





QUAN ĐIỂM MỚI VỀ VIÊM GAN VIRUS
TỪ AASLD 2021- DDW 2022 - EASL 2022




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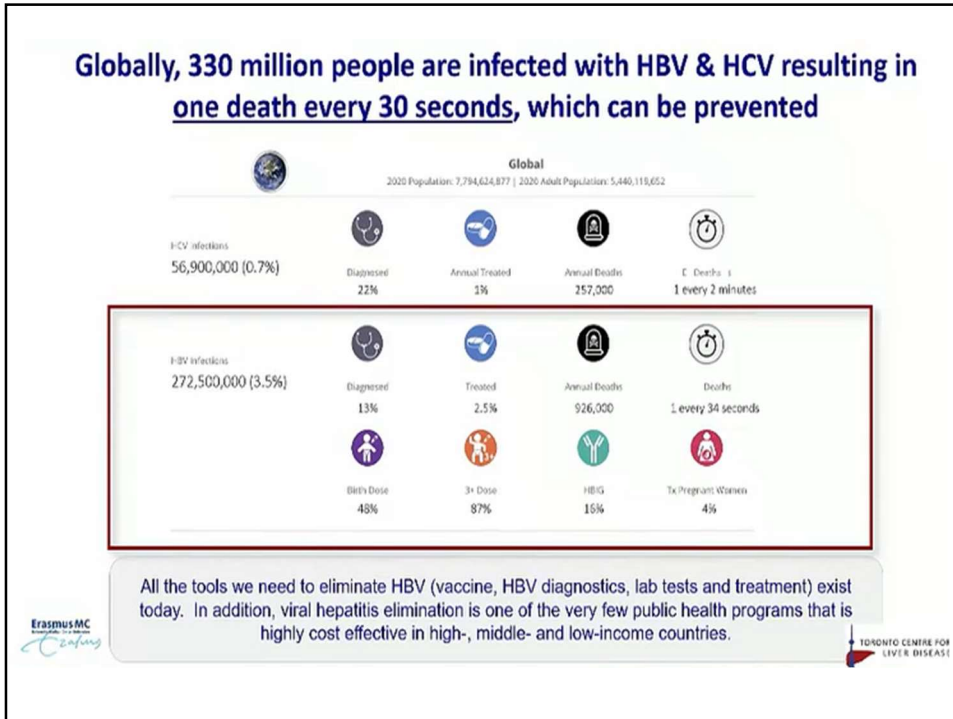
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THÔNG TIN MỚI VỀ VIÊM GAN VIRUS
AASLD 2021- DDW 2022 - EASL 2022.

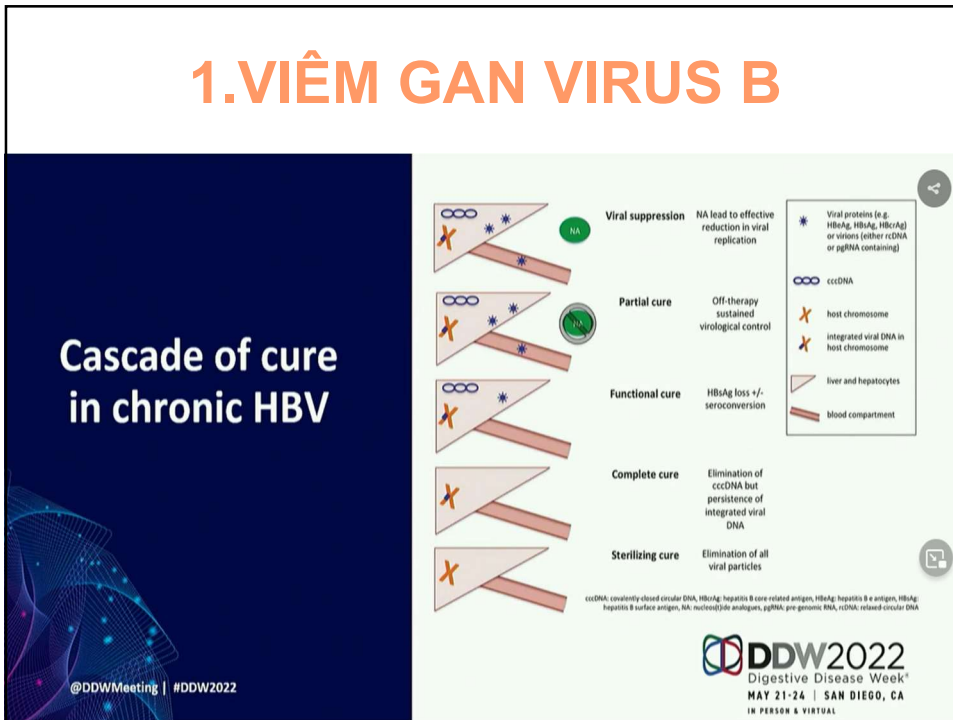
1. Viêm gan virus B & D
2. Viêm gan virus C.
3. Ung thư gan và ung thư đường mật.
4. Covid-19 và bệnh gan.



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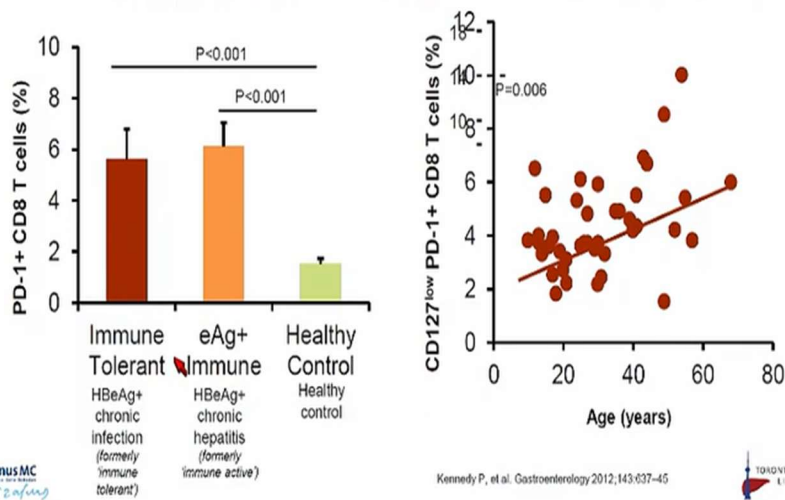
Quan điểm mới trong quyết định điều trị viêm gan virus B

- In this cohort of U.S. indeterminate phase HBV patients, ~5% patients progressed to cirrhosis or HCC within 6 years of follow up
- The risk of progression in the indeterminate phase was 5.0- fold higher compared to those in immune-inactive phase
- The risk of progression was the highest in older HBeAg positive patients with baseline HBV DNA of >2000 IU/ml
- These patients may benefit from close monitoring and risk reduction strategies, including antiviral treatment
- Further studies with larger sample size are warranted to describe the natural history of intermediate phase CHB patients

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T cell response in immune tolerant chronic hepatitis B

Evidence of immune activity in the 'immune-tolerant' disease phase



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HBV-DNA integration?

