

**Name and address of Centre**

Department of Andrology and Reproductive Endocrinology

Medical University of Łódź

92-213 Łódź, 251 Pomorska str., Poland

**Type of Centre**

University

☒

University Hospital

☒

Private Centre

☐

Other (please specify) \_\_\_\_\_

**1. Director** Prof. dr hab. med. Jolanta Slowikowska-Hilczner**2. Director** (if more Institutions in the Centre) \_\_\_\_\_**3. Present Staff** (*Senior Scientists*)

1) Name Prof dr hab med. Jolanta Slowikowska-Hilczner MD, PhD

Degree professor, scientist, academic teacher, physician

Speciality (pediatrics, endocrinology, andrology)

Full time/part time full time

Academician ☒Affiliated Member ☐Clinical Andrologist ☒2) Name Dr hab med. Renata Walczak-Jedrzejska  
MSc, PhD, DScDegree scientist, academic teacher, in charge of  
laboratory and teaching program;

Speciality molecular biology

Full time/part time full time

Academician ☐Affiliated Member ☐Clinical Andrologist ☐3) Name Dr hab. med. Katarzyna Marchlewska  
MSc, PhD, DSc

Degree scientist, academic teacher, in charge of contracts

Speciality biochemistry

Full time/part time part time

Academician ☐Affiliated Member ☐Clinical Andrologist ☐**Insert any additional staff below (if required)**

MD/Biologists/Chemists

1) Name \_\_\_\_\_

Degree \_\_\_\_\_

Speciality \_\_\_\_\_

Full time/part time \_\_\_\_\_

Academician ☐Affiliated Member ☐Clinical Andrologist ☐

Insert any additional staff below *(if required)*

#### PhD Students

- 1) Name Marta Sochaj
- 2) Name Marta Erkiert-Kusiak
- 3) Name Edyta Kramek
- 4) Name Sylwia Jastrzębska
- 5) Name Jan Rogowski

#### Nurses

- 1) Name \_\_\_\_\_
- 2) Name \_\_\_\_\_
- 3) Name \_\_\_\_\_

#### Laboratory Technicians

- 1) Name Bogusława Cyniak
- 2) Name \_\_\_\_\_
- 3) Name \_\_\_\_\_

#### Administrative Personnel

- 1) Name Anna Gościmska
- 2) Name \_\_\_\_\_
- 3) Name \_\_\_\_\_

Insert any additional staff below *(if required)*

For each staff category please specify changes (increased or decreased since last EAA site visit)

#### Physicians

Unchanged ☐

Increased ☐

Decreased ☒ X  
Prof. K. Kula retired

Please specify \_\_\_\_\_

#### Nurses

Unchanged ☐

Increased ☐

Decreased ☒ X  
Elżbieta Gajda retired

Please specify \_\_\_\_\_

#### Laboratory Technicians

Unchanged ☐

Increased ☐

Decreased ☒ X  
Teresa Porada retired

Please specify \_\_\_\_\_

#### Administrative Personnel

Unchanged ☒ X

Increased ☐

Decreased ☐

Please specify \_\_\_\_\_

Overall comment – is personnel staff enough for centre's activities?

Yes ☐

No ☒

Further comments:

Staffing depends on the number of teaching hours, which in turn depends on the rector's decision. Reproductive medicine and andrology are not the priority in the Medical University curriculum, so it is no chance of having more teaching hours and employing more persons in the Department.

