



# A real world evidence perspective on the management of NAFLD patients in Russia

Real-world comorbidities and treatment patterns among patients with nonalcoholic fatty liver disease receiving phosphatidylcholine as adjunctive therapy in Russia.

Maev IV, et al.

*BMJ Open Gastro* 2019;6:e000307

# METHODOLOGY

- **An observational, multicenter study conducted in the real world<sup>1\*</sup>** (Sept 2015 – Sept 2016)
- **Main objective: Management of NAFLD in patients who received EPLs**
- **Secondary objectives: EPL safety, compliance to EPL therapy and treatment satisfaction**

\* *Real-life studies provide a **more insightful overview** of daily practice than randomized controlled trials<sup>2</sup>*

- **2,843 newly-diagnosed NAFLD patients** with at least one of the following concomitant diseases (*i.e.*, 'high-risk' patients), **components of the metabolic syndrome:**
  - High blood pressure; T2DM; High serum cholesterol; Overweight/obesity
- **Patients received:**
  - Possible comorbidity-related medications
  - EPL therapy (Essentiale® Forte N: 300 mg of EPLs) prescribed as an adjunctive treatment to standard care for 24 weeks

*Since this was an observational study, no therapeutic or diagnostic intervention was performed in the frame of the study*

1. Maev IV, et al. Real-world comorbidities and treatment patterns among patients with nonalcoholic fatty liver disease receiving phosphatidylcholine as adjunctive therapy in Russia. *BMJ Open Gastro* 2019;6:e000307

2. Harari S. Randomised controlled trials and real-life studies: two answers for one question. *Eur Respir Rev* 2018; 27:180080

NAFLD: Non-alcoholic fatty liver disease; T2DM: Type 2 diabetes mellitus; EPLs: Essential phospholipids

# RESULTS

**79.6% of NAFLD patients had at least 2 metabolic comorbidities**

- **Obesity and hypercholesterolemia** were the most common comorbidities
- A majority of patients were **asymptomatic**
- **Hepatomegaly** was detected in **64.2% (1774/2843)** of NAFLD patients

| Baseline characteristic                                   | Study population (N=2843)    |
|---|------------------------------|
| Mean ± SD age (median; IQR), years                        | 48.7±8.6 (50.7; 43.6–55.6)   |
| Male/female, n (%)  | 1076 (37.8)/1767 (62.2)      |
| Mean ± SD weight (median; IQR), kg                        | 91.0±14.1 (90.0; 82.0–99.5)  |
| Mean ± SD BMI (median; IQR), kg/m <sup>2</sup>            | 32.0±4.6 (31.8; 29.2–34.6)   |
| Mean ± SD waist circumference (median; IQR), cm           | 98.4±12.4 (98.0; 90.0–105.0) |
| Comorbid condition  |                              |
| <b>According to the nature of the comorbidity, n (%)*</b> |                              |
| Hypertension  | 1642 (57.8)                  |
| Overweight/obesity  | 2298 (80.8)                  |
| Elevated cholesterol                                      | 2122 (74.6)                  |
| T2DM†   | 477 (16.8)                   |
| <b>According to the number of comorbidities, n (%)</b>    |                              |
| 1   | 580 (20.4)                   |
| 2   | 1112 (39.1)                  |
| 3   | 869 (30.6)                   |
| 4   | 282 (9.9)                    |

\*Patients may have more than one comorbid condition. † In this study, mean ± SD hemoglobin A1c level at baseline was 6.1%±1.4% (this parameter was available in 843 subjects).