- A large, transcriptionally active intrahepatic HBV reservoir increases risk of liver inflammation & disease progression
- Integration is known to contribute to HBV-driven tumourigenesis

cccDNA pgRNA → Inflammation → Cirrhosis

HBV DNA integration → HBV DNA → Hepatocellular Carcinoma (HCC)

Liang LB, IJID 2016
Larsson SB et al., Liver Int. 2014
Jiana Z et al., Genome Res. 2013
et al., J Virol. 2015
LH et al., Nat Comm, 2016

Erasmus MC
 Erasmus

7

Liver damage in 'Immune Tolerant' patients

C

| Group | Ishak Fibrosis Stage (Mean) |
|---------|-----------------------------|
| IT | ~1.5 |
| eg+ IA | ~1.8 |
| eAg- IA | ~1.6 |

| Group | Collagen Proportionate Area (%) (Mean) |
|---------|--|
| IT | ~4.0 |
| eg+ IA | ~4.0 |
| eAg- IA | ~4.0 |

IT eg+ IA eAg- IA

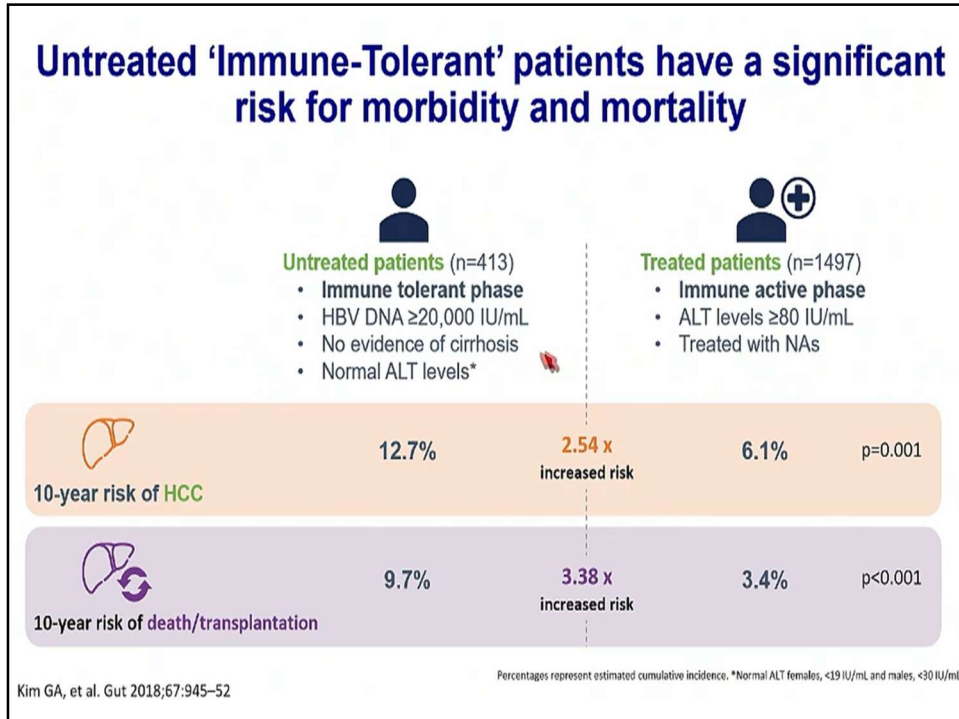
Immune Tolerant HBeAg+ Immune Active HBeAg- Immune Active

Erasmus MC
 Erasmus

Mason et al., Gastroenterology 2016

TORONTO CENTRE FOR LIVER DISEASE

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Why treat patients in immune tolerant phase?

- Reduce HBV integration by treating early, hence reduce HCC risk
- By suppressing HBV DNA not only risk reduction of HCC but also of potential liver damage
- IT patients will later develop immune active disease where the risk is highest. Why not short circuit through treatment which is safe and without resistance?
- Reduce the rate of horizontal and vertical transmission
- Simplified treatment strategy to drive HBV elimination goal

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TAF hiệu quả & an toàn cho phụ nữ mang thai trong nhiều nghiên cứu.

Multicenter, prospective study of 60 pregnant women who were receiving TAF or switched to TAF were followed until at least post-partum Month 7

| Maternal Characteristics | n=60 |
|--|----------------|
| Mean age, years \pm SD | 30 \pm 5 |
| Mean gestational age at TAF initiation, weeks \pm SD | 1.0 \pm 13.7 |
| Mean ALT, U/L \pm SD | 113 \pm 93 |
| Mean HBV DNA, log ₁₀ IU/mL \pm SD | 4.6 \pm 3.5 |
| Mean TAF treatment duration, weeks \pm SD | 82 \pm 20 |
| Maternal Outcomes | n=60 |
| Virologic breakthrough, n (%) | 2 (3) |

| Infant Outcomes | n=59* |
|--|---------|
| MTCT at month 7, n (%) | 0 |
| Breast fed, n (%) | 43 (73) |
| Congenital defects or malformations, n (%) | 0 |

*One mother who initiated TAF at 12 weeks of pregnancy underwent induced abortion at 23 weeks of gestation due to the diagnosis of cleft lip and palate for the fetus.

Physical and neurological development of infants was normal at birth, 7 months, and 12 months

TAF administered throughout pregnancy in women with active CHB was generally safe for both mothers and infants, and reduced the MTCT rate to 0%

Infants received standard immunoprophylaxis and were followed until at least postpartum Month 7.
Zeng Q-L, et al. EASL 2021, #660

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TAF được dung an toàn cho phụ nữ mang thai ở nhiều nghiên cứu ở TQ

Tenofovir alafenamide used throughout pregnancy in Chinese active chronic hepatitis B mothers: a multicenter prospective study

Aim

To investigate safety and effectiveness of tenofovir alafenamide (TAF) in active chronic hepatitis B (CHB) mothers and their infants

Methods

In this multicenter, prospective study, active CHB mothers treated with TAF and tenofovir (TDF) were enrolled, infants received standard immunoprophylaxis, and the mothers' and infants' safety and effectiveness profiles were observed.

Main Findings

The TAF was well tolerated, safe, and effective during a mean of nearly two years of treatment for active CHB mothers and their infants.

A mean of about two years of TAF and TDF therapy had comparable safety and effectiveness profiles for active CHB mothers and infants.

