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MEETING SUMMARY EASL 2017, AMSTERDAM, THE NETHERLANDS APRIL 19TH TO 23RD 2017

DR CATHERINE FRENETTE MEDICAL DIRECTOR OF LIVER TRANSPLANT DIRECTOR HEPATOCELLULAR CARCINOMA PROGRAM SCRIPPS GREEN HOSPITAL, LA JOLLA, CA, USA

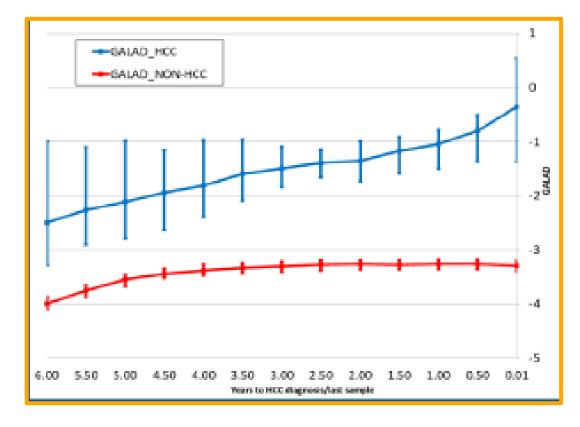
PATIENT STRATIFICATION AND MULTI DISCIPLINARY APPROACH FOR PATIENTS WITH HEPATOCELLULAR CARCINOMA (HCC) SERIAL CHANGES IN SERUM BIOMARKERS (GALAD MODEL) PRIOR TO DETECTION OF HCC BY ULTRASOUND SURVEILLANCE; APPLICATION OF STATISTICAL PROCESS CONTROL METHODOLOGY

Berhane et al.



GALAD SCORE TREND UNTIL DATE OF DIAGNOSIS OR LAST SAMPLE FOR THE HCC AND NON-HCC GROUPS





Note that the GALAD score

- Is higher in the HCC group
- Remained largely unchanged in the non-HCC group
- By comparison, there was a steady rise in the GALAD score in the HCC group

GALAD SCORE



Gender:	FemaleMale			Re
Age:	60	ye	ars	GA
AFP:	3.5	ng	/mL	2. Pro
AFP-L3%:	23	%		94
DCP:	425	ng	/mL	Thi dep of t
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				The dev 499 HC
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Results
GALAD Score
2.68
Probability of HCC
94%
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This probability estimate is dependent on the prevalence of the disease (HCC) within the specific population.

The GALAD model was developed in a cohort where 49% of the population had HCC.

According to Mayo Clinic internal data, a GALAD score of 1.17 is a cutoff providing 98% specificity and 63% sensitivity. Z = -10.08 + 1.67 x [Gender/Sex] + 0.09 x [Age] + 0.04 x [AFP-L3] + 2.34 x log[AFP] + 1.33 x log[DCP]

Sex = 1 (Males) or 0 (Females)

http://www.mayoclinic.org/medical -professionals/model-end-stageliver-disease

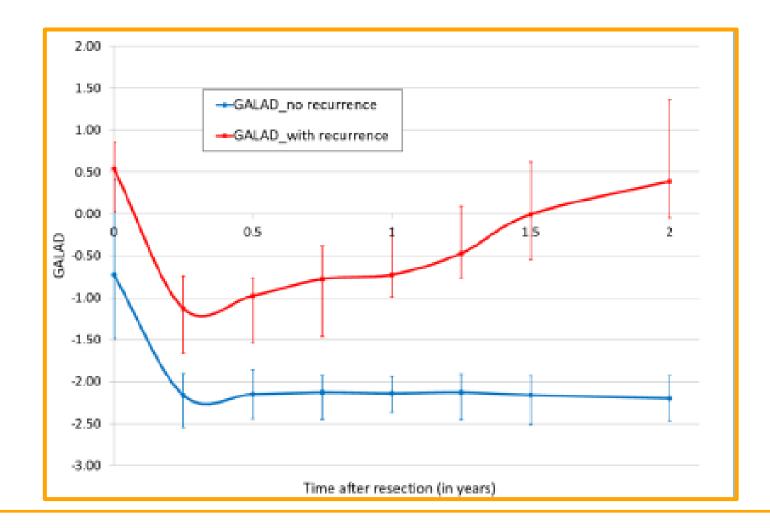
SERUM BIOMARKER ('GALAD') RESPONSE AFTER RESECTION OF HCC: IMPACT ON TUMOUR RECURRENCE

Johnson et al.



