Reproduction
1998 Specialist authorisation in Paediatrics, Denmark
Since 2004 Consultant in Paediatric Endocrinology
2009-2013 Clinical Associate Research Professor, Copenhagen University
Since 2014 Professor in Paediatrics, Copenhagen University
Scientific Supervision
PhD students (Medicine, Public Health) 31, master students 20, bachelor 11, research year/semester students 7
Publications (per 26th Nov 2024)
Total number of publication: 320
H-index: 70
Citations 18.064
PhD Thesis
1995 Measurement of urinary growth hormones excretion: methodological aspects and reference values

Priser

Valborg og Edith Larsens Legat
Main, K. M. (Modtager), 2004

Publikationer

Endocrine management of transgender and gender diverse adolescents: expert opinion of the ESPE Working Group on Gender Incongruence and the Endo-ERN main thematic group on Sexual Development and Maturation
Hannema, S. E., Busiah, K., Butler, G., Claahsen-van de Grinten, H. L., Cools, M., Gawlik-Starzyk, A. M., Klink, D., Main, K. M., Martinerie, L., Richter-Unruh, A., Skordis, N. & de Vries, M. C., 2 dec. 2024, (E-pub ahead of print) I: Hormone

research in paediatrics. s. 1-41 41 s.

Delineating the psychiatric morbidity spectrum in congenital adrenal hyperplasia: a population-based registry study

Lind-Holst, M., Hansen, D., Main, K. M., Juul, A., Andersen, M. S., Dunø, M., Rasmussen, Å. K., Jørgensen, N., Gravholt, C. H. & Berglund, A., 15 nov. 2024, (E-pub ahead of print) I: The Journal of clinical endocrinology and metabolism.

Genotype-phenotype correlation and feminizing surgery in Danish children with congenital adrenal hyperplasia

Lind-Holst, M., Berglund, A., Duno, M., Hvistendahl, G., Fossum, M., Juul, A., Jørgensen, N., Main, K. M., Gravholt, C. H. & Hansen, D., 13 nov. 2024, (E-pub ahead of print) I: Hormone research in paediatrics. s. 1-13 13 s.

Gender Incongruence in Danish Youth (GenDa): A Protocol for a Retrospective Cohort Study of Danish Children and Adolescents Referred to a National Gender Identity Service

Ravnborg, N., Aslam, M., Norup, P. B., Tingsgård, J. V., Pagsberg, A. K., Haahr, M. E., Main, K. M. & Giraldi, A., 6 nov. 2024, I: Journal of Clinical Medicine. 13, 22, 6658.

Utility of First-Morning-Voided Urinary Total Luteinizing Hormone in Detecting the Onset of Central Puberty

Demir, A., Hero, M., Main, K. M. & Juul, A., 5 nov. 2024, (E-pub ahead of print) I: Hormone research in paediatrics. s. 1-9 9 s., 541586.

Growth and Adult Height Attainment in Danish Transgender Adolescents Treated with GnRH Analog and Sex Hormones

Norup, P. B., Haahr, M. E., Christiansen, P., Aksglaede, L., Cleemann, L., Johannsen, T. H., Juul, A. & Main, K. M., 1 nov. 2024, I: The Journal of clinical endocrinology and metabolism. 109, 11, s. 2764-2773 10 s.

Prenatal phthalate exposure and pubertal development in 16-year-old daughters: reproductive hormones and number of ovarian follicles

Assens, M., Frederiksen, H., Pedersen, A. T., Petersen, J. H., Andersson, A.-M., Sundberg, K., Jensen, L. N., Curtin, P., Skakkebaek, N. E., Swan, S. H. & Main, K. M., 1 nov. 2024, I: Human Reproduction. 39, 11, s. 2501-2511 11 s.

Paediatric patient referrals from Greenland to the National University Hospital, Rigshospitalet, Denmark

Bundgaard, J. S., Geisler, U. W., Rex, H., Voss, J. D., Main, K. M. & Skov, M., 12 jun. 2024, I: Danish Medical Journal. 71, 7, A07230466.

