

Legends to Supplementary Figures

Suppl. Figure S1: Basic characteristics of *SgplI*^{HepKO} mice.

(A, B) Body weight and liver weight of control and *SgplI*^{HepKO} mice at the age of 8 weeks (A) and 8 months (B). (C, D) Liver enzymes and (E, F) Blood cell counts. Shown are values from individual mice and their median. M, male mice; F, female mice.

Suppl. Figure S2: Levels of glucosylceramides in liver and plasma of *SgplI*^{HepKO} mice.

Glucosylceramides were measured by LC-MS/MS in liver and plasma of control and *SgplI*^{HepKO} mice at the age of 8 months. Shown are values from individual mice and their median. GlcCer, glucosylceramide.

Suppl. Figure S3: Levels of sphingomyelins in liver and plasma of *SgplI*^{HepKO} mice.

Sphingomyelins (SM) were measured by LC-MS/MS in liver and plasma of control and *SgplI*^{HepKO} mice at the age of 8 months. Shown are values from individual mice and their median. *p<0.05 in two-tailed Student's t-test with Welch's correction.

Suppl. Figure S4: Levels of dihydro-sphingolipids in liver and plasma of *SgplI*^{HepKO} mice.

(A-D) Dihydro-S1P and dihydro-sphingosine were measured by LC-MS/MS in liver and plasma of control and *SgplI*^{HepKO} mice at the age of 8 weeks (A, B) and 8 months (C, D). (E, F) Dihydro-ceramides levels were measured in liver at the age of 8 weeks (E) and 8 months (F). Shown are values from individual mice and their median. *p<0.05, **p<0.01, ***p<0.001 in two-tailed Student's t-test with Welch's correction.

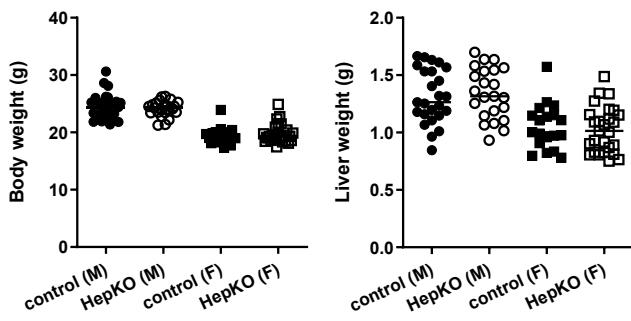
Suppl. Figure S5: Levels of ceramides in bile of *SgplI*^{HepKO} mice.

Ceramide levels were measured by LC-MS/MS in bile of control and *SgplI*^{HepKO} mice at various ages. Shown are values from individual mice and their median.

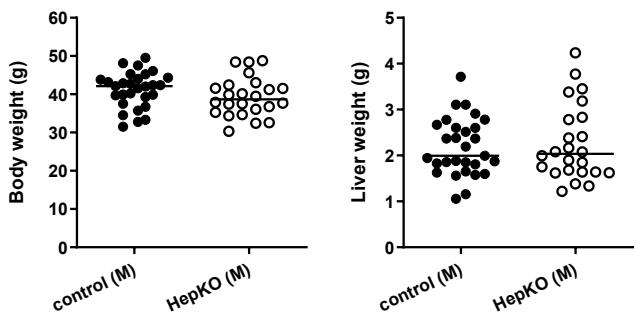
Suppl. Figure S6: Sterols in liver and plasma of *SgplI*^{HepKO} mice.

(A, B) Sterols referred to total cholesterol were measured by gas chromatography-flame ionisation detection in the liver (A) and plasma (B) of control and *SgplI*^{HepKO} mice at the age of 8 months. Shown are values from individual mice and their median.

