Sex steroids and sex steroid-binding globulin levels among middle-aged and elderly men and women from general population

E. Aribas, MD¹; J.E. Roeters van Lennep, MD, PhD²; Y.B. De Rijke, PhD³; J.S.E. Laven, MD, PhD⁴; M.A. Ikram, MD, PhD¹, R.P. Peeters, MD, PhD²; M. Kavousi, MD, PhD¹

Corresponding author: Dr. M. Kavousi, MD, PhD

Department of Epidemiology, Na-2714, Erasmus Medical Center, University Medical Center. PO. Box 2040, 3000 CA Rotterdam, the Netherlands. Telephone number: +31107043997. Email: m.kavousi@erasmusmc.nl.

¹Department of Epidemiology, Erasmus MC, University Medical Center Rotterdam, Rotterdam, the Netherlands

²Department of Internal Medicine, Erasmus MC, University Medical Center Rotterdam, Rotterdam, the Netherlands

³Department of Clinical Chemistry, Erasmus MC, University Medical Center Rotterdam, Rotterdam, the Netherlands

⁴Division of Reproductive Endocrinology and Infertility, Department of Obstetrics and Gynecology, Erasmus MC, University Medical Center Rotterdam, Rotterdam, the Netherlands

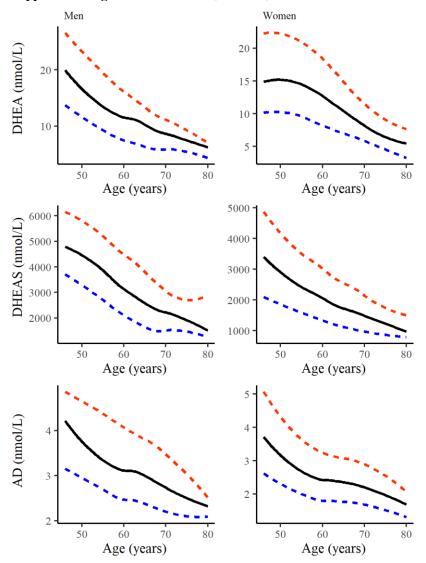
Supplemental Material

Supplemental fig. 1 Levels of DHEA, DHEAS, and androstenedione levels across age (N=3291)

Supplemental fig. 2 Sex steroids and SHBG levels across age among obese and non-obese participants (N=3270)

Supplemental fig. 3 Sex steroids and SHBG levels across age among postmenopausal women (N=1371)



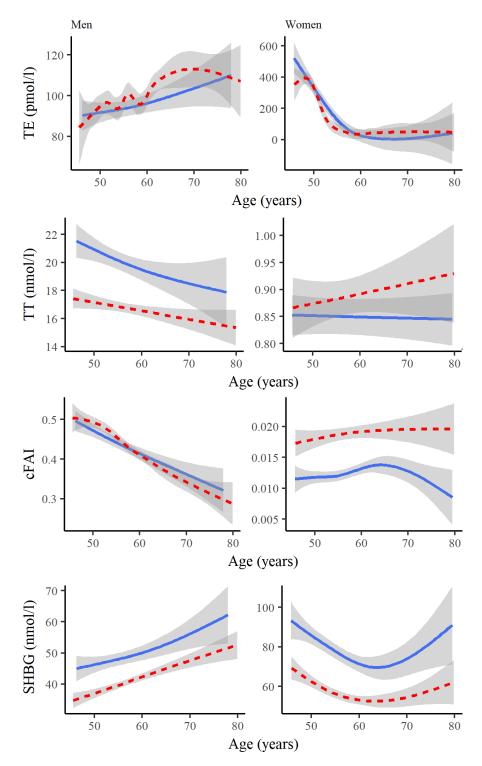


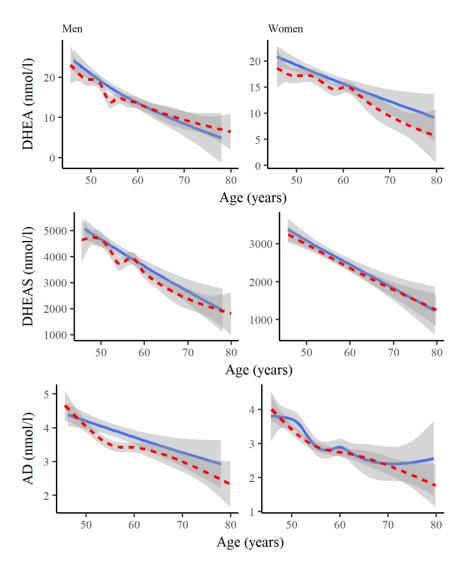
Smoothed percentile plots of DHEA, DHEAS, and androstenedione for each age-year in 1490 men (left) and 1801 women (right).

The median is a solid line, 25th and 75th percentile are depicted as dashed lines.

Abbreviations: DHEA; dehydroepiandrosterone, DHEAS; dehydroepiandrosterone sulfate, AD; androstenedione.

Supplemental fig. 2 Sex steroids and SHBG levels across age among obese and non-obese participants



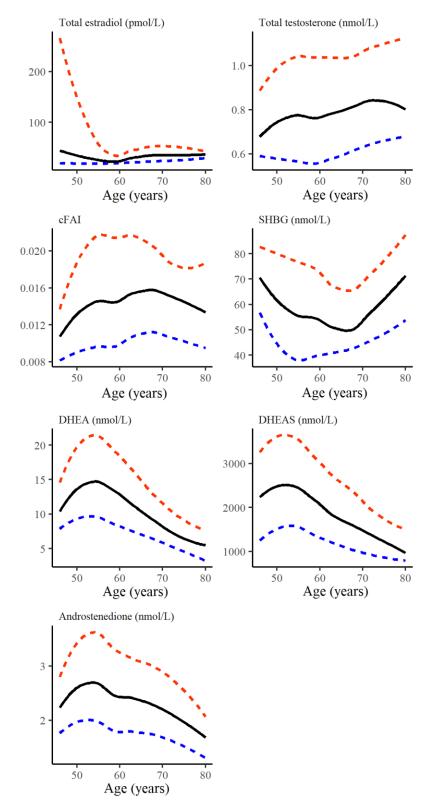


Solid lines (in blue) represent non-overweight participants. Dashed lines (in red) represent overweight participants Gray area represent the 95% confidence intervals.

In men (N=1479), 349 participants non-overweight and 1130 participants were overweight. In women (N=1791), 589 participants were non-overweight and 1202 were overweight participants.

Abbreviations: TE; total estradiol, TT; total testosterone, cFAI; calculated free androgen index, SHBG; sex-hormone binding globulin, DHEA; dehydroepiandrosterone, DHEAS; dehydroepiandrosterone sulfate, AD; androstenedione, N=number.

Supplemental fig. 3 Sex steroids and SHBG levels across age among postmenopausal women



The median is a solid line, 25^{th} and 75^{th} percentile are depicted as dashed lines, among 1371 postmenopausal women.

Abbreviations: SHBG; sex-steroid binding globulin, cFAI; calculated free androgen index, DHEA; dehydroepiandrosterone, DHEAS; dehydroepiandrosterone sulfate, N; number.