

Table S1. Baseline characteristics.

		Population
Age (median, Q1-Q3)		57 (48–64)
Sex	male	10.2% (49/480)
	female	89.8% (431/480)
PBC Diagnosis	serological	73.5% (353/480)
	serological + histological	26.5% (127/480)
Autoantibodies	AMA	86.9% (399/459)
	ANA	43.1% (160/371)
	sp100 ¹	25% (28/112)
	gp210 ²	20% (2/10)

anti-sp100 antibody (sp100 is a nuclear antigen); gp210: Anti-glycoprotein-210 antibody.

Table S2. UK-PBC-Risk-Score in relation to 12 months UDCA treatment response.

UK-PBC Risk Score	<i>n</i>	5 years (%)	10 years (%)	15 years (%)	<i>p</i>	
Total	64	1.26 ± 1.23	4.09 ± 3.84	7.35 ± 6.59		
Paris I	Nonresponder	7	3.29 ± 2.17	10.46 ± 6.60	18.28 ± 10.98	0.015
	Responder	57	1.01 ± 0.78	3.30 ± 2.48	6.01 ± 4.39	
Paris II	Nonresponder	20	1.70 ± 1.57	5.49 ± 4.84	9.80 ± 8.17	0.038
	Responder	44	1.05 ± 0.99	3.45 ± 3.14	6.24 ± 5.49	
Barcelona	Nonresponder	19	1.37 ± 1.14	4.47 ± 3.64	8.06 ± 6.38	0.423
	Responder	45	1.21 ± 1.27	3.93 ± 3.94	7.06 ± 6.73	

Table S3. Treatment response before and after 12 months of second line therapy in detail.

Response Criteria at 12 Months of UDCA ¹	Before Increase of UDCA	12 Months after UDCA Increase	<i>p</i>	Before Add-on Therapy with Bezafibrate	12 Months after Add-On Therapy with Bezafibrate	<i>p</i>	Before Add-On Therapy with Glucocorticoids	12 Months After add-On therapy with Glucocorticoids	<i>p</i>	Before Add-On Therapy with Obeticholic Acid	12 Months After Add-On Therapy with Obeticholic Acid	<i>p</i>	No Change in Therapy Management	12 Months After Remaining in Therapy	<i>p</i>
Paris-I ALP ² < 3 x ULN ³ + AST ⁴ < 2 x ULN + Bilirubin ≤ 1mg/dL	90% (9/10)	87.5% (7/8)	1.000	90.5% (19/21)	100% (19/19)	0.489	40% (2/5)	40% (2/5)	1.000	50% (4/8)	50% (2/4)	1.000	79.2% (19/24)	85% (17/20)	0.710
Paris-II ALP < 1.5 x ULN + AST < 1.5 x ULN + Bilirubin ≤ 1mg/dL	40% (4/10)	50% (4/8)	1.000	23.8% (5/21)	73.7% (14/19)	0.004	20% (1/5)	40% (2/5)	1.000	12.5% (1/8)	25% (1/4)	1.000	58.3% (14/24)	70% (14/20)	0.534
Barcelona ALP ≤ 1 x ULN or reduction of ALP > 40%	20% (7/35)	19% (6/31)	1.000	50% (11/22)	84,2% (16/19)	0.046	0% (0/6)	20% (1/5)	0.455	12.5% (1/8)	0% (0/7)	1.000	51.8% (14/27)	28% (7/25)	0,097
ALP ≤ 1.67 x ULN + Bilirubin ≤ 1 x ULN	74.2% (23/31)	69.2% (18/26)	0.771	33.3% (7/21)	85,7% (18/21)	0.001	16.7% (1/6)	40% (2/5)	0.546	12.5% (1/8)	33,3% (2/6)	0.539	59.3% (16/27)	87,5% (21/24)	0.031
ALP ≤ 1.67 x ULN + Bilirubin ≤ 1 x ULN	74,3% (26/35)	74.1% (23/31)	1.000	31,8% (7/22)	81% (17/21)	0.002	16,7% (1/6)	40% (2/5)	0.546	12,5% (1/8)	16,7% (1/6)	1.000	71,1% (19/28)	92,3% (24/26)	0.041
Bilirubin ≤ 1 x ULN	96.8% (30/31)	92.3% (24/26)	0.587	100% (23/23)	95,5% (21/22)	0.489	50% (3/6)	60% (3/5)	1.000	87.5% (7/8)	80% (4/5)	1.000	92.6% (25/27)	77,8% (21/27)	0.250

1: ursodeoxycholic acid (UDCA); 2: alkaline phosphatase (ALP); 3: upper limit of normal (ULN); 4: aspartataminotransferase (AST).

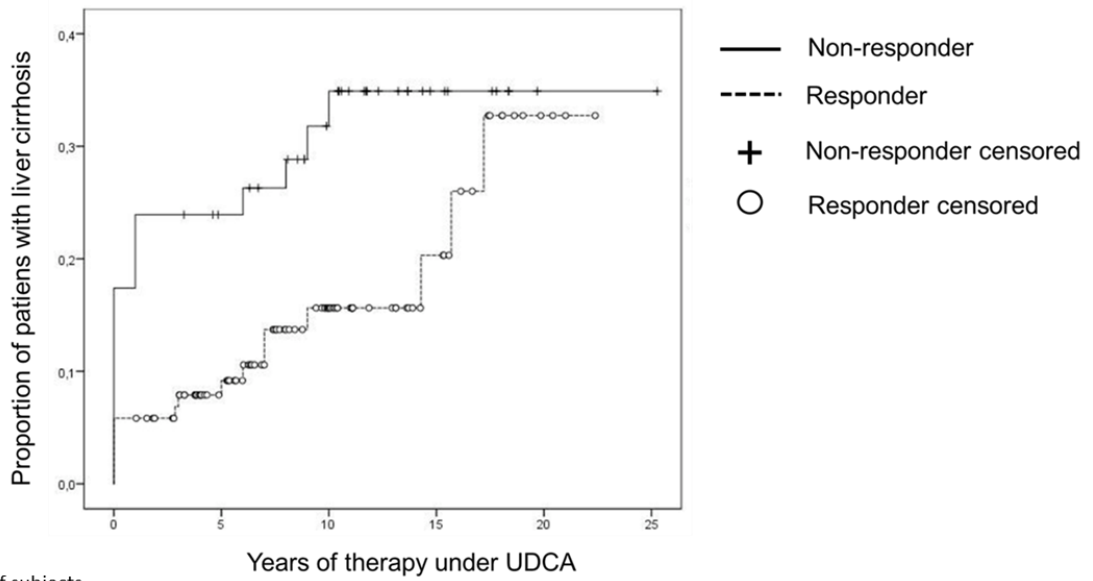


Figure S1. Development of liver cirrhosis in relation to 12 months UDCA treatment response. Kaplan-Meier analysis illustrating the relationship between 1-year response to therapy according to Paris-II criteria and the time of diagnosing liver cirrhosis after initiation of therapy. The proportion of patients who developed liver cirrhosis over time was increased in the group of patients with an inadequate 1-year response to UDCA (log rank: $p = 0.043$; HR: 2.3 (1.12, 4.81)).