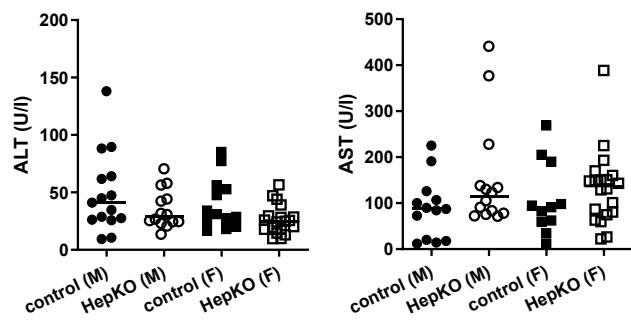
A: Weight, 8-week-olds



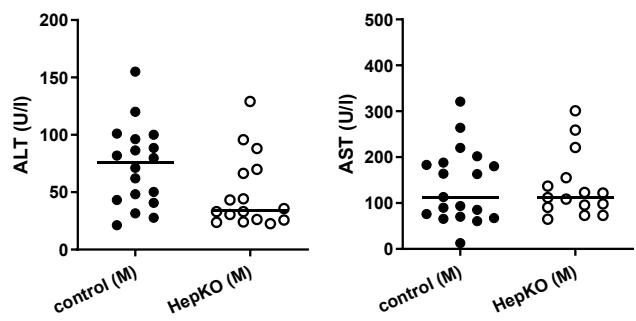
B: Weight, 8-month-olds



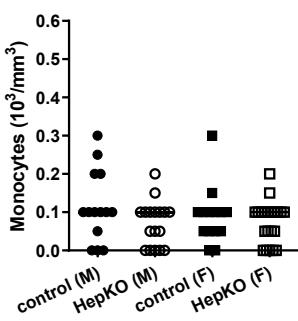
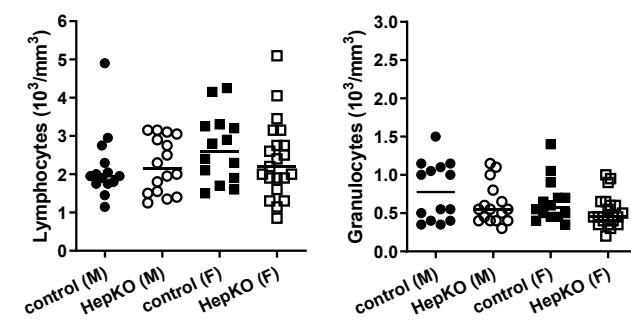
C: Liver enzymes, 8-week-olds



D: Liver enzymes, 8-month-olds



E: Blood counts, 8-week-olds



F: Blood counts, 8-month-olds

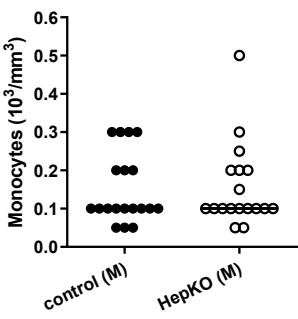
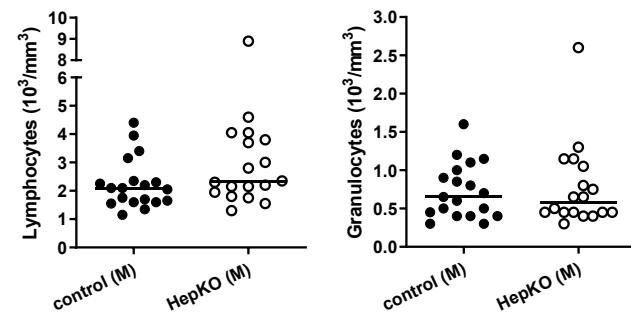
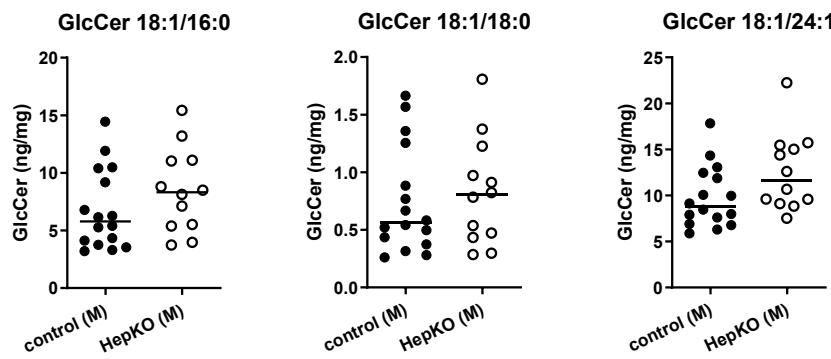


