

2nd World Conference Hormonal and Genetic Basis of Sexual Differentiation Disorders and Hot Topics in Endocrinology

January 15-17, 2010 The Eden Roc Hotel Miami Beach, Florida

COURSE DIRECTORS Maria I. New, MD and Joe Leigh Simpson, MD

AP NewsBreak: IOC to Hold Meeting on Gender

London -- October 27, 2009

The International Olympic Committee will convene a special conference of medical experts to draw up guidelines for dealing with "ambiguous" gender cases in the wake of South African runner Caster Semenya's sex-test controversy.

IOC medical commission chairman Arne Ljungqvist told The Associated Press on Tuesday that his panel will organize a symposium in Miami Beach, Florida in January to look at gender issues and advise sports bodies how to respond. "Sometimes you come across cases that are uncertain and ambiguous, and it changes from being a sports matter to a medical matter," Ljungqvist said. "That's where we need to have a review."

The move comes amid intense international scrutiny on Semenya, the 18-year-old athlete who won the women's 800 meters at the world championships in Berlin in August.

The International Association of Athletics Federations is reviewing gender test results to determine whether Semenya is eligible to compete as a woman. The IAAF has refused to confirm or deny Australian media reports that the tests indicate Semenya has both male and female sex organs.

Ljungqvist said the IOC would have reviewed gender issues in any case, as 10 years have passed since the committee did away with mandatory gender testing at the Olympics. But he said the Semenya case has pushed the IOC to move now. "When the Semenya case came up with all the publicity around her, and her integrity was violated, we felt perhaps it is time to review and make clearer guidelines of what to do in those ambiguous cases," the Swedish official said in a telephone interview. "The timing is appropriate."

The IOC will seek common scientific ground on "intersex" cases, where a person has ambiguous sexual characteristics. This can mean getting the athlete to receive medical treatment, including possible hormone therapy. "Our intention is to look at the state-of-the-art science and see what we should recommend to sport when it comes to cases like that," Ljungqvist said. "The general recommendation is obvious - they should be treated as medical cases in compliance with up-to-date procedures. But we have to be more specific in telling the sports people what that actually means and what they should do."

Ljungqvist said the IOC, IAAF and other sports bodies have faced similar cases before, but they have been kept secret in line with medical confidentiality. The Semenya case has been played out in public after news leaked out during the Berlin championships that she had been ordered to undergo testing. "It's highly unfortunate," Ljungqvist said. "These cases should be confidential. They are private matters and should not be displayed openly. The one who suffers is the person and the person has done nothing wrong. This may be part of our discussion - how to avoid this type of public knowledge."

The IOC used to carry out mandatory gender exams at the Olympics, but they were dropped before the 2000 Sydney Games because the screening process - chromosome testing - was deemed unscientific and unethical. The IOC has a special medical panel on site at the games that can intervene if necessary.

The IOC symposium - to be attended by 10 to 15 scientists and sports federation doctors - will take place in conjunction with the 2nd World Conference on Hormonal and Genetic Basis of Sexual Differentiation Disorders, from Jan. 15-17 in Miami Beach, Fla.

The meeting will be funded by the IOC with possible assistance from the IAAF, Ljungqvist said.

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OVERVIEW

Endocrinology and more specifically, the area of sexual differentiation disorders is an evolving field of medicine. The diagnosis and treatment of Disorders of Sex Development (DSD) is multi-faceted.

The 2nd World Conference: Genetic and Hormonal Basis of Sexual Differentiation Disorders is a three-day meeting that will bring together the world's top scientists and physicians who deal with these disorders. They will create a purposefully interactive environment in which new discoveries and outstanding science over the past six years will be discussed.

This conference specifically addresses the controversy concerning biological (gonadal and anatomical) differences between a man and a woman. The faculty at this conference are all world-class scientists who have achieved recognition for their work on the biological, genetic and psychological differences between the sexes. Thus, they will cover recent advances that can help clarify confusion and address controversies that arose regarding the South African track star at the International Amateur Athletic Federation meet in Berlin in August 2009. This educational conference will present data that will help diagnose and define evaluation and treatment regimes. We will consider diagnosis based on DNA analysis, hormonal assays, psychological tests, and other factors. The International Olympic Committee will use material presented at this conference as the basis for determining processes needed to address controversies concerning the definition of male and female. A roundtable of experts will address specific problems of assigning sexual identification and managing those with atypical presentations. The discussion will encompass both the science and ethics of this dilemma.

TARGET AUDIENCE

This course is directed towards reproductive and pediatric endocrinologists, reproductive biologists, geneticists, genetic counselors, psychoendocrinologists, gynecologists, surgeons and urologists.

OBJECTIVES

Upon completion of the activity, participants will be able to:

- Evaluate the newborn with ambiguous genitalia to determine sex assignment
- Determine clinical and genetic diagnosis of the newborn with DSD
- Effectively treat patients with DSD
- Provide accurate prenatal diagnosis and treatment of congenital adrenal hyperplasia
- Diagnose hormonal hypertension
- Examine the endocrine function of bone

ACCREDITATION

This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of the University of Miami Leonard M. Miller School of Medicine and the Florida International University Herbert Wertheim College of Medicine. The University of Miami Leonard M. Miller School of Medicine is accredited by the ACCME to provide continuing medical education for physicians.

