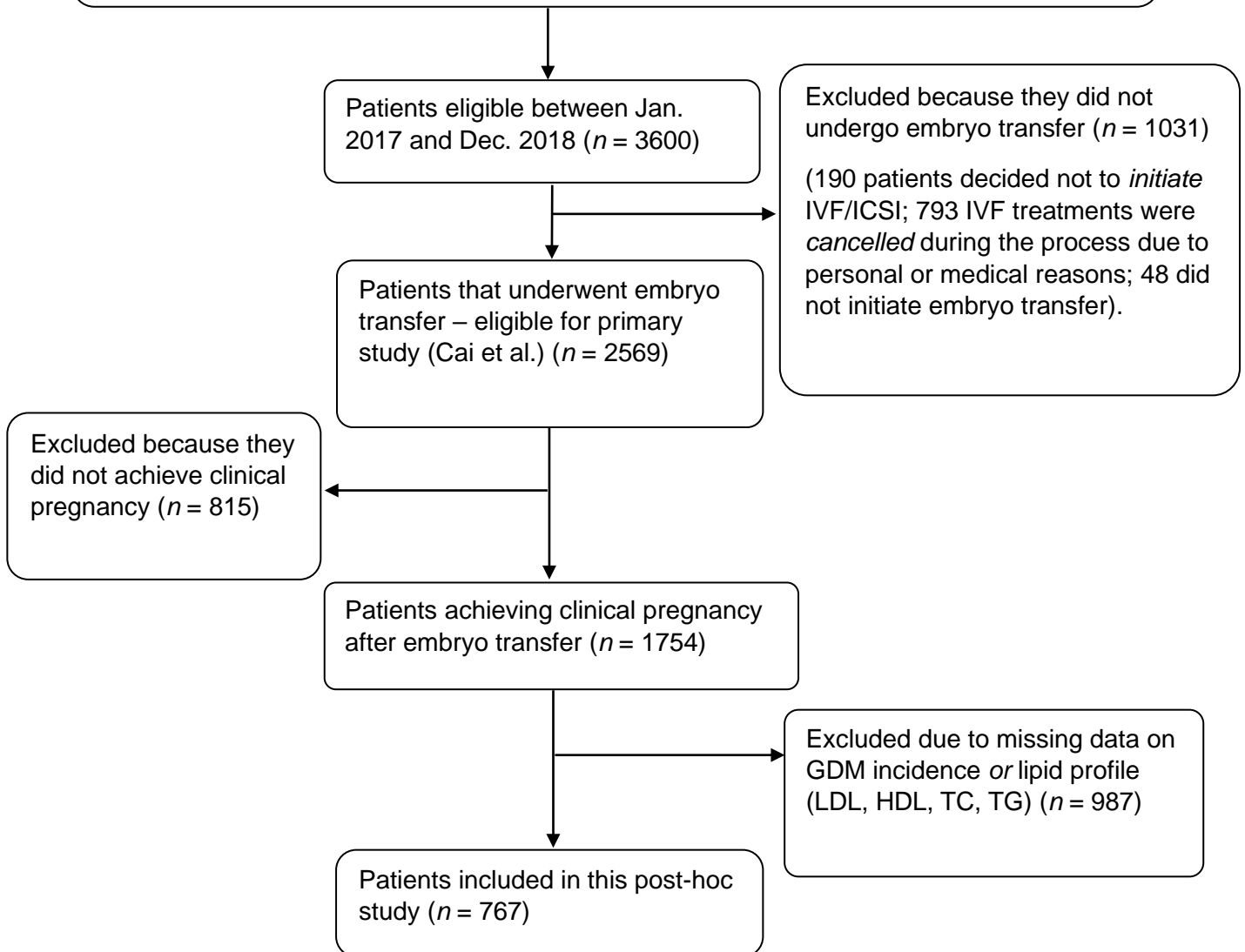


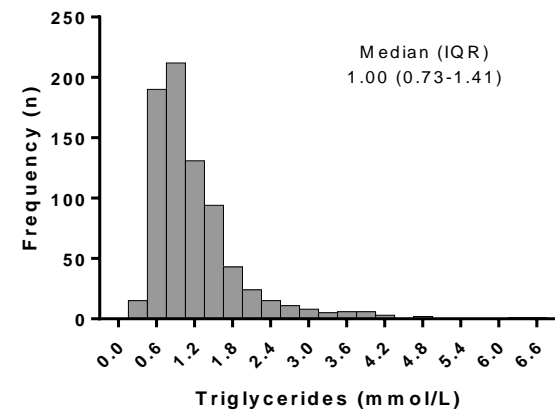
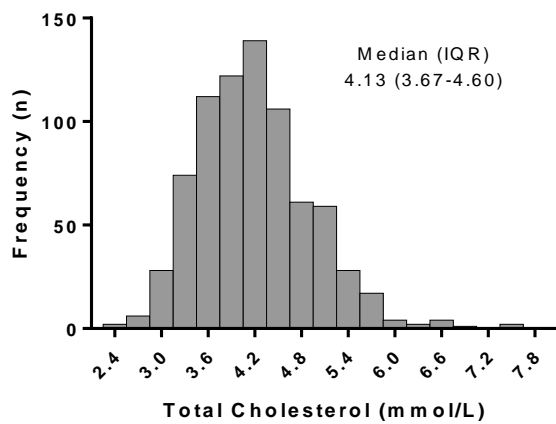
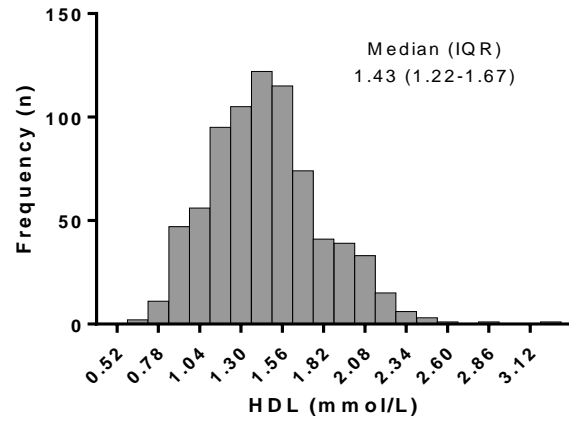
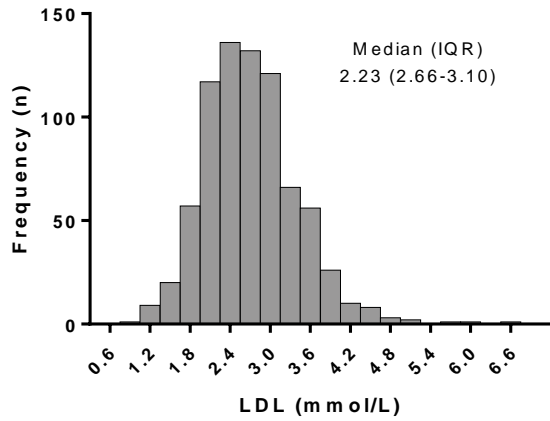
Inclusion criteria: 1) age from 18 to 40 years, 2) first IVF/ICSI treatment, 3) informed consent was given by the patient for participation in the study.

Exclusion criteria: 1) received oocyte donation, 2) uterine malformation, 3) endometriosis, 4) uterine adhesions, 5) untreated hydrosalpinx, 6) uterine myoma, 7) Cushing syndrome, 8) adult-onset adrenogenital syndrome, 9) hypothalamic or pituitary disease causing infertility, 10) diabetes mellitus type 1 or 2 prior to pregnancy, 11) hypertension prior to pregnancy