Conclusions

TAF administered throughout or from early pregnancy are safe and effective for active CHB mothers and their infants.

| Characteristics of the mothers at baseline | TAF group (n=103) | TDF group (n=104) |
|--|-------------------|-------------------|
| Age, years | 29.3 \pm 4.7 | 29.4 \pm 4.4 |
| Gestational age, weeks | 1.4 \pm 14.6 | 1.0 \pm 12.1 |
| HBeAg positivity | 82 (79.6) | 88 (84.6) |
| HBV DNA, log ₁₀ IU/ml | 5.1 \pm 3.4 | 4.6 \pm 3.4 |
| ALT, U/L | 122.2 \pm 97.5 | 94.6 \pm 78.3 |
| Treatment duration, weeks | 92.1 \pm 24.2 | 94.7 \pm 21.9 |
| Most common adverse events-nausea | 30 (29.1) | 33 (31.7) |
| Characteristics of the infants at birth | n=102* | n=104 |
| Gestational age, weeks | 39.2 \pm 1.1 | 39.3 \pm 1.2 |
| Apgar score at 1 minute | 9.7 \pm 0.5 | 9.5 \pm 0.5 |
| Congenital defects or malformations | 0 (0) | 0 (0) |
| Anthropometric indexes | Normal | Normal |
| At postpartum month 6 for mothers | n=102 | n=104 |
| HBV DNA undetectable | 101 (99.0) | 103 (99.0) |
| ALT normalization | 93 (91.2) | 97 (92.3) |
| HBeAg seroconversion | 17/82 (20.7) | 15/88 (17.0) |
| At 7 months of age for infants | n=102 | n=104 |
| Anthropometric indexes | Normal | Normal |
| HBeAg positive infants | 0 (0) | 0 (0) |
| At postpartum month 18 for mothers | n=30 | n=32 |
| Cumulative HBeAg seroconversion | 20/82 (24.4) | 21/88 (23.9) |
| At 18 months of age for infants | n=30 | n=32 |
| Anthropometric indexes | Normal | Normal |

*One fetus suffered induced abortion unrelated to TAF.

Zeng Q-L, et al., Pub Number 19.



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Không nên dừng đột ngột Nas khi điều trị viêm gan B

Nucleos(t)ide analogue withdrawal in chronic hepatitis B patients leads to limited sustained remission in the absence of HBsAg loss: results from the RETRACT-B study

Study Aim

- To examine the long-term virological and biochemical response after NA withdrawal, particularly in patients who did not achieve HBsAg loss

Methods

- CHB patients who were virally suppressed and HBeAg negative at NA withdrawal who remained off-therapy, were not lost to follow-up, and did not experience HBsAg loss, hepatic decompensation, HCC, HBeAg seroreversion, or death within 1 year off-therapy (n = 945).
- Sustained remission was defined by persistent HBV DNA ≤ 2000 IU/mL and ALT $\leq 1.5 \times$ ULN after 1 year off-therapy.

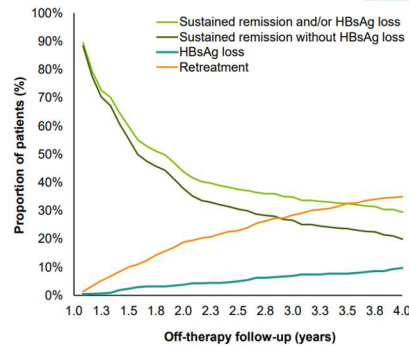
Main Findings

- At 4 years off-therapy, 30% of patients achieved sustained remission and/or HBsAg loss, 20% achieved sustained remission in the absence of HBsAg loss, 10% had achieved HBsAg loss, and 35% had started retreatment.

Conclusions

- Despite allowing for any HBV DNA and ALT fluctuations within the first year after NA withdrawal, most patients continued to experience virological and biochemical relapses beyond 1 year and the majority did not remain in sustained remission at 4 years off-therapy.

Hirode G, et al., Abstract 22.



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Viêm gan virus B trở nên trầm trọng hay gây tử vong khi ngưng NAs

Severe hepatitis flare & subsequent mortality after discontinuation of antiviral treatment for chronic hepatitis B: a population-based study

Aim To quantify the incidences of severe hepatitis flare and related mortality in chronic hepatitis B patients who discontinued antiviral therapy as part of the routine care

Methods

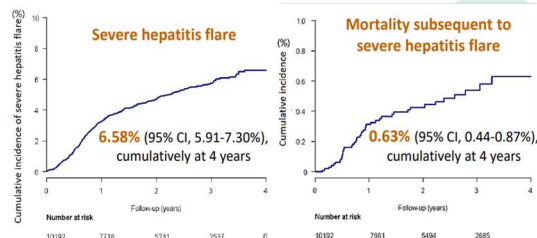
- A nationwide population-based cohort study of 10,192 treatment-naïve adults who initiated entecavir or tenofovir and stopped the treatment per routine care standard and local reimbursement policy
- Severe hepatitis flare defined as serum ALT above 5 times the upper limit of normal plus elevation of serum bilirubin, and subsequent mortality as occurrence of death within 6 months of severe flare

Main Findings

| Patient characteristics | All (N =10,192) |
|--|----------------------|
| Male sex, n (%) | 7,308 (71.70) |
| Age, years (median and IQR) | 50.87 (41.51, 59.30) |
| Cirrhosis, n (%) | 1,092 (10.71) |
| History of hepatic decompensation, n (%) | 465 (4.56) |
| Use of entecavir, n (%) | 6,921 (67.91) |
| Treatment duration, years (median and IQR) | 3.0 (3.0, 3.0) |

IQR, interquartile range

Hsu Y-C, et al., Abstract 23.



Age (adjusted sub-distributional hazard ratio [aSHR], 1.19 per 10 years; 95% CI, 1.09-1.29), **male sex** (aSHR, 1.76; 95% CI, 1.41-2.22), **cirrhosis** (aSHR, 1.84; 95% CI, 1.45-2.33), and **history of hepatic decompensation** (aSHR, 1.45; 95% CI, 1.01-2.09) were significant risk factors for severe hepatitis flare

Conclusions The risks of severe hepatitis flare and subsequent mortality were substantial after discontinuation of oral antiviral treatment in patients with chronic hepatitis B.

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Nguy cơ HCC khi dùng TDF so với Entecavir

The risk of hepatocellular carcinoma in tenofovir versus entecavir-treated U.S. cohort with chronic HBV virus

Objective

Analyze a cohort of patients treated with ETV or TDF in the VA with an extended follow up to examine the association between TDF vs. ETV and HCC risk

Methods

Retrospective cohort study analyzing the incidence of HCC in veteran patients with a positive HBV surface antigen test and TDF or ETV use

Main Findings

During a mean follow-up of 4.1 years, 84 in ETV and 102 in TDF patients developed HCC for an incidence rate of 12.5/1000 PY in ETV vs. 11.6/1000 PY in TDF.

Conclusions

In this cohort of US veterans with chronic HBV treated with TDF or ETV, there was a significant trend toward a slightly lower HCC risk developing in patients treated with TDF.

| Antiviral Therapy | # HCC | Person years | IR (%) (95% CI) | Unadjusted HR (95% CI) | Adjusted HR (95% CI) |
|---------------------------------|-------|--------------|--------------------|------------------------|----------------------|
| HCC any time after index | | | | | |
| Overall | 186 | 15366.9 | 1.21 (1.04 - 1.40) | N/A | N/A |
| Duration | | | | | |
| Tenofovir | 59 | 4396.37 | 1.34 (1.02 - 1.73) | 0.91 (0.81 - 1.01) | 0.89 (0.79 - 0.99) |
| Entecavir | 72 | 4647.24 | 1.55 (1.21 - 1.95) | 1.0 | |
| Current use | | | | | |
| Tenofovir | 84 | 7230.01 | 1.16 (0.93 - 1.44) | 0.87 (0.62 - 1.23) | 0.86 (0.60 - 1.21) |
| Entecavir | 102 | 8136.85 | 1.25 (1.02 - 1.52) | 1.0 | |

El-Serag H, et al., Abstract 61



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Viral Hepatitis – Cure not only for hepatitis C but also B ?

