B或C型肝炎性肝硬化 的治療方針

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2021-01-19

Outlines

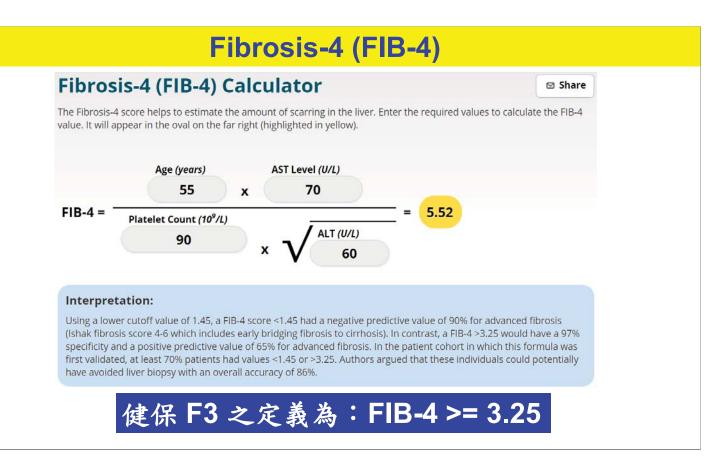
● 如何診斷肝硬化

- 如何評估肝硬化的嚴重度
- 治療病毒性肝硬化的藥物
- 健保對於病毒性肝硬化的治療規定
- 治療病毒性肝硬化能改善Child-Pugh scores
- 治療病毒性肝硬化可以逆轉纖維化
- 治療病毒性肝硬化可以延長病人的存活
- 治療病毒性肝硬化可以降低肝癌的發生率
- 治療病毒性肝硬化可以降低肝癌的復發率

如何診斷肝硬化

如何診斷肝硬化

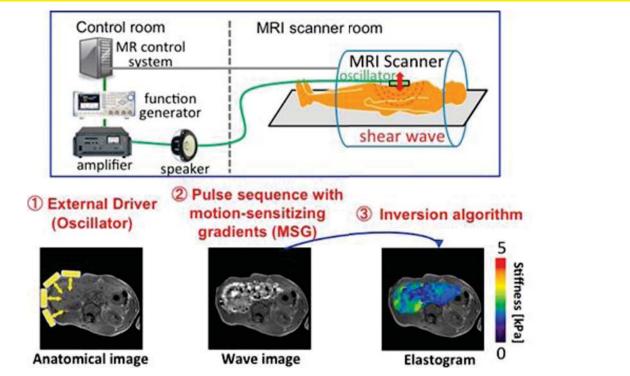
✓ 超音波/CT/MRI
✓ 腹腔鏡
✓ 肝穿刺(切片)
✓ 抽血
✓ Fibroscan / ARFI







MR Elastography



評估肝硬化的嚴重度

Child-Pugh classification

	1	2	3
Albumin (g/dL)	>3.5	2.8-3.5	<2.8
Bilirubin (mg/dL)	<2	2-3	>3
Prothrombin time (seconds increased)	1-3	4-6	>6
Ascites	Nil	Mild	≧moderate
Encephalopathy	Nil	mild	≧moderate

A: 5-6, B: 7-9, C: 10-15

MELD score

3.8 X log_e(膽紅素[mg/dL])

◆ 11.2 X log_e(INR,凝血酶原時間)

◆ 9.6 X log_e(creatinine [mg/dL],肌酸酐, 腎功能)

◆ 6.4 X (肝硬化的原因: 0 酒精性, 1 其他)

MELD Formula

The MELD score is calculated using the following formula:

$$\begin{split} \text{MELD Score} &= & 0.957 \text{ x } \text{Log}_{\text{e}}(\text{creatinine mg/dL}) \\ &+ & 0.378 \text{ x } \text{Log}_{\text{e}}(\text{bilirubin mg/dL}) \\ &+ & 1.120 \text{ x } \text{Log}_{\text{e}}(\text{INR}) \\ &+ & 0.643^{*} \end{split}$$

Multiply the score by 10 and round to the nearest whole number

HEPATOLOGY 2001;33:464-470

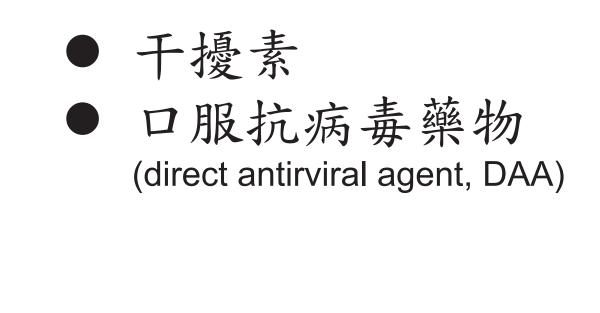
MELD Calculator (for a and older)	iges 12
Date of Birth (mm/dd/yyyy)	
Bilirubin (mg/dl)	INR
10 Serum Creatinine (mg/dl)	1.5 Had dialysis twice, or 24 hours of CVVHD, within a week prior to the serum creatinine test?
1.5	🔿 Yes 💿 No
•	ad dialysis twice, or 24 hours of CVVHD, creatinine value will be automatically set to 4

治療病毒性 肝硬化的藥物

治療B型肝炎的藥物

- ✓ 長效型干擾素
- ✓ 千安能 (lamivudine, Zeffix)
- ✓ 千適能 (adefovir, Hepsera)
- ✓ 貝樂克 (entecavir, Baraclude)
- ✓ 喜必福 (telbivudine, Sebivo)
- ✓ 恵立妥 (tenofovir, Viread)
- ✓ 韋立得 (tenofovir alafenamide, Vemlidy)

