



# **Clinical Study Protocol**

## **SASL 34**

# TREATMENT OF NON-ALCOHOLIC STEATOHEPATITIS (NASH) PATIENTS WITH VITAMIN D [TopSIDe Study] –

A randomized, double blind, placebo-controlled multicenter phase II trial in patients with fatty liver disease

Sponsor-Investigator and

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Study Product: Vitamin D3 (Burgerstein Vitamine)

Amended Protocol: Version 4.0, date 16.10.2012

(Includes: Amendment 1: 16.10.2012)

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# **STUDY SYNOPSIS**

Sponsor- Investigator	Prof. Dr. med. Andreas Geier, UniversitätsSpital Zürich
Study Title:	Treatment of non-alcoholic steatohepatitis (NASH) patients with vitamin D
Short Title/ Study ID:	TopSIDe Study SASL 34
Protocol Version and Date:	Version 4, 16.10.2012
Clinical Phase:	Phase 2
Methodology:	randomized, doubleblind, placebo-controlled, multicenter
Study Duration:	73 weeks (1 week Screening, 48 weeks treatment period, 24 weeks Follow-up)
Study Center(s):	Multicenter study - The study will be conducted in about 7 Swiss centers (in the German, French and Italian part of Switzerland)
Main Principal Investigator(s):	Prof. Dr. Jean-Francois Dufour, Inselspital Bern Prof. Dr. Beat Müllhaupt, UniversitätsSpital Zürich
Laboratory Investigator(s):	Prof. Dr. med. Arnold von Eckardstein, Zürich (Clinical Chemistry) Prof. Dr. med. Heike Bischoff-Ferrari, Zürich (Vitamin D Physiology) Dr. med. Oliver Tschopp, Zürich (Endocrinology & Diabetology) Dr. med. E. Marques Maggio, Zürich (Pathology)
Statistician:	Prof. Dr. B. Seifert, Zürich (Biostatistics)
Objective(s)/ Outcome(s):	To test the efficacy of vitamin D to improve non-alcoholic steatohepatitis with regard to biochemical and histological parameters
Number of Subjects:	60 patients, 30 patients for each treatment group (30 patients Vitamin D3, 30 patients placebo)
Diagnosis and Main Inclusion Criteria:	Patients with 25-OH vitamin D insufficiency, elevated alanine aminotransferase level and a diagnosis of definite or possible steatohepatitis (NASH) from a liver biopsy, obtained within 12 months preceding entry
Main Exclusion Criteria:	Cirrhosis, present liver disease other than NASH, serious diseases limiting life expectancy, breast-feeding or pregnant women, unhealthy alcohol consumption, drug abuse or substitution therapy, regular use of vitamin preparations within the previous 6 months and during the study, weight loss >5% within 12 months before study entry, newly diagnosed Diabetes mellitus requiring medical treatment within 12 months before study entry, use of anti-obesity drugs, previous or current hypercalcemia, chronic renal disease
Study Product, Dose, Route, Regimen:	Vitamin D3 (Burgerstein Vitamine) 2.100 IU (7 tablets), oral administration
Duration of administration:	48 weeks treatment period
Reference therapy, Dose, Route, Regimen:	Placebo (7 tablets), oral administration

Study Schedule:	First-Subject-In April 2012 (planned) Last-Subject-Out October 2015 (planned)
Statistical Methodology:	Comparison of group characteristics at entry: Mann-Whitney U test and Chi² or Fisher`s exact test.  Effect on serum alanine aminotransferase level [primary end point]: Unpaired t-test.  Comparison of changes in histological steatosis, changes in the NASH activity score (NAS) and individual component scores of the NAS (steatosis, lobular inflammation, ballooning, fibrosis) [secondary end points]: Mann-Whitney U test.
GCP Statement:	This study will be conducted in compliance with the protocol, the current version of the Declaration of Helsinki, and ICH-GCP as well as all national legal and regulatory requirements. The study will also follow the respective SAMW Guideline regarding the collection of human biological material (Biobanking).