Figure S1

Glucosylceramides, 8-month-olds

Liver



Plasma

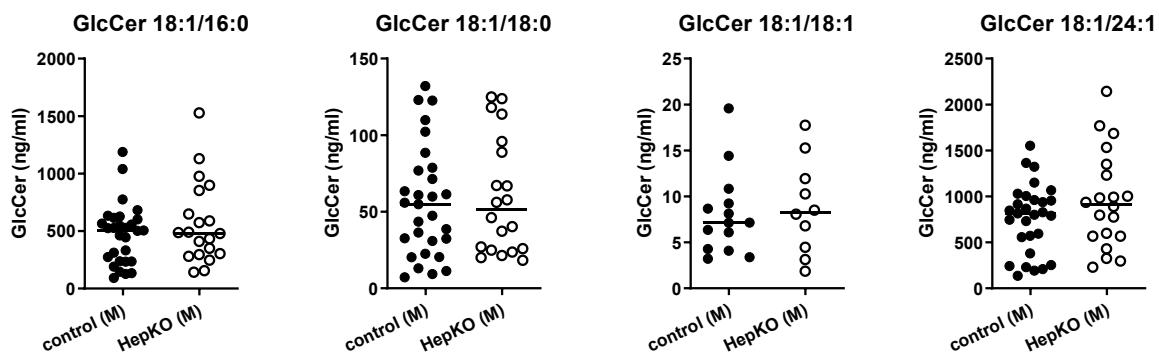
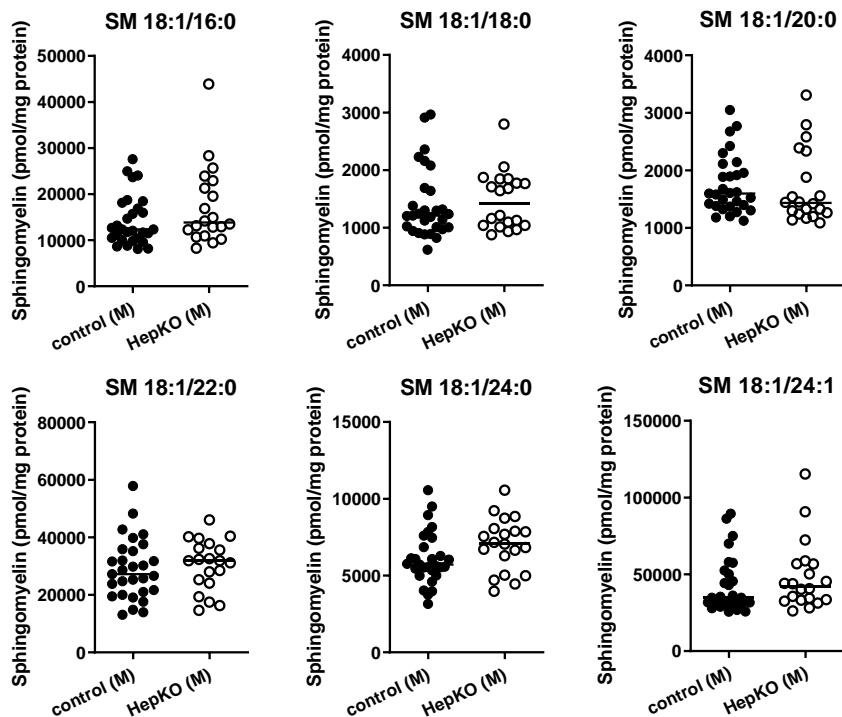


