

**Tavola Rotonda: GOM E PDTA DELL'HCC NELLE
RETI ONCOLOGICHE REGIONALI E GESTIONE
DEL PAZIENTE CON HCC NEL TRIVENETO:
ESPERIENZE A CONFRONTO**

IL GOM-HCC A PADOVA

Prof. Alessandro Vitale

Chirurgia Generale 2, Chief: Prof. U. Cillo

*Department of Surgery, Oncology and Gastroenterology,
University of Padua, Padua; Italy*

alessandro.vitale@unipd.it

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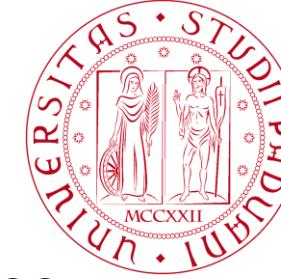
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Dal 2020 su ONLINE su MEET

Dal 2018 su piattaforma Healthmeeting

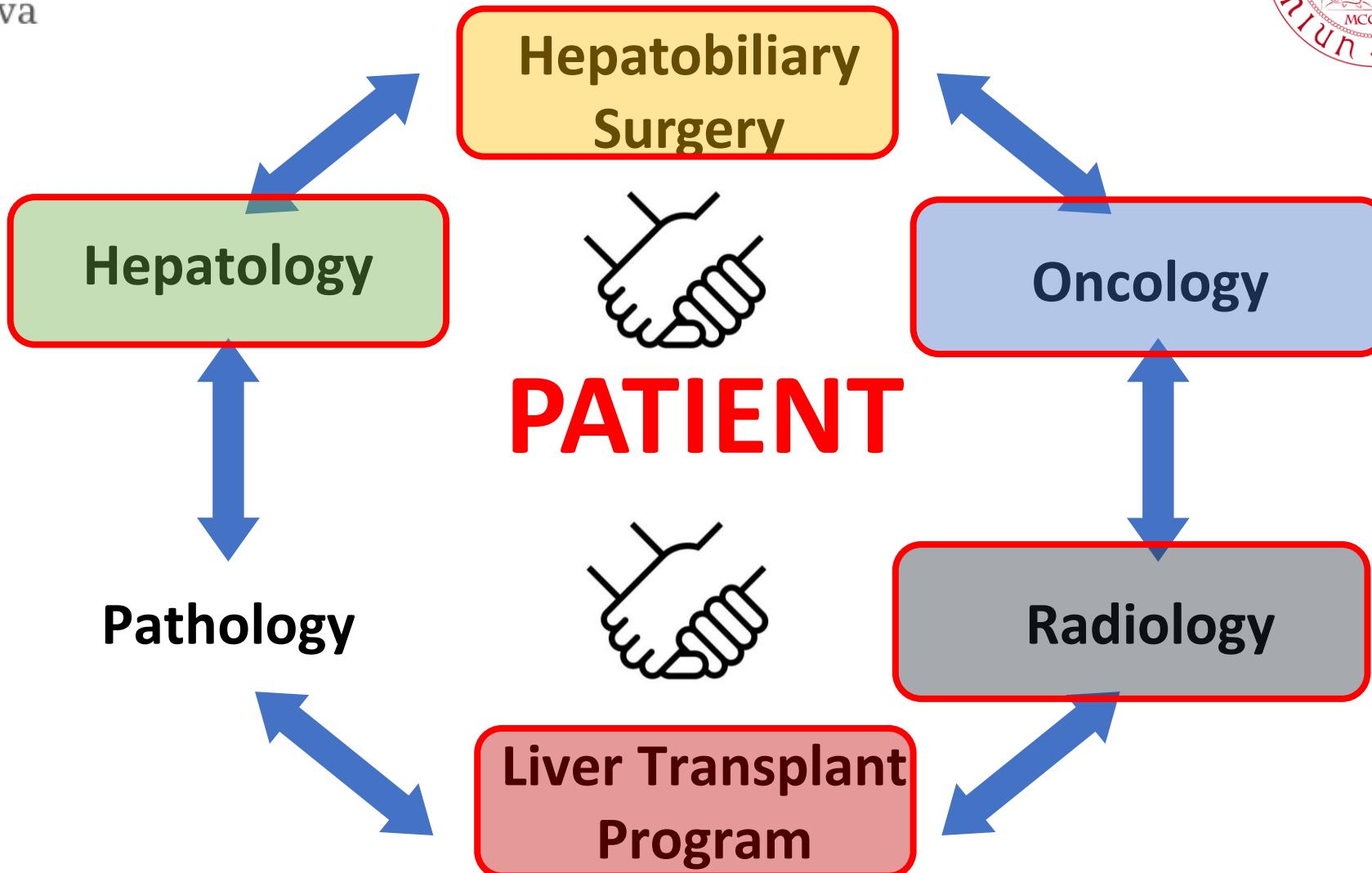


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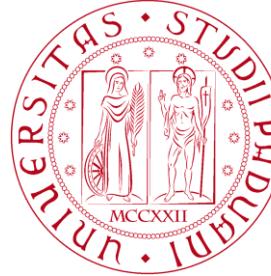