#### 4. Clinical Activity

##### A. Outpatients: Consultations per year in the last 3 years

|              | 2016 | 2017 | 2018 |
|--------------|------|------|------|
| New patients | 449  | 430  | 286  |
| Controls     | 1283 | 1207 | 997  |

| Type of patients in the last years (%) | 2016 | 2017 | 2018 |
|----------------------------------------|------|------|------|
| Infertility                            | 50   | 46   | 45   |
| Erectile dysfunction                   | 24   | 30   | 30   |
| Hypogonadotropic Hypogonadism          | 2    | 1    | 2    |
| Klinefelter                            | 8    | 7    | 10   |
| Gynaecomastia                          | 2    | 2    | 3    |
| Varicocele                             | 11   | 11   | 8    |
| Cryptorchidism                         | 1    | 1    | 1    |
| Male sex accessory gland infections    | 1    | 1    | 0.3  |
| Testicular tumours                     | 0.2  | 0.2  | 0.2  |
| Disorders of gender identity           | 0.5  | 0.5  | 0.4  |
| Other                                  | 0.3  | 0.3  | 0.1  |

##### B. Ultrasound (testis, penile, prostate) – not applicable

|          | 2016 | 2017 | 2018 |
|----------|------|------|------|
| Total    |      |      |      |
| Controls |      |      |      |

##### C. Andrological surgery procedures – not applicable

|                     | 2016 | 2017 | 2018 |
|---------------------|------|------|------|
| Testicular biopsies |      |      |      |
| Varicocele ligation |      |      |      |
| Prostate biopsies   |      |      |      |
| BPH                 |      |      |      |
| Prostate cancer     |      |      |      |
| Vasectomy           |      |      |      |
| Vaso-vasostomy      |      |      |      |
| Other               |      |      |      |

**5. A. Andrology laboratory activity**

|                                           | 2016 | 2017 | 2018 |
|-------------------------------------------|------|------|------|
| Semen analyses                            | 485  | 476  | 266  |
| Sperm antibodies                          | -    | -    | -    |
| Seminal markers                           |      |      |      |
| -Biochemical (fructose, citric acid, NAG) | 100  | 115  | 90   |
| -HBA                                      | 185  | 90   | 20   |
| -Halo test                                | 185  | 90   | 20   |
| -oxido-reductive potential                | -    | 10   | 100  |

Comments:

Seminal markers are performed only for scientific purposes.

**5. B. Andrology laboratory activity**

Sperm banking donors Yes ☐ No ☒

Sperm banking cancer patients Yes ☐ No ☒

**5. C. Histopathological evaluation of biopsies** Yes ☒ No ☐

| <b>If yes:</b>    |      |      |      |
|-------------------|------|------|------|
|                   | 2016 | 2017 | 2018 |
| Number of samples | 48   | 54   | 34   |

Comments:

Histopathological evaluation of biopsies (with immunohistochemistry for germ cell neoplasia in situ) is not performed routinely, but only as consultations or for scientific purposes.

**5. D. Reproductive Hormones Assays** Yes ☐ No ☒

**5. E. Y chromosome microdeletions according to EAA/EMQN guidelines** Yes ☐ No ☒

**If yes** number of tests in the past year \_\_\_\_\_

Participation to the EAA quality control scheme? Yes ☐ No ☐

**If no**, specify if available in another lab of the same hospital Yes ☐ No ☐

Blood karyotyping Yes ☐ No ☐

**If no**, specify if available in another lab of the same hospital Yes ☐ No ☐

Other genetic tests (please specify)

**6. Collaborations with other Clinical Units of the University/Hospital**

Yes ☒ No ☐

If yes, please specify:

|                             |                                         |                             |
|-----------------------------|-----------------------------------------|-----------------------------|
| Urology Clinic              | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Endocrine Clinic            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Genetics Lab/Unit           | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Pediatric Unit              | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Central Hospital Laboratory | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Pathology Unit              | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Private Centres             | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |

**If yes** please specify:

All clinical units of the Medical University or the University Hospital are sponsored by the National Health Service. IVF is performed only in private centers.

