

Prevalence of the metabolic syndrome in the Seychelles according to different definitions, contribution of components, and agreement between different defi

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Background: The metabolic syndrome (MS) represents a cluster of metabolic disorders that predicts diabetes and cardiovascular disease. Several definitions exist and further descriptive and prospective data are needed to compare these definitions and their significance in different populations.

Objective: We examined, in a country of the African region, i) the prevalence of MS according to three major definitions (ATP, IDF, WHO); ii) the contribution of individual MS components; and iii) the agreement between the three considered definitions. We also examined the prevalence among diabetics and non-diabetics.

Methods: We conducted an examination survey in a sample representative of the general population aged 25-64 of the Seychelles (Indian Ocean, African region), attended by 1255 persons (participation rate of 80.2%).

Results: The prevalence of MS was similar with either definition of MS in men (24%-25%) but differed in women (WHO: 25%, ATP: 32%; IDF: 35%). Upon exclusion of diabetic persons, the prevalence was 5-10% lower for all three MS definitions: most diabetic persons had MS although a substantial proportion of diabetic men aged 45-64 did not have MS. The following components were found most often among persons with MS: 90% had high blood pressure (HBP) and 78% had obesity (ATP); 95% had obesity and 84% had HBP (WHO), and 89% had HBP and 75% had impaired glucose regulation (IDF) -not considering impaired glucose regulation and obesity that are compulsory components of the WHO and IDF definitions, respectively. Among persons with MS based on either of the three definitions (37% of total population), less than 80% met both ATP and IDF criteria, 67% both WHO and IDF criteria, 54% both WHO and ATP criteria and only 37% met all three definitions.

Conclusions. We found a fairly high prevalence of MS in an African population. However, because there was only poor agreement between the 3 MS definitions, the fairly similar proportions of MS based on ATP, IDF or WHO definitions identified, to a substantial extent, different subjects as having MS.



Research Day

January 17, 2008
César Roux Auditorium

Regenerative Medecine

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et de médecine



CHUV RESEARCH DAY 2008
Thursday, January 17th, 2008
“Regenerative Medicine”

08:30 Presentation of the 2008 Research Day
Professor Ivan Stamenkovic, Vice Dean for Research

08:45 **Keynote
speaker 1**



Professor Philippe Menasché
Department of Cardio-Vascular Surgery
Hôpital Européen G. Pompidou, Paris
“Promises and pitfalls of skeletal myoblast therapy”

09:30 **Coffee & Posters**

10:30 6 short talks

12:00 **Keynote
speaker 2**



Professor Giulio Cossu
Stem Cell Research Institute, Milano
“Towards a cell therapy for muscular dystrophy”

12:45 **Lunch, Coffee & Posters**

14:00 **Keynote
speaker 3**



Professor Michele De Luca
Department of Biomedical Sciences, Modena
Epithelial Stem Cell Research Centre, Venice
“Epithelial stem cells and regenerative medicine”

14:45 6 short talks

16:15 **Coffee & Posters**

17:00 **Keynote
speaker 4**



Professor Lior Gepstein
Dept of Physiology & Biophysics, Technion – Haifa,
Israel
*“Myocardial Regeneration by Human Embryonic
Stem Cells”*

17:45 Poster Prizes Ceremony

18:00 **Apéritif & Buffet**

ATTENDANCE IS FREE - NO REGISTRATION IS NECESSARY

NOTE: Posters will be displayed from
Wednesday January 16st early morning to Friday January 18th early morning.

12 short talks

Schedule	Names, departments	Titles
Morning		
10h30 - 10h45	Boris Hinz Laboratoire de biophysique cellulaire - EPFL	<i>"The myofibroblast - friend and foe in tissue regeneration"</i>
10h45 - 11h00	Matthias Lutolf Laboratoire de cellules souches et bioengineering - EPFL	<i>"Bioengineering artificial stem cell niches".</i>
11h00 - 11h15	Corinne Kostic Unité de thérapie génique et biologie des cellules souches – Hôpital Ophtalmique	<i>"Gene therapy preclinical studies for Leber congenital amaurosis"</i>
11h15 - 11h30	Anne Zurn Chirurgie expérimentale - CHUV	<i>"Delayed peripheral nerve priming improves regeneration of sensory axons into the spinal cord following dorsal root injury."</i>
11h30 - 11h45	Meta Djojosebroto Unité de thérapie génique et biologie des cellules souches – Hôpital Ophtalmique	<i>"Increased chromosomal aberrations and transformation of adult mouse retinal stem cells"</i>
11h45 - 12h00	Paola Bonfanti Chirurgie expérimentale - CHUV & Laboratoire de dynamique des cellules souches - EPFL	<i>"Thymic epithelial cells have skin potency"</i>
Afternoon		
14h45 - 15h00	Dominique Pioletti Laboratoire de biomécanique en orthopédie - EPFL	<i>"In Vivo evaluation of human fetal cells as allogenic cell source for tissue engineering"</i>
15h00 - 15h15	Mikaël Martino Laboratoire de médecine régénérative et de pharmacobiologie - EPFL	<i>"Controlling mesenchymal stem cells response to biomaterials with recombinant integrin- specific fibronectin fragments"</i>
15h15 - 15h30	Dela Golshayan Néphrologie et Centre de Transplantation d'organes - CHUV	<i>"Mechanisms of Allograft rejection and tolerance in transplantation"</i>
15h30 - 15h45	Jonathan Bloch Médecine Interne - CHUV	<i>"Spleen derived vascular progenitor cell transfer restores metabolic and vascular insulin sensitivity in high-fat diet insulin resistant mice"</i>
15h45 - 16h00	Marc-Etienne Roehrich Cardiologie – CHUV	<i>"Immunophenotypical analysis of putative cardiac progenitor cells isolated based on high ALDH activity from adult mouse and human hearts"</i>
16h00 - 16h15	Mohamed Nemir Dpt de Médecine - CHUV	<i>"Control of cardiac integrity via the Notch1 receptor pathway".</i>