Get To Know Our Center
The American Center for Reproductive Medicine is a research program of the Glickman Urological and Kidney Institute of the Cleveland Clinic. Established in 1993, the Center is dedicated to cutting-edge, disease-oriented translational research and to the education of physicians and scientists. Our Center is rated as a leading center of excellence at the world-class Cleveland Clinic and the Department of Urology reigns in its ranking as either No. 1 or 2 Urology program in the nation by U.S. News & World Report.

The American Center for Reproductive Medicine enjoys an international reputation for excellence and innovation in human reproduction and male infertility research and is dedicated to disseminating its results. Research papers from the Center’s staff are selected regularly for publication in distinguished medical journals. The Center’s website has been ranked No. 1 for research in reproductive medicine and andrology since 2001 by Google and other top search engines, attracting close to 974,877 visitors to date. Dr. Agarwal’s research group has produced the largest number of peer-reviewed, high-impact male infertility/andrology research articles in the world.

Over the past 24 years, more than 1,000 physicians, scientists, biologists and medical/pre-med students from over 50 countries worldwide have received their research and ART training at the American Center for Reproductive Medicine.


History, Mission and Vision
The American Center for Reproductive Medicine was founded in 1993 as the research program of the Glickman Urological & Kidney Institute, Cleveland Clinic. Our research fellowship, ART training and summer mentorship opportunities represent one of the largest and most comprehensive academic programs of its kind in the United States.

Conduct cutting-edge research into the causes of human reproductive and sexual disorders, leading to the development of new treatments and cures, as well as training of physicians and scientists to advance the understanding of human reproduction, infertility and sexual function.

Mentor and train each research fellow, trainee and summer intern using an individualized approach, to develop technical expertise and the ability to work independently.

Meet the Director
Ashok Agarwal, PhD, HCLD (ABB), EMB (ACE) | Professor and Director

Ashok Agarwal is the Director of Research at the American Center for Reproductive Medicine and the Director of the Andrology Center. He holds these positions at Cleveland Clinic, where he is a Professor at the Lerner College of Medicine of Case Western Reserve University and, since 1993, Senior Staff in the Glickman Urological and Kidney Institute. Dr. Agarwal did his post-doctorate training in Reproductive Biology under a fellowship from The Rockefeller Foundation at Harvard Medical School in Boston, Massachusetts. He was an Instructor in Surgery and then an Assistant Professor of Urology at Harvard Medical School from 1988 to 1992. Dr. Agarwal was appointed in 1993 by the Cleveland Clinic Foundation, Ohio, as the Head of the Clinical Andrology Center, which over the years under his leadership, has become a center of excellence for the diagnosis of male infertility and fertility preservation of men with oncological conditions in the United States. He is board certified as a Clinical Laboratory Director in Andrology by the American Board of Bioanalysis and serves as an Inspector for the College of American Pathologists’ “Reproductive Laboratory Program” for accreditation of Andrology & IVF Laboratories.

Dr. Agarwal’s h-index is 103 (Google Scholar) and 72 Web of Science and 79 on Scopus respectively, while his citation count is nearly 40,057 on Google Scholar as of Oct’ 2016. His RG score is 52.47 on 1,727 publications (750 articles, 30 books, 150 chapters and 750 conference papers). Dr. Agarwal is ranked as the #1 Author in Andrology/Male Infertility and ART-related research, based on a Global Ranking of Authors in Andrology or Male Infertility report employing exhaustive searches of the Scopus database. Dr. Agarwal received the 2011 and 2012 Innovator Award for the development of “Remote Sperm Banking Kits” from the Cleveland Clinic Innovations. He was thrice-awarded the Scholarship in Teaching Award in 2011, 2013 and 2014 by the Case Western Reserve University Medical School in recognition of his innovative Summer Internship Course in Reproductive Medicine, which has been held annually since 2008. Dr. Agarwal was recognized by a second Scholarship in Teaching Award in 2013 and 2014 for his distinctive Hands on Training Program in Advanced Reproductive Techniques, which has been conducted yearly since 2003. Dr. Agarwal’s current research interests are identifying biological markers of oxidative stress, DNA damage and apoptosis using proteomic research tools and bioinformatics analysis as well as preserving fertility in patients with cancer. He is actively involved in laboratory and clinical studies assessing the efficacy of certain antioxidants in improving the fertility of male patients.