Anogenital distance in a cohort of 169 infant boys with uni- or bilateral cryptorchidism including 18 boys with vanishing testes

Cortes, D., Fischer, M. B., Hildorf, A. E., Clasen-Linde, E., Hildorf, S., Juul, A., Main, K. M. & Thorup, J., 3 apr. 2024, I: Human Reproduction. 39, 4, s. 689-697 9 s.

Long-term effects of high-dose systemic corticosteroids on growth and bone mineral density in patients treated for childhood interstitial lung disease (chILD)

Ring, A. M., Buchvald, F. F., Main, K. M., Oturai, P. & Nielsen, K. G., apr. 2024, I: Pediatric Pulmonology. 59, 4, s. 964-973 10 s.

Differentiation of Idiopathic Central Precocious Puberty from Premature Thelarche using Principal Component Analysis

Cleemann Wang, A., Hagen, C. P., Johannsen, T. H., Madsen, A. G., Hartvig Cleemann, L., Christiansen, P., Main, K. M., Juul, A. & Beck Jensen, R., 18 jan. 2024, I: The Journal of clinical endocrinology and metabolism. 109, 2, s. 370-379 10 s.

Cardiovascular autonomic nervous function in children conceived by assisted reproductive technology with frozen or fresh embryo transfer

Mizrak, I., Lund, M. A. V., Landgrebe, A. V., Asserhøj, L. L., Holstein-Rathlou, N.-H., Greisen, G., Clausen, T. D., Main, K. M., Vejstrup, N. G., Jensen, R. B., Pinborg, A. & Madsen, P. L., jan. 2024, I: American Journal of Physiology: Heart and Circulatory Physiology. 326, 1, s. H216-H222

Blood pressure and lipid profiles in children born after ART with frozen embryo transfer

Asserhøj, L. L., Mizrak, I., Kjær, A. S. L., Clausen, T. D., Hoffmann, E. R., Greisen, G., Main, K. M., Madsen, P. L., Pinborg, A. & Jensen, R. B., 2024, I: Human reproduction open. 2024, 2, s. hoae016 hoae016.

Editorial: Update on epidemiology, endocrinology and treatment of cryptorchidism

Virtanen, H. E., Main, K. M. & Toppari, J., 2024, I: *Frontiers in Endocrinology*. 15, 2 s., 1435877.

Enhanced identification of endocrine disruptors through integration of science-based regulatory practices and innovative methodologies: The MERLON Project

Svingen, T., Andersson, A.-M., Angelova, J., Axelstad, M., Bakker, J., Baumann, L., Beronius, A., Bouftas, N., Chalmel, F., Christiansen, S., Cornil, C., Damdimopoulou, P., Deepika, D., Dollé, M. E. T., Draskau, M. K., Fischer, M. B., Hagen, C. P., Hessel, E., Holmer, M. L. & Hughes, S. & 20 flere, Jensen, G., Johansson, H. K. L., Juul, A., Kumar, V., Kumar, S., Lardenois, A., Main, K. M., Mazaud-Guittot, S., Moe, S. J., Mola, G., Parent, A.-S., Pineda, R., Rolland, A., Rosenmai, A. K., Song, Y., Suglia, A., Tena-Sempere, M., Wehrli, L., Zilliacus, J. & van Duursen, M., 2024, I: *Open research Europe*. 4, s. 68 68.

Higher serum concentrations of PFAS among pesticide exposed female greenhouse workers

Andersen, H. R., Grandjean, P., Main, K. M., Jensen, T. K. & Nielsen, F., 2024, I: *International Journal of Hygiene and Environmental Health*. 255, 5 s., 114292.