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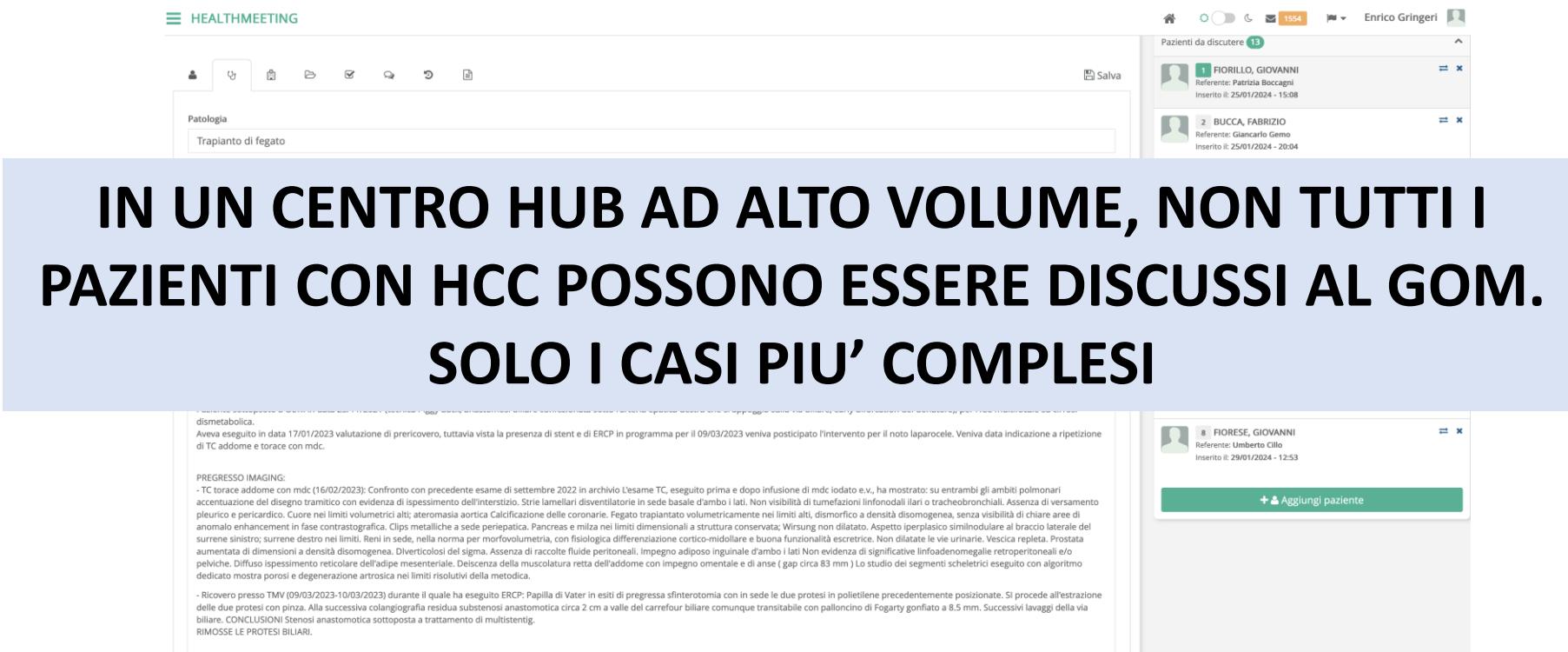


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Dal 2020 su ONLINE su MEET

Dal 2018 su piattaforma Healthmeeting



The screenshot shows the Healthmeeting software interface. At the top, there's a navigation bar with icons for file, edit, and search, followed by the user's name 'Enrico Gringeri'. Below the navigation is a sidebar titled 'Pazienti da discutere' (Patients to discuss) which lists three patients: 'FIORILLO, GIOVANNI' (Referente: Patrizia Boccagni, Inserito il: 25/01/2024 - 15:08), 'BUCCA, FABRIZIO' (Referente: Giancarlo Gemo, Inserito il: 25/01/2024 - 20:04), and 'FIORESE, GIOVANNI' (Referente: Umberto Cillo, Inserito il: 29/01/2024 - 12:53). The main area of the screen displays a large text box containing the following message:

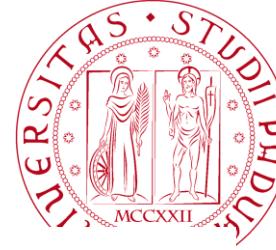
IN UN CENTRO HUB AD ALTO VOLUME, NON TUTTI I PAZIENTI CON HCC POSSONO ESSERE DISCUSSI AL GOM. SOLO I CASI PIU' COMPLESI

Below this message, there is a detailed medical report section. It includes a 'PREGRESO IMAGING:' section with two bullet points. The first point discusses a TC scan from 16/02/2023, mentioning findings such as bilateral hilar lymphadenopathy, mediastinal lymphadenopathy, and hepatomegaly. The second point discusses an ERCP procedure from 09/03/2023, noting the removal of a biliary stent and the placement of a new one. The report also mentions a follow-up TMV procedure on 09/03/2023. At the bottom left, there's a copyright notice for Wezen Technologies s.r.l. and at the bottom right, the 'healthmeeting' logo.