GALAD SCORE WAS SIGNIFICANTLY DIFFERENT IN THE 2 GROUPS AT 9 MONTHS (P<0.0001)





RELATIONSHIP BETWEEN OVERALL SURVIVAL AND TIME TO PROGRESSION AFTER TRANSARTERIAL CHEMOEMBOLIZATION THERAPY IN PATIENTS WITH HCC

Arizumi et al.



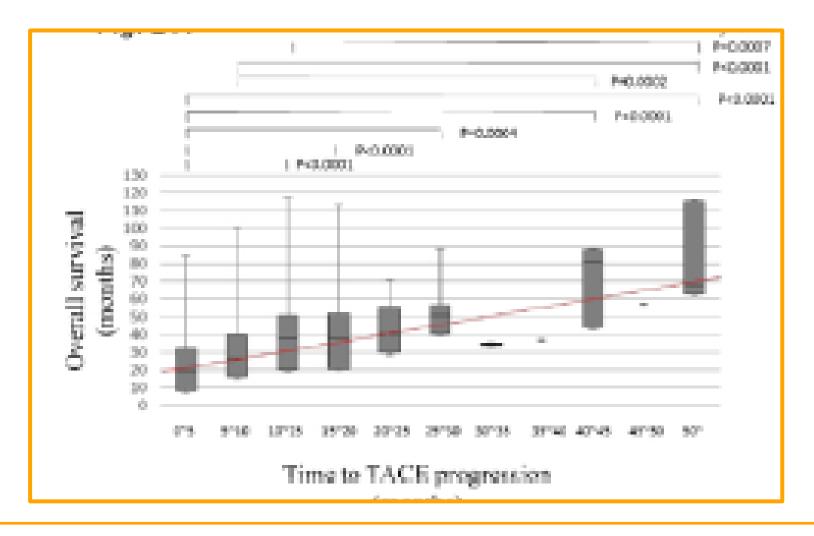
RELATIONSHIP BETWEEN TTTP AND OS IN PATIENTS WITH B1 AND B2 SUB-STAGE HCC



TTTP Range (months)	N=288	Median OS (95% CI)	25 th – 75 th percentile of OS
0-5	115	19.4 months (0.4-84.5)	8.1-32.2
5-10	69	26.7 months (5.6-100.4)	16.3-40.0
10-15	47	37.7 months (8.0-116.9)	19.9-50.5
15-20	26	38.4 months (15.2-113.4)	20.5-51.6
20-25	10	40.2 months (22.4-71.1)	19.6-55.3
25-30	6	50.6 months (25.3-88.4)	40.4-56.2
30-35	3	34.7 months (33.4-35.3)	34.1-35.0
35-40	1	37.4 months (37.4-37.4)	37.4-37.4
40-45	5	81.4 months (44.0-88.8)	44.1-88.2
45-50	1	57.5 months (57.5-57.5)	57.5-57.5
>50	5	68.2 months (55.6-115.7)	63.2-115.1

TIME TO TACE PROGRESSION VS OVERALL SURVIVAL





ANALYSIS OF POST PROGRESSION SURVIVAL OF PATIENTS WITH ADVANCED HCC TREATED WITH SORAFENIB

Wada et al.

CHANGE OF CLINICAL PARAMETERS AT THE TIME OF CONFIRMATION OF RADIOLOGIC PROGRESSIVE DISEASE COMPARED WITH THOSE OF THE INITIATION OF SORAFENIB TREATMENT



		At the confirmation of radiologic PD
Impairment of PS score	+1	46 (35.9%)
	<u>></u> +2	14 (10.9%)
Impairment of Child-Pugh score	+1	27 (21.1%)
	<u>></u> +2	26 (20.3%)
Time to progression	≥3 months	60 (46.9%)
Radiologic Progression Pattern	Target Lesion Growth	63 (49.2%)
	New Lesion	19 (14.8%)
	Target Lesion Growth and New Lesion	46 (35.9%)

