

**Name and address of Centre**

Andrology unit of the department of urology at Erasmus MC in  
Rotterdam, NL

**Type of Centre**

University   
 University Hospital   
 Private Centre

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

**1. Director** Dr. Gert Dohle, MD, PhD

**2. Director** (if more Institutions in the Centre) \_\_\_\_\_

**3. Present Staff (Senior Scientists)**

1) Name Dr. Willem Boellaard, MD  
 Degree Staff member  
 Speciality Andrologist EAA and sexologist  
 Academician  Affiliated Member  Clinical Andrologist

2) Name Dr. Marij Dinkelman-Smit, MD, PhD  
 Degree Staff member  
 Speciality Andrologist EAA  
 Academician  Affiliated Member  Clinical Andrologist

3) Name \_\_\_\_\_  
 Degree \_\_\_\_\_  
 Speciality \_\_\_\_\_  
 Academician  Affiliated Member  Clinical Andrologist

**Insert any additional staff below (if required)**

## MD/Biologists/Chemists

1) Name Godfried van der Heijden  
 Degree Clinical embryologist  
 Speciality Head of the andrology  
laboratorium  
 Full time/part time Full time  
 Academician  Affiliated Member  Clinical Andrologist

2) Name Hikke van Doornick  
 Degree Head of the IVF-laboratory  
 Speciality Clinical embryologist

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

Academician     Affiliated Member     Clinical Andrologist

3) Name \_\_\_\_\_  
 Degree \_\_\_\_\_  
 Speciality \_\_\_\_\_  
 Full time/part time \_\_\_\_\_

Academician     Affiliated Member     Clinical Andrologist

4) Name \_\_\_\_\_  
 Degree \_\_\_\_\_  
 Speciality \_\_\_\_\_  
 Full time/part time \_\_\_\_\_

Academician     Affiliated Member     Clinical Andrologist

**Insert any additional staff below (if required)**

**PhD Students**

1) Name Dr. Jocelyn van Brakel, MD  
 2) Name Dr. Lisette Elsinga, MD  
 3) Name \_\_\_\_\_

**Nurses**

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

**Laboratory Technicians**

1) Name Mrs. L. van Gastel  
 2) Name Ms. C. Heijmans  
 3) Name Ms. S. Waterval

**Administrative Personnel**

1) Name \_\_\_\_\_  
 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   
 Please specify \_\_\_\_\_    Please specify \_\_\_\_\_

**Nurses**

Unchanged     Increased     Decreased   
 Please specify \_\_\_\_\_    Please specify \_\_\_\_\_

**Laboratory Technicians**Unchanged Increased Decreased 

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

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

**Administrative Personnel**Unchanged Increased Decreased 

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

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

Overall comment – is personnel staff enough for centres activities?

Yes No 

Further comment \_\_\_\_\_

**4. Clinical Activity***A. Outpatients: Consultations per year in the last 3 years*

	2012	2013	2014
New patients	921	889	962
Controls	1790	1659	1588

<b>Type of patients in the last years (%)</b>	2012	2013	2014
Infertility	70%	70%	70%
Erectile dysfunction	15%	15%	15%
Hypogonadotropic Hypogonadism	2	1	2
Klinefelter	4	7	2
Gynaecomastia	0	0	0
Varicocele	15	12	14
Cryptorchidism	15	15	20
Male sex accessory gland infections	2	4	3
Testicular tumours	21	24	26
Disorders of gender identity	0	0	0
Other			

*B. Ultrasound (testis, penile, prostate)*

	2012	2013	2014
total	644	629	673
Controls			

*C. Andrological surgery procedures*

	2012	2013	2014
Testicular biopsies/TESE	87	143	151
Varicocele ligation	52	26	32
Prostate biopsies (urology dept)	-	-	-
BPH (urology dept)	-	-	-
Prostate cancer (urology dept)	-	-	-

Vasectomy urol dept	-	-	-
Vaso-vasostomy	30	32	40
Vaso-epididymostomy	7	13	24
Testicular tumours	62	58	52
Penile curvature correction	43	35	33

**5. A. Andrology laboratory activity**

	2012	2013	2014
Semen analyses	1449	1439	1179
Sperm antibodies	15%	15%	15%
Seminal markers	261	230	198

**5. B. Andrology laboratory activity**

Sperm banking donors Yes  No

Sperm banking cancer patients Yes  No

**If yes:**

	2012	2013	2014
Number of samples	145	162	210

**5. C. Hystopathological evaluation of biopsies** Yes  No

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

If yes please specify type of assays and number of samples in the last year

All TESE procedures include histology and testing for Carcinoma in situ of the testis

All male infertility cases will have reproductive hormones determined

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

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**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)

CFTR gen mutation screening in men with CBAVD

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

**IVF Unit** Yes  No

**If yes** please specify: Children, Endocrinology, IVF, Urology, Genetics, Pathology

We are part of a reproductive center within Erasmus MC

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"/>
Paediatric Unit	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Central Hospital Laboratory	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Private Centres	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