Figure S2

Sphingomyelin, 8-month-olds

Liver



Plasma

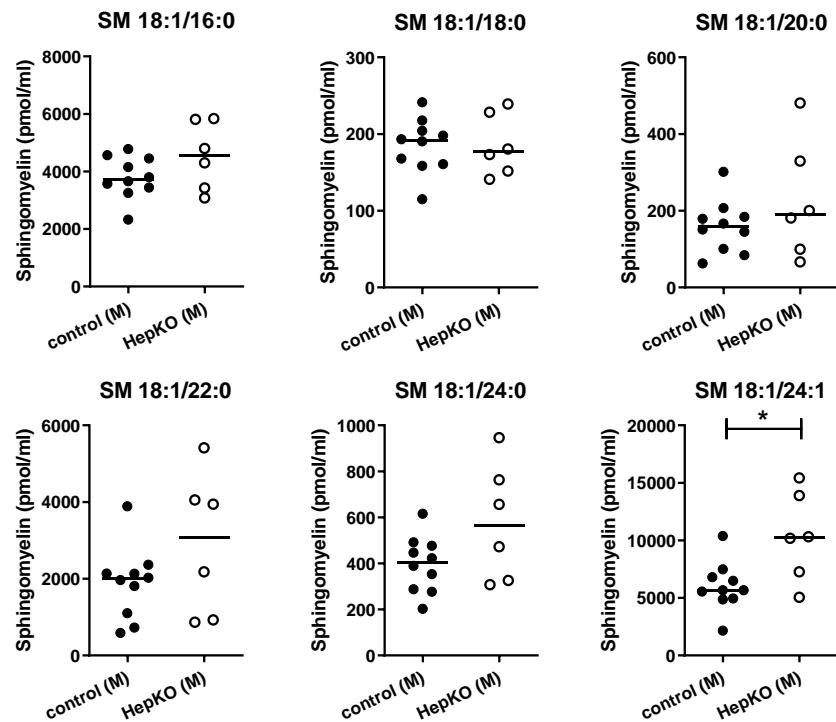
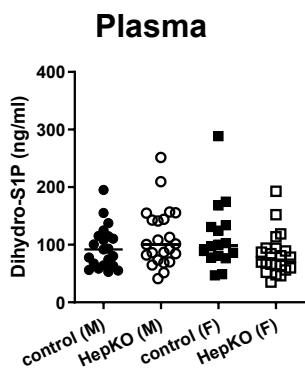
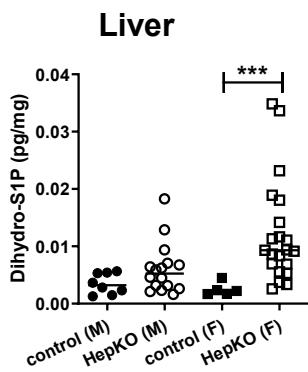
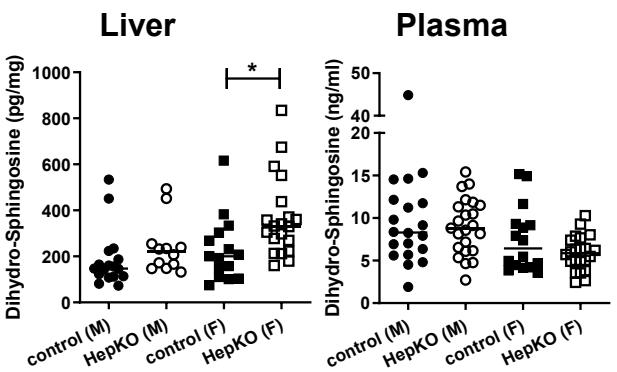


