

Supplementary Table 1. The details of the rescue methods

No.	Rescue methods and the presence of success				Result
	1st	2nd	3rd	4th	
1	Changing guidewire: no	Uneven method: no	Re-puncture: no		Unsuccess
2	Changing guidewire: yes				Success
3	Changing guidewire: no	Uneven method: yes			Success
4	Liver impaction: yes				Success
5	Re-puncture: no				Unsuccess
6	Changing guidewire: no	Uneven method: no	Re-puncture: yes		Success
7	Changing guidewire: no	Uneven method: yes			Success
8	Liver impaction: no	Re-puncture: yes			Success
9	Changing guidewire: no	Liver impaction: no	Uneven method: no	Re-puncture: yes	Success
10	Uneven method: yes				Success
11	Liver impaction: no	Uneven method: yes			Success
12	Liver impaction: yes				Success
13	Liver impaction: no	Re-puncture: yes			Success
14	Changing guidewire: no	Uneven method: yes			Success
15	Uneven method: no	Re-puncture: yes			Success
16	Liver impaction: no	Changing guidewire: no	Uneven method: yes		Success
17	Liver impaction: no	Changing guidewire: no	Re-puncture: no		Unsuccess
18	Changing guidewire: no	Re-puncture: yes			Success
19	Liver impaction: no	Uneven method: no	Balloon method: yes		Success
20	Changing guidewire: no	Liver impaction: yes			Success
21	Liver impaction: no	Uneven method: no	Re-puncture: no	Balloon method: yes	Success
22	Changing guidewire: no	Uneven method: no	Re-puncture: no		Unsuccess
23	Changing guidewire: no	Uneven method: yes			Success
24	Changing guidewire: no	Uneven method: no	Re-puncture: yes		Success
25	Changing guidewire: yes				Success
26	Uneven method: yes				Success
27	Changing guidewire: no	Uneven method: no	Re-puncture: yes		Success
28	Changing guidewire: no	Uneven method: no	Re-puncture: yes		Success
Success rate (% , <i>n</i> / total <i>n</i>)	21.4 (6/28)	47.6 (10/21)	54.5 (6/11)	100 (2/2)	