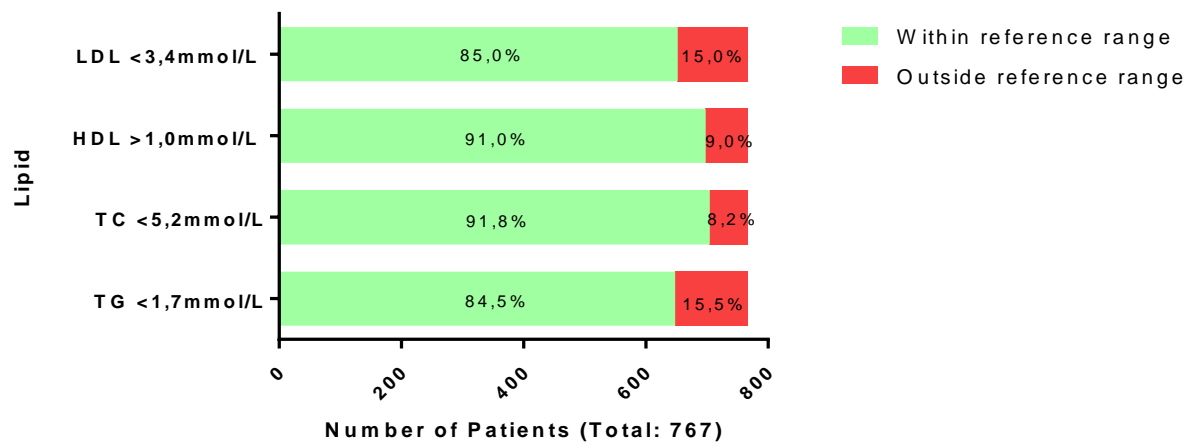
Supplementary Figure 1: Study flowchart with inclusion and exclusion criteria

Abbreviations: GDM = gestational diabetes mellitus; ICSI = intracytoplasmic sperm injection; IVF = in-vitro fertilization; LDL = low-density lipoproteins; HDL = high-density lipoproteins; TC = total cholesterol; TG = triglycerides.



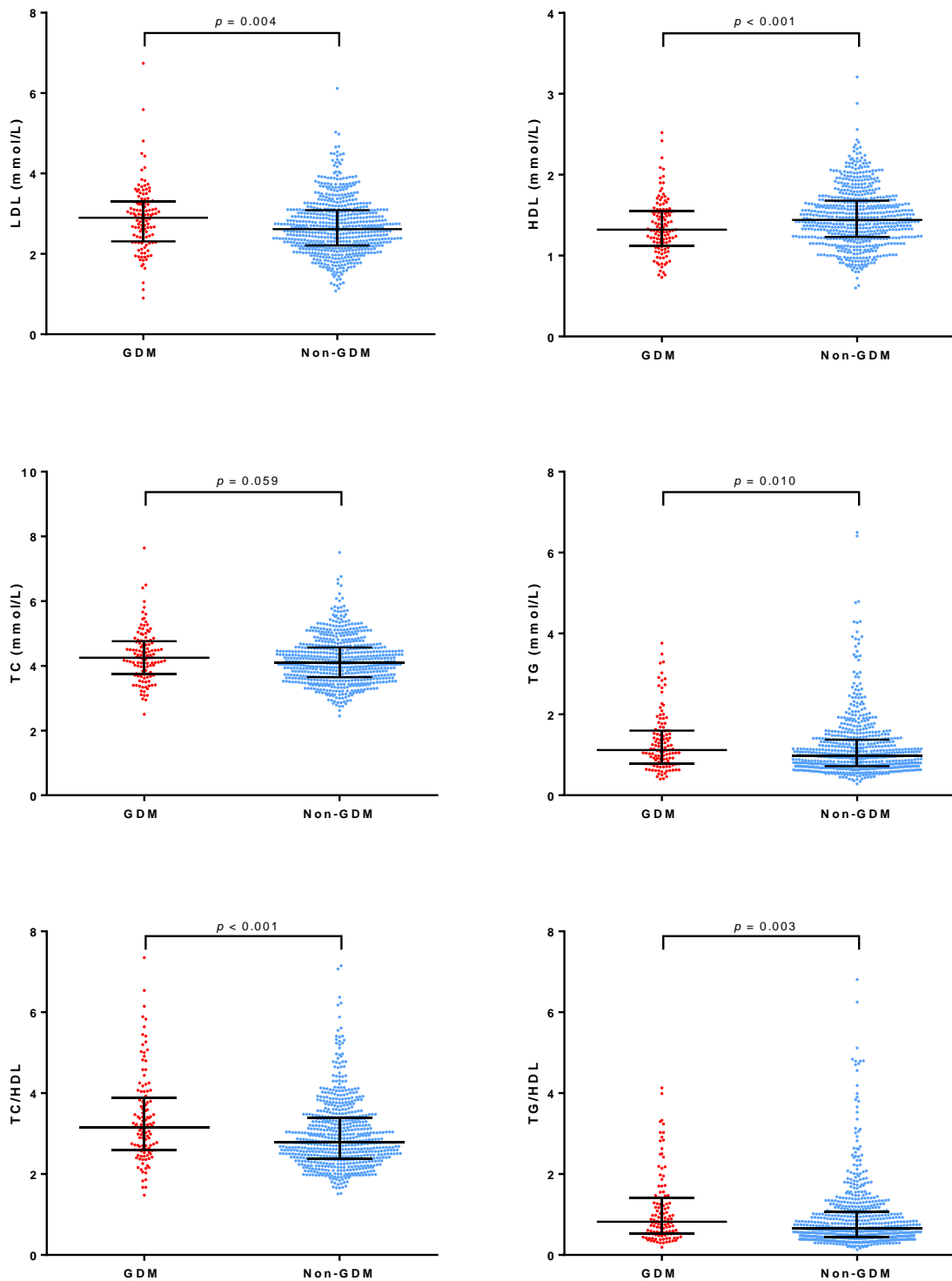
Supplementary Figures 2a-d: Distribution of lipids in the study population