Research Fellows
Research Fellowship in Human Reproduction and Male Infertility

Our Research Fellowship and training opportunities represent one of the most active, state-of-the-art and comprehensive programs in human reproduction and infertility in the United States.

Our Fellows gain priceless research experience under the strong mentorship of world-renowned experts in reproductive medicine and biology at our Center in the Cleveland Clinic.

For more information, please contact:
American Center for Reproductive Medicine and the Andrology Center
Cleveland Clinic, X-11
10681 Carnegie Avenue
Cleveland OH 44195, United States
Tel: +1.216.444.9485
Toll-Free: 1.800.CCF.CARE (ext. 4-9485)
Fax: +1.216.445.6049
Email: CRM@CCF.ORG
http://www.ClevelandClinic.org/ReproductiveResearchCenter
Research Fellowship in Human Reproduction and Male Infertility

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Our Mission

Our unique and methodical mentorship approach develops the researchers into independent and dynamic scientists of the highest caliber.

Who We Are

Ashok Agarwal, PhD
Professor, Lerner College of Medicine
Director, American Center for Reproductive Medicine
Director, Andrology Center Department of Urology
Cleveland Clinic

Rakesh Sharma, PhD
Associate Professor, Department of Urology
Research Coordinator
American Center for Reproductive Medicine
Cleveland Clinic

Sajal Gupta, MD
Assistant Professor, Department of Urology
Assistant Research Coordinator
American Center for Reproductive Medicine
Cleveland Clinic

Edmund Sabanegh, MD
Chairman, Department of Urology
Head, Section of Male Infertility
Professor, Lerner College of Medicine
Our Research Fellows will receive personalized mentoring by well-known experts in Reproductive Research. They will receive intensive hands-on training to master various basic and advanced research skills. Fellows will learn the basics of Good Laboratory Practices, how to conduct a thorough literature review/critical analysis of published research, and develop superior communication and presentation skills. They will also participate actively in cutting-edge reproductive research and develop a strong foundation in human reproduction, assisted reproduction, and infertility. Fellows will learn the process of developing a novel scientific research idea, the techniques of writing a scientific bench research proposal, and the art of writing high-quality scientific articles. They will learn to conduct a thorough literature review/critical analysis of published research, acquire the fundamentals of research involving human subjects, and master the basics of data management and biostatistical analysis.

Fellows will develop superior communication and presentation skills, participate actively in cutting-edge reproductive research, and develop a strong foundation in human reproduction, assisted reproduction, and infertility. They will learn the process of developing a novel scientific research idea, the techniques of writing a scientific bench research proposal, and the art of writing high-quality scientific articles.

Research & Training Methods
- Personal mentorship approach with daily supervision
- Practical demonstration and hands-on training in laboratory techniques
- Weekly research meetings for project planning and development
- On-site and online courses on various research procedures
- Training in literature review strategies and tools
- Training in writing of scientific articles for publication
- Lectures and presentations
- Journal Club and group discussions

Develop Valuable Research Skills
- Scientific integrity and accountability
- Professionalism and leadership
- Discipline and time management
- Motivation and self-direction
- Team work and collaboration
- Creativity and innovation
- Organization and methodical planning
- Effective interpersonal communication
- Critical thinking and judgement
- Problem solving and trouble shooting

During their Fellowship year at ACRM, our Research Fellows receive value-added opportunities to participate in and...
Research Collaborators

The American Center for Reproductive Medicine has collaborative relationships with many highly esteemed scientists and clinicians from over 18 countries around the world. Some of our renowned collaborators include:

AmERICAN CENTER FOR REPRODUCTIVE MEDICINE
Centrum Excellentiae Est. 1993

Collaborating Research Alumni

Muhammad Abu-Elmagd, PhD
Jeddah, Saudi Arabia

Mohamed Araf, MD, PhD
Doha, Qatar

Mourad Assidi, PhD
Jeddah, Saudi Arabia

Nabil Aziz, FRCOG, MD
Liverpool, United Kingdom

Ricardo Bertolla
Sao Paulo, Brazil

Chak Lam Cho
Hong Kong

Rima Dada, MD, PhD
New Delhi, India

Research Collaborators

Damayanthi Durairajanayagam, PhD
Kuala Lumpur, Malaysia

Haitham Elbardisi, MD
Doha, Qatar

Sandro Esteves, MD, PhD
Campinas, Brazil

Jaime Gosalvez, PhD
Madrid, Spain

Sezgin Gunes, PhD
Spokane, Washington

Avraham Harlev, MD
Beer Sheva, Israel

Nabil Aziz, FRCOG, MD
Liverpool, United Kingdom

Peter Nagy, MD, PhD
Atlanta, Georgia

Sijo Parekkattil, MD
Clermont, Florida

Sheryl Homa, PhD
London, United Kingdom

Dolores Lamb, PhD
Houston, Texas

Ahmad Majzoub, MD
Doha, Qatar

Walter Cardona Maya, PhD
Medellin, Colombia

Barbara Helm, PhD
Heidelberg, Germany

Ramadan Abdou Saleh, MD
Sohag, Egypt

Botros Rizk, MD, PhD
Mobile, Alabama

Ramadan Abdou Saleh, MD
Sohag, Egypt

Luna Samanta, PhD
Orissa, India

Reecha Sharma, MD, MS
Philadelphia, PA

Suresh C Sikka, PhD
New Orleans, Louisiana

Laura Siroth, PhD
Wooster, Ohio

Armand Zini, MD, FRCS(C)
Montreal, Canada

Nabil Aziz, FRCOG, MD
Liverpool, United Kingdom

Mourad Assidi, PhD
Jeddah, Saudi Arabia

Ahmet Ayaz, PhD
Istanbul, Turkey

Sezgin Gunes, PhD
Spokane, Washington

Ralf Henkel, MD
Belville, South Africa

To read more about our collaborators, please:
http://www.clevelandclinic.org/reproductiveResearchCenter/collab.html

Collaborating Research Alumni

Damayanthi Durairajanayagam, PhD
Kuala Lumpur, Malaysia

Cui Zihong, MD
Chongqing, China

Eva Tvrda, PhD
Nitra, Slovak Republic

Ahmet Ayaz, PhD
Istanbul, Turkey

Avraham Harlev, MD
Beer Sheva, Israel

Sezgin Gunes, PhD
Samson, Turkey

Luna Samanta, PhD
Orissa, India

Mourad Assidi, PhD
Jeddah, Saudi Arabia

Nabil Aziz, FRCOG, MD
Liverpool, United Kingdom

Ricardo Bertolla
Sao Paulo, Brazil

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Hong Kong

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Ramadan Abdou Saleh, MD
Sohag, Egypt

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Orissa, India

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Wooster, Ohio

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Montreal, Canada

To read more about our collaborators, please:
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Nitra, Slovak Republic

Ahmet Ayaz, PhD
Istanbul, Turkey

Avraham Harlev, MD
Beer Sheva, Israel

Sezgin Gunes, PhD
Samson, Turkey

Luna Samanta, PhD
Orissa, India
American Center for Reproductive Medicine

Research Alumni 1993 - 2016

Australia
Australia

Austria
Austria

Bahrain
Bahrain

Brazil
Brazil

Bulgaria
Bulgaria

Canada
Canada

China
China

Colombia
Colombia

Croatia
Croatia

Czech Republic
Czech Republic

Egypt
Egypt

Greece
Greece

Guyana
Guyana

Hong Kong
Hong Kong

India
India

Iran
Iran

Iraq
Iraq

Italy
Italy

Jamaica
Jamaica

Japan
Japan

Jordan
Jordan

Kazakhstan
Kazakhstan

Korea
Korea

Kosovo
Kosovo

Kuwait
Kuwait

Lebanon
Lebanon

Malaysia
Malaysia

Mexico
Mexico

Nigeria
Nigeria

Pakistan
Pakistan

Philippines
Philippines

Poland
Poland

Romania
Romania

Russia
Russia

Saudi Arabia
Saudi Arabia

Slovak Republic
Slovak Republic

South Africa
South Africa

Spain
Spain

Syria
Syria

Turkey
Turkey

UAE
UAE

USA
USA

Venezuela
Venezuela

Bijan Shekarriz
Sandro Esteves Yongjin Wang Jorge Hallak Benjamin Hendin Brijesh Patel Rajinder Sidhu