Sex- and age-specific reference intervals of 16 steroid metabolites quantified simultaneously by LC-MS/MS in sera from 2458 healthy subjects aged 0 to 77 years

Frederiksen, H., Johannsen, T. H., Andersen, S. E., Petersen, J. H., Busch, A. S., Ljubicic, M. L., Fischer, M. B., Upners, E. N., Hagen, C. P., Main, K. M., Aksglaede, L., Jørgensen, N., Lund Kårhus, L., Linneberg, A., Andersson, A.-M., Flück, C. E. & Juul, A., 2024, I: *Clinica chimica acta; international journal of clinical chemistry*. 562, 119852.

The effect of 30 min of supine rest on plasma renin concentrations in paediatric patients

Al-Zoubaidi, D. F., Johannsen, T. H., Jørgensen, N. R. & Main, K. M., 2024, I: *Acta paediatrica*. 113, 11, s. 2473-2478 6 s.

The epidemiology of cryptorchidism and potential risk factors, including endocrine disrupting chemicals

Holmboe, S. A., Beck, A. L., Andersson, A.-M., Main, K. M., Jørgensen, N., Skakkebæk, N. E. & Priskorn, L., 2024, I: *Frontiers in Endocrinology*. 15, 1343887.

Sex-independent timing of the onset of central puberty revealed by nocturnal luteinizing hormone concentrations

Demir, A., Hero, M., Juul, A. & Main, K. M., dec. 2023, I: *Clinical Endocrinology*. 99, 6, s. 552-558 7 s.

Serum Insulin-like Factor 3, Testosterone, and LH in Experimental and Therapeutic Testicular Suppression

Albrethsen, J., Østergren, P. B., Norup, P. B., Sønksen, J., Fode, M., Kistorp, C., Nordborg, N. B., Solheim, S. A., Mørkeberg, J., Main, K. M. & Juul, A., 18 okt. 2023, I: *The Journal of clinical endocrinology and metabolism*. 108, 11, s. 2834-2839 6 s.

Long-term opioid treatment and endocrine measures in chronic non-cancer pain patients

Diasso, P. D. K., Abou-Kassem, D., Nielsen, S. D., Main, K. M., Sjøgren, P. & Kurita, G. P., sep. 2023, I: *European Journal of Pain*. 27, 8, s. 940-951 12 s.

Childhood BMI after ART with frozen embryo transfer

Asserhøj, L. L., Mizrak, I., Heldarskard, G. F., Clausen, T. D., Hoffmann, E. R., Greisen, G., Main, K. M., Madsen, P. L., Jensen, R. B. & Pinborg, A., 1 aug. 2023, I: *Human reproduction (Oxford, England)*. 38, 8, s. 1578-1589 12 s.

Sundhedsfaglige tilbud til børn og unge med kønsuhænge

Hansen, M. V., Giraldi, A., Main, K. M., Tingsgård, J. V. & Haahr, M. E., 3 jul. 2023, I: *Ugeskrift for Læger*. 185, 27, V11220740.

Reproductive hormones, bone mineral content, body composition and testosterone therapy in boys and adolescents with Klinefelter syndrome

López Krabbe, H. V., Holm Petersen, J., Asserhøj, L. L., Johannsen, T. H., Christiansen, P., Jensen, R. B., Cleemann, L. H., Hagen, C. P., Priskorn, L., Jørgensen, N., Main, K. M., Juul, A. & Aksglaede, L., 1 jul. 2023, I: *Endocrine Connections*. 12, 7, e230031.

Survival and long-term socioeconomic consequences of childhood and adolescent onset of brain tumours

Pickering, L., Main, K. M., Feldt-Rasmussen, U., Sehested, A., Mathiasen, R., Klose, M., Ibsen, R., Kjellberg, J. & Jennum, P., jul. 2023, I: *Developmental Medicine and Child Neurology*. 65, 7, s. 942-952 11 s.

Epidemiology and diagnostic trends of congenital adrenal hyperplasia in Denmark: a retrospective, population-based study

Berglund, A., Ornstrup, M. J., Lind-Holst, M., Dunø, M., Bækvad-Hansen, M., Juul, A., Borch, L., Jørgensen, N., Rasmussen, Å. K., Andersen, M., Main, K. M., Hansen, D. & Gravholt, C. H., maj 2023, I: *The Lancet regional health. Europe*. 28, 100598.