Figure S3

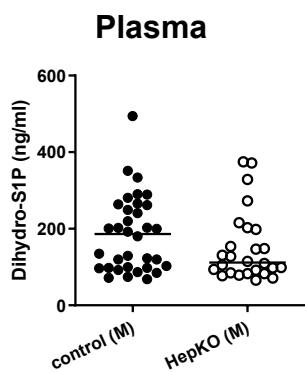
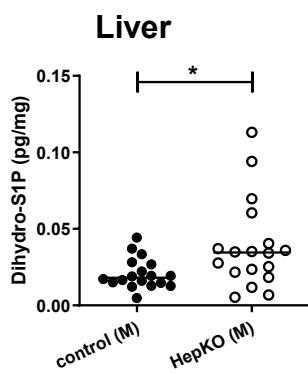
A: Dihydro-S1P, 8-week-olds



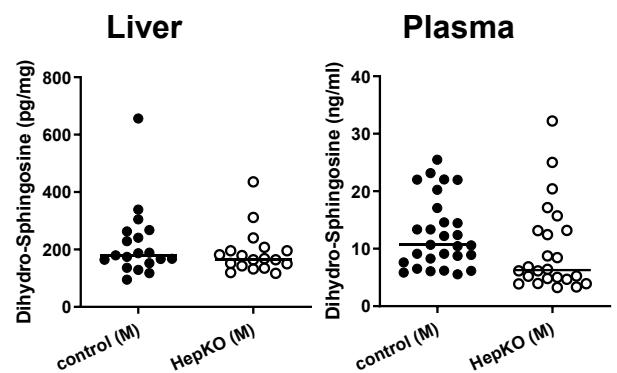
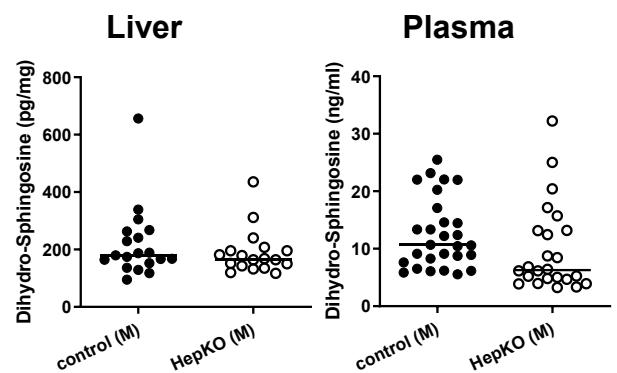
B: Dihydro-Sph, 8-week-olds



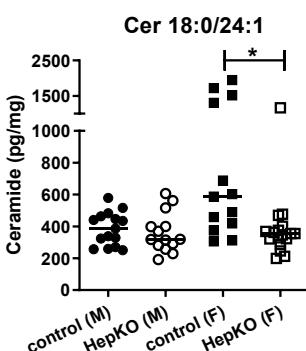
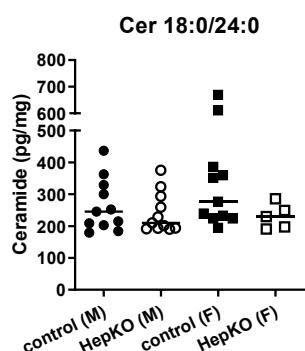
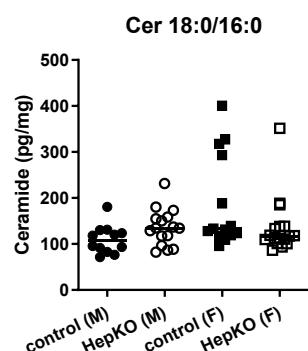
C: Dihydro-S1P, 8-month-olds