治療C型肝炎的藥物



在台灣已經上市的C型肝炎口服藥

- 坦克干(Daklinza)+速威干(Sunvepra)
- 維建樂(Viekirax) +易奇瑞(Exviera)
- 夏奉寧(Harvoni)
- 索華迪(Sovaldi)
- 賀肝樂(Zepatier)
- 艾百樂(Maviret)
- 宜譜莎(Epclusa)

健保對於病毒性 肝硬化的治療規定

治療C型肝炎的口服抗病毒藥物

HCV RNA 測得到 就可以使用健保藥物治療

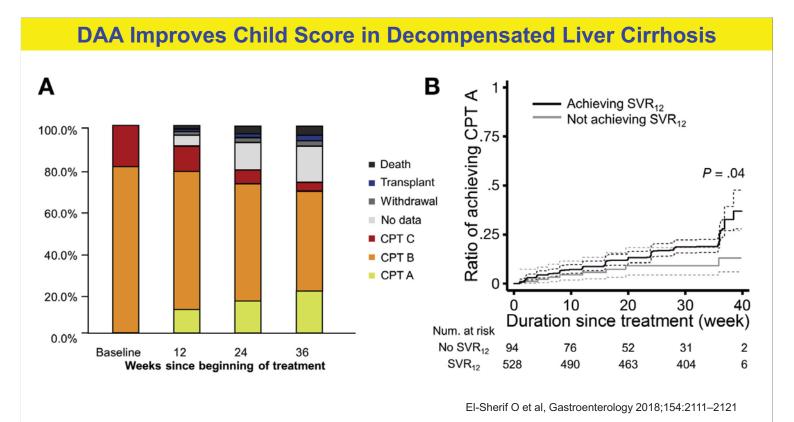
治療病毒性肝硬化能改 善Child-Pugh scores MELD scores

ETV-048: Improvement in MELD/CTP Scores

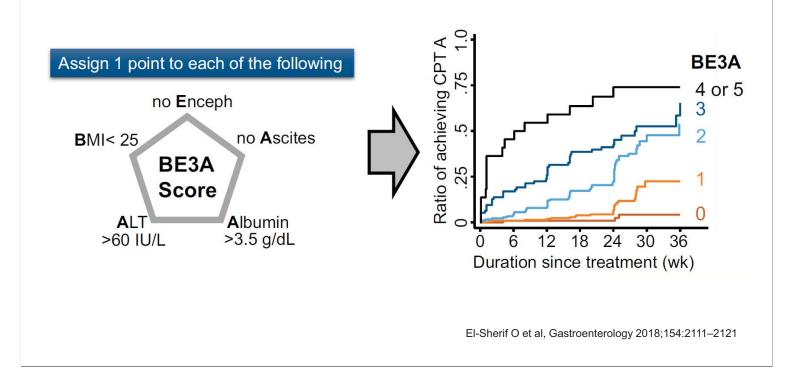
	Wk 24		Wk 24 Wk 48	
Parameter	ETV	ADV	ETV	ADV
Mean MELD score change from BL (SE)	-2.0 (0.45)	-0.9 (0.46)	-2.6 (0.62)	-1.7 (0.50)
CTP score improvement or no worsening,* n/N (%)	66/100 (66)	65/91 (71)	61/100 (61)	61/91 (67)
CTP score ≥ 2 point reduction,* n/N (%)	32/100 (32)	22/91 (24)	35/100 (<mark>35</mark>)	25/91 (27)
CTP class improvement,† n/N (%)	25/93 (27)	22/81 (27)	35/93 (38)	29/81 (36)
*Noncompleter - feilure				

*Noncompleter = failure. [†]CTP class C/B to A only.

Liaw YF, et al. Hepatology. 2011;54:91-100.



DAA Improves Child Score in Decompensated Liver Cirrhosis



Decompensated HCV-related liver cirrhosis

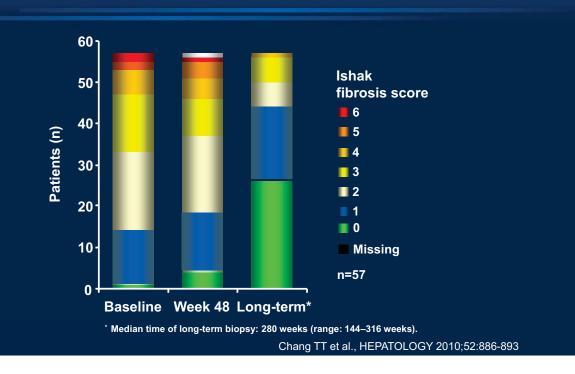
- Patients with decompensated (Child-Pugh B or C) cirrhosis should be treated in experienced centres with easy access to liver transplantation (A1).
- Close monitoring of patients with decompensated (Child-Pugh B or C) cirrhosis during therapy is required, with the possibility of stopping therapy if there is evidence of worsening decompensation during treatment (A1).
- Protease inhibitor-containing regimens are contraindicated in patients with decompensated (Child-Pugh B or C) cirrhosis and in patients with compensated (Child-Pugh A) cirrhosis with previous episodes of decompensation (A1).