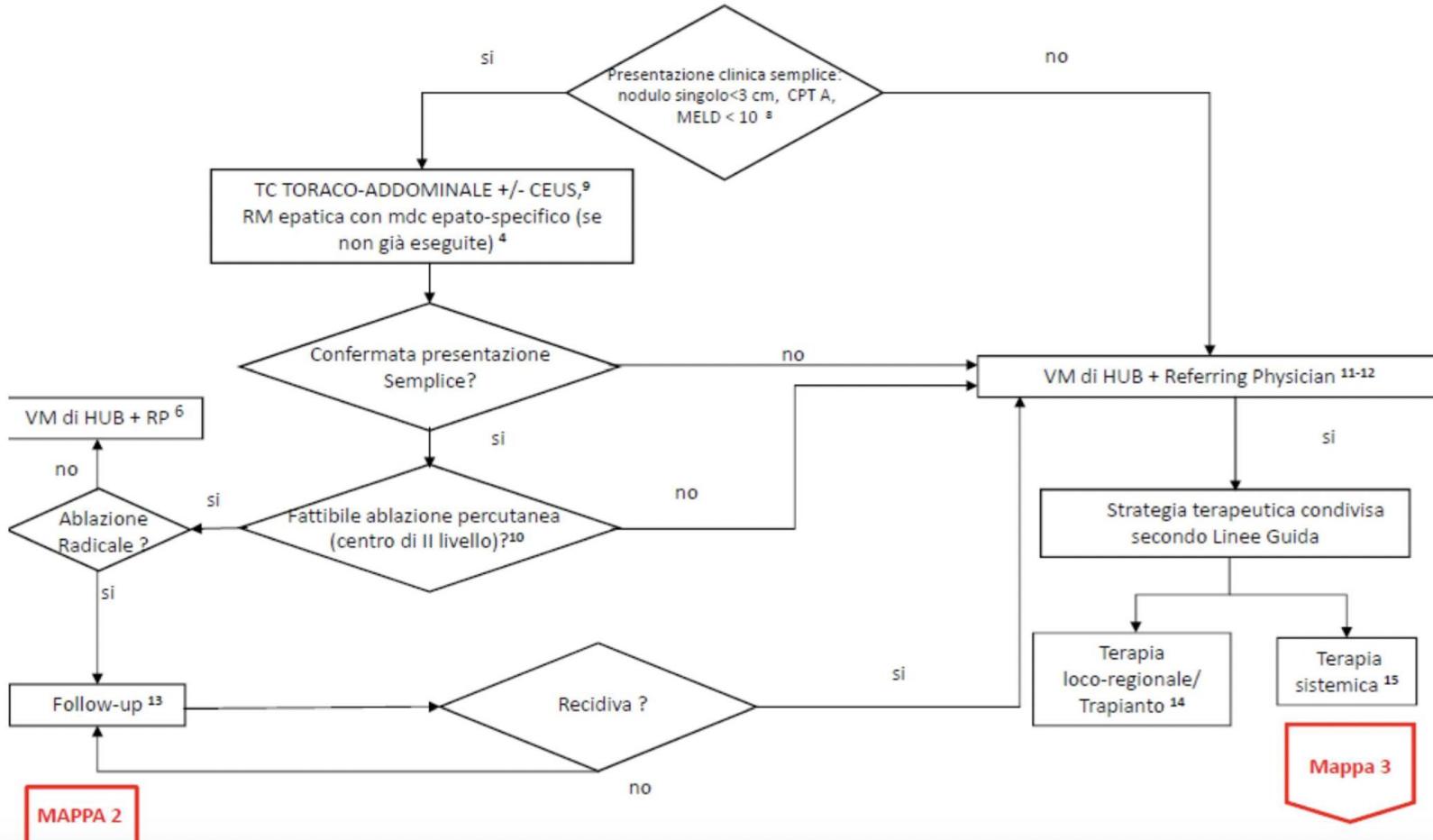
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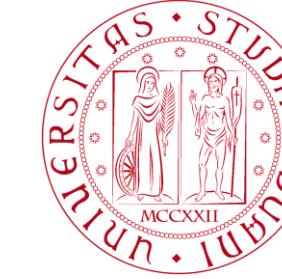
Mappa 1