D: Dihydro-Sph, 8-month-olds



E: Dihydro-Ceramides, Liver, 8-week-olds



F: Dihydro-Ceramides, Liver, 8-month-olds

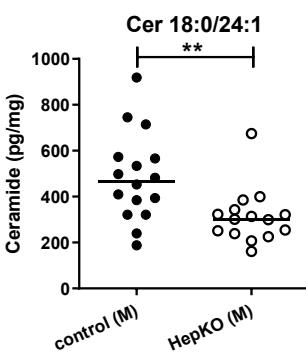
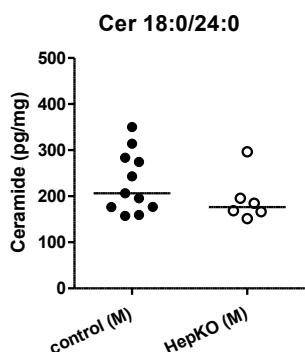
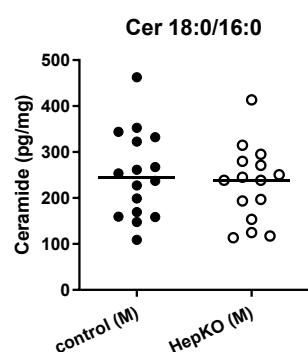


Figure S4

Ceramides in Bile, 8-month-olds

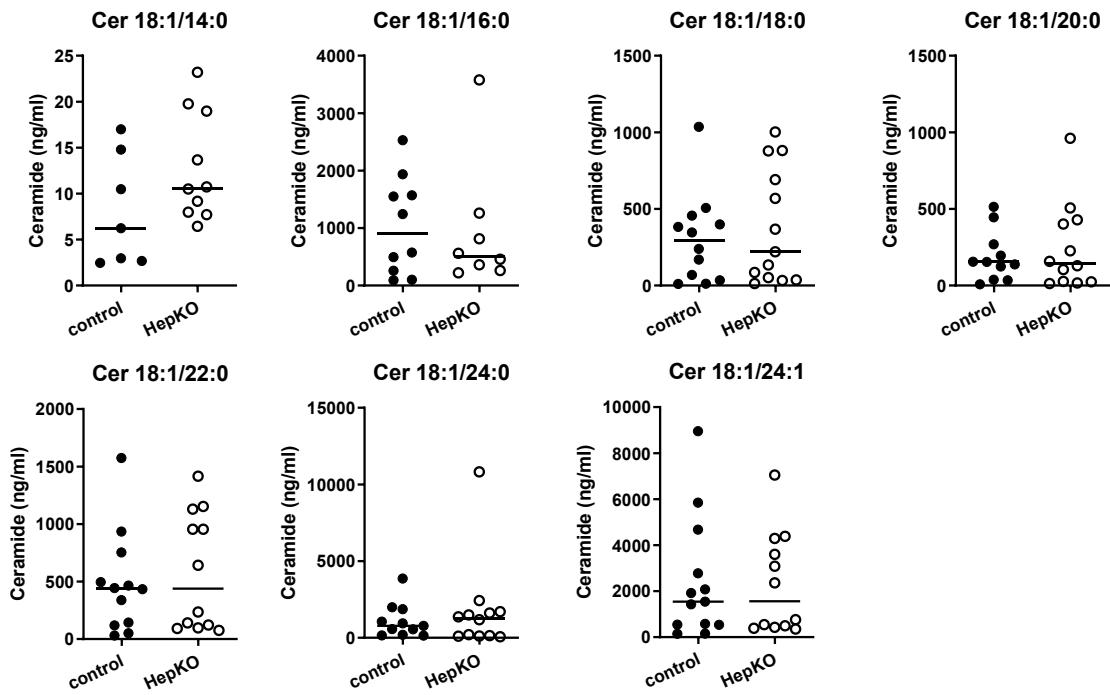


Figure S5