PREDICTIVE FACTORS FOR POST PROGRESSION SURVIVAL

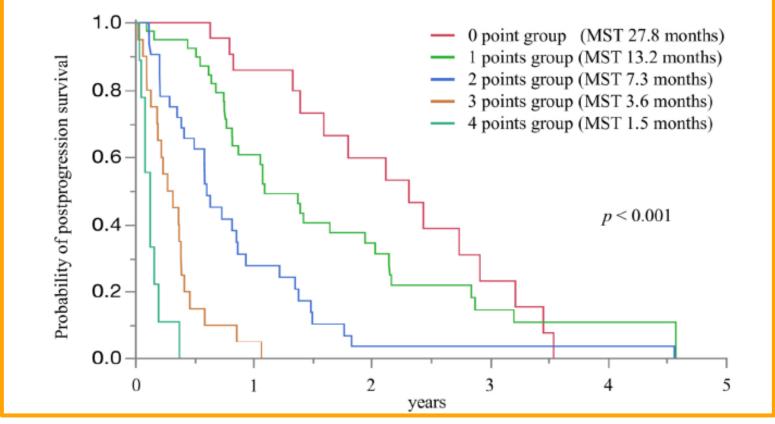


Variable		Univariate		Multivariate	
Vallable		HR (95% CI)	P value	HR (95% CI)	P value
Age	<u>></u> 75	1.11 (0.72-1.66)	0.64		
Sex	Male	1.07 (0.67-1.79)	0.79		
Impairment of PS	<u>></u> +1 point	2.14 (1.45-3.17)	<0.001	1.90 (1.21-2.97)	<0.01
	<u>></u> +2 points	8.54 (4.31-16.12)	<0.001	2.32 (1.03-5.15)	0.04
Child-Pugh at radiologic PD	<u>></u> 8	3.91 (2.33-6.31)	<0.001	1.24 (0.52-3.15)	0.64
Impairment of Child- Pugh score	≥+1 point	2.21 (1.48-3.28)	<0.001	1.28 (0.73-2.16)	0.37
	<u>></u> +2 points	4.82 (2.93-7.68)	<0.001	2.73 (1.31-5.66)	<0.01
Extrahepatic spread	Yes	1.40 (0.94-2.08)	0.15		
Macrovascular invasion	Yes	2.01 (1.25-3.13)	0.03	1.68 (0.61-1.82)	0.82
Radiological Progression Pattern	Target growth + new lesion	3.21 (2.09-4.91)	<0.001	3.02 (1.88-4.86)	<0.001
Time to progression (TTP)	<3 months	2.25 (1.52-3.35)	<0.001	2.06 (1.88-4.86)	<0.001

Wada et al. Presented at EASL 2017

POST PROGRESSION SURVIVAL STRATIFIED BY PREDICTIVE SCORES





Predictive scores were assigned one point each to impairment of PS score (\geq 1), impairment of Child-Pugh score (\geq 2), TTP (<3 months) and radiological progression pattern (target lesion growth and new lesion)

IMPACT OF SURVIVAL AFTER MOVING ONTO END-OF-LIFE CARE IN PATIENTS WITH HCC

Ogasawara et al.

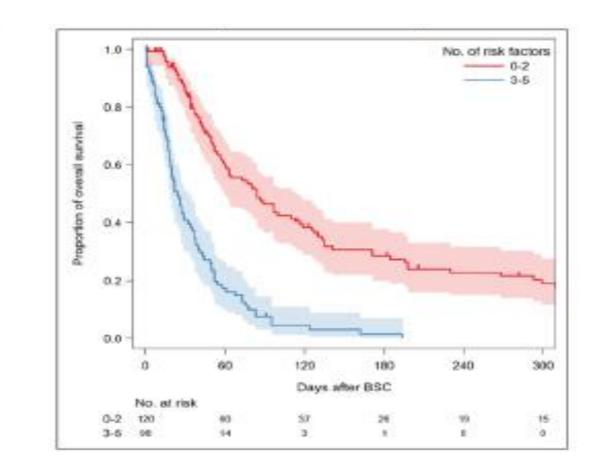
IMPACT OF SURVIVAL FOR MOVING ONTO END-OF-LIFE CARE IN PATIENTS WITH HCC



Variables	Hazard ratio	95% CI	Р
Child-Pugh classification			
A or B	Reference		
С	1.840	1.352-2.505	< 0.001
Liver tumor burden			
<u><</u> 50%	Reference		
>50%	1.912	1.362-2.664	< 0.001
AFP			
<u><</u> 400 ng/ml	Reference		
>400 ng/ml	1.685	1.237-2.296	< 0.001
ECOG-PS			
<3	Reference		
<u>></u> 3	3.037	2.161-4.269	< 0.001
Sarcopenia			
Absent	Reference		
Present	2.973	1.651-5.351	< 0.001

SURVIVAL AFTER MOVING ONTO END-OF-LIFE CARE ACCORDING TO SCORES BASED ON THE PROGNOSTIC FACTORS IN PATIENTS WITH HCC





Ogasawara et al. Presented at EASL 2017



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