## 7. Clinical teaching activity

Duration of training (years):

|                                                                                | Number |
|--------------------------------------------------------------------------------|--------|
| A: Trainees for EAA exam in the last 5 yrs                                     | 11     |
| B: Trainees who passed EAA-ESAU exam for Clinical Andrologist in the last 5yrs | 10     |
| C: Trainees working in the centre preparing to pass the EAA-ESAU examination   | 0      |
| D: Ph D Students                                                               | 0      |
| E: Medical Students                                                            | 0      |
| F: Other students                                                              | 0      |

## 8. Formal Andrology teaching program

Yes ☒

No ☐

**If yes:** specify duration

|                                                                                                                       | Hours of formal teaching/ year | Professional training (weeks/months) |
|-----------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------------|
| Medical Students                                                                                                      | 21 h/ student                  | 0                                    |
| PhD Students                                                                                                          | 15 h/ student                  | 0                                    |
| Post Graduate students:<br>- Medical doctors<br>- Laboratory diagnosticians                                           | 30 h/ student<br>10 h/ student | 0                                    |
| EAA Trainees                                                                                                          | 30 h/ student                  | 6 h/ week/ student (12 mo)           |
| Other degrees (please specify):<br>MSc in laboratory diagnostics (25 h/ student); BSc in biotechnology (5 h/ student) |                                |                                      |

## 9. Research Activity

Please list the main papers in peer review journals in the last 3 years with I.F. in a separate file.

**10. Research Funding**

Please specify the amount of available funds in the last 3 years and their source (Government, European Union, University, Local Government, Pharmaceutical Industries, Banks, Foundations....)

|                          |                                                                                             |
|--------------------------|---------------------------------------------------------------------------------------------|
| <b>Year</b>              | 2016                                                                                        |
| <b>Total amount (€)</b>  | 334 000 PLN – 79 500 €                                                                      |
| <b>Funding Source(s)</b> | National Center of Sciences, European Union (dsd-LIFE grant),<br>Medical University of Łódź |

|                          |                                                         |
|--------------------------|---------------------------------------------------------|
| <b>Year</b>              | 2017                                                    |
| <b>Total amount (€)</b>  | 148 800 PLN – 35 400 €                                  |
| <b>Funding Source(s)</b> | National Center of Sciences, Medical University of Łódź |

|                          |                            |
|--------------------------|----------------------------|
| <b>Year</b>              | 2018                       |
| <b>Total amount (€)</b>  | 51 099 PLN – 11 883 €      |
| <b>Funding Source(s)</b> | Medical University of Łódź |

*Insert any additional funding below if required*

**11.** Please report the main improvements of the Centre following the (last) EAA site visit

**Clinical Activity** - none

Decreased due to the reduction of physicians number.

**Laboratory Activity** - none

Decreased due to the reduction of scientists and technicians number.

**Research Activity** - stable

**Teaching** - stable

**12.** Overall considerations by the Centre Director

**A.** The centre:                      is growing ☐                      Is stable ☐                      has problems ☒

If 'has problems', please specify

The Department is located temporary in the Department of Genetics. The final location will be prepared probably during 2 years. The number of staff members has been decreased and at the moment it is not possible to increase it with the current rules of the University and University Hospital.

**13. Anticipated future changes in the Centre**

When we get the new location, it will be possible to conduct scientific research on a larger scale and increase the staff by employing researchers, technicians and nurses.

We plan to resume EAA trainees teaching, but for the time to a limited extent (1-2 doctors/year).