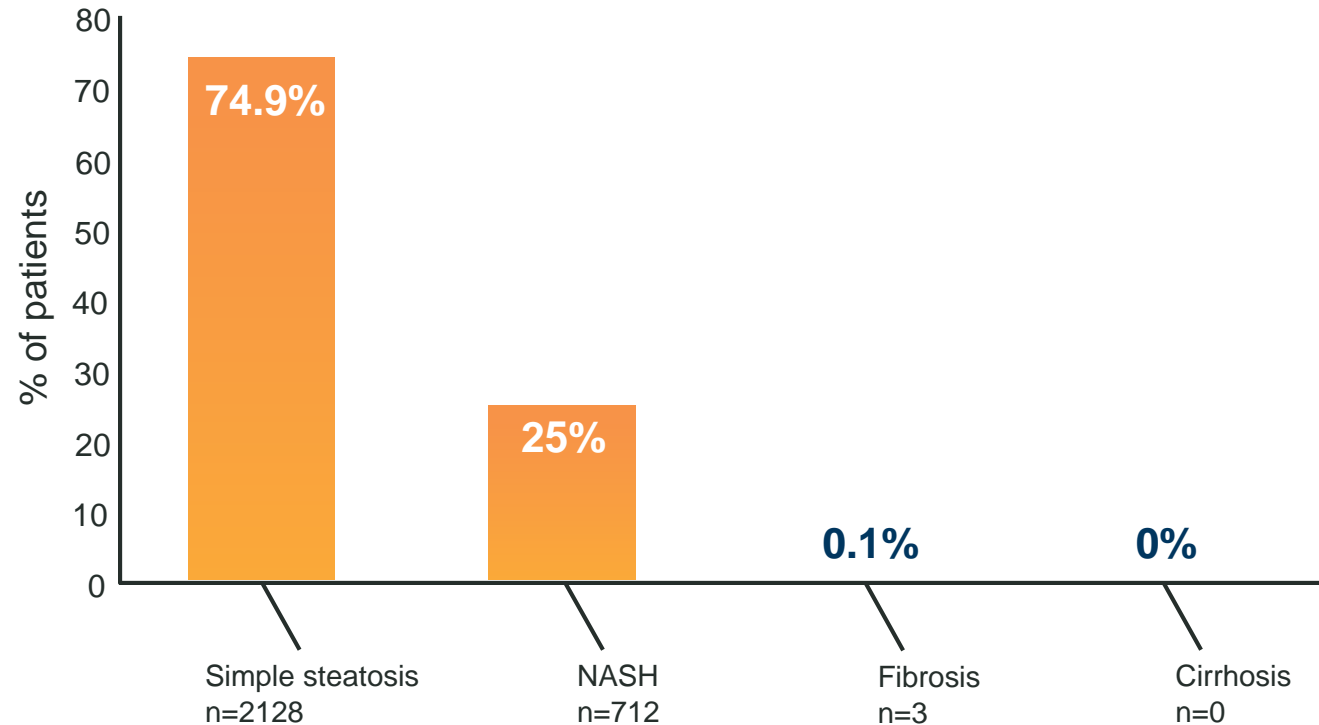
**BMI:** body mass index; **IQR:** interquartile range; **SD:** standard deviation; **T2DM:** type 2 diabetes mellitus.

# RESULTS

EPLs were **used early** (from simple steatosis) and **maintained long term**

- **Simple steatosis** was the most frequent clinical form of NAFLD in patients who received EPLs