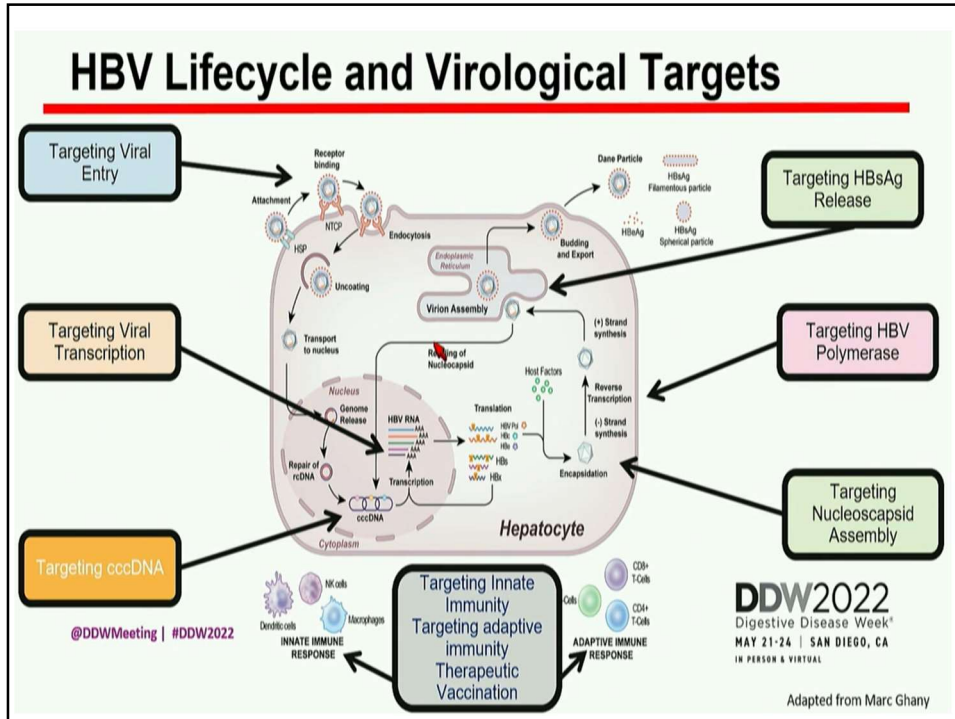
Prof. Dr. Markus Cornberg
Centre for Individualized Infection Medicine (CiIM)
Hannover Medical School & Helmholtz Centre for Infection Research

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Novel therapies (CAM, siRNA and ASO)

| | | |
|--|---|---------------------------|
| Core or Capsid Inhibitors | Vebivorvir (ABI-H0731), ABI-4334 Assembly Bioscience | ILC 2022; SAT366 & SAT383 |
| | JNJ-6379 Johnson & Johnson | ILC 2022; SAT422 & GS010 |
| | EDP-514 Enanta | ILC 2022; SAT390 & SAT393 |
| | Canocapavir (ZM-H1505R) Zhimeng Biopharma | ILC 2022; SAT367 |
| | ALG-000184 Aligos Therapeutics | ILC 2022; SAT365 |
| | AB-836 Arbutus | ILC 2022; SAT392 |
| | RG-7907 Roche ... and others | |
| Inhibition of HBV gene expression (ASO, siRNA). | JNJ-3989 Johnson & Johnson | ILC 2022; GS010 & SAT422 |
| | VIR-2218 Vir Biotech | ILC 2022; SAT434 |
| | AB-792 Arbutus | ILC 2022; SAT397 |
| | Bepirovirsen GSK & Ionis | ILC 2022; LB004B |

GHE Gastroenterologie
Hepato-logie
Endokrinologie

CiM

M+H Medizinische Hochschule

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A Phase IIa trial of subcutaneously administered PD-L1 antibody ASC22 (Envafolimab) in patients with chronic hepatitis B

Objectives

To evaluate the safety and preliminary efficacy of ASC22 in patients with chronic hepatitis B (CHB) after a single subcutaneous injection

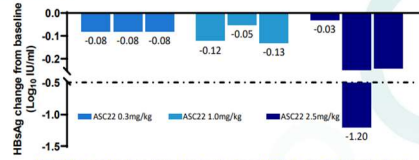
Methods

This Phase IIa clinical trial was a single-ascending dose study of three subcutaneously administered doses (0.3, 1.0, and 2.5 mg/kg, three patients per dose) with 12-week follow-up. Enrolled CHB patients were HBeAg negative, HBsAg \leq 10000 IU/mL, and HBV DNA $<$ 20 IU/mL.

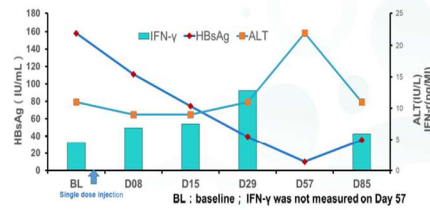
Conclusion

- A single subcutaneous dose of ASC22 up to 2.5 mg/kg is safe and well-tolerated with only grade 1 adverse effects observed during 12-week study.
- The single subcutaneous dose of ASC22 induced a dose-dependent reduction of HBsAg.
- ASC22 treatment increased serum level of IFN- γ .
- ASC22 has potential to cure CHB patients in combination with other therapies.

Main Findings



ASC22 induced a dose-dependent reduction of HBsAg (n = 3 for each dose).



In the patient with HBsAg reduction of 1.2 log₁₀ IU/mL, elevation of IFN- γ and ALT were accompanied with reduced HBsAg.

Wang GQ, et al., Abstract 91.



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Co-administration of VIR-2218 and PEG-IFN α achieves deeper HBsAg reduction compared to VIR-2218 alone

Objective

- Evaluate the safety and efficacy of VIR-2218, an siRNA, alone and in combination with PEG-IFN α for the treatment of chronic hepatitis B virus infection

Methods

- Virally-suppressed participants received 200 mg SC VIR-2218 every 4 weeks for 6 doses, alone or in combination with various durations of PEG-IFN α (see figure).

