

عنوان مقاله:

Association between body mass index and sperm miR-34c transcript content

محل انتشار:

هشتمین کنگره بین المللی و جشنواره دانشجویی طب تولید مثل و سومین کنگره بین المللی ژنتیک تولید مثل (سال: 1398)

تعداد صفحات اصل مقاله: 1

نویسندگان:

E Davoodi - *Department of Biology, Faculty of Science, Shahid Chamran University, Ahvaz, Iran*

M Dorostghoal - *Department of Biology, Faculty of Science, Shahid Chamran University, Ahvaz, Iran*

H Galehdari - *Department of Genetic, Faculty of Science, Shahid Chamran University of Ahvaz, Ahvaz, Iran*

M Hamadi - *Fertility, Infertility and Perinatology Research Center, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran*

خلاصه مقاله:

Background: Obesity has been considered as an important factor contributing male infertility. Present study was done to investigate the relationship between body mass index (BMI) and sperm miR-34c transcript content in normozoospermic men. Objective: Present study was done to investigate the relationship between body mass index (BMI) and sperm miR-34c transcript content in normozoospermic men. Materials and Methods: Present study was approved by the institutional review board of Biology Department, Shahid Chamran University of Ahvaz. BMI were measured in a total of 30 men attending an infertility clinic and categorized to two groups with normal weight (18.5-24.9 kg/m²) and overweight (25.00-29.9 kg/m²). Standard sperm parameters were analyzed according to the World Health Organization (WHO) guidelines and expression levels of miR-34c were assessed in ejaculated sperm. Results: Expression of miR-34c was significantly ($p < 0.05$) higher in men with normal BMI than overweight men. The sperm content of miR-34c showed significant ($p = 0.020$, $r = 0.422$) relationship with BMI. Conclusion: Our findings show the association between sperm content of miR-34c and body mass index and suggest that obesity could affect sperm microRNAs expression profile.

کلمات کلیدی:

Body mass index, Obesity, Male fertility, Semen quality, miR-34c

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