Date: November 09, 2019

Director's signature

*Prof dr hab med. Jolanta Słowikowska-Hilczer*

## Publications 2016-2019

### Original Papers

1. Marchlewska K, Bogołębska E, Walczak-Jędrzejowska R, Oszukowska E, Kula K, Słowikowska-Hilczer J. Ocena dojrzałości chromatyny plemników mężczyzn z niepłodnych par. *Post Androl Online* 2016; 3 (1), 6-13.
2. Eendebak RJ, Huhtaniemi IT, Pye SR, Ahern T, O'Neill TW, Bartfai G, Casanueva FF, Maggi M, Forti G, Alston RD, Giwercman A, Han TS, Kula K, Lean ME, Punab M, Pendleton N, Keevil BG, Vanderschueren D, Rutter MK, Tampubolon G, Goodacre R, Wu FC; EMAS Group (Łódź: Słowikowska-Hilczer J, Walczak-Jędrzejowska R). The androgen receptor gene CAG repeat in relation to 4-year changes in androgen-sensitive endpoints in <sup>75</sup>SEP community-dwelling older European men. *Eur J Endocrinol*. 2016; 175(6):583-593.
3. Laurent MR, Cook MJ, Gielen E, Ward KA, Antonio L, Adams JE, Decallonne B, Bartfai G, Casanueva FF, Forti G, Giwercman A, Huhtaniemi IT, Kula K, Lean MEJ, Lee DM, Pendleton N, Punab M, Claessens F, Wu FCW, Vanderschueren D, Pye SR, O'Neill TW; EMAS Group (Łódź: Słowikowska-Hilczer J, Walczak-Jędrzejowska R). Lower bone turnover and relative bone deficits in men with metabolic syndrome: a matter of insulin sensitivity? *The European Male Ageing Study*. *Osteoporos Int*. 2016; 27(11):3227-3237.
4. Ahern T, Swiecicka A, Eendebak RJ, Carter EL, Finn JD, Pye SR, O'Neill TW, Antonio L, Keevil B, Bartfai G, Casanueva FF, Forti G, Giwercman A, Han TS, Kula K, Lean ME, Pendleton N, Punab M, Rastrelli G, Rutter MK, Vanderschueren D, Huhtaniemi IT, Wu FC; EMAS study group (Łódź: Słowikowska-Hilczer J, Walczak-Jędrzejowska R). Natural history, risk factors and clinical features of primary hypogonadism in ageing men: Longitudinal Data from the European Male Ageing Study. *Clin Endocrinol (Oxf)*. 2016; 85(6):891-901.
5. Antonio L, Wu FC, O'Neill TW, Pye SR, Ahern TB, Laurent MR, Huhtaniemi IT, Lean ME, Keevil BG, Rastrelli G, Forti G, Bartfai G, Casanueva FF, Kula K, Punab M, Giwercman A, Claessens F, Decallonne B, Vanderschueren D; European Male Ageing Study Study Group (Łódź: Słowikowska-Hilczer J, Walczak-Jędrzejowska R). Low Free Testosterone Is Associated with Hypogonadal Signs and Symptoms in Men with Normal Total Testosterone. *J Clin Endocrinol Metab*. 2016; 101(7):2647-2657.
6. McCabe PS, Pye SR, Beth JM, Lee DM, Tajar A, Bartfai G, Boonen S, Bouillon R, Casanueva F, Finn JD, Forti G, Giwercman A, Huhtaniemi IT, Kula K, Pendleton N, Punab M, Vanderschueren D, Wu FC, O'Neill TW; EMAS Study Group (Łódź: Słowikowska-Hilczer J, Walczak-Jędrzejowska R). Low vitamin D and the risk of developing chronic widespread pain: results from the European male ageing study. *BMC Musculoskelet Disord*. 2016;17:32.
7. NCD Risk Factor Collaboration (NCD-RisC) (Kula K, Słowikowska-Hilczer J). Trends in adult body-mass index in 200 countries from 1975 to 2014: a pooled analysis of 1698 population-based measurement studies with 19.2 million participants. *Lancet*. 2016; 387(10026):1377-1396.
8. NCD Risk Factor Collaboration (NCD-RisC) (Kula K, Słowikowska-Hilczer J). Worldwide trends in diabetes since 1980: a pooled analysis of 751 population-based studies with 4.4 million participants. *Lancet*. 2016; 387(10027):1513-1530.
9. NCD Risk Factor Collaboration (NCD-RisC) (Kula K, Słowikowska-Hilczer J). A century of trends in adult human height. *Elife*. 2016; 5.
10. Marchlewska K, Filipiak E, Walczak-Jędrzejowska R, Oszukowska E, Sobkiewicz S, Wojt M, Chmiel J, Kula K, Słowikowska-Hilczer J. Sperm DNA Fragmentation Index and Hyaluronan Binding Ability in Men from Infertile Couples and Men with Testicular Germ Cell Tumor. *Biomed Res Int*. 2016; 2016:7893961.
11. Röhle R, Gehrmann K, Szarras-Czapnik M, Claahsen-van der Grinten H, Pienkowski C, Bouvattier C, Cohen-Kettenis P, Nordenström A, Thyen U, Köhler B; dsd-LIFE group (Słowikowska-Hilczer J, Lodz). Participation of adults with disorders/differences of sex development (DSD) in the clinical study dsd-LIFE: design, methodology, recruitment, data quality and study population. *BMC Endocr Disord*. 2017 Aug 18;17(1):52. doi: 10.1186/s12902-017-0198-y.
12. Słowikowska-Hilczer J, Hirschberg AL, Claahsen-van der Grinten H, Reisch N, Bouvattier C, Thyen U, Cohen Kettenis P, Roehle R, Köhler B, Nordenström A; dsd-LIFE Group. Fertility outcome and

