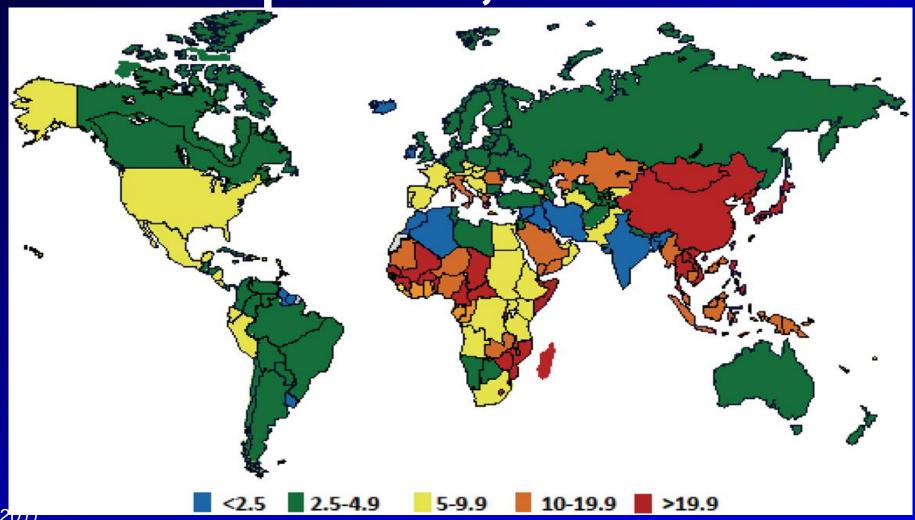
National Screening for HCC in Israel A Dream come True

Jacob Sosna, MD and Rifaat Safadi M.D ISRA And IsSLD



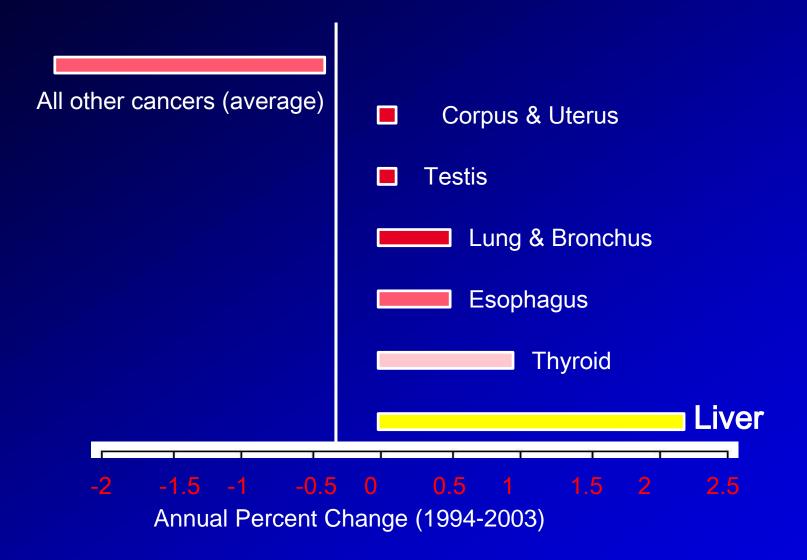
Overall incidence of HCC per 100,000



<u>UpToDate 2</u>011.



Mortality from HCC is rising worldwide





Hepatic Fibrosis is the Liver's Wound Healing Response

Hepatitis Viruses

Inherited Metabolic Disorders

Excess Vitamin A

Fibrosis & HCC

Cholestatic Disorders

Immune Disorders

Alcohol

Drugs



Do we have an acceptable test for HCC?



Ultrasound (US)

(ILCA 2007 BARCELONA, AASLD 2010)

 US – is the method of choice for screening, it has an adequate sensitivity, specificity and positive and negative predictive values

 Based upon studies on tumor volume doubling time, US should be performed every 6 months

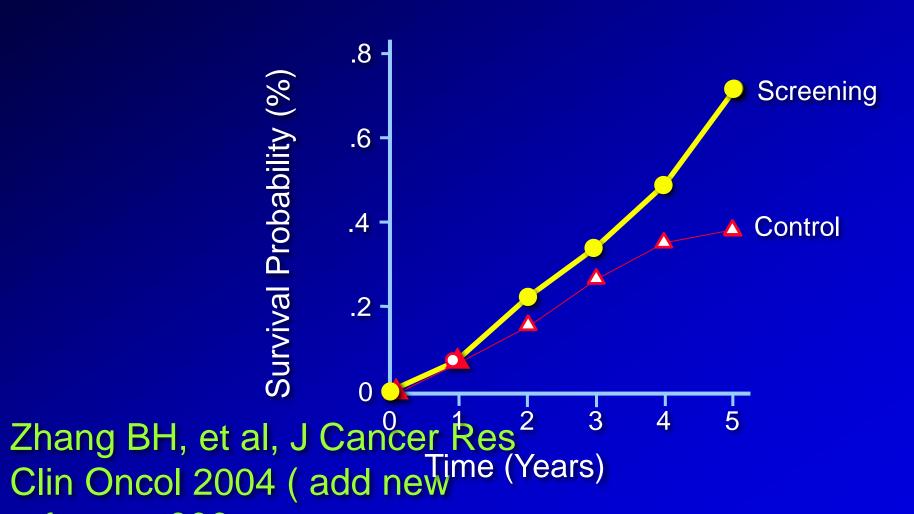


Surveillance-Alfafetoprotein (AFP) (AASLD 2010)

