

Inclusion Criteria	The biliary diseases in the elderly patients were definitely diagnosed. According to the surgical indications or contraindications, the patients were randomly assigned to the surgical group and the non-surgical group.
Exclusion Criteria	The patients were voluntarily discharged from hospital, because of refusing to cooperate with group therapy.
Intervention(s) - please describe in detail	<p>According to the individual patient's status, the appropriate surgical procedures were selected, such as pancreaticoduodenectomy, radical resection of hilar cholangio- carcinoma, laparoscopic cholecystectomy (LC) etc.</p> <p>Non-operation treatment strategy includes, but is not limits to, anti-infection, symptomatic and supportive treatments.</p>
Control or Comparator(s)	SPSS 18.0
Primary Outcome(s)	The average age of 289 patients with biliary diseases was 73.9±8.5 (60-102) years old. There were 131 (45.3%) cases with one type of 10 different biliary diseases, such as gallbladder stones, common bile duct stones, and cholangiocarcinoma. The remaining cases (54.7%) had two types of biliary diseases. 173 cases underwent 9 different surgical treatments, including pancreaticoduodenectomy, radical resection of hilar cholangiocarcinoma, laparoscopic cholecystectomy among others. Ten postoperative complications developed with the incidence of 39.3% (68/173). The highest incidence was hypopotassemia in 33.8% (23/68), followed by hypoalbuminemia in 22.1% (15/68), and pulmonary infection in 19.1% (13/68). 116 cases underwent non-operative treatment, including anti-infection, symptomatic and supportive treatments. The cure rate was 97.1% (168/173) in the surgical group, and 87.1% (101/116) in the non-surgical group. There was a significant difference between the two groups ($\chi^2=17.227$, $p<0.05$).
Key Secondary Outcomes	77.2% (223/289) patients were found to have 1-6 types of 13 various coexisting diseases, which include hypertension, coronary heart disease and diabetes.
Target Sample Size	289 elderly patients over 60 years of age
Recruitment Status	Enrolment completed
Other Recruitment Status	
Date of First Enrolment	June 05, 2013
Date Enrolment Expected to Complete or Completed	December 31, 2016
Date research expected to be completed (or date completed if already done so)	December 31, 2016
IRB or Ethical Committee Judgement	
Ethical Approval	Granted
Ethical Approval Details - judgement Date and Reference/If not needed - why not?	The study has been approved by the ethics committee of Beijing Electric Power Hospital, Capital Medical University.
Source(s) of Monetary or Material Support	This work was financially supported by the Science and Technology Project of State Grid Corporation of China (5GJH000004GJ1400182)
Research Study Website	