Pazienti con diagnosi di HCC





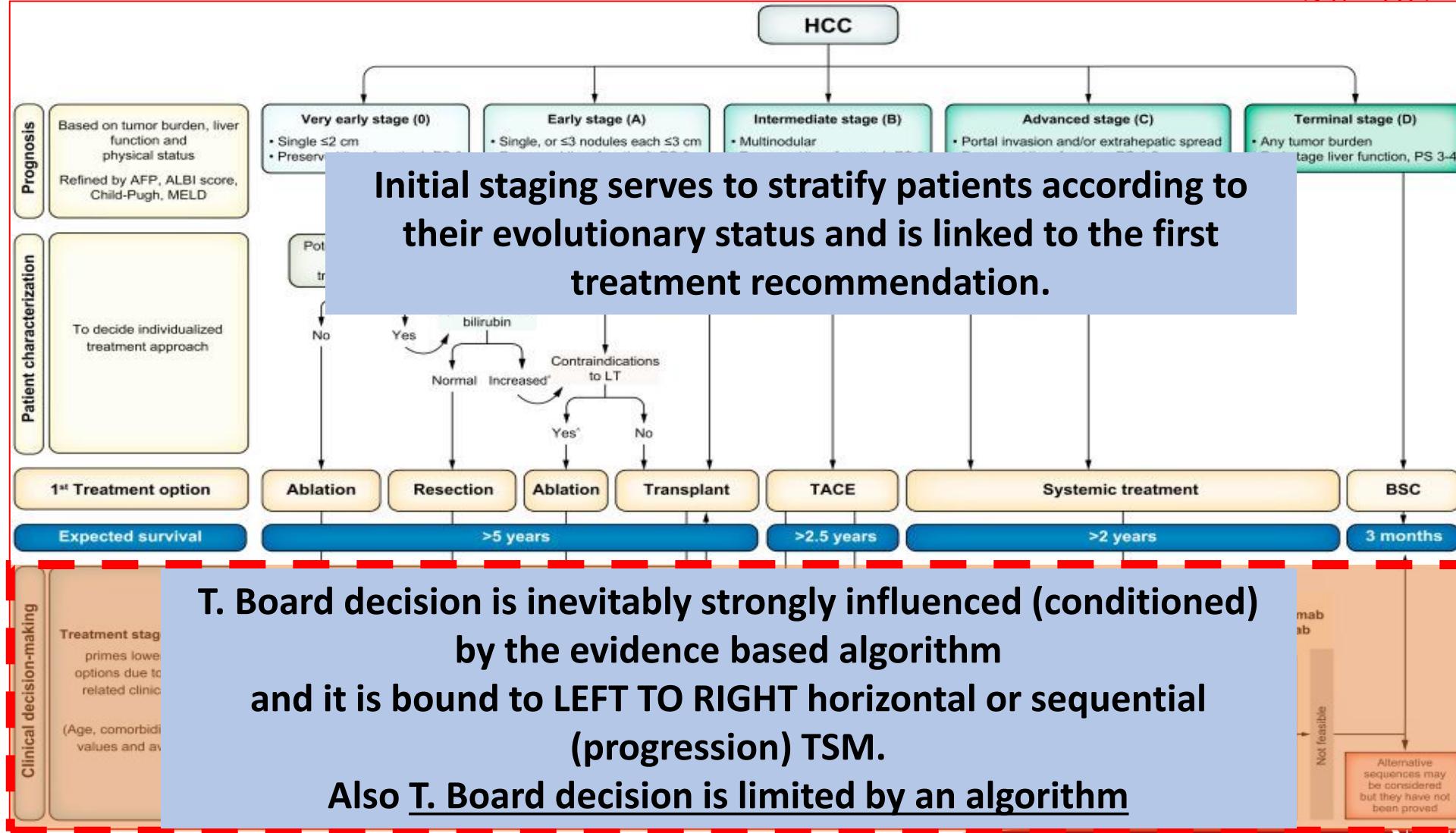
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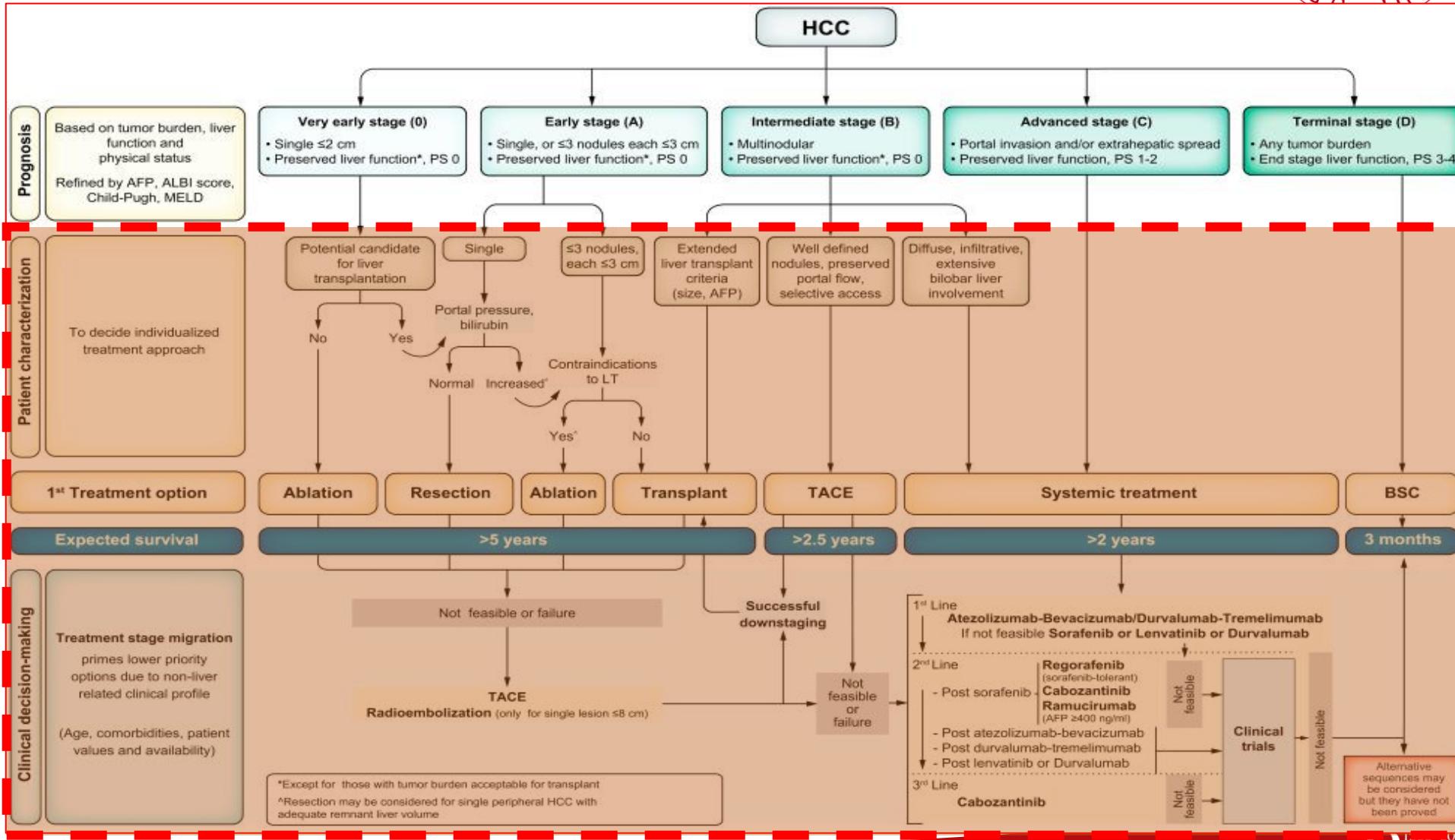
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The 2022 BCLC update