2020 EASL guideline

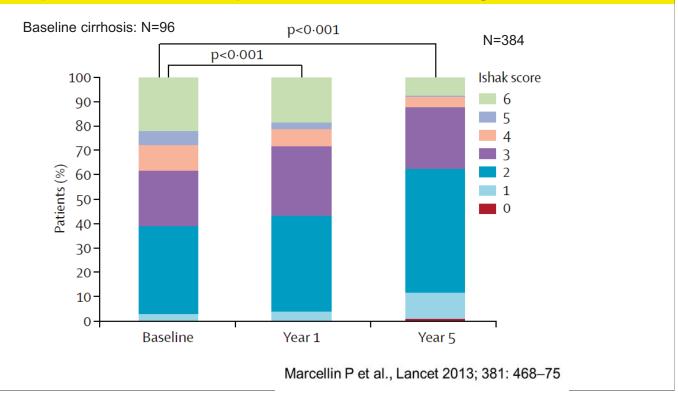
失代償的病毒性肝硬化病人, 最好在可以做肝臟移植的中心治療。

治療病毒性肝硬化 可以逆轉纖維化

ETV Long term treatment Distribution of Ishak fibrosis scores at baseline, Year 1 and Years 3–7



Improvement of hepatic fibrosis after 5-year TDF



Comparison of Liver Fibrosis Stage in patients of CHC reaching SVR

Fibrosis stage ^a						
		Post-treatment				
Pretreatment	FO	F1	F2	F3	F4	
FO	1	2	0	0	0	
F1	14	16	7	0	0	
F2	7	23	12	2	0	
F3	0	5	12	7	4	
F4	0	1	2	6	5	
Total (n/N) (<i>%</i>) (95% Cl)						

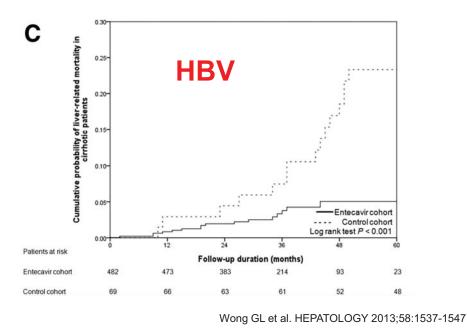
Fibrosis improved in 56%, stable in 32%, Deteriorated in 12% **Regression of cirrhosis in 9/14 patients**

Maylin S. et al., GASTROENTEROLOGY 2008;135:821-829

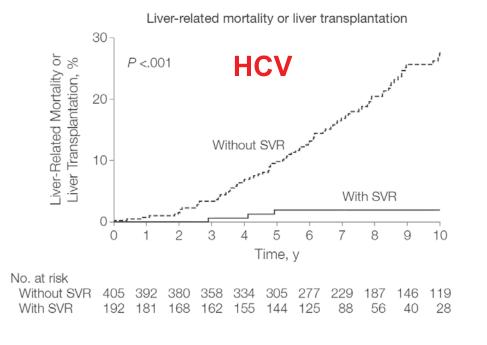
治療病毒性肝硬化 可以延長病人的存活

Cumulative probability of liver-related mortality in cirrhotic patients

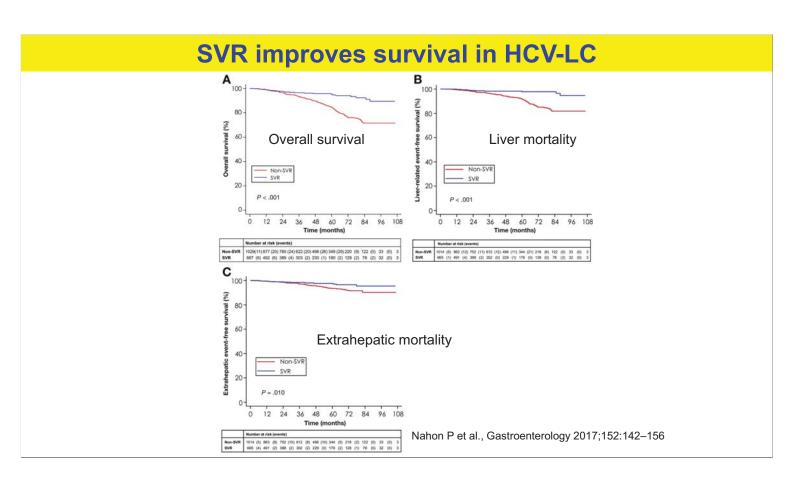
Liver-related mortality: death related to cirrhosis complications and/or HCC



SVR and Liver-related mortality

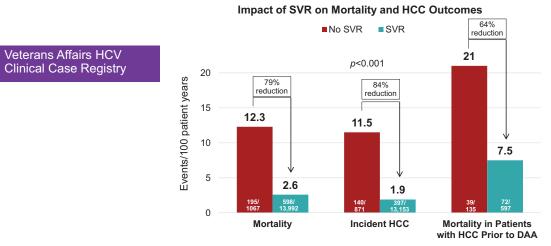


Van der Meer AJ et al., JAMA 2012-;308:2584-2593



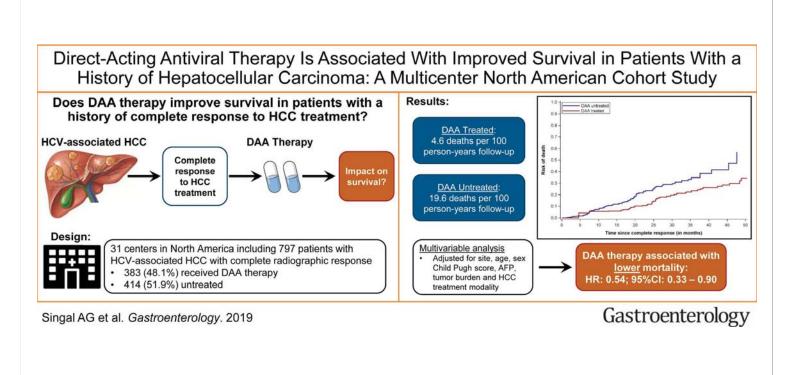
Impact of SVR with DAAs On Mortality in Patients With Advanced Liver Disease

All-cause mortality rates and incident HCC rates in 15,059 HCV-infected Veterans with advanced chronic liver disease (FIB-4 >3.25) from the HCV registry through Sept 2016.

