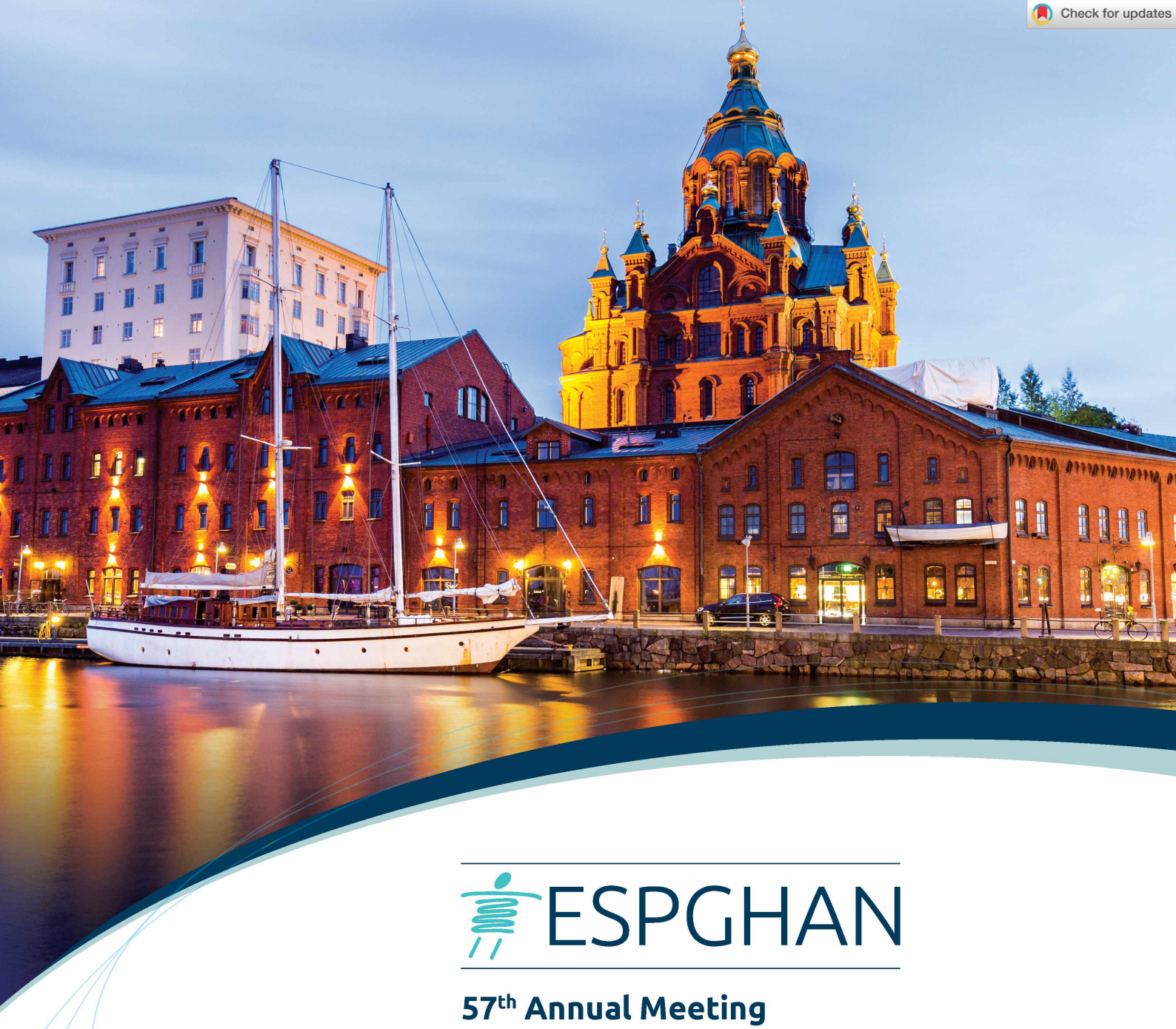

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ABSTRACTS

H-EV068

Topic: *AS02. HEPATOLOGY/AS02a. General Hepatology*

LIPID METABOLISM DISORDERS AND APOLIPROTEIN E POLYMORPHISM IN CHILDREN WITH CHOLELITHIASIS

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Objectives and Study: Relevance. The incidence of cholelithiasis in Ukraine has increased from 0.1 – 1% to 5% or more in recent years. Rising incidence of cholelithiasis in childhood is obvious, but the reasons are not clear. The genetic factors of this disease in childhood are not well understood. Study objective. To research the associations of apoliprotein E (ApoE) subclasses and parameters of lipid spectrum in children with cholelithiasis.

Methods: Materials and methods. 44 children (24 girls and 20 boys) at the age of 5 – 18 years with cholelithiasis were under supervision. The study involved patients with Stage I (n = 23) and Stage II (n = 21) cholelithiasis. Genotyping has been performed by ApoE alleles using PCR (analyzer and Termocycler test system). Lipid profile has been assessed in patients with different apoprotein E phenotypes. Statistical processing of results has been performed with use of software package “STATISTICA 6.0”.

Results: It has been found that LDL levels were significantly different in patients with E3/E4 and E4/E4 phenotype, pk-w < 0.01. VLDL levels were significantly different in patients with E3/E3 and E3/E4 phenotype (pk-w = 0.02). So, VLDL values in patients with E3/E4 phenotype were significantly higher than in patients with E3/E3 phenotype (0.89 ± 0.12 mmol/l versus 0.36 ± 0.06 mmol/l, pu <0.05). In patients with E4/E4 phenotype, AI was significantly higher (3.45 ± 0.34) than in patients with E3/E3 phenotype (2.17 ± 0.12, Pu <0.05) and E3/E4 phenotype (1.84 ± 0.24, pu <0.05).

Conclusions: Conclusion. Analysis of lipid spectrum in children with cholelithiasis and different Apo phenotypes gives an indication of genetic susceptibility to lipid metabolism disorders. Marker of increased risk for cholelithiasis development is E4/E4 phenotype.

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