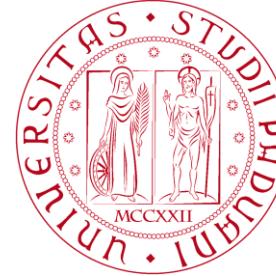


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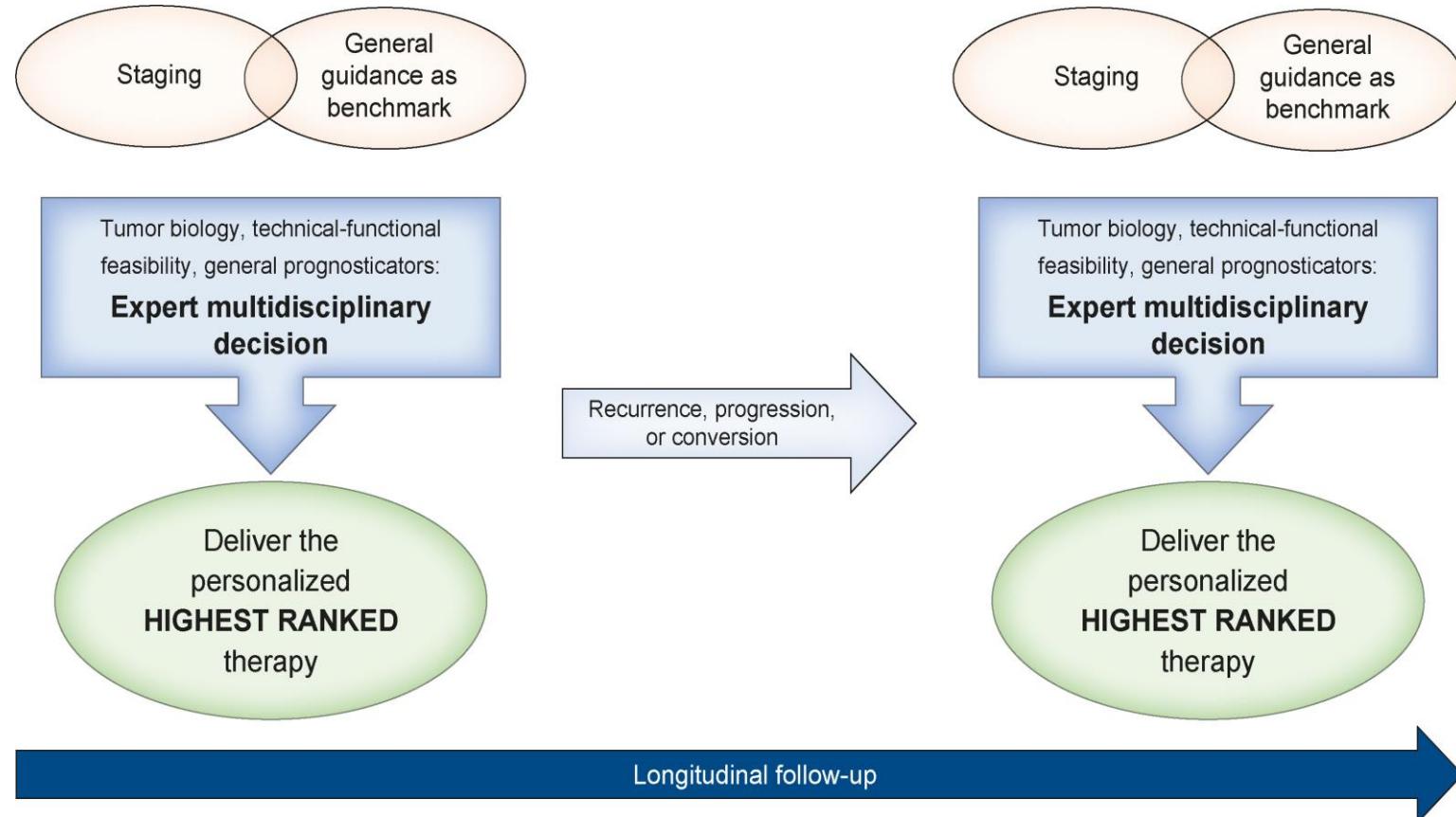
The 2022 BCLC update



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Lancet Oncol 2023; 24: e312-22



Personalised management of patients with hepatocellular carcinoma: a multiparametric therapeutic hierarchy concept

Alessandro Vitale, Giuseppe Cabibbo, Massimo Iavarone, Luca Vigani, David J Pinato, Francesca Romana Ponziani, Quirino Lai, Andrea Casadei-Gardini, Ciro Celis, Giovanni Galati, Martina Gambato, Laura Crocetti, Matteo Renzulli, Edoardo G Giannini, Fabio Farinati, Franco Trevisani, Umberto Cillo, on behalf of the HCC Special Interest Group of the Italian Association for the Study of the Liver*



ELSEVIER

Journal of Hepatology

Available online 22 January 2024

In Press, Journal Pre-proof [What's this?](#)



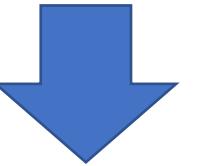
Expert Opinion

Merits and boundaries of the Barcelona Clinic Liver Cancer Staging and Treatment Algorithm: learning from the past to improve the future with a novel proposal.

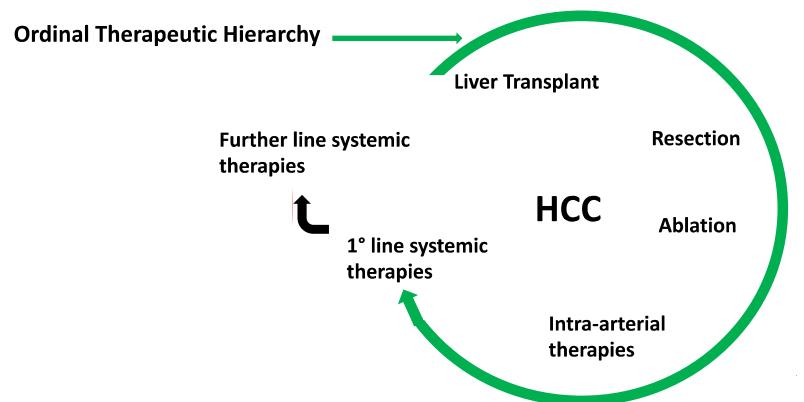
Franco Trevisani^{1 2 a}, Alessandro Vitale^{3 a} , Masatoshi Kudo⁴, Laura Kulik⁵, Joon-Won Park⁶, David J. Pinato^{7 8}, Umberto Cillo³

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Multi-parametric therapeutic Hierarchy



ENDPOINT = SURVIVAL BENEFIT



Multiparametric multidisciplinary expert decision based on:

- Frailty and Performance status
- Comorbidities
- Tumor burden
- Liver dysfunction
- Technical feasibility