**If yes** please specify:

**7. Clinical teaching activity**

Duration of training (years):

	Number
A: Trainees in the last five years	3
B: Trainees who passed EAA-ESAU\exam for Clinical Andrologist in the last 5yrs	3
C: Trainees working in the centre preparing to pass the EAA-ESAU examination	0
D: Ph D Students	2
E: Medical Students	2
F: Other students	1

**8. Formal Andrology teaching program**

Yes  No

**If yes:** specify duration (years/months): Years  Months

	Hours of formal teaching per year	Professional training (weeks/months)
Medical Students	6	3
Ph D Students	40	40
Post Graduate students	10	3 months
Trainees		
Other degrees (please specify)		

**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	2012
Total amount (€)	20.000,-
Funding Source(s)	Government

Year 2013  
 Total amount (€) 35.000,-  
 Funding Source(s) Hospital funding

Year 2014  
 Total amount (€) 60.000,-  
 Funding Source(s) Pathology project

***Insert any additional funding below if required***

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

**Clinical Activity**

Increase in: TESE procedures, testicular tumours, fertility preservation in cancer patients.  
 Fully integrated in the Reproductice center of Erasmus MC

**Laboratory Activity**

Development of screening tools for carcinoma in situ cells in semen.  
 Development of seminal predictive test/marker for the presence of germ cells in men with azoospermia

**Research Activity**

Testicular development disorders: genetic background of testicular development, cryptorchidism and fertility, genetic background of meiotic arrest

**Teaching**

Not changed in the last 5 years (medical students, PhD programs, Residents in training for urology and gynaecology, laboratory quality system, external visitors)

12. Overall considerations by the Centre Director

A. The centre is growing  Is stable  Has problems

If 'has problems', please specify \_\_\_\_\_

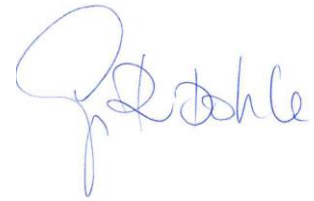
B. Other Comments by the Centre Director

Currently, there are no new funds for a PhD project.

13. Anticipated future changes in the Centre

Date 26 June 2015

Director's signature



## Publications 2012-2014

### 2012

#### Publications:

##### International scientific(is)

1. Dohle GR, Diemer T, Kopa Z, Krausz C, Giwercman A, Jungwirth A; European Association of Urology Working Group on Male Infertility. European Association of Urology guidelines on vasectomy. *Eur Urol.* 2012;61(1):159-63.
2. Dohle GR, Elzanaty S, van Casteren NJ. Testicular biopsy: clinical practice and interpretation. *Asian J Androl.* 2012;14(1):88-93.
3. van Brakel J, Dohle GR, de Muinck Keizer-Schrama SM, Hazebroek FW. Different surgical findings in congenital and acquired undescended testes. *BJU Int.* 2012 110:387-91.
4. Elzanaty S, Dohle GR. Vasovasostomy and predictors of vasal patency: a systematic review. *Scand J Urol Nephrol.* 2012;46(4):241-6.
5. Dohle GR, Diemer T, Kopa Z, Krausz C, Giwercman A, Jungwirth A; Grupo de Trabajo de la Asociación Europea de Urología sobre la Infertilidad Masculina. [European Association of Urology guidelines on vasectomy]. *Actas Urol Esp.* 2012;36(5):276-81.
6. Jungwirth A, Giwercman A, Tournaye H, Diemer T, Kopa Z, Dohle G, Krausz C; European Association of Urology Working Group on Male Infertility. European Association of Urology guidelines on Male Infertility: the 2012 update. *Eur Urol.* 2012;62(2):324-32.
7. Hammiche F, Laven JS, Twigt JM, Boellaard WP, Steegers EA, Steegers-Theunissen RP. Body mass index and central adiposity are associated with sperm quality in men of subfertile couples. *Hum Reprod.* 2012;27(8):2365-72.

#### Editorial:

Commentaar op het artikel: Behandeling van urethrastricturen door urologen in Nederland; wie doet wat? Van M.A. van Leeuwen e.a., *Ned. Tijdschrift voor Urologie* 2012;2: 115-116.

### 2013

**PhD Thesis:** Y.D. Dubbelman; functional outcome of radical retropubic prostatectomy.

(Co)promotor(s): Bangma, Prof. Dr. C.H., Dohle, Dr. GR.