Data is presented as a histogram with frequency, n (%), and median with IQR. Abbreviations: IQR = interquartile range; LDL = low-density lipoproteins; HDL = high-density lipoproteins.



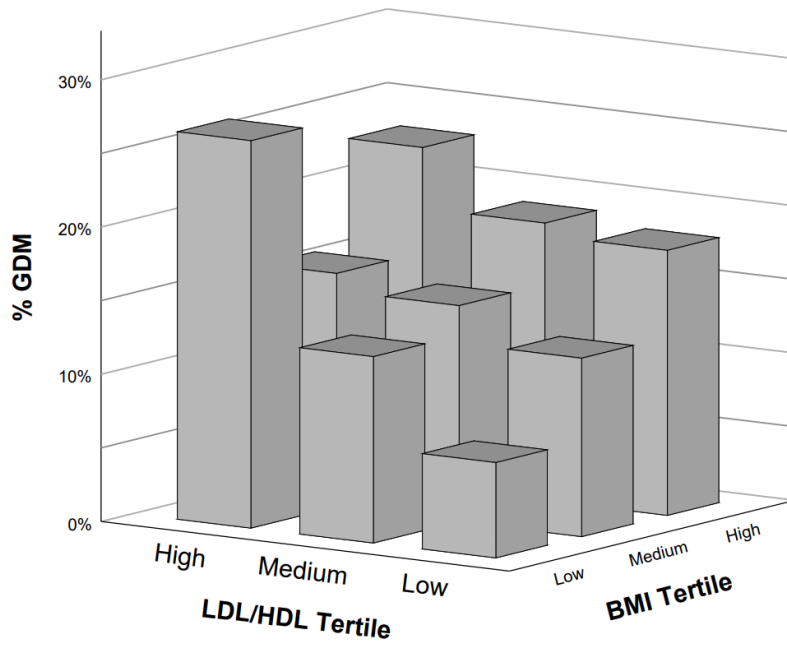
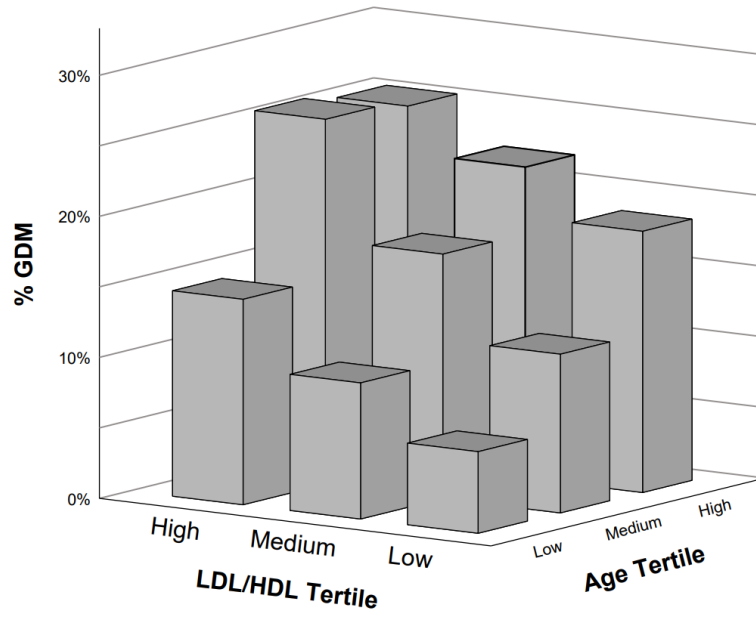
Supplementary Figure 3: Distribution of lipids according to guidelines