Main Findings

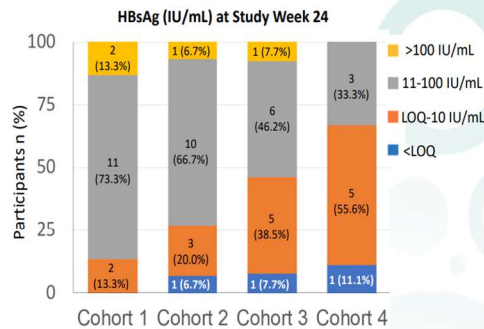
- Mean HBsAg reduction at Week 24 in Cohorts 1, 2, 3, and 4 was -1.89, -2.03, -2.55, and -2.3 log₁₀ IU/mL, respectively.
- Three participants achieved HBsAg $<$ LOQ** by Week 24 (HBsAg levels at Week 24 presented in figure).
 - Two of three also had anti-HBs seroconversion.

Conclusions

- Co-administration of VIR-2218 and PEG-IFN α resulted in substantial HBsAg reduction by Week 24; reported AEs have been generally consistent with the known safety profile of PEG-IFN α .

PEG-IFN α : pegylated interferon alpha 2a, SC: subcutaneous, HBsAg: Hepatitis B surface antigen, N/A: Not applicable, D: Day, W: Week, AE: adverse event
 *180 mcg SC PEG-IFN α was administered weekly during the specified study period
 ** LOQ is $<$ 0.05 and the same as the limit of detection for the HBsAg assay

Yuen M-F, et al., Abstract 93.



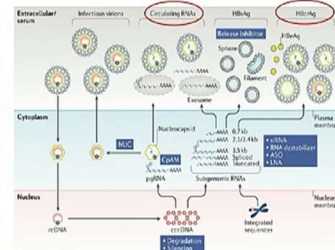
| VIR-2218 administration | receive 6 doses (200 mg) every 4 weeks | | | |
|---------------------------------|--|-----------|-----------|---------|
| | N/A | W12- W23* | D1 - W23* | D1-W47* |
| PEG-IFN α administration | | | | |



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Novel biomarkers: HBV RNA and HBcrAg to assess target engagement and treatment endpoints

- Limited value to differentiate between phases of HBV disease (HBRN)
- Associated with risk of HCC like most other HBV markers (HBsAg quant)
- More directly reflect active ccc-DNA: target engagement of new compounds
- Standardisation and validation is needed
- Need to optimize sensitivity of tests
- Not yet licensed



Testoni et al, Sem Liver Dis, 2017; Ghany M, et al. Hepatology 2021



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Therapies to cure HBV infection Consideration for clinical trial design



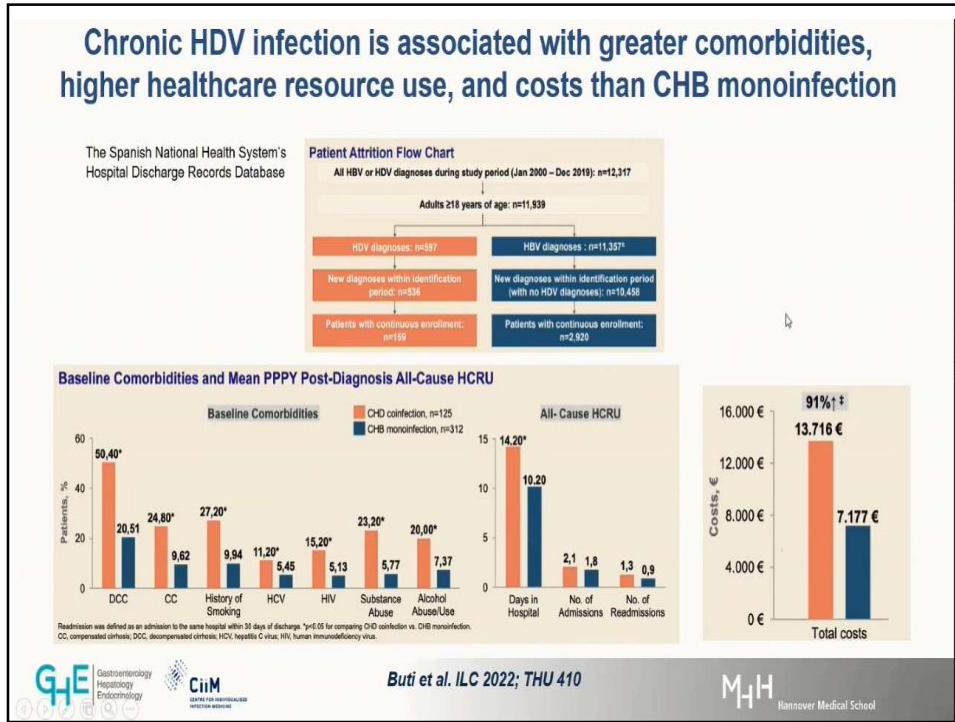
Entry inhibitors: bulevirtide
NUC: ETV, TDF, TAF
CAM: ABI-H0731, JNJ-56136379, RO7049389,
NAPs: REP 2139 or REP 2165

siRNA: JNJ-3989, VIR-2218, AB-729, RG6346
ASO: GSK3228836
LNA: RO7062931

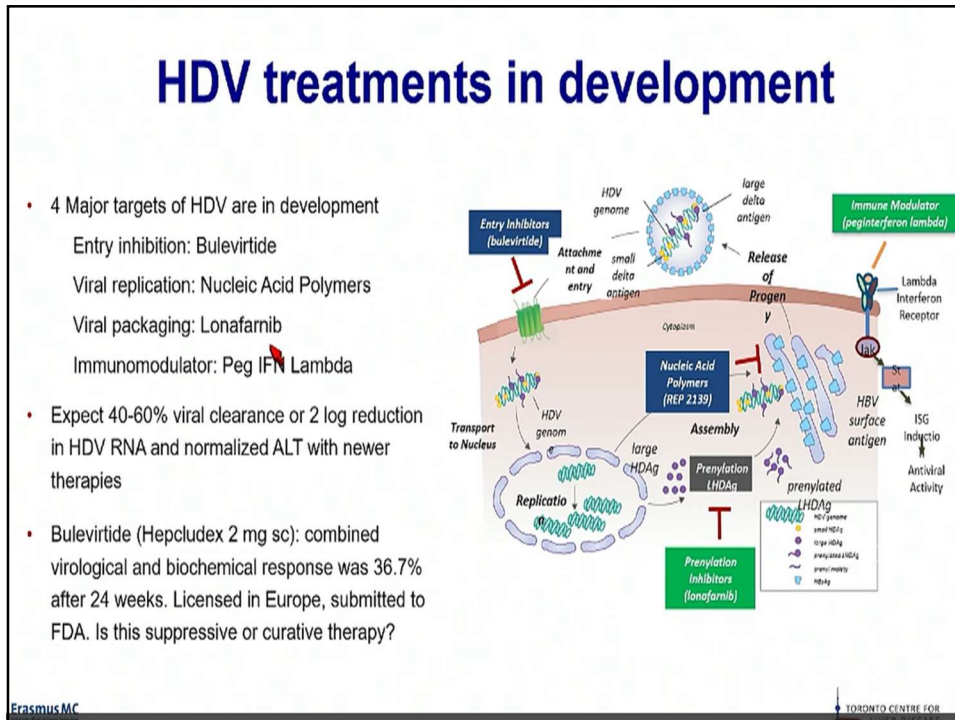
Invigorate immune responses
PEG-IFN
TLR7: GS9620, RO6864018, RO7020531, JNJ6479464
TLR8: GS9688
Anti-PD1: nivolumab, GS4224, Oral PDL1
Therapeutic Vaccines GS4774, TG1050, T101, SCI-B-VAC