PhD thesis EUR (intern gepromoveerd, intern voorbereid); 11-01-2013

aantal bladz. 193

### **(International) scientific publications 2013**

1. Smit M., Romijn J.C., Wildhagen M.F., Veldhoven J.L.M., Weber R.F.A., Dohle G.R. Decreased sperm DNA fragmentation after surgical varicocelectomy is associated with increased pregnancy rate. *Journal of Urology* 2013;189:146-150

2. van Brakel J., Kranse R., de Muinck Keizer-Schrama S.M., Hendriks A.E., de Jong F.H., Bangma C.H., Hazebroek F.W., Dohle G.R. Fertility potential in men with a history of congenital undescended testes: a long-term follow-up study. *Andrology* 2013; 1:100-108

#### **Editorial:**

Dohle G.R., Glassberg K.I. How common are varicoceles? New data on the prevalence in adolescence and new discussions. *Andrology* 2013;1:661-662

#### **Book contribution**

Dohle GR. Mannelijke infertiliteit. In: Bangma C.H. (Eds) leerboek urologie 2013;111-123 Bohn Stafleu van Loghum. ISBN 9789031398089

#### **Guidelines;**

**G.R. Dohle (chairman)**, S. Arver, C. Bettocchi, S. Kliesch, M. Punab, W. de Ronde. EAU guideline on male hypogonadism. ISBN 978-90-79754-71-7

A. Jungwirth, T. Diemer, **G.R. Dohle**, A. Giwercman, Z. Kopa, C. Krausz, H. Tournaye. EAU guideline on male infertility. ISBN 978-90-79754-71-7

### **2014**

#### **(International) scientific publications 2014**

1. Tournaye H, Dohle GR, Barratt CL. Fertility preservation in men with cancer. *Lancet*. 2014 4;384(9950):1295-301.

2. Van Brakel J., Kranse R., De Muinck Keizer-Schrama S.M.P.F., Hendriks A.E.J., De Jong F.H., Hack W.W.M., Van Der Voort-Doedens L.M., Bangma C.H., Hazebroek F.W., Dohle G.R. Fertility potential in a cohort of 65 men with previously acquired undescended testes. *Journal of Pediatric Surgery* 2014 49:4 (599-605)

3. Dwarkasing R.S., Verschuuren S.I., Leenders G.J.L.H., Thomeer M.G.J., Dohle G.R., Krestin G.P. Chronic lower urinary tract symptoms in women: Classification of abnormalities and value of dedicated MRI for diagnosis. *American Journal of Roentgenology* 2014 202:1 (W59-W66)



4. Adank MC, van Dorp W, Smit M, van Casteren NJ, Laven JS, Pieters R, van den Heuvel-Eibrink MM. Electroejaculation as a method of fertility preservation in boys diagnosed with cancer: a single-center experience and review of the literature. *Fertil Steril*. 2014;102(1):199-205

### **Congress proceedings**

1. Huijgen N.A., Goijen H.J., Twigt J.M., Mulders A.M., Lindemans J., Dohle G.R., Laven J.S., Steegers-Theunissen R.P. The impact of medication used for acid-related gastrointestinal symptoms on semen quality in subfertile couples. *Reproductive Sciences* 2014 21:3 SUPPL. 1 (127A)
2. W. Boellaard, L. Looijenga, G. Dohle. Risk of testicular carcinoma in situ in a cohort of 204 patients with non-obstructive azoospermia. *Andrology* 2014;2:89
3. W. Boellaard, P. Soekhan, M. van Lingen, H. Stoop, A. Gilles, W. Oosterhuis, L. Looijenga. VASA mRNA detection in contrast to immunohistochemistry with a poly- and monoclonal antibody is specific for germ cells in the male urogenital tract. *Andrology* 2014;2:60
4. G. Dohle. Late consequences of childhood and adolescence cancer treatment. *Andrology* 2014;27
5. G. Dohle. Testosterone replacement therapy and prostate cancer: Larger studies needed to show whether testosterone therapy does not lead to a higher PCa risk. *European Urology Today* April 2014

### **Editorial:**

Dohle GR Re: Long-term testosterone therapy in hypogonadal men ameliorates elements of the metabolic syndrome: An observational, long-term registry study. *European Urology* 2014 66:5 (965-966)

### **Dutch articles:**

1. G.R. Dohle. Lichen sclerosus et Atrophicans: samenvatting van de nieuwe multidisciplinaire richtlijn. *Tijdschrift voor urologie/De Urograaf*. 2014;6 (oktober) 2-3

### **Book contribution**

1. G. Dohle. Delft en de gouden eeuw van de andrologie. In: *Canon van de Urologie*. Isbn: 978-94-90826-34-5
2. G. Dohle. Varicocele in historisch perspectief. In: *Canon van de Urologie*. Isbn: 978-94-90826-34-5

### **Guidelines**

1. G.R. Dohle (chairman), S. Arver, C. Bettocchi, S. Kliesch, M. Punab, W. de Ronde. EAU guideline on male hypogonadism. ISBN 978-90-79754-71-7
2. A. Jungwirth, T. Diemer, G.R. Dohle, A. Giwercman, Z. Kopa, C. Krausz, H. Tournaye. EAU guideline on male infertility:2014 update. ISBN 978-90-79754-71-7