- information on fertility issues in individuals with different forms of disorders of sex development: findings from the dsd-LIFE study. *Fertil Steril*. 2017 Sep 15. pii: S0015-0282(17)31708-9. doi: 10.1016/j.fertnstert.2017.08.013.
13. Swiecicka A, Lunt M, Ahern T, O'Neill TW, Bartfai G, Casanueva FF, Forti G, Giwercman A, Han TS, Lean MEJ, Pendleton N, Punab M, Slowikowska-Hilczer J, Vanderschueren D, Huhtaniemi IT, Wu FCW, Rutter MK; EMAS Study Group (Walczak-Jedrzejowska R, Lodz). Nonandrogenic Anabolic Hormones Predict Risk of Frailty: European Male Ageing Study Prospective Data. *J Clin Endocrinol Metab*. 2017 Aug 1;102(8):2798-2806. doi: 10.1210/jc.2017-00090.
  14. Overman MJ, Pendleton N, O'Neill TW, Bartfai G, Casanueva FF, Forti G, Rastrelli G, Giwercman A, Han TS, Huhtaniemi IT, Kula K, Lean MEJ, Punab M, Lee DM, Correa ES, Ahern T, Laurent MR, Verschueren SMP, Antonio L, Gielen E, Rutter MK, Vanderschueren D, Wu FCW, Tournoy J; EMAS study group (Slowikowska-Hilczer J, Walczak-Jedrzejowska R, Lodz). Glycemia but not the Metabolic Syndrome is Associated with Cognitive Decline: Findings from the European Male Ageing Study. *Am J Geriatr Psychiatry*. 2017 Jun;25(6):662-671. doi: 10.1016/j.jagp.2017.02.004.
  15. NCD Risk Factor Collaboration (NCD-RisC) (Kula K, Slowikowska-Hilczer J) Worldwide trends in blood pressure from 1975 to 2015: a pooled analysis of 1479 population-based measurement studies with 19.1 million participants. NCD Risk Factor Collaboration (NCD-RisC). *Lancet*. 2017 Jan 7;389(10064):37-55. doi: 10.1016/S0140-6736(16)31919-5.
  16. NCD Risk Factor Collaboration (NCD-RisC) (Kula K, Slowikowska-Hilczer J) Worldwide trends in body-mass index, underweight, overweight, and obesity from 1975 to 2016: a pooled analysis of 2416 population-based measurement studies in 128.9 million children, adolescents, and adults. NCD Risk Factor Collaboration (NCD-RisC). *Lancet*. 2017 Oct 10. pii: S0140-6736(17)32129-3. doi: 10.1016/S0140-6736(17)32129-3.
  17. Han TS, Correa E, Lean ME, Lee DM, O'Neill TW, Bartfai G, Forti G, Giwercman A, Kula K, Pendleton N, Punab M, Rutter MK, Vanderschueren D, Huhtaniemi IT, Wu FC, Casanueva FF; and the EMAS Study Group (Slowikowska-Hilczer J, Walczak-Jedrzejowska R, Lodz). Changes in prevalence of obesity and high waist circumference over four years across European regions: the European male ageing study (EMAS). *Endocrine*. 2017 Feb;55(2):456-469. doi: 10.1007/s12020-016-1135-y.