Jason Johnson Michael Keresztes Lakshmi Pandrangi Vicki Sekhon Meena Srivastava

Ky Vuong Kush Goyal Anurag Kedia Sumita Kedia Hiroshi Kobayashi

Eleonora Pasquolotto Fabio Pasqualotto Ajay Patel Christina Petrauskis Sumit Bapna Michael Falcone Kjersten Larson Ayman Mahran

Saba Khayal Crystal Thomas Amit Upadhyay Huang Yi Caresse Cortes Edgar Cruz

Sir Joaquim Jacobs Namita Kattal LaTasha Miller Javier Noriega Ivana Oborna Tamer Said

Carlumandarlo Zaramo Xiaoyan Zhang Rishi Agarwal Jashoman Banerjee Thomas Baumann Won-Jun Choi Marcello Cocuzza Amanda George

2005
2006
The American Center for Reproductive Medicine

The American Center for Reproductive Medicine (ACRM) is a part of the Glickman Urological and Kidney Institute of the Cleveland Clinic. The Department of Urology is ranked as the No. 2 Urology program in the nation by U.S. News & World Report. The American Center for Reproductive Medicine enjoys an international reputation for excellence and innovation in cutting edge research in human infertility. It is being ranked as #1 Research Program in the world due to the largest number of peer reviewed high quality publications, citations and international collaboration. Research papers from the Center staff are selected regularly for publication in distinguished medical journals. The Center’s website has been ranked No. 1 for research in reproductive medicine and andrology since 2001 by all top five international search engines, including Google, Bing, Yahoo! and Ask.com. It has attracted over 968,000 visitors from all over the world.

More than 1,000 physicians and scientists from more than 55 countries have received their training at the American Center for Reproductive Medicine during the past 24 years. Nearly 200 students in majors ranging from biology to English to the musical arts have participated in summer internships at our Center.

To learn more about our Summer Internship Course, including program faculty, internship syllabus, daily schedule, complete project listing, internship awards, pictures of interns’ presentations, reception banquet, multimedia feedback, and accommodation options, please visit our 2016 Summer Mentorship webpage.

Gain priceless research experience under the guidance of world-renowned experts in reproductive medicine, male fertility, and women’s health at the Cleveland Clinic.
The Cleveland Clinic’s American Center Center for Reproductive Medicine gives you a unique opportunity to:

- **Receive** mentoring by world-renowned faculty in medicine and health sciences
- **Participate** in meaningful, real-time bench research experience
- **Engage** in intensive training in scientific writing
- **Publish** research articles in prestigious medical journals
- **Listen** to captivating lectures delivered by a team of reputed scientists and physicians

### Faculty

#### Program Director

- **Ashok Agarwal, PhD**
  Professor, Lerner College of Medicine
  Director, American Center for Reproductive Medicine
  Director, Andrology Center
  Department of Urology
  Cleveland Clinic

#### Coordinators

- **Rakesh Sharma, PhD**
  Associate Professor, Department of Urology
  Research Coordinator, American Center for Reproductive Medicine
  Cleveland Clinic

- **Sajal Gupta, MD**
  Assistant Professor, Department of Urology
  Assistant Research Coordinator, American Center for Reproductive Medicine
  Cleveland Clinic

- **Sijo Parekattil, MD**
  Co-Director of Personalized Urology and Robotics Clinic
  South Lake Hospital and Orlando Health
  Clermont, Florida

#### Consultants

- **Botros Rizk, MD**
  Professor of Ob-Gyn
  Reprod Endocrin & Infertility
  University of South Alabama
  Mobile, Alabama
Program Goals and Benefits

The American Center for Reproductive Medicine at Cleveland Clinic offers a unique and exciting summer internship opportunity for highly motivated, academically oriented medical or undergraduate students interested in a career in medicine.

The center provides an excellent environment to conduct translational research in reproductive medicine. This unsurpassed experience gives participants the opportunity to:

- Immerses themselves in a state-of-art research environment
- Train in the art and science of conducting original bench research
- Be mentored by renowned researchers at a world-class medical institution
- Develop a strong foundation for pursuing a career in academic medicine

The program’s goal is to encourage students to consider a career in medicine, whether in reproductive medicine or any other specialty of their choosing. To this end, we have designed an exceptional summer internship program to provide students a wide range of experiences.