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2.VIÊM GAN VIRUS C

US HCV Screening Recommendations

1998: CDC recommends risk-based screening

2012: CDC adds one-time screening for 1945-1965 birth cohort

2020: USPSTF recommends screening in adults 18-79 yrs

2018: AASLD/IDSA recommends screening at each pregnancy
2019: universal one-time screening of all adults

2020: CDC recommends screening at least once for all adults ≥ 18 and at each pregnancy

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Rapid hepatitis C treatment initiation in young people who inject drugs: HCV-seek, test & rapid treatment (ST&RT) randomized pilot clinical trial

Objective

- To evaluate the effectiveness of a simplified, rapid treatment initiation (goal of initiation of treatment the same day as HCV confirmation result) approach to delivery HCV treatment to young PWID

Methods

- Open-labeled, randomized controlled pilot clinical trial comparing the efficacy (1) simplified & **Rapid Treatment** approach to (2) **Usual Care** (facilitated referral) in curing HCV in young PWID
- 18-29 year old who are HCV Ab+, HCV treatment naïve, and have injected illicit drugs in the prior 30 days

Main Findings

- 64% of participants in **Rapid Treatment** arm achieved SVR12 compared to 9% in **Usual Care** arm (p=0.01).

Conclusions

- Higher cure rates were achieved using the **Rapid Treatment** model with same day, low-threshold, simplified HCV care compared to facilitated referral.

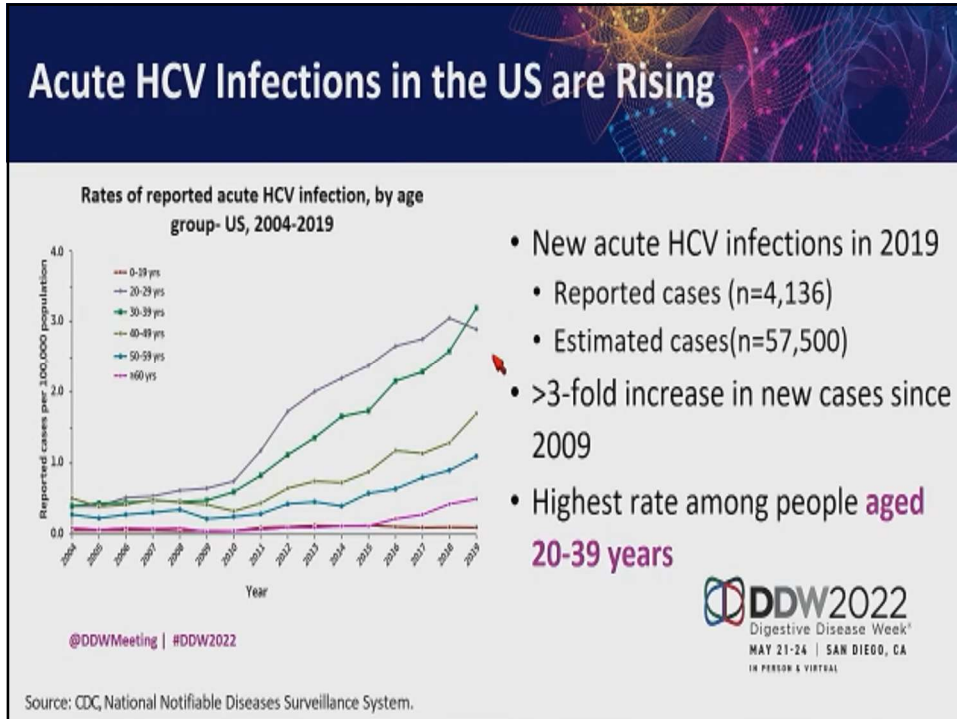
| | Rapid Treatment (n=14) | Usual Care (n=11) | p-value |
|--|------------------------|-------------------|---------|
| SVR achieved during study by 12 months (Intention-to-treat) | | | |
| Yes | 9 (64.3%) | 1 (9.1%) | 0.01 |
| No | 5 (35.7%) | 10 (90.9%) | |
| Continued viremia | 2 | 10 | |
| Missing viral load testing | 3* | 0 | |
| Clinical Outcome of those who Initiated DAA therapy | | | |
| | (n=13) | (n=3) | |
| SVR | 9/13 (69.2%) | 1/3 (33.3%) | 0.52 |
| Treatment failure | 1/13 (7.7%) | 2/3 (66.7%) | 0.07 |
| Unknown | 3/13 (23.1%) | 0/3 (0.0%) | |

*One patient incarcerated within 7 days of initiating DAA therapy (remained incarcerated through remainder of study window); two patients without SVR testing, both of whom had undetectable viral load on treatment and confirmed treatment completion

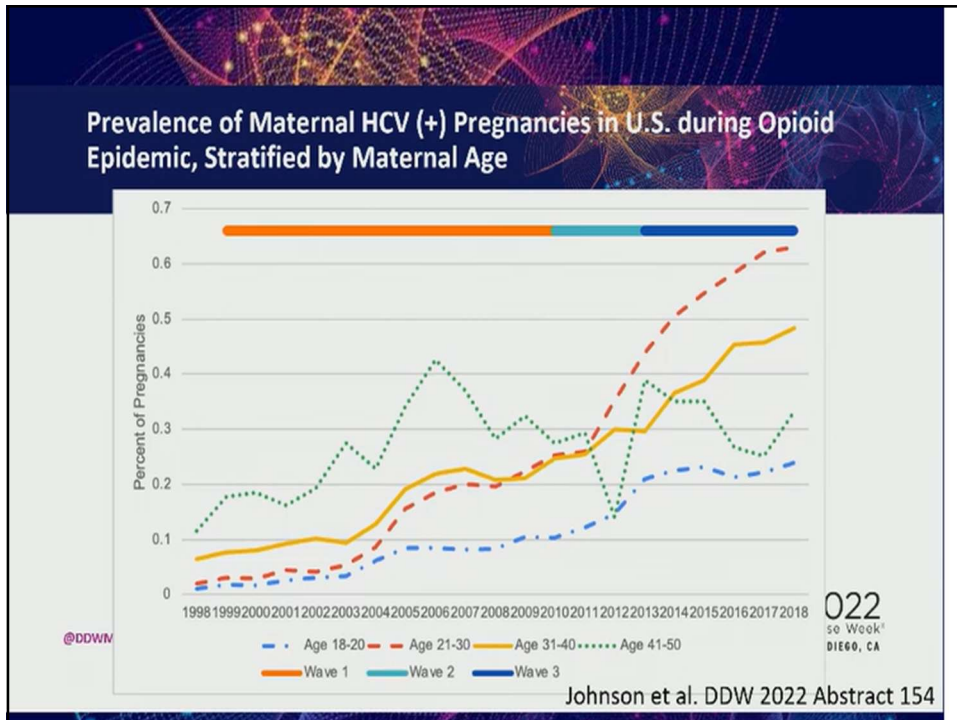
| Stage | Rapid Treatment | Usual Care |
|---------------------------------|-----------------|------------|
| Confirmed HCV RNA+ | 14 | 11 |
| Initial visit with HCV provider | 14 | 5 |
| Complete baseline labs | 14 | 5 |
| Treatment initiated | 13 | 3 |
| Treatment Completed | 12 | 1 |
| SVR12 | 9 | 1 |

Eckhardt B, et al., Abstract 97.