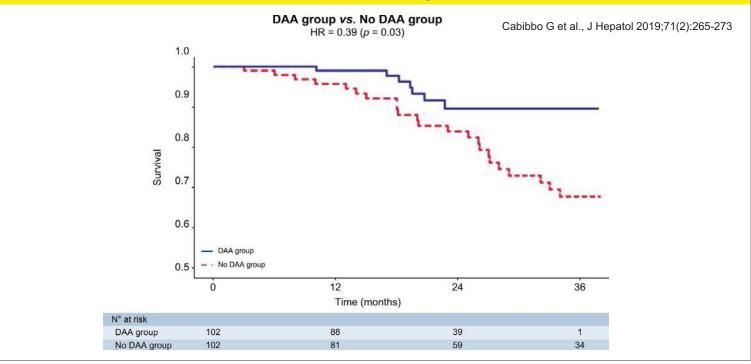


Patients achieving SVR after DAA treatment had significantly lower all-cause mortality and lower incident HCC rates than those who did not achieve SVR.

Backus, et al. Hepatology. 2018

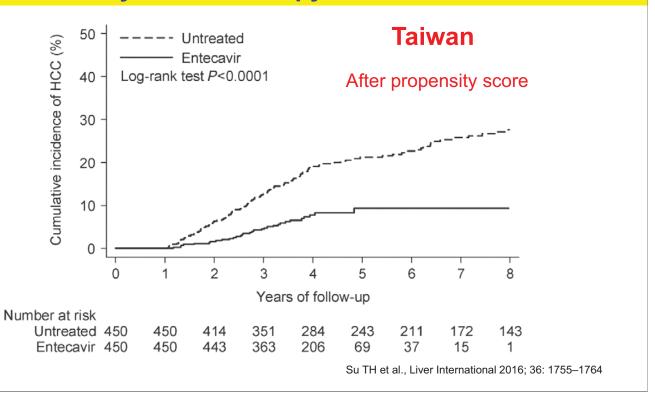




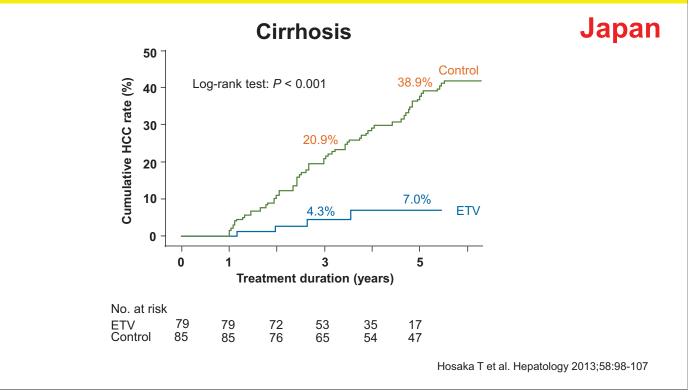


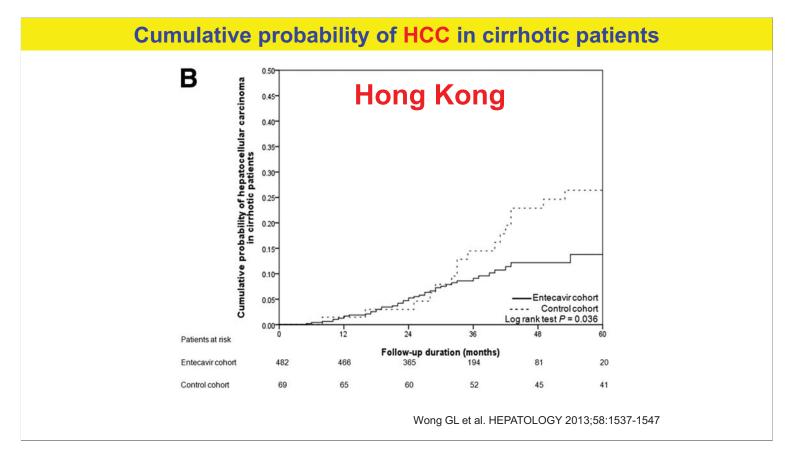
治療病毒性肝硬化 可以降低肝癌的發生率

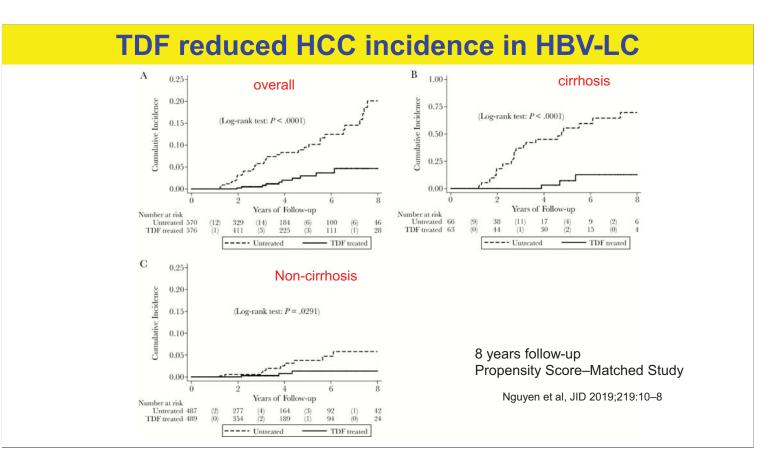