Exposure to Phthalates in European Children, Adolescents and Adults since 2005: A Harmonized Approach Based on Existing HBM Data in the HBM4EU Initiative

Vogel, N., Lange, R., Schmidt, P., Rodriguez Martin, L., Remy, S., Springer, A., Puklová, V., Černá, M., Rudnai, P., Középessy, S., Janasik, B., Ligočka, D., Fábelová, L., Kolena, B., Petrovicova, I., Jajcaj, M., Eštková, M., Esteban-Lopez, M., Castaño, A. & Tratnik, J. S. & 28 flere, Stajniko, A., Knudsen, L. E., Toppari, J., Main, K. M., Juul, A., Andersson, A.-M., Jørgensen, N., Frederiksen, H., Thomsen, C., Sakhi, A. K., Åkesson, A., Hartmann, C., Dewolf, M. C., Koppen, G., Biot, P., Den Hond, E., Voorspoels, S., Gilles, L., Govarts, E., Murawski, A., Gerofke, A., Weber, T., Rütther, M., Gutleb, A. C., Guignard, C., Berman, T., Koch, H. M. & Kolossa-Gehring, M., 4 mar. 2023, I: *Toxics*. 11, 3, 241.

Serum LH/FSH ratios in 87 infants with differences of sex development

Ljubicic, M. L., Johannsen, T. H., Fischer, M. B., Upners, E. N., Busch, A. S., Main, K. M., Andersson, A.-M., Hagen, C. P. & Juul, A., 1 mar. 2023, I: *Endocrine Connections*. 12, 3, 7 s., e220275.

Prevalence and risk factors for hypothalamus-pituitary-adrenal axis suppression in infants receiving glucocorticoid eye drops after ocular surgery

Schmidt, D. C., Kessel, L., Bach-Holm, D., Main, K. M., Larsen, D. A. & Bangsgaard, R., mar. 2023, I: *Acta Ophthalmologica*. 101, 2, s. 229-235 7 s.

Tracking and Cumulative Lifetime Exposure to IGF-I in 6,459 Healthy Individuals and in SGA Children Treated with GH

Kjaer, A. S. L., Jensen, R. B., Petersen, J. H., Linneberg, A., Kårhus, L. L., Henriksen, L. S., Johannsen, T. H., Main, K. M., Hoffman, A. R. & Juul, A., 15 feb. 2023, I: *The Journal of clinical endocrinology and metabolism*. 108, 3, s. 642-652 11 s.

AMH concentrations in infancy and mid-childhood predict ovarian activity in adolescence: A long-term longitudinal study of healthy girls

Hagen, C. P., Fischer, M. B., Wohlfahrt-Veje, C., Assens, M., Busch, A. S., Pedersen, A. T., Juul, A. & Main, K. M., jan. 2023, I: *EClinicalMedicine*. 55, 101742.

AMH and other markers of ovarian function in patients with Turner syndrome - a single center experience of transition from pediatric to gynecological follow up

Hagen, C. P., Fischer, M. B., Mola, G., Mikkelsen, T. B., Cleemann, L. H., Gravholt, C. H., Viuff, M. H., Juul, A., Pedersen, A. T. & Main, K. M., 2023, I: *Frontiers in Endocrinology*. 14, 1173600.

Maternal phthalate exposure during pregnancy and testis function of young adult sons

Henriksen, L. S., Frederiksen, H., Jørgensen, N., Juul, A., Skakkebaek, N. E., Toppari, J., Petersen, J. H. & Main, K. M., 2023, I: *Science of the Total Environment*. 871, 12 s., 161914.

Reproductive markers of testicular function and size during puberty in boys with and without a history of cryptorchidism

Rodprasert, W., Koskeniemi, J. J., Virtanen, H. E., Sadov, S., Perheentupa, A., Ollila, H., Albrethsen, J., Andersson, A. M., Juul, A., Skakkebaek, N. E., Main, K. M. & Toppari, J., 25 nov. 2022, I: *The Journal of clinical endocrinology and metabolism*. 107, 12, s. 3353-3361 9 s.