CREDIT DESIGNATION

The University of Miami Leonard M. Miller School of Medicine designates this educational activity for a maximum of **16.25 AMA PRA Category 1 Credits™**. Physicians should only claim credit commensurate with the extent of their participation in the activity.

DISCLOSURE AND CONFLICT OF INTEREST RESOLUTION

All conflicts of interest of any individual(s) in a position to control the content of this CME activity will be identified and resolved prior to this educational activity being provided. Disclosure about provider and faculty relationships, or the lack thereof, will be provided to learners.

CALL FOR POSTERS

Deadline: December 15, 2009. Submitters will be notified of acceptance or rejection within a week of submission.

Poster Submission Instructions:

All posters should indicate the title and list of authors at the top and should not exceed 250 words. Poster measurements should not exceed 4 ft high (1.2 meters) x 6 ft. wide (1.8 meters). Use of standard abbreviations is acceptable; non-standard abbreviations must be kept to a minimum and must be explained when used. Generic names of drugs are preferred: A propriety name may be given only with the first use of the generic name. Illustrations should be similar to those used for slides but more heavily drawn.

Presenting Author's Availability: The presenting author (preferably the primary author) must be available to present his or her work at the conference. Authors will be responsible for any associated costs including travel, meeting registration and poster preparation.

Disclosure Statement Regarding Conflict of Interest

All authors submitting abstracts are required to disclose any relationships with pharmaceutical companies, biomedical device manufacturers or other organizations that could represent potential conflicts in their presentation. The submitting author is responsible for providing disclosure information for all co-authors. This applies to currently existing relationships or relationships within the past year that relate to the abstract entry. Conference participants will also be provided with disclosure information so that they may form their own judgments about potential conflicts of interest in relationship to the abstracts/presentations.

Prior Presentation (another academic meeting): May be submitted
Prior Publication in manuscript form: May be submitted

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Friday, January 15, 2010

7:00 - 8:00 AM REGISTRATION/BREAKFAST**8:00 - 8:15 AM**Introduction and Overview of the Symposium
Maria I. New, MD

GENETIC DISORDERS OF STERIODS

Chair: Berenice Mendonça, MD, PhD

8:15 - 8:35 AMCongenital Adrenal Hyperplasia owing to
17-Alpha Hydroxylase/17,20
Lyase and P450 Oxidoreductase (POR)
Christa Flück, MD**8:35 - 8:55 AM**Congenital Adrenal Hyperplasia owing
to 11 Hydroxylase Deficiency
Perrin C. White, MD**8:55 - 9:05 AM** DISCUSSION**9:05 - 9:25 AM**17 HSD and 5 Reductase
2 Deficiency
Berenice Mendonça, MD, PhD**9:25 - 9:45 AM**Studies of Cohort of 46,XY Patients
with DSD Including 3 HSD
Yves Morel, MD, PhD**9:45 - 9:55 AM** DISCUSSION**9:55 - 10:15 AM**Aromatase Deficiency
Melvin M. Grumbach, MD**10:15 - 10:30 AM**Gonadotropin/Androgen
Related Testicular Helicase: A Master
Post-Transcriptional Regulator of Spermatogenesis
Maria Dufau, MD, PhD**10:30 - 10:35 AM** DISCUSSION**10:35 - 11:00 AM** BREAKPRENATAL DIAGNOSIS OF CONGENITAL
ADRENAL HYPERPLASIA

Chair: Maria I. New, MD

11:00 - 11:15 AM21-Hydroxylase Deficiency
Maguelone Forest, MD**11:15 - 11:25 AM**Long Range Outcome of Prenatal Treatment
Maria I. New, MD**11:25 - 11:45 AM**Novel Non-Invasive Prenatal Diagnosis
Joe Leigh Simpson, MD**11:45 AM - 12:00 PM** DISCUSSION**12:00 - 1:30 PM** LUNCH (Lunch on your own)

TREATMENT OF CONGENITAL ADRENAL HYPERPLASIA

Chair: Claude J. Migeon, MD

1:30 - 1:45 PMTreatment of Classical and Non-Classical CAH
Phyllis Speiser, MD**1:45 - 2:00 PM**Treatment of Short Stature in Patients with CAH
Madeleine D. Harbison, MD**2:00 - 2:10 PM** DISCUSSION**2:10 - 2:25 PM**Genitoplasty
Dix Phillip Poppas, MD**2:25 - 2:40 PM**Genitoplasty
Richard Rink, MD**2:40 - 2:50 PM** DISCUSSION**2:50 - 3:05 PM**Genetic Counseling of CAH
Judith P. Willner, MD**3:05 - 3:15 PM** DISCUSSION**3:15 - 3:45 PM** BREAK