Additional Benefits of Internship

A unique aspect of this internship is the emphasis placed by the program on cultivating soft skills and imbibing professionalism in all participants. Skills honed during the internship include:

- leadership
- volunteerism
- time management
- effective communication
- public speaking and presentation skills

These skills and abilities are highly valued and have a prolonged impact on participants, especially as they pursue their goals and develop careers.

The intangible mix of skills nurtured during our internship sets our interns distinctly apart from their peers and empowers them to:

- be highly competitive in their interviews for medical school, residency or jobs
- perform better at public speaking opportunities
- be stronger candidates when being considered for work positions

Get to Know Our Internship Program

To view a List of Publications by our Interns resulting from their participation in the Internship course,

To read Recent Publications on our past Internship outcomes,
http://www.clevelandclinic.org/reproductiveresearchcenter/miscs/2008-2013.pdf and

To read Course Evaluations from our Interns,

To read Testimonials from our Interns, http://www.clevelandclinic.org/reproductiveresearchcenter/testimonials1.html.

To learn about the Awards received by our past Interns,
http://www.clevelandclinic.org/reproductiveresearchcenter/miscs/syl_5_Certificates_and_Awards_2016.pdf.

To read the Internship Curriculum and Syllabus,
http://www.clevelandclinic.org/reproductiveresearchcenter/miscs/syl_1_Course_Curriculum_2016.pdf and

To see the Internship Certificate and the Grading Report,
http://www.clevelandclinic.org/reproductiveresearchcenter/miscs/2016_Grading_Criteria.pdf and

To view the Photo Gallery of our Summer Internship program,
ART Trainees
Training program in Assisted Reproductive Technology (ART)

Started in 2003, we offer a unique opportunity to learn the latest techniques in this rapidly changing subspecialty at one of the world's premier ART centers:

- World-class faculty
- ART centers through: training facilities
- Personalized hands-on training
- Multiple comprehensive training modules
- Tremendous satisfaction rates
- Trained over 175 alumni from 32 countries since 2003

Certificate of Training awarded at the end of training

This intensive, 320-hour course is available exclusively to scientists and physicians with specific interest in gynecology, andrology or embryology as well as other health professionals such as embryologists, reproductive biologists and technologists.

The course covers:
- \textit{In vitro} fertilization (IVF)
- Intracytoplasmic sperm injection (ICSI)
- Gamete cryopreservation
- Routine and advanced tests in andrology

Learn from the Leaders

The American Center for Reproductive Medicine

Cleveland Clinic's American Center for Reproductive Medicine was established 24 years ago in 1993 with a three-fold mission:

- to conduct cutting-edge research into the causes of human reproductive pathologies,
- develop new fertility biomarkers and treatment modalities, and
- train physicians and scientists with a commitment to advancing the understanding of human reproduction, infertility, and fertility preservation.

Hands on Assisted Reproduction (IVF/ICSI) - Module 5A - 5C (160 hours)

Learn basic and advanced techniques in:

**IVF Techniques**
- Module 5A
  - ICSI: Intracytoplasmic sperm injection
  - Classical IVF
  - Oocyte handling and scoring
  - Embryo handling and scoring
  - Catheter loading for embryo transfer
- Module 5B
  - Preparation of ICSI dishes
  - ICSI: injection of the spermatozoon into the oocyte
  - Oocyte handling (using fresh mouse oocytes)

**Laboratory Training**
- Equipments
  - Micromanipulators: components and mechanics
  - Installing and aligning ICSI instruments
- Supplies & Culture Medium
  - Preparation of culture medium and dishes for IVF/IVF-ICSI cases
  - Embryo culture
  - Extended embryo culture

**Advanced ART Techniques**
- Assisted hatching (laser and chemical [acidified Tyrode's] method)
- Embryo biopsy (laser and chemical methods)

**Pre-Implantation Genetic Diagnosis**
- Blastomere biopsy
- Micromanipulator set-up
- Biopsy of mouse/hamster 8-cell stage embryos
- Use of laser and acid Tyrode’s solution for zona drilling
- Blastomere and polar body aspiration and fixation techniques
- Cell spreading
- Fixation techniques