Multi-society Italian guidelines. <https://doi.org/10.1016/j.dld.2023.10.028>

Multiparametric multidisciplinary expert decision						
	Unfit	Critical tumor features			Liver dysfunction	Unfeasibility
		PS >2*	Extra-hepatic ^a	Adverse biology or location		
Exclude therapy if (multifactorial weight)						
Exclude liver transplant if	Comorbidities, severe frailty, ↑ biological age XXX	STOP	STOP	Beyond criteria, ↑ AFP or PIVKA-II, SD or PD XX	—	LDLT/DCD unavailable, ↑ expected WT, technical constrains XXX
Exclude mini-invasive liver resection if	Comorbidities, severe frailty XX	STOP	STOP	>3 nodules, critical location X	Severe CRP, >Child-Pugh B 7, ↓ liver remnant XX	Technical constrains XX
Exclude liver resection if	Comorbidities, severe frailty XX	STOP	STOP	>3 nodules, critical location X	MELOD ≥10, ↑ CRP, >Child-Pugh A 6, ↓ liver remnant XXX	Technical constrains XX
Exclude percutaneous ablation if	Severe comorbidities X	STOP	STOP	Size >3 cm, >3 nodules, critical location XXX	>Child-Pugh B 7, high risk of bleeding XX	Technical constrains X
Exclude video-laparoscopic ablation if	Severe comorbidities X	STOP	STOP	Size >4 cm, >5 nodules, critical location XX	>Child-Pugh B 9 X	Technical constrains XX
Exclude intra-arterial therapies if	Severe comorbidities X	STOP	STOP	Size >5 cm (TACE), diffuse-infiltrative, i.h. PVT (TACE) XX	Child-Pugh >B 7 XXX	Technical constrains, unavailability (high costs) XX
Exclude systemic therapy if	Severe comorbidities X	STOP	—	Child >B 7 XXX	—	Cost-ineffectiveness XX
Best supportive care	—	—	—	—	—	—

Weight of each variable as a relative contraindication in the multifactorial assessment:

— Irrelevant X Low XX Intermediate XXX Relevant STOP Contraindication

Vitale A, ... Cillo U. Lancet Oncology 2023

Trevisani F, Vitale A, ... Cillo U. JHEP 2024

Exclude therapy if (multifactorial weight)	Unfit	Critical tumor features			Liver dysfunction	Unfeasibility
		PS >2*	Extra-hepatic ^a	Adverse biology or location		
Exclude liver transplant if	Comorbidities, severe frailty, 1 biological age	XXX	STOP	STOP	XX	LDLT/DCD unavailable, 1 expected WT, technical constrains
Exclude mini-invasive liver resection if	Comorbidities, severe frailty	XX	STOP	STOP	X	>3 nodules, critical location
Exclude liver resection if	Comorbidities, severe frailty	XX	STOP	STOP	X	>3 nodules, critical location
Exclude percutaneous ablation if	Severe comorbidities	X	STOP	STOP	XXX	Size >3 cm, >3 nodules, critical location
Exclude video-laparoscopic ablation if	Severe comorbidities	X	STOP	STOP	XX	Size >4 cm, >5 nodules, critical location
Exclude intra-arterial therapies if	Severe comorbidities	X	STOP	STOP	XX	Size >5 cm (TACE), diffuse-infiltrative, i.h. PVT (TACE)
Exclude systemic therapy if	Severe comorbidities	X	STOP	—	XXX	Child-Pugh >B7, Technical constrains, unavailability (high costs)
Best supportive care	—	—	—	—	—	Cost-ineffectiveness

Weight of each variable as a relative contraindication in the multifactorial assessment:

- Irrelevant
- X Low
- XX Intermediate
- XXX Relevant

STOP

Vitale A, ... Cillo U. Lancet Oncology 2023

Trevisani F, Vitale A, ... Cillo U. JHEP 2024

Converse therapeutic Hierarchy

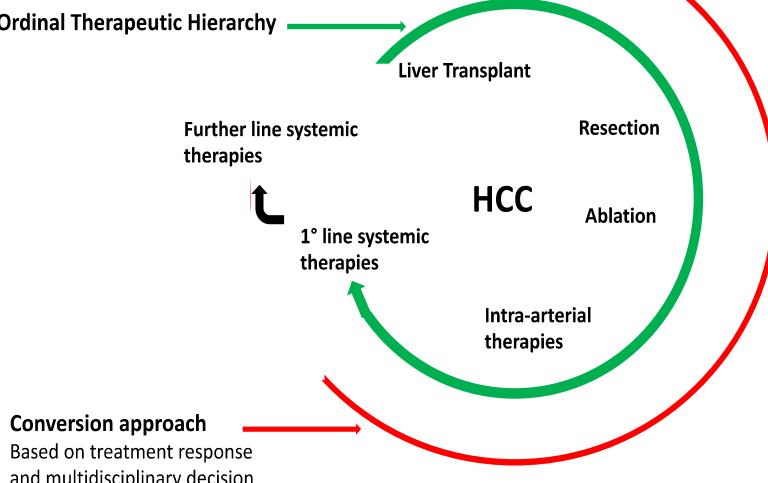


ENDPOINT = CONVERSION

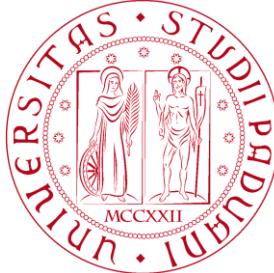
Multiparametric multidisciplinary expert decision based on:

- Frailty and Performance status
- Comorbidities
- Tumor burden
- Liver dysfunction
- Technical feasibility

Ordinal Therapeutic Hierarchy

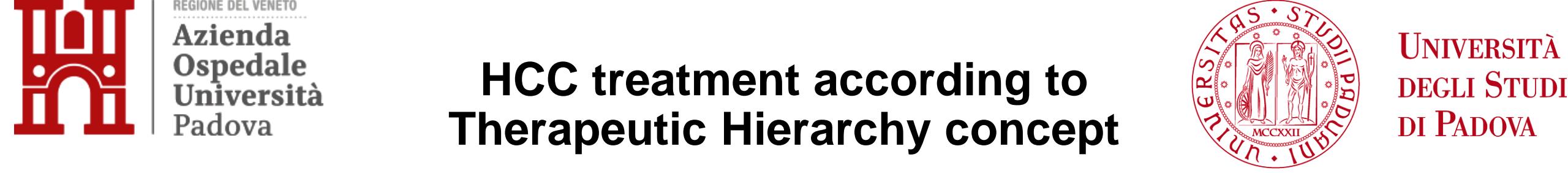


Multi-society Italian guidelines. <https://doi.org/10.1016/j.dld.2023.10.028>

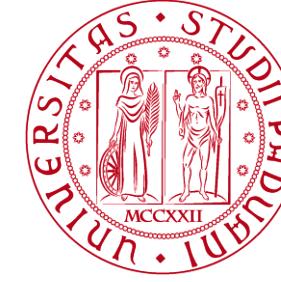


Please insert progressive patient number
Only for in-protocol patients





HCC treatment according to Therapeutic Hierarchy concept



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Personal data

Only for in-protocol patients

Name:

Surname:

Date of birth:

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HCC treatment according to Therapeutic Hierarchy concept

Clinical data – Liver function

Only for in-protocol patients

Liver cirrhosis:

YES NO

Etiology:

HCV HBV ETOH MASLD Other

Variceal bleeding:

YES NO

EPS:

YES NO

EPS Grade:

1 - 2 3 - 4

Ascites:

YES NO

Ascites Grade:

1 2 3

Clinical data – Scores

Only for in-protocol patients

Child – Pugh:



LFI:



MELD:



ECOG:



Meld-Na:



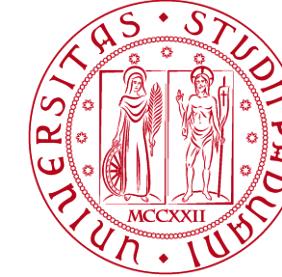
CCI:



ALBI:



HCC treatment according to Therapeutic Hierarchy concept



Clinical data – Cancer features

Only for in-protocol patients

Extra-hepatic disease:

YES

NO

Number of nodules:



Neoplastic PVT:

YES

NO

Diameter of the largerst
nodule (cm)



Previous HCC treatments

YES

NO

Specify previous treatments



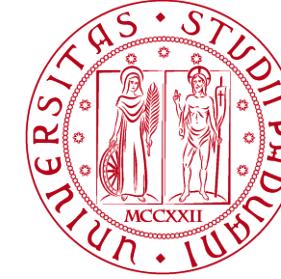
Chosen treatment:

Liver transplantation

YES

NO

HCC treatment according to Therapeutic Hierarchy concept



Chosen treatment:

Liver transplantation

YES

Need for downstaging or bridging treatments?

Click here to continue in the
therapeutic hierarchy

YES

NO

Click here to start again

HCC treatment according to Therapeutic Hierarchy concept

Chosen treatment:

Liver transplantation

NO

Why not?

Select one or more

Patient's fitness

Critical tumor features

Unfeasibility

Comorbidities
Severe frailty
High biological age

PS > 2

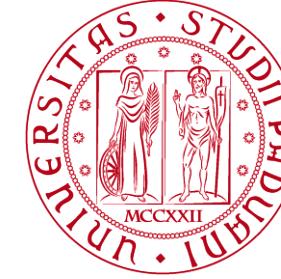
Extrahepatic disease

HCC beyond criteria
High AFP or PIVKA-II
SD or PD

High expected WT
LDLT/DCD unavailable
Technical constrains



HCC treatment according to Therapeutic Hierarchy concept

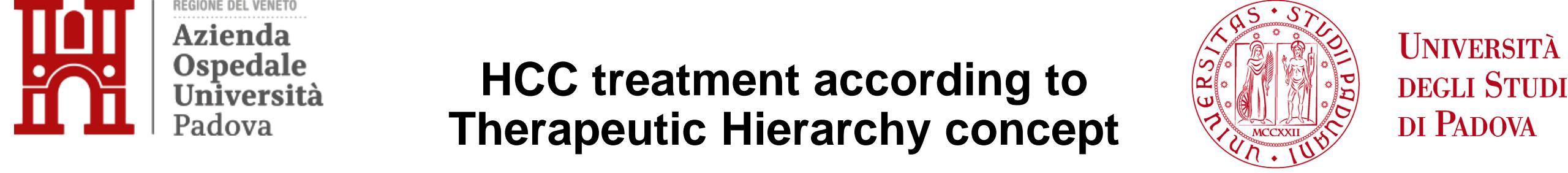


Chosen treatment:

Mini-invasive liver resection

YES

NO



HCC treatment according to Therapeutic Hierarchy concept

Chosen treatment:

Mini-invasive liver resection

YES

Click here to start again

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HCC treatment according to Therapeutic Hierarchy concept

Chosen treatment:

Mini-invasive liver resection

NO

Why not?

Select one or more

Patient's features

HCC features

Liver dysfunction

Unfeasibility

Comorbidities
Severe frailty

PS > 2

Extrahepatic
disease

> 3 nodules
Critical location

Severe CRPH
Low FLR
Child-Pugh > B8

Technical
constraints

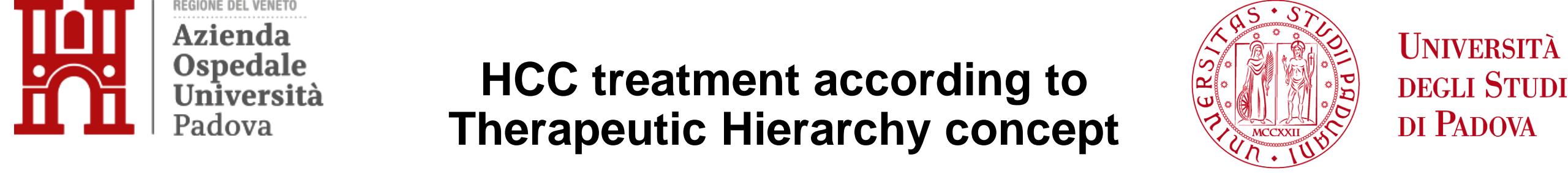
HCC treatment according to Therapeutic Hierarchy concept

Chosen treatment:

Open liver resection

YES

NO



HCC treatment according to Therapeutic Hierarchy concept

Chosen treatment:

Open liver resection

YES

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HCC treatment according to Therapeutic Hierarchy concept

Chosen treatment:

Open liver resection

NO

Why not?