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Reported Prevalence of Maternal HCV Infection is Rising

HCV prevalence (per 1,000 live births) at the county level in the US, 2017

Reported prevalence of maternal HCV infection **increased 161%** from 2009 to 2017.

@DDWMeeting | #DDW2022

Rossi RM, et al. Obstet Gynecol 2020.

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Maternal HCV Infection was the Second Most Prevalent and Most Rapidly Rising Infection in the US

Number of reported maternal infections by birth year

| Year | Hepatitis C | Hepatitis B | Syphilis |
|------|-------------|-------------|----------|
| 2012 | 8,015 | 8,019 | 1,887 |
| 2013 | 7,585 | 7,873 | 2,457 |
| 2014 | 12,710 | 8,281 | 2,803 |
| 2015 | 14,206 | 8,706 | 3,205 |
| 2016 | 16,229 | 8,799 | 3,372 |
| 2017 | 17,719 | 8,810 | 3,817 |

- The total reported number of maternal HCV cases exceeded the number of reported HBV and syphilis cases combined.
- HCV was the only infection not universally screened for in pregnancy during this time.

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GALAD score improves early detection of HCC prior to the diagnosis of HCC: a phase 3 biomarker validation study

Aims

- To compare the performance of AFP and GALAD for the detection of HCC
- To determine the performance of AFP and GALAD in those who underwent surveillance by US or CT/MRI

Methods

- A phase 3 biomarker validation study-HEDS study.
- Prospective cirrhosis cohort study of 1559 patients
- GALAD tested blindly at diagnosis and 6 months prior to HCC diagnosis.

Main Findings

- GALAD had the best performance of any biomarker at HCC diagnosis and 6 months prior to HCC diagnosis.
- GALAD can potentially limit unnecessary diagnostic CT or MRI.

Conclusions

- GALAD has better performance characteristics 6 months prior to HCC diagnosis and at the time of HCC diagnosis.

Marrero J, et al., Abstract 138.

| | DCP | AFP-L3 | AFP | GALAD |
|-------------------------|------|--------|------|--------------|
| Threshold | 2.82 | 6.35% | 9.12 | - 0.76 score |
| AUC | 0.79 | 0.66 | 0.68 | 0.81 |
| Sensitivity | 44% | 38% | 33% | 54% |
| Specificity (fixed 90%) | 90% | 90% | 90% | 90% |



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A blood-based prognostic liver secretome signature for long-term HCC risk prediction and chemopreventive intervention

Aim

To identify a blood-based secretome signature to predict long-term HCC risk and to monitor chemopreventive intervention in patients with advanced liver fibrosis

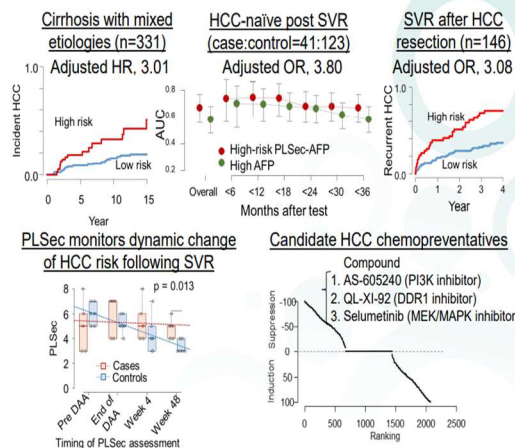
Methods

A serum protein-based signature, PLSec, was identified from previously validated hepatic transcriptome signature using our bioinformatic pipeline, TexSEC, and independently validated for its association with long-term HCC risk in three clinical scenarios (cirrhosis patients from mixed etiologies, HCC-naïve patients post sustained virologic response [SVR] by direct-acting agents [DAA], and HCC-experienced patients post SVR by DAA) as well as monitoring chemopreventive intervention.

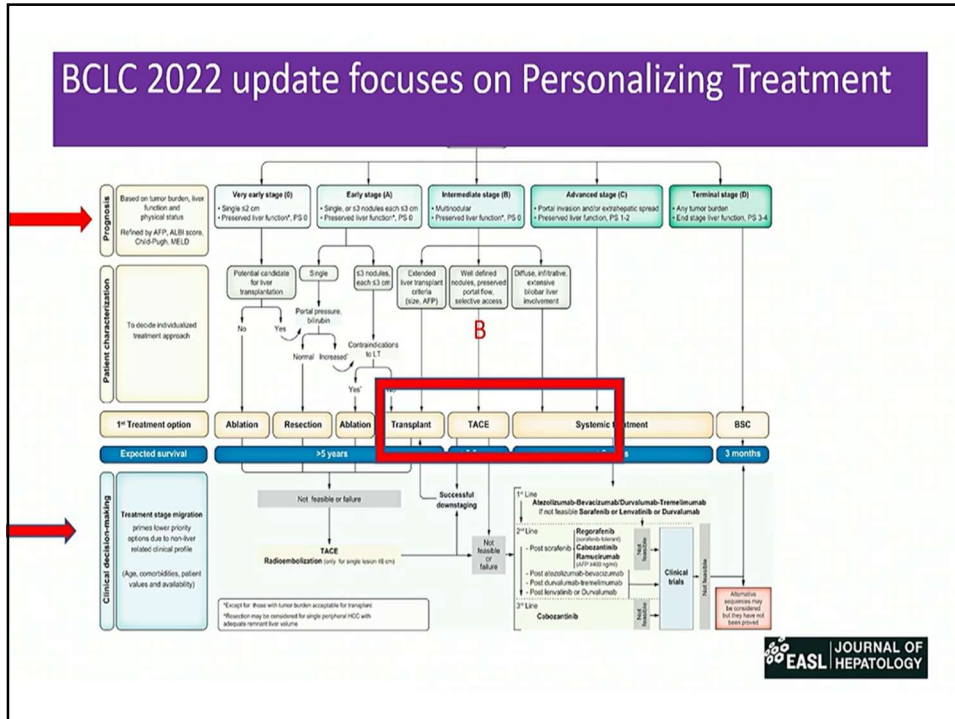
Conclusions

The 8-protein PLSec, including IL-6, gp130, CCL-21, IGFBP-7, MMP-7, VCAM-1, Angiogenin, and Protein S, can stratify patients with advanced liver fibrosis for long-term HCC risk and may serve as a companion biomarker for chemopreventive intervention.