Prepubertal and pubertal gonadal morphology, expression of cell lineage markers and hormonal evaluation in two 46,XY siblings with 17 β -hydroxysteroid dehydrogenase 3 deficiency

von Spreckelsen, B., Aksglaede, L., Johannsen, T. H., Nielsen, J. E., Main, K. M., Jørgensen, A. & Jensen, R. B., 26 jul. 2022, I: *Journal of pediatric endocrinology & metabolism : JPEM*. 35, 7, s. 953-961 9 s.

Serum Testosterone Levels in 3-Month-Old Boys Predict Their Semen Quality as Young Adults

Scheutz Henriksen, L., Holm Petersen, J., Skakkebaek, N. E., Jørgensen, N., Virtanen, H. E., Priskorn, L., Juul, A., Toppari, J. & Main, K. M., 16 jun. 2022, I: *The Journal of clinical endocrinology and metabolism*. 107, 7, s. 1965-1975 11 s.

Dynamic Changes in LH/FSH Ratios in Infants with Normal Sex Development

Ljubicic, M. L., Busch, A. S., Upners, E. N., Fischer, M. B., Main, K. M., Andersson, A.-M., Johannsen, T. H., Hagen, C. P. & Juul, A., 1 jun. 2022, I: *European Journal of Endocrinology*. 187, 1, s. 135-142 8 s.

Cardiovascular function in 8- to 9-year-old singletons born after ART with frozen and fresh embryo transfer

Mizrak, I., Asserhøj, L. L., Lund, M. A. V., Kielstrup, L. R., Greisen, G., Clausen, T. D., Main, K. M., Jensen, R. B., Vejlstrop, N. G., Madsen, P. L. & Pinborg, A., 1 mar. 2022, I: *Human reproduction (Oxford, England)*. 37, 3, s. 600-611 12 s.

Clinical assessment of blood pressure in 60 girls with Turner syndrome compared to 1888 healthy Danish girls

Kjaer, A. S. L., Petersen, J. H., Cleemann Wang, A., Juul, K., Schmidt, I. M., Main, K. M., Juul, A. & Jensen, R. B., mar. 2022, I: *Clinical Endocrinology*. 96, 3, s. 428-438 11 s.

Environmental factors in declining human fertility

Skakkebaek, N. E., Lindahl-Jacobsen, R., Levine, H., Andersson, A.-M., Jørgensen, N., Main, K. M., Lidegaard, Ø., Priskorn, L., Holmboe, S. A., Bräuner, E. V., Almstrup, K., Franca, L. R., Znaor, A., Kortenkamp, A., Hart, R. J. & Juul, A., mar. 2022, I: *Nature reviews. Endocrinology*. 18, 3, s. 139-157 19 s.

Aortic distensibility is equal in prepubertal girls and boys and increases with puberty in girls

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Levels of persistent organic pollutants in breast milk samples representing Finnish and Danish boys with and without hypospadias

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Neonatal Screening for Congenital Adrenal Hyperplasia in Denmark: 10 Years of Experience

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Prenatal exposure to phenols and benzophenones in relation to markers of male reproductive function in adulthood

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Brain tumours in children and adolescents may affect the circadian rhythm and quality of life

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Brain tumours result in sleep disorders in children and adolescents

Pickering, L., Main, K. M., Sehested, A., Mathiasen, R., Feldt-Rasmussen, U., Klose, M., Kotagal, S. & Jennum, P. J., dec. 2021, I: *Sleep Medicine*. 88, s. 13-21 9 s.

Long-term opioid treatment and endocrine measures in chronic non-cancer pain patients: A systematic review and meta-analysis

Diasso, P. D. K., Benedikte, F. S., Nielsen, S. D., Main, K. M., Sjøgren, P. & Kurita, G. P., okt. 2021, I: *European Journal of Pain*. 25, 9, s. 1859-1875 17 s., 1797.

