

# ENDOTHELIAL DYSFUNCTION IN SYSTEMIC LUPUS ERYTHEMATOSUS

Author: SONDOS ABED, 6th year student, Faculty Medicine 2 Scientific advisor: SADOVICI-BOBEICA VICTORIA, MD, PhD, Departement of Internal Medicine-semiology

#### Introduction

The endothelium is a crucial regulator of vascular homeostasis; lupus-associated chronic systemic inflammation may compromise endothelial functioning, triggering a chain of events that, when combined with established CVD risk factors, leads to the formation and progression of atherosclerosis

## **Purpose**

To asses how SLE affect the function of endothelium

# **Material and methods**

We have performed a database search of all relevant literature published until June 2022. The search included English written articles. Electronic databases including PubMed, Oxford Academics, Google Scholar were searched using the following terms: "SLE+endothelium dysfunction

### **Results**

The search yielded 17 articles, out of which 11 articles were considered relevant published from 2002 to 2022. Out of 11 articles 2 were literature reviews and 9 cross sectional and case control studies including a total number of 439 SLE patients. To date, the vast majority of available data, albeit not all, indicates that endothelium dependent FMD values are lower in SLE patients compared to healthy subjects. Notably, FMD variations can be used to assess certain therapy method's capacity to improve endothelial function in SLE patients

## **Conclusions**

Endothelial function appears to be affected by SLE, potentially contributing to the increased cardiovascular risk observed in SLE patients