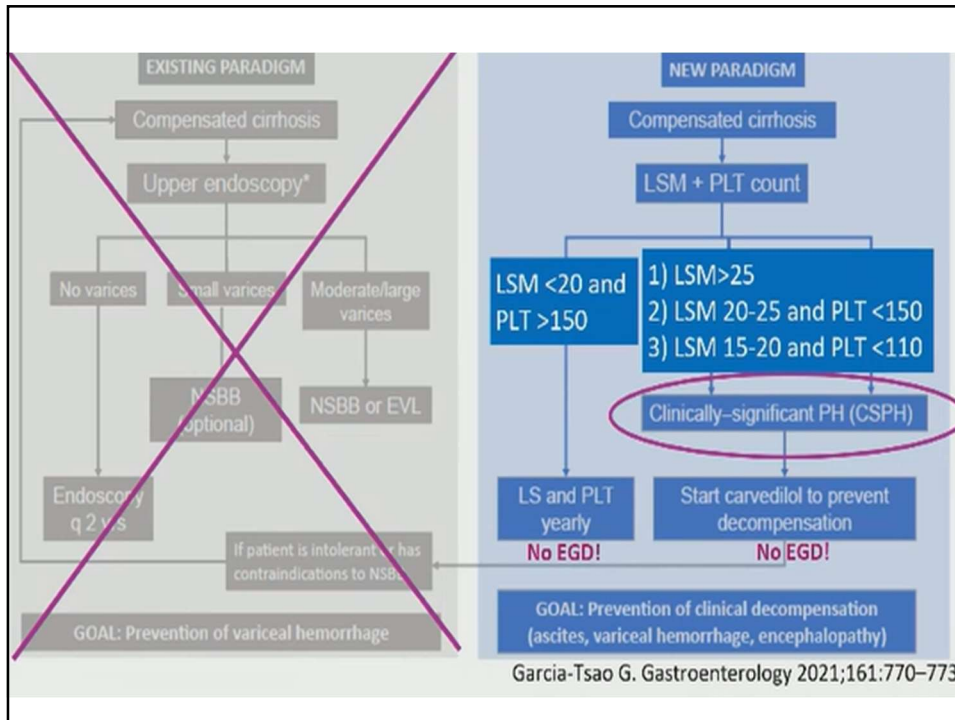
Fujiwara N, et al., Abstract 196.



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4. Covid 19 và bệnh gan

Long-term clinical outcomes of patients with COVID-19 and chronic liver disease: US multicenter COLD study

Aim

To understand the long-term consequences of coronavirus 2019 (COVID-19) in patients with chronic liver disease (CLD)

Methods

Multicenter (15 centers) - Partially Retrospective and Prospective - Electronic Medical Health Record (EMR) Review

Follow-Up - COVID+ patients with CLD - SARS-CoV-2 RNA Positive - ICD-10 Diagnosis of Type of Chronic Liver Disease

Study Cohort

- 15 participating centers
- Median follow-up 364 days
- Total 321 patients

Natural History

- Hospitalization rate during the follow up: 38.3% (n=123)
- Long COVID-19: 26.5% (n=85)
- Long-term mortality was 7.1% (n=23)

Implications

The acute liver injury and lymphopenia observed during COVID-19 resolved in most patients. However, we observed a high burden of morbidity with persistence of symptoms related to COVID-19, weight gain, and alcohol use.

Lab Parameters

All the following lab parameters showed significant improvement after resolution of COVID-19.

Sequelae

- Alcohol Use: 24.3% (n=78) patients reported moderate to heavy alcohol use
- Weight gain was noted in 32% (n=94) patients.

Vaccine Status: 70% had received COVID-19 vaccination

Aby E, et al., Abstract 71.

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Vaccination against COVID-19 decreases hospitalizations in patients with cirrhosis: results from a nationwide analysis

Objective

- To assess the impact of vaccination against COVID-19 in Chilean patients with cirrhosis

Methods

- Quasi-experimental design from nationwide data, using regression discontinuity models to estimate the hospitalization rates (recorded as a continuous variable beyond 14 days following the second vaccination dose)

Main Findings

- 1,648,680 COVID-19 cases. A total of 0.1% COVID-19 cases had underlying cirrhosis, and 42.9% required hospitalization.
- We observed a substantial decline of absolute hospitalization rates among patients with cirrhosis who were vaccinated versus those not vaccinated (-12.69, 95%CI -21.71 to -3.68; p <0.01).

Conclusions

- Our nationwide study showed an association between vaccination against COVID-19 and a lower hospitalization risk in patients with cirrhosis.

Diaz LA, et al., Abstract 39.

Absolute reduction in hospitalization rates after administration of two vaccine doses in Chile

Comorbidities

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GHE

Acute hepatitis after COVID-19 vaccine: case series by the International Autoimmune Hepatitis Group and the European Reference Network on Hepatological Diseases

RESULTS (CONT.)

Central histological review of the 59 cases

| Predominantly lobular injury (n=45) | Predominantly portal injury (n=10) | Other (n=4) |
|---|--|-------------------------|
| Lobular hepatitis with confluent necrosis (n=33) | Portal hepatitis with more than mild interface hepatitis (n=8) | Bland cholestasis (n=2) |
| Panlobular hepatitis without confluent necrosis (n=7) | Portal hepatitis with mild interface hepatitis (n=2) | Steatohepatitis (n=1) |
| Isolated central perivenulitis (n=5) | | Minor changes (n=1) |

CONCLUSION

- Acute liver injury with autoimmune features after SARS-CoV-2 vaccination is a heterogeneous condition
- Long-term follow-up is necessary to differentiate between newly acquired classical AIH or AIH-like DILI
- Patients have a good short-term response to immunosuppression, though firm indications on when to start treatment are needed, to avoid adverse effects



Codoni G, et al. ILC 2022, THU435

EASL
The Euro of Hepatology

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KẾT LUẬN.

- Hội nghị AASLD, DDW, EASL có rất nhiều thành tựu mới trong ngành Gan Mật.
- Có những quan điểm mới trong điều trị viêm gan B mạn.
- Trong lĩnh vực viêm gan virus, có nhiều thuốc điều trị khỏi viêm gan B mạn đang nghiên cứu và hứa hẹn tương lai tốt đẹp.
- Nhiều nghiên cứu chứng minh TAF an toàn cho phụ nữ mang thai.
- Nhiều nghiên cứu cho thấy dùng TDF điều trị viêm gan B mạn ít xảy ra HCC hơn khi dùng ETV.
- Quan điểm mới trong điều trị viêm gan C và chăm sóc phụ nữ mang thai nhiễm HCV.
- Nhiều thành tựu trong ung thư tế bào gan nguyên phát và ung thư đường mật.

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