

**Supplementary table 1:** Demographics and clinical characteristics of the validation cohort comparing patients with suppressed vitamin a and normal vitamin a.

Parameter	Total Cohort (N = 44)	Suppressed Vitamin A (N = 21)	Normal Vitamin A (N = 23)	P Value
Age (years) MEDIAN; IQR	62 (53; 67)	59 (52; 64)	64 (54; 69)	0.16
CHILD PUGH * Stadium A (N; %)	15 (34%)	6 (29%)	9 (39%)	0.19
* Stadium B (N; %)	16 (36%)	7 (33%)	9 (39%)	
* Stadium C (N; %)	12 (27%)	8 (38%)	4 (17%)	
MELD MEDIAN; IQR	13 (9; 18)	14 (10; 18)	12 (7; 17)	0.32
Hemoglobin (g/dl) MEDIAN; IQR	12.6 (10.5; 14)	11.2 (8.5; 13.4)	12.7 (11; 14)	0.1
Platelets (/nl) MEDIAN; IQR	139 (92; 211)	103 (84; 170)	175 (124; 244)	0.01
White blood cells (/nl) MEDIAN; IQR	7.3 (5.3; 10)	6.41 (4.3; 10.5)	7.66 (6; 10)	0.44
ALT (U/l) MEDIAN; IQR	33 (22; 64)	29.5 (25; 53)	45 (21; 77)	0.18
AST (U/l) MEDIAN; IQR	58 (33; 130)	65 (44; 112)	57 (31; 137)	0.7
yGT (U/l) MEDIAN; IQR	155 (61; 242)	170 (68; 244)	151 (53; 236)	0.5
Alkaline Phosphatase (U/l) MEDIAN; IQR	133 (95; 168)	153 (120; 175)	109 (82; 167)	0.5
Bilirubin (mg/dl) MEDIAN; IQR	2.2 (1.15; 4)	3.37 (1.47; 4.42)	1.42 (1; 3)	0.6

Albumin (g/l) MEDIAN; IQR	32 (28; 38)	29 (25; 32)	38 (33; 43)	< 0.001
INR MEDIAN; IQR	1.3 (1.13; 1.47)	1.41 (1.16; 1.57)	1.21 (1; 1.3)	0.05
Creatinine (mg/dl) MEDIAN; IQR	0.9 (0.71; 1.23)	0.88 (0.69; 1.21)	0.96 (0.76; 1.54)	0.3
CRP (mg/dl) MEDIAN; IQR	10 (3.5; 19)	9 (3.1; 16.1)	16 (4.8; 40.1)	0.48
Ascites (N; %)	29 (66%)	16 (76%)	13 (57%)	0.18
Hepatic Encephalopathy (N; %)	8 (18%)	6 (29%)	2 (9%)	0.03
Hepatorenal Syndrome (N; %)	5 (11%)	2 (10%)	3 (13%)	0.72
Esophageal varices bleeding (N; %)	4 (9%)	4 (19%)	0 (0%)	0.03

Data are expressed as medians and frequencies and percentages.

Abbreviations: IQR: interquartile range; WBC: white blood cells; MELD: model of end-stage liver disease; INR: international normalized ratio