Pubarche and Gonadarche Onset and Progression Are Differently Associated With Birth Weight and Infancy Growth Patterns

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Associations between exposure to perfluoroalkyl substances and body fat evaluated by DXA and MRI in 109 adolescent boys

Thomsen, M. L., Henriksen, L. S., Tinggaard, J., Nielsen, F., Jensen, T. K. & Main, K. M., 28 jun. 2021, I: Environmental Health: A Global Access Science Source. 20, 1, s. 73 73.

Prenatal paraben exposure and anogenital distance and reproductive hormones during mini-puberty: A study from the Odense Child Cohort

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Associations between Prenatal Exposure to Phthalates and Timing of Menarche and Growth and Adiposity into Adulthood: A Twenty-Years Birth Cohort Study

Berman, Y. E., Doherty, D. A., Main, K. M., Frederiksen, H., Hickey, M., Keelan, J. A., Newnham, J. P. & Hart, R. J., maj 2021, I: International Journal of Environmental Research and Public Health. 18, 9, 4725.

The influence of prenatal exposure to phthalates on subsequent male growth and body composition in adolescence

Berman, Y. E., Doherty, D. A., Main, K. M., Frederiksen, H., Keelan, J. A., Newnham, J. P. & Hart, R. J., apr. 2021, I: Environmental Research. 195, 9 s., 110313.

Sex steroid action in adolescence: too much, too little; too early, too late: Sex steroid action in adolescence: too much, too little; too early, too late

Hansen, A. B., Wørdemann, D., Renault, C. H., Pedersen, A. T., Main, K. M., Røstgaard, L. L., Jensen, R. B. & Juul, A., jan. 2021, I: European Journal of Endocrinology. 184, 1, s. R17-R28

Brain Tumours Involving the Areas of the Circadian System Result in Disturbances in Melatonin Secretion, Fatigue and Poor Quality of Life

Boserup, L. P., Main, K., Sehested, A. M., Mathiasen, R., Feldt-Rasmussen, U., Klohe, M. & Jennum, P. J., 2021, I: Journal of the Endocrine Society. 5, Suppl. 1, s. A710

A common deletion in the growth hormone receptor gene (d3-GHR) in the offspring is related to maternal placental GH levels during pregnancy

Jensen, R. B., Boas, M., Nielsen, J. E., Maroun, L. L., Jørgensen, A., Larsen, T., Main, K. M. & Juul, A., dec. 2020, I: Growth Hormone & IGF Research. 55, s. 101360

Does height and IGF-I determine pubertal timing in girls?

Upners, E. N., Busch, A. S., Almstrup, K., Petersen, J. H., Assens, M., Main, K. M., Jensen, R. B. & Juul, A., 3 nov. 2020, I: Pediatric Research.

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The LH/FSH ratio is not a sex-dimorphic marker after infancy: data from 6417 healthy individuals and 125 patients with Differences of Sex Development

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Anogenital distance in healthy Infants:Method-, age- and sex-related reference ranges

Fischer, M. B., Ljubicic, M. L., Hagen, C. P., Thankamony, A., Ong, K., Hughes, I., Jensen, T. K., Main, K. M., Petersen, J. H., Busch, A. S., Upners, E. N., Sathyanarayana, S., Swan, S. H. & Juul, A., 1 sep. 2020, I: The Journal of clinical

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Menstrual Pattern, Reproductive Hormones and Transabdominal 3D Ultrasound in 317 Adolescent Girls

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A history of cryptorchidism is associated with impaired testicular function in early adulthood: a cross-sectional study of 6376 men from the general population

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The Acrosomal Status of Density Purified Spermatozoa Differentiates Men from Couples in IVF and ICSI Treatment and Is Associated with Fecundity

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Peptide Hormone Analysis in Diagnosis and Treatment of Differences of Sex Development: Joint Position Paper of EU COST Action "DSDnet" and European Reference Network on Rare Endocrine Conditions

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