A: Sterols in liver, 8-month-olds

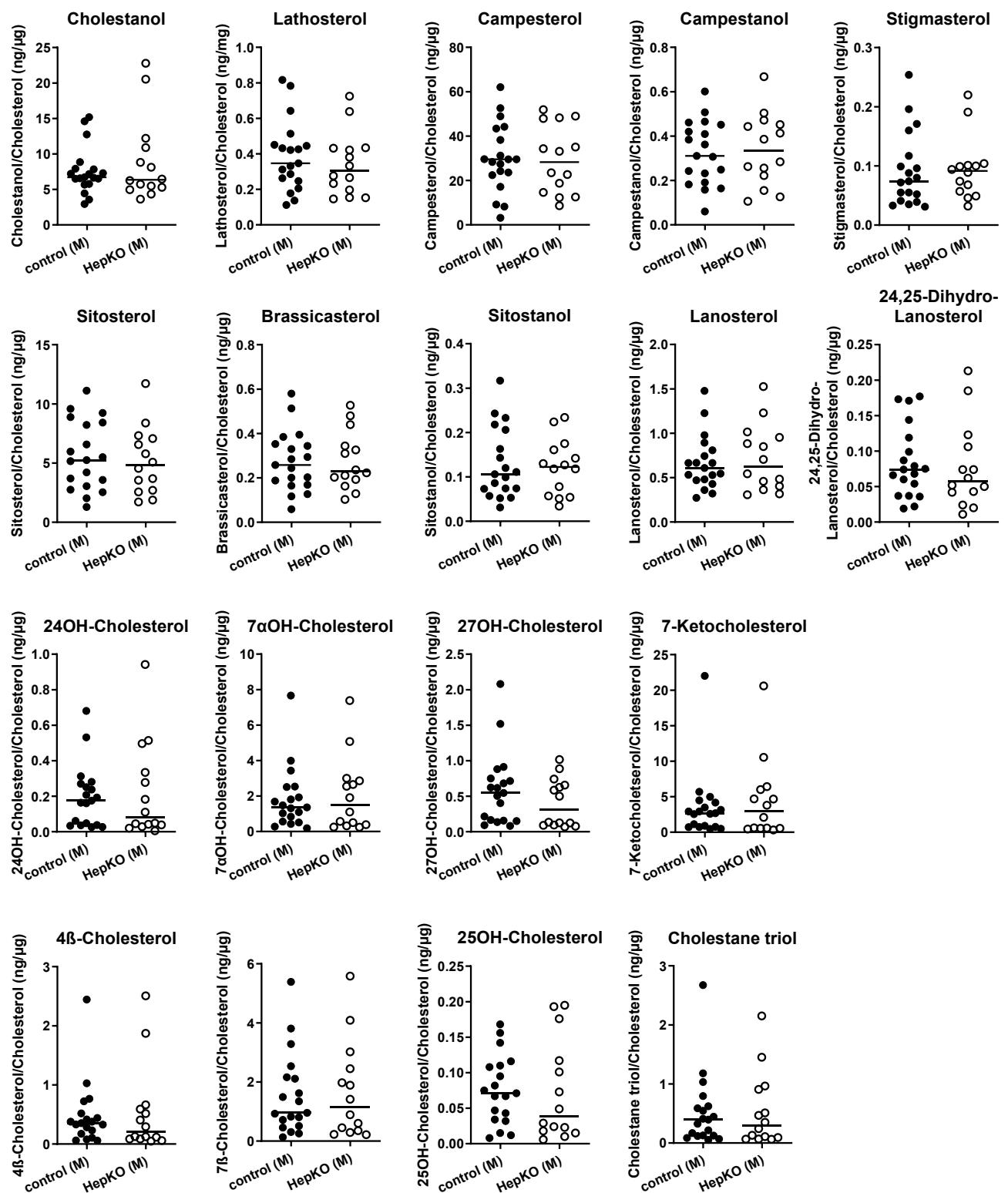


Figure S6

B: Sterols in plasma, 8-month-olds

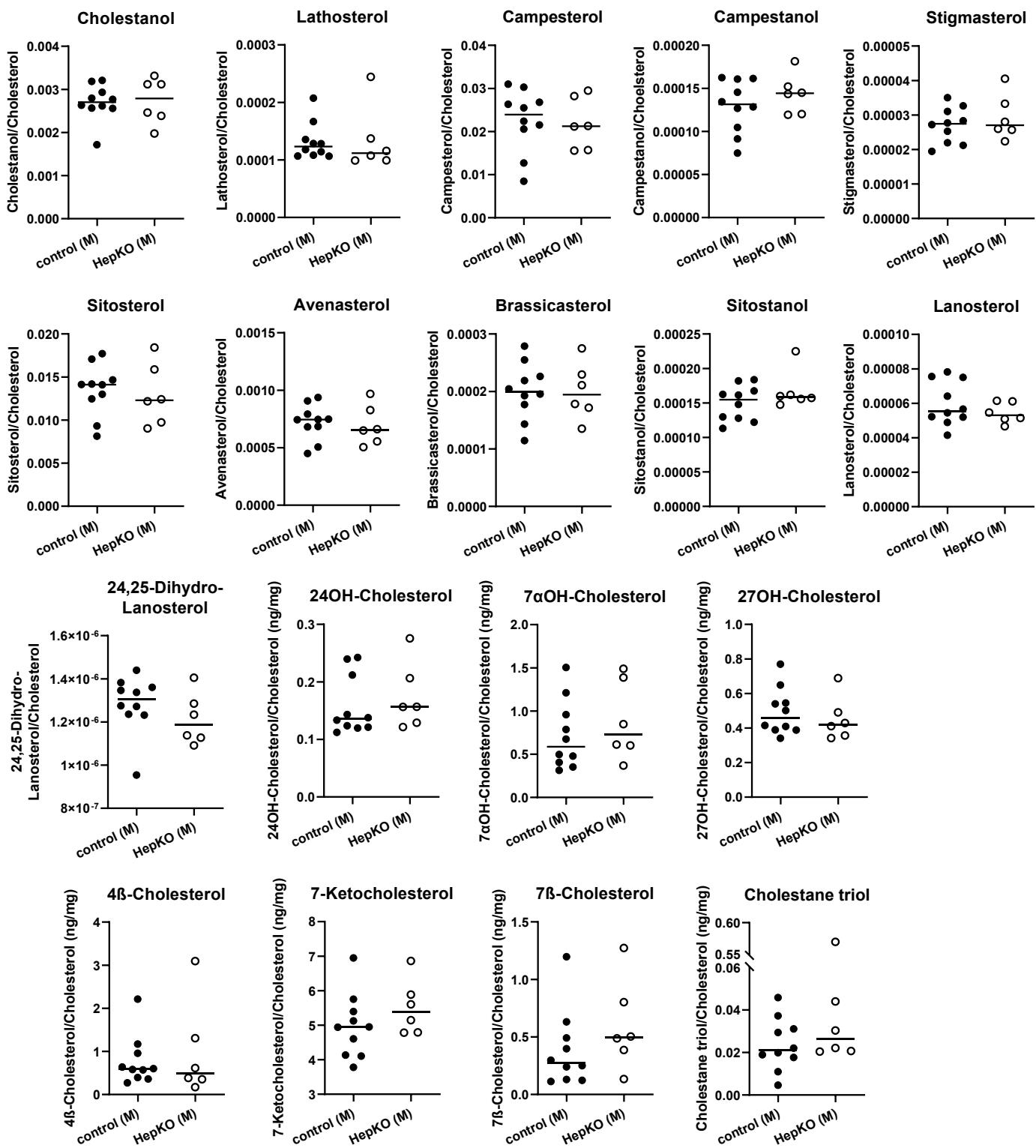


Figure S6 (cont.)