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	X
University Hospital	X
Private Centre	

Other (please specify) _____

1. Director Prof. dr hab. med. Jolanta Slowikowska-Hilczer

2. Director (if more Institutions in the Centre) _____

3. Present Staff *(Senior Scientists)*

1) Name: Prof dr hab med. Jolanta Slowikowska-Hilczer MD, PhD
Degree: professor, scientist, academic teacher, physician
Speciality: (pediatrics, endocrinology, andrology)
Full time/part time: full time

Academician [X] Affiliated Member [ ] Clinical Andrologist [X]

2) Name: Dr hab med. Renata Walczak-Jedrzejowska MSc, PhD, DSc
Degree: 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 [X]

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 aplicable

	2016	2017	2018
Total			
Controls			

C. Andrological surgery procedures – not aplicable

	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 [X]

Sperm banking cancer patients Yes [ ] No [X]

5. C. Histopathological evaluation of biopsies Yes [X] No [ ]

If yes:			
	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 [X]

5. E. Y chromosome microdeletions according to EAA/EMQN guidelines Yes [ ] No [X]

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 [X] No [ ]

If yes, please specify:

Urology Clinic	Yes	X	No	
Endocrine Clinic	Yes	X	No	
Genetics Lab/Unit	Yes	X	No	
Pediatric Unit	Yes	X	No	
Central Hospital Laboratory	Yes	X	No	
Pathology Unit	Yes	X	No	
Private Centres	Yes	X	No	

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): 1

	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 X 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: - Medical doctors - Laboratory diagnosticians	 30 h/ student 10 h/ student	0
EAA Trainees	30 h/ student	6 h/ week/ student (12 mo)
Other degrees (please specify): 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….)

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

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

Year	2018
Total amount (€)	51 099 PLN – 11 883 €
Funding Source(s)	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 [X]

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 Slowikowska-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 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-Jedrzejowska 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 (Slowikowska-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.
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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, Roeleveld 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.
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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.
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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.
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2. Oszukowska E, Walczak-Jędrzejowska, Marchlewska K, Lipiński M, Różański W, Słowikowska-Hilczer J. Obstruction of the sperm pathways as a cause of male infertility. Postępy Andrologii Online 2016; 3(2):6-15.
3. Bajszczak K, Słowikowska-Hilczer J. Therapeutic problems in disorders of sex development. Pediatr Endocrinol Diabetes Metab. 2016; 22(1):26-31

4. Słowikowska-Hilczer J. Algorithm for the treatment of male infertility. Forum Położnictwa i Ginekologii, 2017; 35:12-18.
5. Cegłowska A, Słowikowska-Hilczer J. Azoospermia – causes, diagnostics, treatment. Postępy Andrologii Online 2017; 4 (1):1-12.
6. Marchlewska K, Walczak-Jędrzejowska R, Słowikowska-Hilczer J. Effect of thyroid hormones on the male gonad. Postępy Andrologii Online , 2018, 5 (1), 6–12.
7. Słowikowska-Hilczer J. Threats to male fertility from fetal period of life to sexual maturity. Fides et Ratio. Życie i Płodność. Towarzystwo Uniwersyteckie Fides et Ratio, 2018, 3 (35), 152-160.

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2. Kula K, Słowikowska-Hilczer J. Choroby jąder (Testicular diseases). W: Interna Szczeklika 2018, Gajewski P (red.), Medycyna Praktyczna, Kraków, 2018, str. 1426-1435
3. Kula K, Słowikowska-Hilczer J. Zaburzenia determinacji i różnicowania płci (Disorders of sex determination and development). W: Interna Szczeklika 2017, Gajewski P (red.), Medycyna Praktyczna, Kraków, 2018, eMPendium
4. Marchlewska K, Słowikowska-Hilczer J. Wpływ hormonów tarczycy na męski układ płciowy (Thyroid hormones effect on the male reproductive system). W: Choroby tarczycy a ciąża, Karbownik-Lewińska M. (red.), Termedia Wydawnictwa Medyczne, Poznań, 2018, str. 179-185.
5. Słowikowska-Hilczer J (red.), Jędrzejczak P, Marchlewska K, Walczak-jędrzejowska R, Rabijewski M, Oszukowska E, Chanduszko-Salska J, Pytasz U, Radko M, Wolski JK. Niepłodność męska. Kompendium wiedzy dla pacjentów (Male infertility. Compendium of knowledge for patients). Medimes, Kraków, 2018.
6. Słowikowska-Hilczer J, Marchlewska K, Walczak-Jędrzejowska R. Diagnostyka laboratoryjna męskiej niepłodności (Male infertility laboratory diagnostics). W: Diagnostyka laboratoryjna. Solnica B. (red.) PZWL, 2019, 165-181.