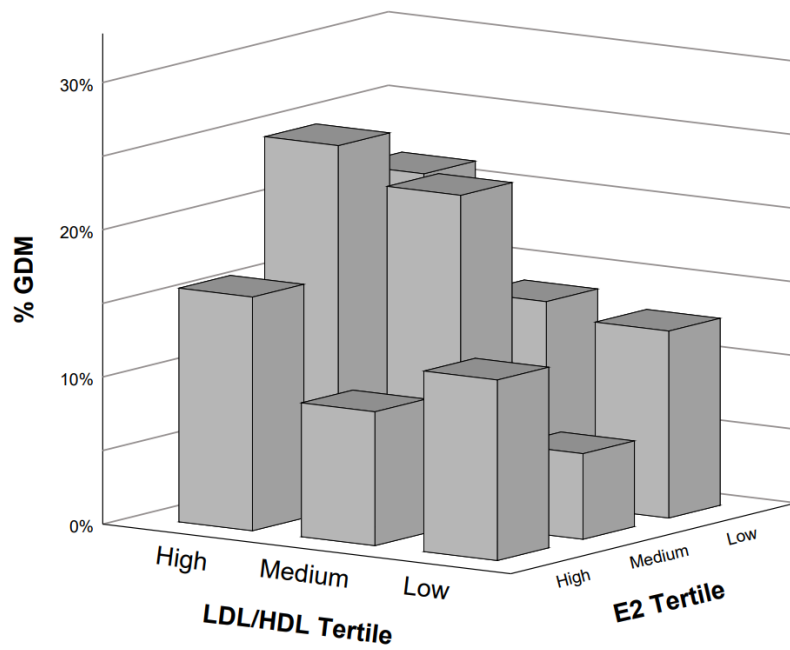
Lipid values were evaluated according to the AACE (American Association of Clinical Endocrinologists and American College of Endocrinology) 2017 guidelines and the 2016 Chinese guidelines for the management of dyslipidemia in adults. Data is presented as frequency, n (%). Abbreviations: LDL = low-density lipoproteins; HDL = high-density lipoproteins; TC = total cholesterol; TG = triglycerides.



Supplementary Figures 4a-f: Lipid parameters in GDM versus non-GDM patients

Plots are presented as median and IQR (interquartile range). p -values were calculated with the Mann-Whitney U test. GDM = gestational diabetes mellitus; HDL = high-density lipoproteins; LDL = low-density lipoproteins; TC = total cholesterol; TG = triglycerides.





Supplementary Figures 5a-c: Effects of LDL/HDL ratio and other GDM risk factors (age, BMI, and E2) on GDM incidence in women undergoing IVF/ICSI

Abbreviations: BMI = body mass index; GDM = gestational diabetes mellitus; E2 = estradiol; HDL = high-density lipoproteins; ICSI = intracytoplasmic sperm injection; IVF = in-vitro fertilization; LDL = low-density lipoproteins.