## CLINICAL FORMS OF NAFLD (% OF PATIENTS)

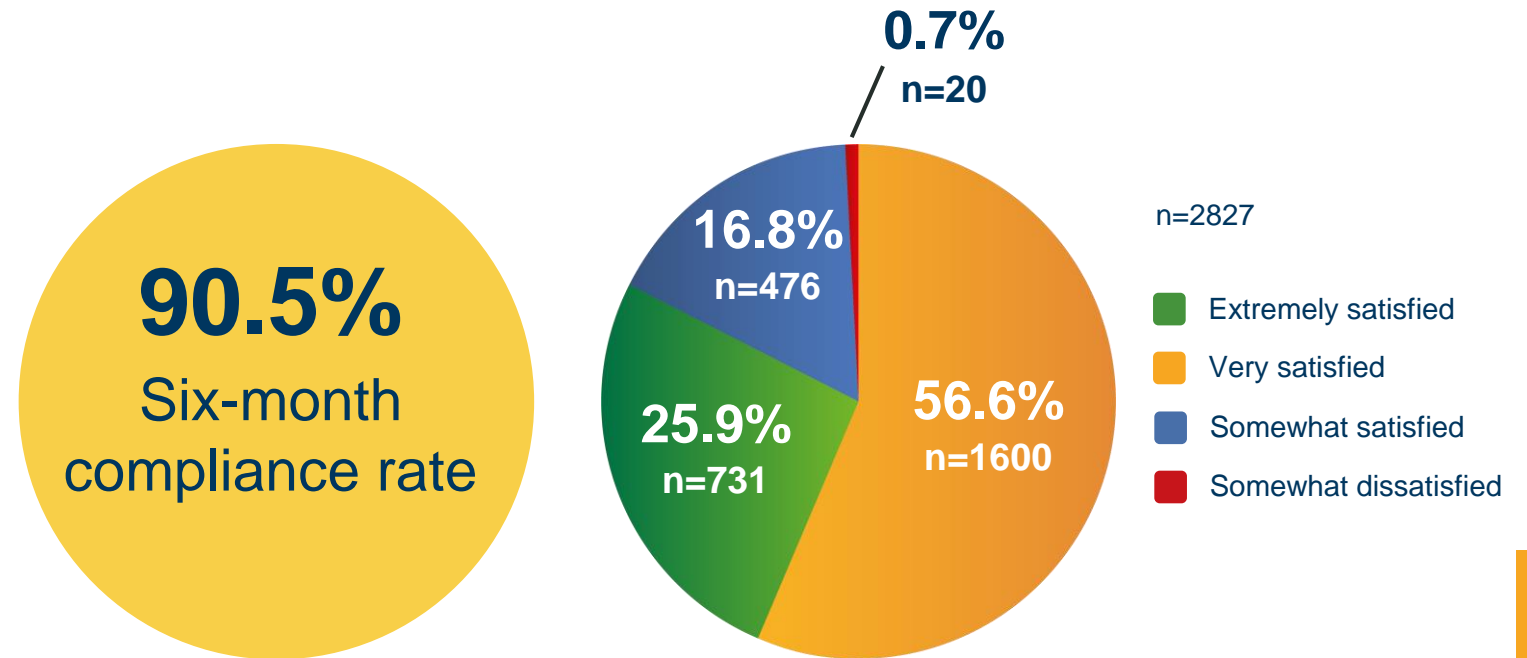


# RESULTS

EPLs were associated with a **high-rate compliance** and **high satisfaction** among patients and their physicians

- EPLs showed a **good safety profile**, and **no adverse events/severe adverse events** were reported during the study period

## COMPLIANCE AND PATIENT SATISFACTION WITH EPL THERAPY



# CONCLUSION

## LIVER PROTECTION WITH EPLs HAS A MAIN ROLE IN THE MANAGEMENT OF NAFLD

**Essentiale<sup>®</sup>** with EPLs

The world's number 1 OTC liver & bile remedy\*

Ultrasonographic improvements<sup>2,3</sup>

Superior ALT and AST reduction<sup>3,4</sup>

Reduction in symptom incidence<sup>5</sup>

- In Russia NAFLD patients are heavily burdened by metabolic comorbidities, mainly obesity and hypercholesterolemia<sup>1</sup>
- EPLs are used early, and the vast majority of NAFLD patients treated with EPLs have simple steatosis<sup>1</sup>
- EPL use is associated with high levels of treatment compliance and satisfaction, and a very good safety profile<sup>1</sup>

1. Maev IV, et al. Real-world comorbidities and treatment patterns among patients with nonalcoholic fatty liver disease receiving phosphatidylcholine as adjunctive therapy in Russia. *BMJ Open Gastro* 2019;6:e000307. 2. Yin D, Kong L. Observation for curative effects of Essentiale<sup>®</sup> in treatment of fatty liver caused by diabetes mellitus. *Med J Qilu* 2000;15:277-8. 3. Sas E, et al. Beneficial influence of polyunsaturated phosphatidylcholine enhances functional liver condition and liver structure in patients with nonalcoholic steatohepatitis. Results of prolonged randomized blinded prospective clinical study. *J Hepatol* 2013;58:S549-S566. 4. Liang H. Discussion of treatment of fatty liver using polyene phosphatidyl choline capsules. *Chin Med Factory Mine* 2006;19(3):207-208. 5. Dajani A, et al. Essential phospholipids as a supportive adjunct in the management of patients with NAFLD. *Arab J Gastroenterol* 2015;16: 99-104. \* from Nicholas Hall's global OTC database 2018, DB