



OTTO VON GUERICKE  
UNIVERSITÄT  
MAGDEBURG



**MEDIZINISCHE  
FAKULTÄT**

Medizinische Fakultät, Leipziger Str. 44, 39120 Magdeburg

*World Journal of Gastroenterology*  
Editor-in-Chief

**Klinik für Gastroenterologie,  
Hepatologie und Infektiologie**  
Direktor: Prof. Dr. med. Ali Canbay

**PD Dr. med. Alexander Link**

Leiter des Forschungslabors/Head of GI  
Research Laboratory

Otto-von-Guericke-Universität  
Medizinische Fakultät  
Leipziger Str. 44  
39120 Magdeburg

Telefon: +49 391 67-13745  
Telefax: +49 391 67-13105

alexander.link@med.ovgu.de  
[www.med.uni-magdeburg.de](http://www.med.uni-magdeburg.de)

Ihre Zeichen, Ihre Nachricht vom:

Unsere Zeichen:  
AL

Durchwahl:  
+49391-6713745

Datum:  
20.08.2019

### **Biostatistics statement**

Authors of the manuscript have a long-standing research experience with sufficient training and skills in Biostatistics, which is necessary for the high-quality analysis in this work.

GraphPad Prism Version 6.0 (GraphPad Software, San Diego, California, USA) was used for statistical analysis. Two-sided p value  $\leq 0.05$  was considered as significant. Based on the data distribution, we used nonparametric tests (Spearman correlation, Mann-Whitney test, Kruskal-Wallis test, Post-hoc Dunn's test). The data are shown as boxplots with whiskers for the minimum and maximum, a lower and upper quartile and the median. Prognosis was analyzed using Kaplan-Meier survival curves and comparison was performed using nonparametric log-rank test.