**Cryopreservation**
- Embryo cryopreservation (mouse embryos)
- Vitrification

**Andrology**
- Sperm preparation for IVF/ICSI

**Virtual Tour of Facilities**

Module 5:

- Module 5A: IVF/ICSI/Micromanipulation (80 hours)
- Module 5B: ICSI/Micromanipulation (40 hours)
- Module 5C: Advanced ART Techniques (40 hours)
- Module 5D*: Customizable ART Training (40 - 320 hours)

*How Module 5D Works:*

1) Candidates select a) the techniques they wish to learn (Modules 1-8); and b) the duration of their training (1-8 weeks).
2) Candidates consult with the Course Director regarding their training needs and choices, and together, they will decide on the appropriate modules and duration required by the candidate
3) A personalized training schedule is created specifically for the candidate
4) Training is provided at a pace established by the candidate and is geared towards fulfilling the candidates personal needs.

Referral to a Human IVF Clinic may be available to select candidates looking for clinical observation in the following areas:

- Logistics of running an IVF Lab
- Observe IVF/ICSI procedures
- Oocyte retrieval
- Oocyte assessment
- Fertilization check
- Embryo assessment
- Intrauterine insemination
Training program in Assisted Reproductive Technology (ART)

We offer a unique opportunity to learn the latest techniques in this rapidly changing subspecialty at one of the world’s premier ART centers:

- World-class faculty
- State-of-the-art training facilities
- Personalized hands-on training
- Multiple comprehensive training modules
- Tremendous satisfaction rates
- Trained over 150 alumni from > 20 countries since 2003
- Certificate of Training awarded at the end of training

This intensive, 320-hour course is available exclusively to scientists and physicians with specific interest in gynecology, andrology or embryology as well as other health professionals such as embryologists, reproductive biologists and technologists.

- In vitro fertilization (IVF)
- Intracytoplasmic sperm injection (ICSI)
- Gamete cryopreservation
- Routine and advanced tests in andrology

Accreditation

Accredited for 320 AMA PRA Category 1 Credits™

Participants claiming CME credit from this activity may submit the credit hours to the American Osteopathic Association Council on Continuing Medical Education for Category 2 credit.

Accredited by the American College of Embryology

Training Faculty

Ashok Agarwal, PhD, HCLD
Director, Andrology Center
Director, Center for Reproductive Medicine
Professor, Lerner College of Medicine

Christina Anagnostopoulou, MS
Clinical Embryologist
IVF Clinic “Embryo ART”
Athens, Greece
Testimonial

Israel Maldonado Rosas, MSc
IVF Lab Director
IVF Clinic “Ingenes”
Mexico City, Mexico
Testimonial

Edmund Sabanegh, MD
Chairman, Department of Urology
Head, Section of Male Infertility
Professor, Lerner College of Medicine

Rakesh Sharma, PhD
Research Coordinator,
Center for Reproductive Medicine
Associate Professor, Lerner College of Medicine

Sajal Gupta, MS, MD, TS (ABB)
[MS in Clinical Embryology, Jones Institute]
Reproductive Specialist
Supervisor, Andrology Center
Assistant Professor, Lerner College of Medicine

Israel Maldonado Rosas, MSc
IVF Lab Director
IVF Clinic “Ingenes”
Mexico City, Mexico
Testimonial
Scholarship in Teaching Award
Training Program in Advanced Reproductive Techniques

The Case Western Reserve School of Medicine Scholarship in Teaching Awards is an annual program designed to recognize faculty contribution to education from the preceding year and promote undergraduate, graduate, and continuing medical education teaching as a scholarly activity.

Teaching approaches considered scholarly are characterized by 1) purposeful planning 2) systematic implementation and 3) reflection and assessment for improvement. The result should be an academic product that is actively shared and that will support the development of a community of teaching scholars.

This award was given out at the Case Medical School Education Retreat on March 12, 2015. CRM’s hands-on ART training program has previously been twice-recognized with this prestigious Scholarship in Teaching Award, in 2013 and again in 2014. Besides the ART Training Program, CRM’s Summer Internship program has also been thrice-recognized with this prestigious Scholarship in Teaching Award, in 2011, 2013 and 2014 respectively.