  18. Nordenström A, Röhle R, Thyen U, Bouvattier C, Slowikowska-Hilczer J, Reisch N, Claahsen van der Grinten H, Brac de la Perriere A, Cohen-Kettenis PT, Köhler B; dsd-LIFE group. Hormone therapy and patients satisfaction with treatment, in a large cohort of diverse disorders of sex development (DSD). *Clin Endocrinol (Oxf)*. 2017 Nov 17. doi: 10.1111/cen.13518.
  19. Eendebak RJAH, Ahern T, Swiecicka A, Pye SR, O'Neill TW, Gyorgy B, Casanueva FF, Maggi M, Forti G, Giwercman A, Han TS, Slowikowska-Hilczer J, Lean MEJ, Punab M, Pendleton N, Keevil BG, Vanderschueren D, Rutter MK, Tampubolon G, Goodacre R, Huhtaniemi IT, Wu FCW; EMAS Group (Walczak-Jedrzejowska R, Lodz). Elevated Luteinising Hormone despite Normal Testosterone Levels in older Men - Natural History, Risk Factors, and Clinical Features. *Clin Endocrinol (Oxf)*. 2017 Nov 27. doi: 10.1111/cen.13524.
  20. Swiecicka A, Eendebak RJAH, Lunt M, O'Neill TW, Bartfai G, Casanueva FF, Forti G, Giwercman A, Han TS, Slowikowska-Hilczer J, Lean MEJ, Pendleton N, Punab M, Vanderschueren D, Huhtaniemi IT, Wu FCW, Rutter MK; EMAS study group (Walczak-Jedrzejowska R, Lodz). Reproductive hormone levels predict changes in frailty status in community-dwelling older men: European Male Ageing Study prospective data. *J Clin Endocrinol Metab*. 2017 Nov 24. doi: 10.1210/jc.2017-01172.
  21. Engels M, Gehrmann K, Falhammar H, Webb EA, Nordenström A, Sweep FC, Span PN, van Herwaarden AE, Rohayem J, Richter-Unruh A, Bouvattier C, Köhler B, Kortmann BB, Arlt W, Roelleveld N, Reisch N, Stikkelbroeck NMML, Claahsen-van der Grinten HL; dsd-LIFE group (Slowikowska-Hilczer, Lodz). Gonadal function in adult male patients with congenital adrenal hyperplasia. *Eur J Endocrinol*. 2018; 178(3):285-294.
  22. Falhammar H, Claahsen-van der Grinten H, Reisch N, Slowikowska-Hilczer J, Nordenström A, Roehle R, Bouvattier C, Kreukels BPC, Köhler B; dsd-LIFE group. Health status in 1040 adults with disorders of sex development (DSD): a European multicenter study. *Endocr Connect*. 2018; 7(3):466-478.
  23. Kreukels BPC, Köhler B, Nordenström A, Roehle R, Thyen U, Bouvattier C, de Vries ALC, Cohen-Kettenis PT; dsd-LIFE group. Gender Dysphoria and Gender Change in Disorders of Sex Development/Intersex Conditions: Results From the dsd-LIFE Study (Slowikowska-Hilczer, Lodz). *J Sex Med*. 2018. pii: S1743-6095(18)30143-7. doi: 10.1016/j.jsxm.2018.02.021.