No longer considered by EASL/AASLD
a tool for screening
due to the high rate of
false positive and false negative results



Surveillance for HCC Reduces Mortality: A Randomized Controlled Trial



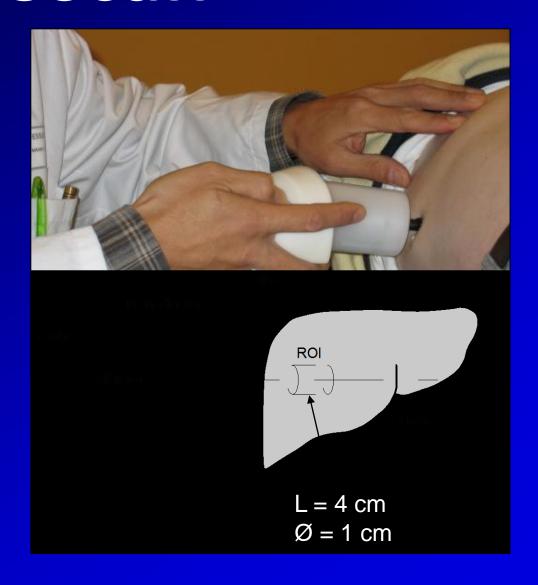
reference???



Fibroscan



Courtesy of M. Ziol





Occult Cirrhosis (OC) by Transient Elastography (TE)

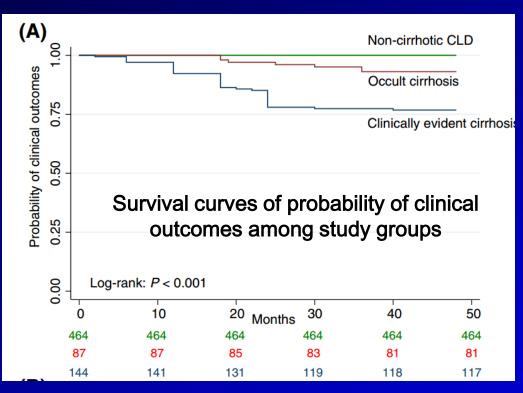
N=871:

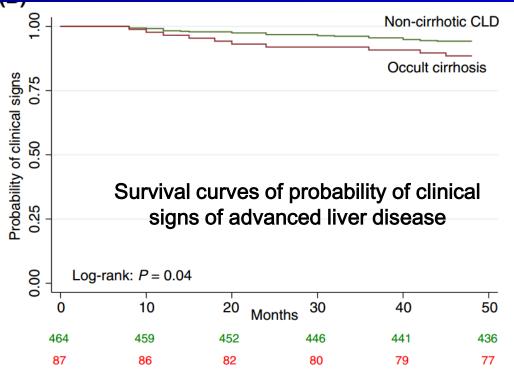
- ✓ OC (TE ≥ 13 kPa and no sign of cirrhosis; 12%
- ✓ Clinically evident cirrhosis (TE ≥ 13 kPa with signs of cirrhosis); 37%
- ✓ Non-cirrhotic CLD (TE < 13 kPa); 51%



Occult Cirrhosis (OC) by Transient Elastography (TE)

N=871: median follow-up 24 months (range 20–37)







Current State in Israel



Surveillance is worse in NASH & HBV

HCC – Hadassah cohort 161 patients 6/2011 – 6/2015					
	All, N=160	HCV, N=62	NASH, N=33	HBV, N=23	P
Surveillance	81/160 (50%)	42/62 (67%)	12/32 (38%)↓	10/23 (43%) ↓	
Early HCC Stages	57/81 (70%)	30/42 (71%)	8/12 (75%)	6/10 (60%)	

Surveillance: Normal US/CT every 6 m' before HCC diagnosis





What is expected?

- US, CT or MRI must be performed or interpreted at an experienced center.
- Recommendations by a multi-disciplinary team of:
 - » Radiologists, hepatologists, oncologists & surgeons
 - » For: resection, chemoemoloization, tumor ablation therapy, medical treatment and radiation.



Current Status

- Screening is based on personal preference
- No national data on exact number of patients at risk
- No follow up data
- No accredited centers for US screening



Current Imaging Status

 Screening done in different places by varying radiologists and technologists

 Workup for detected lesions done at different centers with varying technological equipment and technique of imaging

Multidisciplinary meetings at centers discretion



Current Imaging Status

Structured reporting missing (LIRADS, Milan etc..)

 Pre transplantation reporting consistency needed



National Program התוכנית הלאומית למניעה וגילוי מוקדם של סרטן הכבד

- Imaging part
- Clinical part



National Program

- Central registry of patients at risk
- Biannual screening with patient notification
- The percentage of screened patients as a quality metric
- Inclusion of HCV treatments



National Program

- Accredited Imaging and Liver centers in each part of the country (by ISRA, MOH)
- Accepted reporting



What are the Next Steps?

- Steering committee
- White paper on components of the program by the societies
- Involve all stakeholders from MOH, Kuppot Holim, patient representative, pharma
- Media Interest