Select one or more

Patient's features

Comorbidities
Severe frailty

PS > 2

HCC features

Extrahepatic
disease

> 3 nodules
Critical location

Liver dysfunction

MELD >10, CPH > A6
CRPH
Low FLR

Unfeasibility

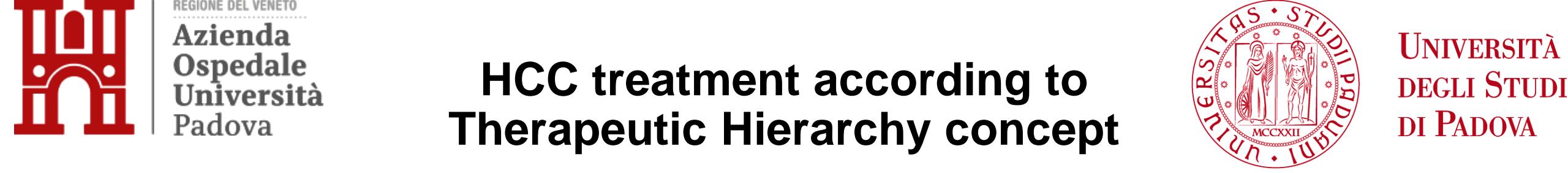
Technical
constraints

Chosen treatment:

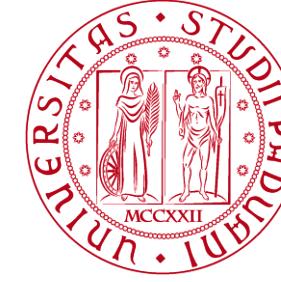
Percutaneous ablation

YES

NO



HCC treatment according to Therapeutic Hierarchy concept



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Chosen treatment:

Percutaneous ablation

YES

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HCC treatment according to Therapeutic Hierarchy concept

Chosen treatment:

Percutaneous ablation

NO

Why not?

Select one or more

Patient's features

HCC features

Liver dysfunction

Unfeasibility

Severe comorbidities

PS > 2

Extrahepatic
disease

Size > 3 cm
> 3 nodules
Critical location

CPH > B7
High bleeding risk

Technical
constraints

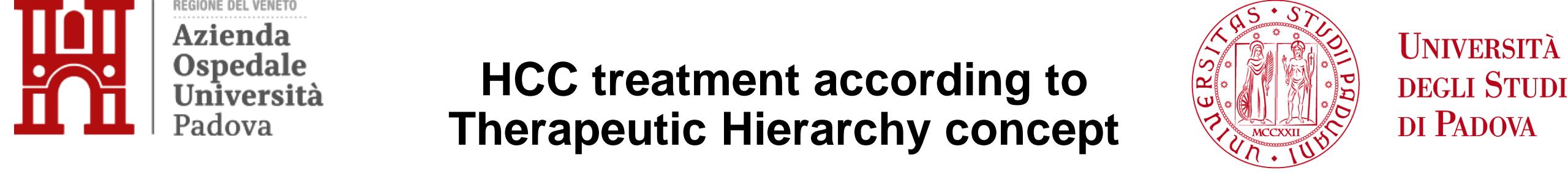
HCC treatment according to Therapeutic Hierarchy concept

Chosen treatment:

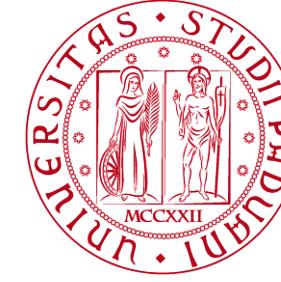
Laparoscopic ablation

YES

NO



HCC treatment according to Therapeutic Hierarchy concept



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Chosen treatment:

Laparoscopic ablation

YES

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HCC treatment according to Therapeutic Hierarchy concept

Chosen treatment:

Laparoscopic ablation

NO

Why not?

Select one or more

Patient's features

HCC features

Liver dysfunction

Unfeasibility

Severe comorbidities

PS > 2

Extrahepatic
disease

Size > 4 cm
> 4 nodules
Critical location

Child-Pugh > B9

Technical
constraints

HCC treatment according to Therapeutic Hierarchy concept

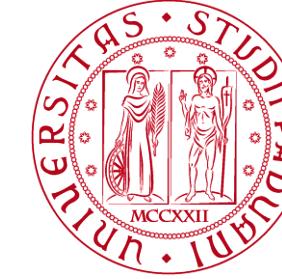
Chosen treatment:

Intra-arterial treatments

YES

NO

HCC treatment according to Therapeutic Hierarchy concept



Chosen treatment:

Intra-arterial treatments

YES

[Click here to start again](#)

HCC treatment according to Therapeutic Hierarchy concept

Chosen treatment:

Intra-arterial treatments

NO

Why not?

Select one or more

Patient's features

HCC features

Liver dysfunction

Unfeasibility

Severe comorbidities

PS > 2

Extrahepatic
disease

Size > 5cm (TACE)
PVT (TACE)

Child-Pugh > B7

Technical constrains
Unavailability

HCC treatment according to Therapeutic Hierarchy concept

Chosen treatment:

Systemic treatment

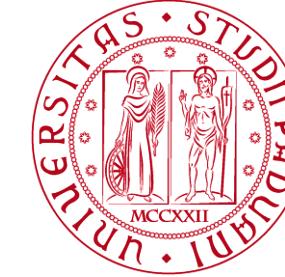
YES

NO

Specify kind of treatment



HCC treatment according to Therapeutic Hierarchy concept



Chosen treatment:

Systemic treatment

NO

Why not?

Select one or more

Patient's features

Liver dysfunction

Unfeasibility

Severe comorbidities

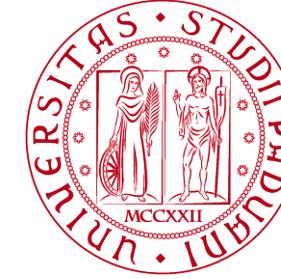
PS > 2

Child-Pugh > B7

Cost-ineffectiveness



HCC treatment according to Therapeutic Hierarchy concept



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Chosen treatment:

Best supportive care

YES

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