Four-year ETV therapy reduces HCC



Reduction in HCC incidence with ETV in cirrhotic patients

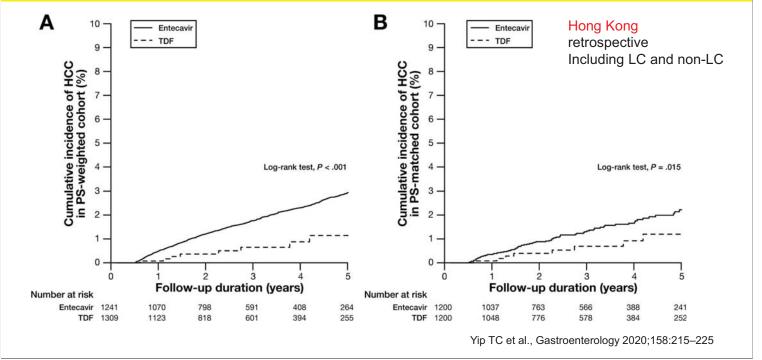




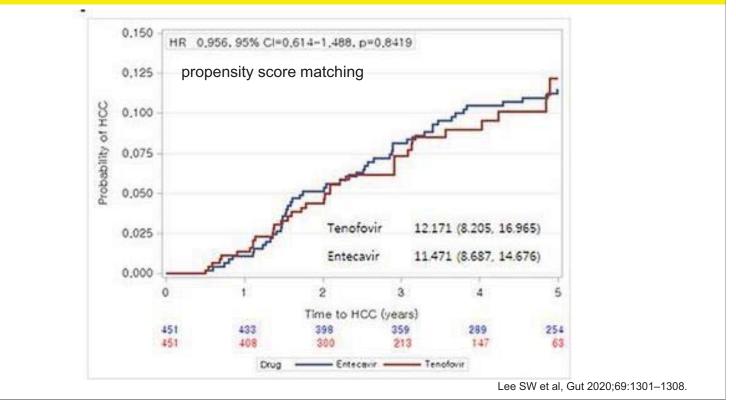


ETV vs. TDF 哪一個藥對降低肝癌比較有效?

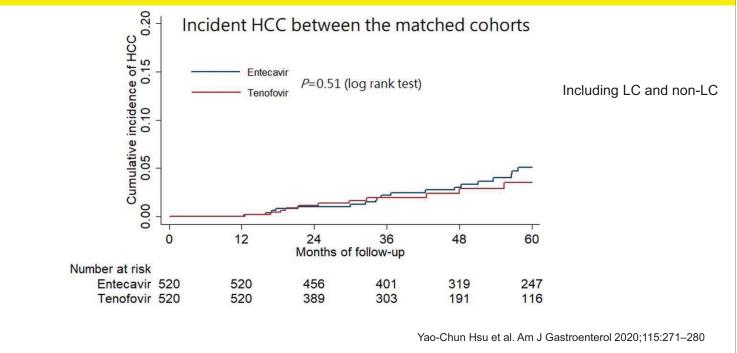
Treatment with TDF was associated with a lower risk of HCC than treatment with ETV



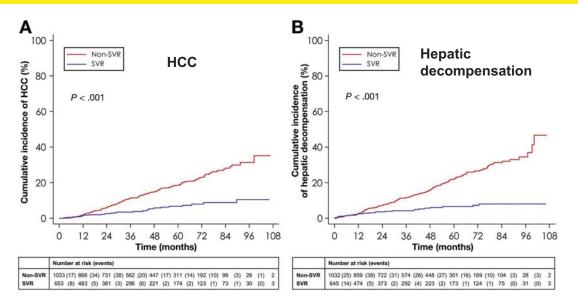
Cumulative incidences of HCC in HBV-LC under ETV vs. TDF – No difference



