Statistical analysis:

All data were tabulated and processed with SPSS software (Statistical Product and Service Solutions, version 21, SSPS Inc, Chicago, IL, USA) and Windows XP (Microsoft Corporation, Redmond, Washington, USA). Categorical variables were expressed in frequency and percentage and analyzed with the chi-square and Fisher exact tests. Continuous variables were expressed as the mean and standard deviation and were compared with the t and Mann whitteny tests. The preoperative, intraoperative and postoperative variables were descriptively studied. We compared between patients with and without SFSS regarding the pre and intra operative variables using univariate analysis and then multivariate analysis. Furthermore their outcome as well as cause of death was compared using univariate analysis. On the other hand, Kaplan–Meier method was applied for survival analysis and compared using log-rank tests. In all tests, a P value of <0.05 was considered significant. The statistics were done by the corresponding author and revised by the statistical department of our national liver institute, Menoufiya university.

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