RECEPTOR DEFECTS

Chair: John D. Baxter, MD

3:45 - 4:05 PMAndrogen Receptor Defects
Ivo JP Arnhold, MD**4:05 - 4:25 PM**Androgen Receptor Defects
Lefkothea P. Karaviti, MD, PhD
Marco Marcelli, MD**4:25 - 4:45 PM**Phenotype Variation of SF-1 Gene Mutation
Charles Sultan, MD, PhD**4:45 - 5:00 PM** DISCUSSION**5:00 PM** WRAP-UP AND EVALUATIONS**5:30 - 6:30 PM** WINE AND CHEESE RECEPTION
AND POSTER SESSIONS

Saturday, January 16, 2010

7:00 - 8:00 AM BREAKFAST

PSYCHOLOGICAL ASPECTS OF INTERSEX

Chair: Melvin M. Grumbach, MD

8:00 - 8:25 AM

Psychobiology of Intersex

Heino Meyer-Bahlburg, Dr. rer. nat.

8:25 - 8:45 AM

Psychobiology of Intersex

Kenneth Zucker, PhD, Cpsych

8:45 - 9:00 AM DISCUSSION

EMBRYOLOGY OF SEX DIFFERENTIATION

Chair: Jean Wilson, MD

9:00 - 9:30 AM

The Biology and Genetics of Anti-Müllerian Hormone

Nathalie Josso, MD, PhD

9:30 - 9:40 AM DISCUSSION

9:40 - 10:10 AM

Boys, Girls and Shuttlung of SRY and SOX9

Vincent Harley, BSc (Hons), PhD

10:10 - 10:15 AM DISCUSSION

10:15 - 10:45 AM BREAK

DISORDERS OF SEX DIFFERENTIATION

Chair: Gérard Karsenty, MD, PhD

10:45 - 11:15 AM

Genetic Disorders of Sex Differentiation

Kenneth McElreavey, PhD

11:15 - 11:25 AM DISCUSSION

11:25 - 11:55 AM

The Clinical Spectrum and Treatment of Ovotesticular DSD

Rinus Wiersma

11:55 AM - 12:05 PM DISCUSSION

12:05 - 12:35 PM

The Genetics of Ovotesticular DSD

Eric Vilain, MD, PhD

12:35 - 12:45 PM DISCUSSION

12:45 - 2:00 PM LUNCH (Lunch on your own)

HORMONAL HYPERTENSION

Chair: John Funder, MD, PhD

2:00 - 2:10 PM

Apparent Mineralocorticoid Excess - Update

Saroj Nimkarn, MD

2:10 - 2:20 PM DISCUSSION

2:20 - 2:40 PM

Genetic Modifications of Corticosteroid

Receptors in Hypertension

John Funder, MD, PhD

2:40 - 3:00 PM

Angiotensin AT2 Receptors: Control of

Renal Sodium Excretion and Blood Pressure

Robert M. Carey, MD

3:00 - 3:15 PM DISCUSSION

3:15 - 3:30 PM BREAK

SKELETAL BIOLOGY

Chair: Gérard Karsenty, MD, PhD

3:30 - 4:00 PM

The Role of the Pituitary in Bone Metabolism

Mone Zaidi, MD, PhD

4:00 - 4:20 PM

Endocrine Regulation of Energy Metabolism by the Skeleton

Gérard Karsenty, MD, PhD

4:20 - 4:30 PM DISCUSSION

4:30 PM WRAP-UP AND EVALUATIONS

6:30 PM DINNER (Register in advance)

Sunday, January 17, 2010

8:00 - 8:20 AM

Transcriptional Regulation of Steroid Action

Shigeaki Kato, PhD

8:20 - 8:30 AM DISCUSSION

8:30 - 8:50 AM

Epigenetics in Silver Russell Syndrome

Irène Netchine, MD, PhD, MCU-PH

8:50 - 9:00 AM DISCUSSION

9:00 - 9:15 AM BREAK

9:15 - 10:30 AM

Panel - Sexual Identity - General Discussion

Maria I. New, MD

Eric Vilain, MD, PhD

Melvin M. Grumbach, MD

Berenice Mendonça, MD, PhD

Joe Leigh Simpson, MD

10:30 - 11:30 AM

Panel - Future Directions of Sexual Determination

Maria I. New, MD

Eric Vilain, MD, PhD

Melvin M. Grumbach, MD

Berenice Mendonça, MD, PhD

Joe Leigh Simpson, MD

11:30 AM WRAP-UP AND ADJOURN



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PARKING

Limited on-site valet parking is available at Eden Roc for a rate of \$20 for daily parking and \$30/night for overnight parking. Please contact the hotel regarding off-site parking.

SPECIAL CONFERENCE RATE

A block of rooms has been reserved for the conference participants at a discounted rate of \$299/night + 13% tax/day. Reservations must be made on or before **Wednesday, December 16, 2009**. The rate is in effect only from Thursday, January 14th, 2010 to Sunday, January 17th, 2010 and extended three days pre and post based on hotel availability at the group rate.

COURSE REGISTRATION

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FOR MORE INFORMATION, CONTACT

Division of CME at 305-243-6716 / umcme@med.miami.edu

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Please contact the Division of CME prior to December 15, 2009 should you have any special needs that may require additional assistance. A conference staff member will contact you to discuss these special requirements.

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