No significant difference in the incidences of HCC between ETV and TDF cohorts

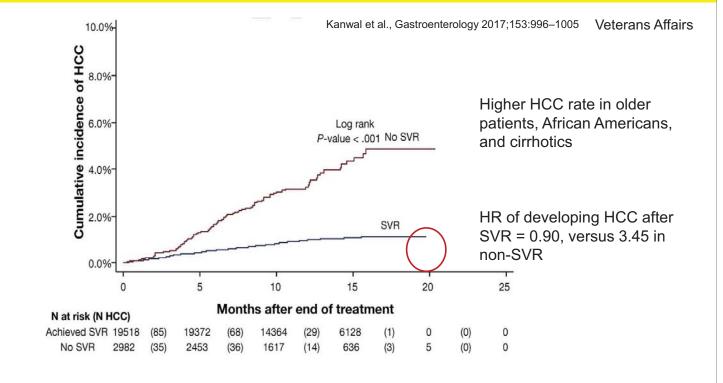


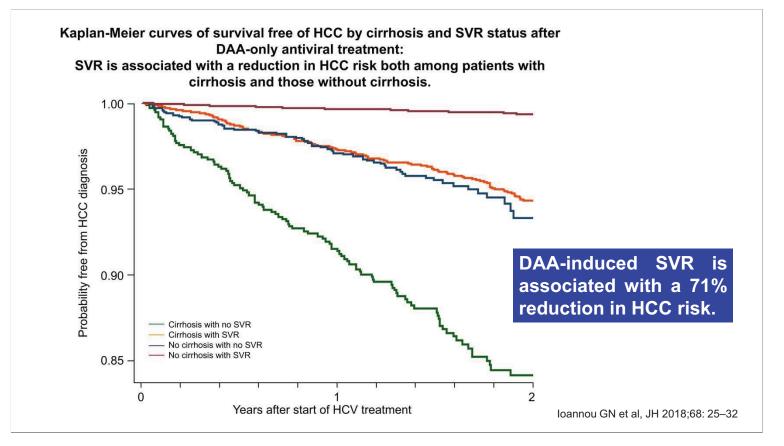




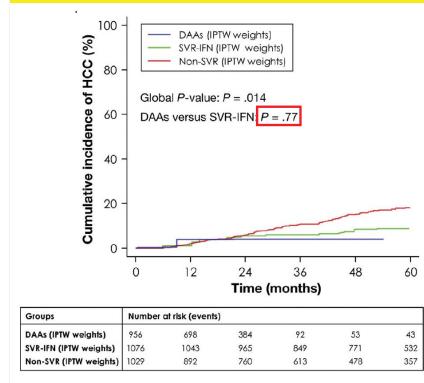
Nahon P et al., Gastroenterology 2017;152:142-156

The incidence of HCC is Reduced in HCV patients After SVR by DAA





Incidence of HCC of DAA treatment using IPTCW



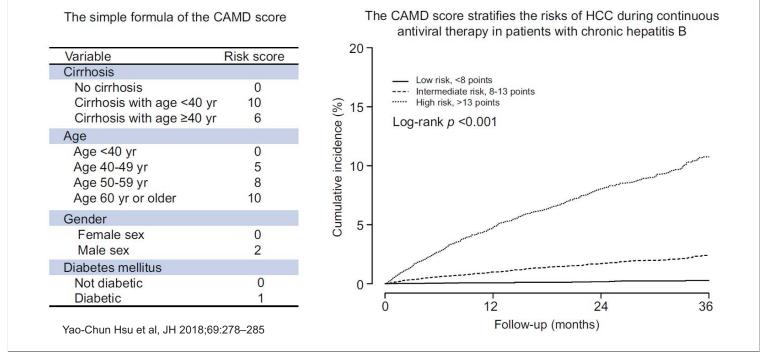
ANRS CO12 CirVir Group compensated biopsy-proven HCVassociated cirrhosis recruited from 2006 through 2012 at 35 centers in France

IPTCW: inverse probability of treatment and censoring

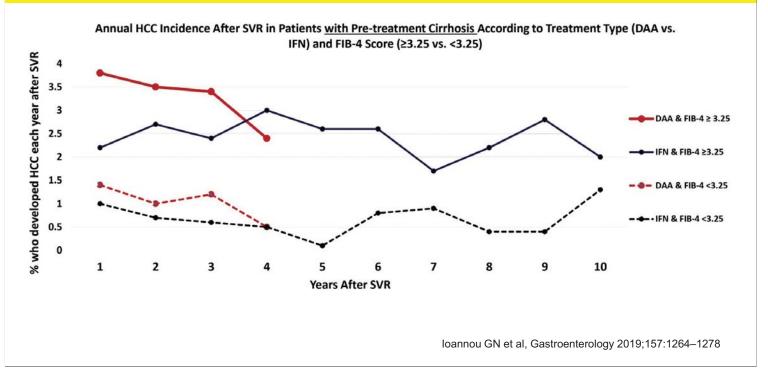
Nahon et al, Gastroenterology 2018;155:1436–1450

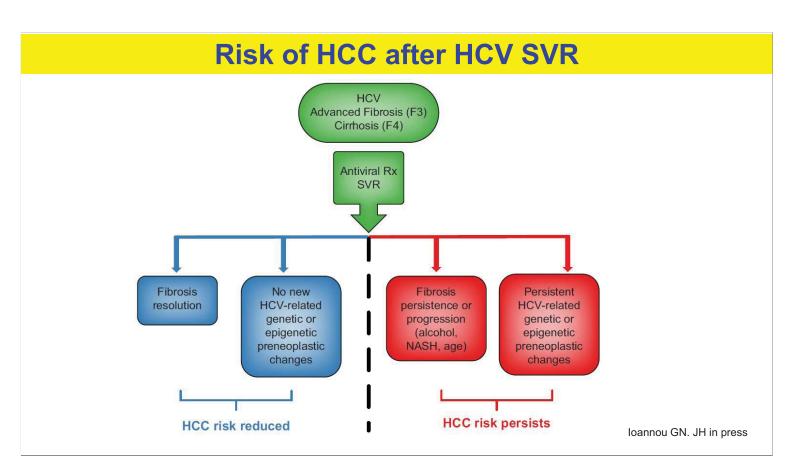
雖然藥物治療可以降低肝癌的發生率, 但是無法降到零發生率。

Antiviral treatment does not completely eliminate the risk of HCC in HBV-LC (CAMD scores)