24. NCD Risk Factor Collaboration (NCD-RisC) (Slowikowska-Hilczer, Lodz). Contributions of mean and shape of blood pressure distribution to worldwide trends and variations in raised blood pressure: a pooled analysis of 1018 population-based measurement studies with 88.6 million participants. *Int J Epidemiol*. 2018 Mar 19. doi: 10.1093/ije/dyy016.
25. Rapp M, Mueller-Godeffroy E, Lee P, Roehle R, Kreukels BPC, Köhler B, Nordenström A, Bouvattier C, Thyen U; dsd-LIFE group (Slowikowska-Hilczer, Lodz). Multicentre cross-sectional clinical evaluation study about quality of life in adults with disorders/differences of sex development (DSD) compared to country specific reference populations (dsd-LIFE). *Health Qual Life Outcomes*. 2018; 16(1):54.
26. Ilaslan E, Calvel P, Nowak D, Szarras-Czapnik M, Slowikowska-Hilczer J, Spik A, Sararols P, Nef S, Jaruzelska J, Kusz-Zamelczyk K. A Case of Two Sisters Suffering from 46,XY Gonadal Dysgenesis and Carrying a Mutation of a Novel Candidate Sex-Determining Gene STARD8 on the X Chromosome. *Sex Dev*. 2018;12(4):191-195.
27. Niedzielski J, Kucharski P, Slowikowska-Hilczer J. The volume of unilaterally undescended testis after hCG therapy compared to orchidopexy and combined methods. *Andrology*. 2018 Sep;6(5):742-747.
28. Rastrelli G, O'Neill TW, Ahern T, Bártfai G, Casanueva FF, Forti G, Keevil B, Giwercman A, Han TS, Slowikowska-Hilczer J, Lean MEJ, Pendleton N, Punab M, Antonio L, Tournoy J, Vanderschueren D, Maggi M, Huhtaniemi IT, Wu FCW; EMAS study group. Symptomatic androgen deficiency develops only when both total and free testosterone decline in obese men who may have incident biochemical secondary hypogonadism: Prospective results from the EMAS. *Clin Endocrinol (Oxf)*. 2018 Oct;89(4):459-469.
29. Thyen U, Ittermann T, Flessa S, Muehlan H, Birnbaum W, Rapp M, Marshall L, Szarras-Capnik M, Bouvattier C, Kreukels BPC, Nordenstroem A, Roehle R, Koehler B; dsd-LIFE group (Slowikowska-Hilczer, Lodz). Quality of health care in adolescents and adults with disorders/differences of sex development (DSD) in six European countries (dsd-LIFE). *BMC Health Serv Res*. 2018 Jul 5;18(1):527.
30. NCD Risk Factor Collaboration (NCD-RisC) (Slowikowska-Hilczer, Lodz, Poland). National trends in total cholesterol obscure heterogeneous changes in HDL and non-HDL cholesterol and total-to-HDL cholesterol ratio: a pooled analysis of 458 population-based studies in Asian and Western countries. *Int J Epidemiol*. 2019 Jul 18. pii: dyz099. doi: 10.1093/ije/dyz099.
31. Kreukels BPC, Cohen-Kettenis PT, Roehle R, van de Grift TC, Slowikowska-Hilczer J, Claahsen-van der Grinten H, Lindén Hirschberg A, de Vries ALC, Reisch N, Bouvattier C, Nordenström A, Thyen U, Köhler B; dsd-LIFE group. Sexuality in adults with Differences/disorders of Sex Development (DSD): Findings from the dsd-LIFE study. *J Sex Marital Ther*. 2019 Jun 18:1-18.
32. Nygren U, Södersten M, Thyen U, Köhler B, Nordenskjöld A; dsd-LIFE Group. Voice dissatisfaction in individuals with a disorder of sex development. *Clin Endocrinol (Oxf)*. 2019 Apr; 91(1):219-227.
33. NCD Risk Factor Collaboration (NCD-RisC) (Slowikowska-Hilczer, Lodz, Poland). Rising rural body-mass index is the main driver of the global obesity epidemic in adults. *Nature*. 2019 May;569(7755):260-264.
34. Czubaszek M, Andraszek K, Banaszewska D, Walczak-Jędrzejowska R. The effect of the staining technique on morphological and morphometric parameters of boar sperm. *PLoS One*. 2019 Mar 25;14(3):e0214243.
35. Niedzielski J, Balinska K, Wilk D, Slowikowska-Hilczer J. The effect of the two-stage laparoscopic Fowler-Stevens operation on testicular growth and risk of atrophy in boys with intra-abdominal testes. *Arch Med Sci*, 2019 [Epub ahead of print]

## Review articles

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