Trainee Evaluations:
Each Trainee is tested at the end of their training for:
1. **Knowledge:** Multiple choice questions on lab techniques linked to each course module
2. **Practical skills:** Tested on specific lab techniques taught during the training
3. **Verbal communication & comprehension skills:** PowerPoint talk on a topic linked to a course module

Registered Trainees Will Receive...
1. Course Syllabus with Reading Material and Lab Protocols
2. Free Access to the Cleveland Clinic Alumni Library
3. Free Text Book on "Practical Manual of In Vitro Fertilization: Advanced Methods and Novel Devices" edited by Dr. Peter Nagy et al, Springer (worth approx. $225.00)
6. Certificate of Training (issued upon successful assessment by the instructor)
7. Daily Meal Tickets

Note:
- Training is offered in a dedicated ART training suite inside a non-clinical research laboratory
- There is no patient contact

Training Methodology
1. Training provided by 2 certified, practicing Clinical Embryologists
2. Trainers include Andrologists, Reproductive Endocrinologists and other experts in ART
3. Fully hands-on, one-on-one laboratory training sessions under the direct guidance of Clinical Embryologists
   - Training is done using animal models (frozen hamster oocyte and mouse embryos) (Module 5)
4. Each training session is customized to the trainee’s
   - Professional background
   - Level of skill and competence
   - Specific training needs
   - Desired outcomes obtained from attending the ART training course
5. Interactive discussion and teaching sessions
6. Live lectures and multimedia presentations in small group sessions
7. Four state-of-the-art micromanipulators dedicated solely for training purposes (IVF/ICSI)

Scholarship in Teaching Award
Recognizing Faculty Educators
Presented to
Ashok Agarwal, PhD
Center for Reproductive Medicine
Cleveland Clinic

Training Program in Assisted Reproductive Techniques

for making a positive impact on medical education and the careers of students, and for being a part of the School of Medicine’s legacy of educational excellence.

March 12, 2015

Pamela Davis, M.D., Ph.D.
Vice President for Medical Affairs
Case Western Reserve University

SCHOOL OF MEDICINE
CASE WESTERN RESERVE UNIVERSITY
American Center for Reproductive Medicine
ART Trainees 2004 - 2016
Hands on Training in Assisted Reproductive Technology
Cleveland Clinic’s Glickman Urological and Kidney Institute is recognized worldwide for excellence in patient care, teaching and research. It merges Cleveland Clinic’s urology and nephrology programs. Urology and nephrology physicians and scientists at Cleveland Clinic are recognized worldwide for excellence in patient care, teaching and research. This year, U.S. News & World Report ranked our urology program No. 2 and our kidney disease program No. 2 in the nation.

Please visit us at: clevelandclinic.org/services/urology-kidney/about-urology-nephrology

About Cleveland Clinic

Cleveland Clinic is ranked as one of America’s Top 2 Hospitals by U.S. News & World Report. Located in Cleveland, Ohio, Cleveland Clinic is a nonprofit, multispecialty academic medical center that integrates clinical and hospital care with research and education. Founded in 1921 by four renowned physicians with a vision of providing outstanding patient care based upon the principles of cooperation, compassion and innovation, it is the second largest group practice in the world with 3,432 physicians and scientists practicing and researching in more than 130 medical specialties. Today with more than 1400 beds on the Cleveland Clinic main campus and 4,450 beds system-wide, Cleveland Clinic is one of the largest and most respected hospitals in the country.

In addition, the main hospital campus, located near downtown Cleveland, occupies 167 acres and 44 buildings. It includes a hospital, an outpatient clinic, a children's hospital, cancer institute, eye institute, research institute, a medical school and supporting labs and facilities. The Cleveland Clinic operates nine regional hospitals, a children's hospital, and 18 full-service family health centers in Ohio, as well as hospitals in Florida, Las Vegas, Canada, and Abu Dhabi, employing more than 49,000 individuals and providing global world class medical care. Last year alone, 6.62 million patients from 150 countries and all 50 states received their care at the Cleveland Clinic.