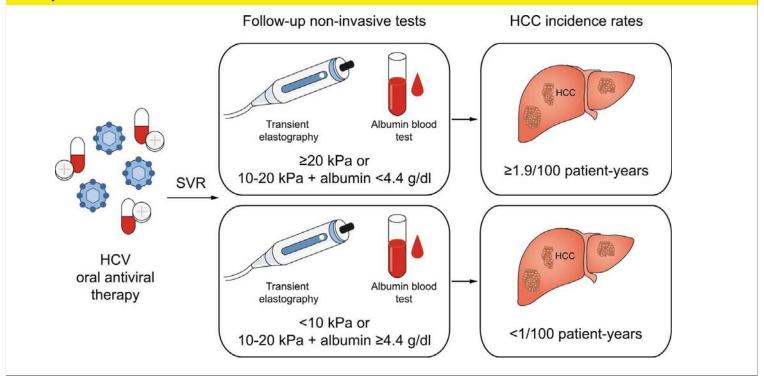


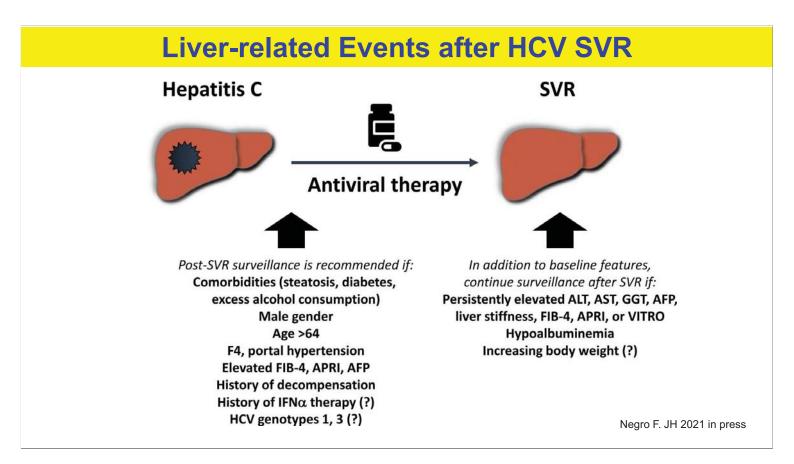
Increased Risk for HCC Persists Up to 10 Years After HCV Eradication in Patients With Baseline Cirrhosis or High FIB-4 Scores

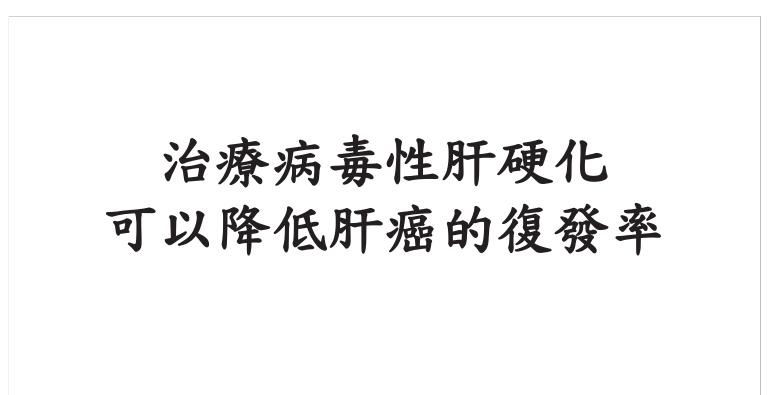


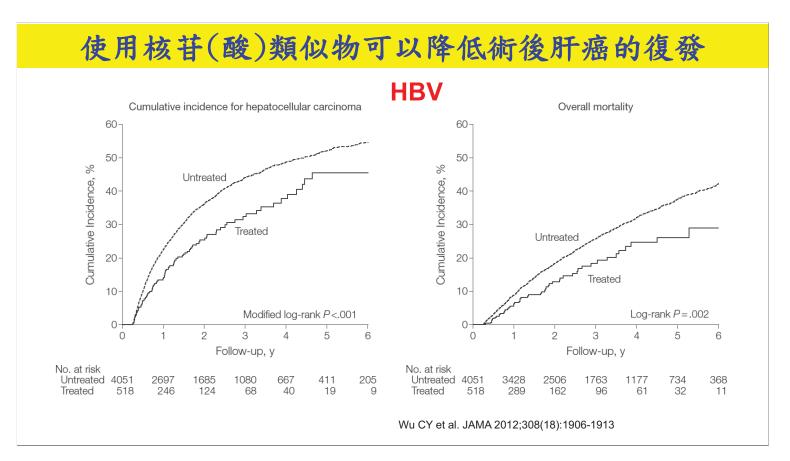


Non-invasive prediction of liver-related events in patients with HCV-associated compensated advanced chronic liver disease after DAA Pons M et al., J Hepatol 2020

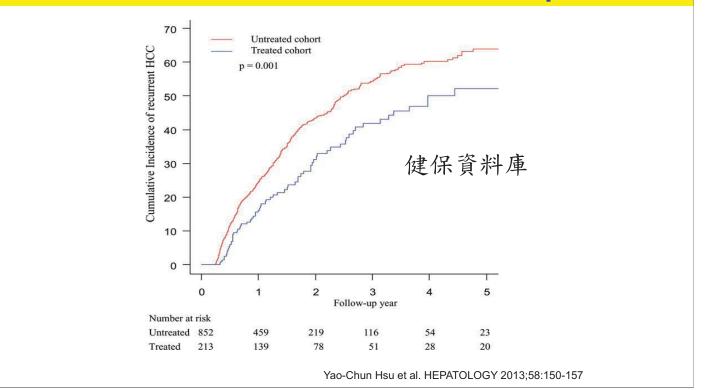








Recurrence of resected HCC in chronic hepatitis C



Research Article JH 2016;65:727–733



EASL |JOURNAL OF

Early occurrence and recurrence of hepatocellular carcinoma in HCV-related cirrhosis treated with direct-acting antivirals