Our locations are linked by health information technology and critical care transport, getting patients to the right facility, at the right time, for the right care. Cleveland Clinic is organized into patient-centered institutes based on single diseases or organ systems. Each institute combines medical and surgical services at the same location under the same leadership to improve patient care and experience. Each institute is required to establish benchmarks and measure and improve quality. Institutes are also required to publish annual outcomes books showing volumes, results, innovations, publications and other information relevant to patients and referring physicians. Cleveland Clinic integrates its far-flung system with an extensive electronic medical records system. This system includes participating community physicians and patients, who are able to access test results and portions of their medical record remotely via the Internet. Cleveland Clinic’s model of medicine has made it possible for us to achieve cost savings on a vast scale over the past several years. Our mantra is “Patients First.” Our motto is “To Act as a Unit.” Our goal is to give every patient the best outcome and experience. That’s the Cleveland Clinic way.

Visit: clevelandclinic.org
The spermatozoa and oocyte represent the personalized, hands-on ART training course offered annually since 2003 and the opportunity to learn the latest techniques in the fast changing subspecialty of Assisted Reproduction at one of the world’s premier ART Training Centers. 175 candidates from more than 32 countries have participated in this course.

The DNA strand represents the essence of the research fellowship in human reproduction, andrology and male infertility, offered at the ACRM since 1993. More than 500 scientists/physicians from over 50 countries have trained at the ACRM. The Center is currently focusing on the use of proteomics and bioinformatics to elucidate biomarkers of male infertility.

The microscope and a hand holding the test tube represent the routine and advanced diagnostic testing offered to infertility patients at the Andrology Center and Reproductive Tissue Bank, one of the largest state-of-the-art facilities in the country. Our staff has more than 3 decades of experience in assisting patients with male infertility.

The open book and beaker represent the Summer Internship program, offered annually since 2008. Nearly 200 interns have experienced bench research and scientific writing under the personalized mentorship of scientists/physicians and reproductive biologists worldwide.
Cleveland is the second largest city in the state of Ohio, after Cincinnati. Located on the southern shores of Lake Erie, Cleveland lies at the outflow of the Cuyahoga River into Lake Erie. The main campus of Cleveland Clinic is situated 5 miles east of downtown Cleveland. Case Western Reserve University and University Hospitals are within one mile of Cleveland Clinic. Cleveland State University and John Carroll University are also within a short distance of the Cleveland Clinic main campus. Nearby the Cleveland Clinic is University Circle, which serves as the cultural, medical and education center of Cleveland and Northeast Ohio. Medical research in the University Circle institutions places Cleveland as one of the major medical research environments in the country.

University Circle is also the home to the Cleveland Museum of Art, the Cleveland Institute of Music, the Cleveland Institute of Art, and the Museum of Natural History. The Cleveland Museum of Art houses one of the country’s most highly acclaimed art collections. The world-famous Cleveland Orchestra, performs regularly in the elegant Severance Hall. Playhouse Square is the home to several large theaters that host traveling Broadway plays and various other performances.

The University Circle area is walking distance from Cleveland’s historic Little Italy with its brick streets, a quaint and charming area of intimate Italian restaurants, antique and craft shops, and art galleries. The Coventry Village area is close to the Clinic’s main campus and popular with its shops and restaurants.

Cleveland hosts the Rock and Roll Hall of Fame and Museum, and the Great Lakes Science Center. Outdoor enthusiasts of all ages enjoy the ‘Emerald Necklace’, the Cleveland Metroparks network of parks that encircles the city, which offer a variety of recreational opportunities. When it comes to professional sports, Cleveland is the proud home to the Browns football, Cavaliers basketball, Indians baseball and Lake Erie Monsters hockey teams respectively. As the Great Lakes city on America’s North Coast, Cleveland offers abundant lakeshore for different activities.

Cleveland and its surrounding suburbs are home to nearly 3 million residents. A vibrant and versatile metropolitan area, Cleveland has nearly 80 residential communities. Fine residential areas are located within minutes of the Cleveland Clinic campus. Recognized as one of the best places to live and visit, Cleveland and North-East Ohio is bustling with exciting things to do for people of all ages.

For more information about Cleveland, visit these resources: About Cleveland, Cleveland.com, Cleveland, The New American City, Positively Cleveland, Travel Cleveland, and Discover Ohio.
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