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Research Article JH 20



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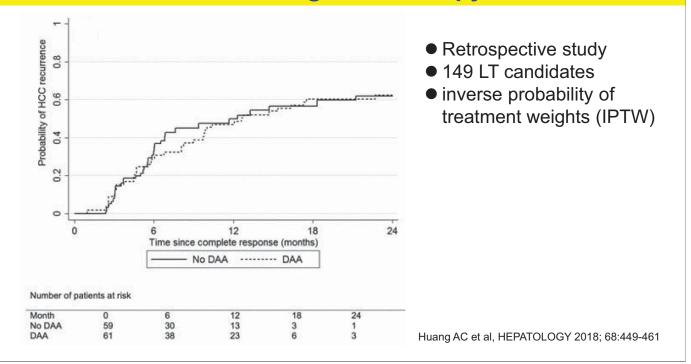


Unexpected high rate of early tumor recurrence in patients with HCV-related HCC undergoing interferon-free therapy⁺⁺

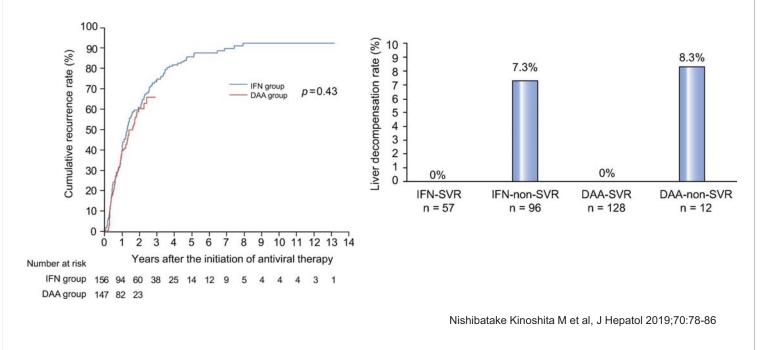
María Reig^{1,†}, Zoe Mari Sabela Lens², Alba Díaz Jos

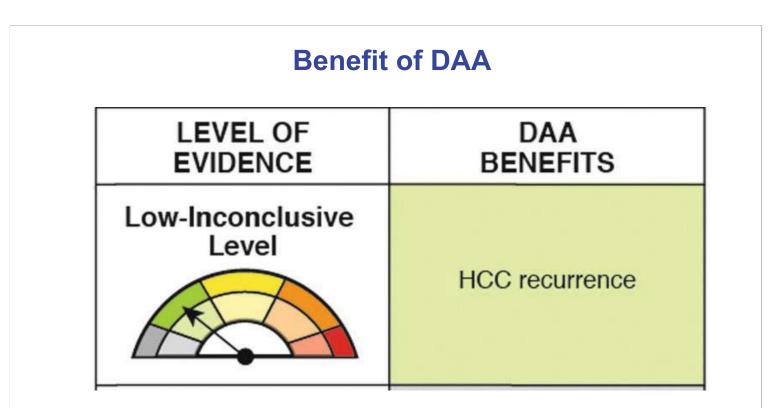
¹Barcelona Clinic Liver Cancer (BCLC) G Biomédica en Red de Enfermedades Hey Barcelona, CIBERehd, Barcelona, Spain; Hepatología, Clínica Universidad de No Barcelona, IDIBAPS, Universi University of Barcel

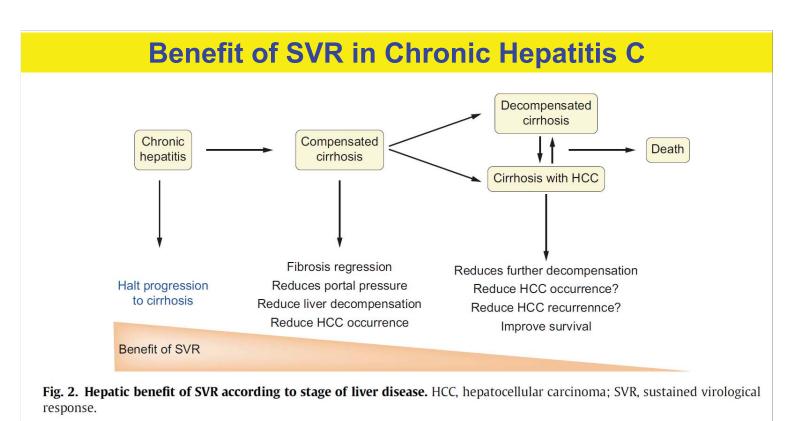








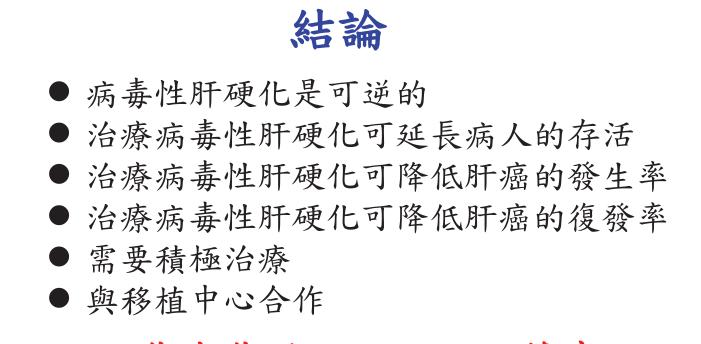




Calvaruso & Craxì. JH 2020;73:1548-1556







您與您的病人,可以雙贏



