

Patient Journey

Approccio personalizzato al paziente e esperienze a confronto:

Epatocarcinoma e Colangiocarcinoma

01 Febbraio 2024 VERONA CROWNE PLAZA Via Belgio, 16



DISCLOSURES

Novartis Grant

Amedeo Carraro, MD PhD FEBS UOSD Trapianti Epatici AOUI Verona





Case report: indication to liver transplantation

- √ M, 69 year-old 2022
- ✓ Multifocal HCC, HBV+ cirrhosis

Past clinical history:

- No potus, sigarettes in the past
- HBV-cirrhosis treated with Entecavir
- Compensated liver function (MELD11); portal hypertension with esophageal varices F2-F3 (endoscopically treated), gastric varices
- L Saphenectomy (30 years ago)
- ❖ Anti-Sars- Cov-2 vaccine (2 doses) + infection (January 2022)



✓ M, 69 year-old Multifocal HCC, HBV+ cirrhosis

Oncological clinical history: 05/2022 Abdomen CT scan





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27/05/2022, 11:35:46

- ✓ M, 69 year-old Multifocal HCC, HBV+ cirrhosis, MELD 12
- ✓ Milan out
- ✓ Portal hypertension, esophageal varices (F2-3), gastropathy;

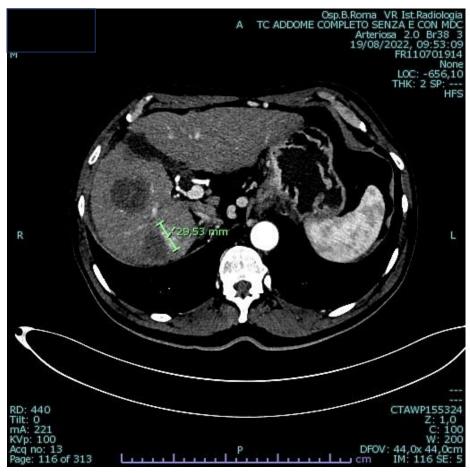


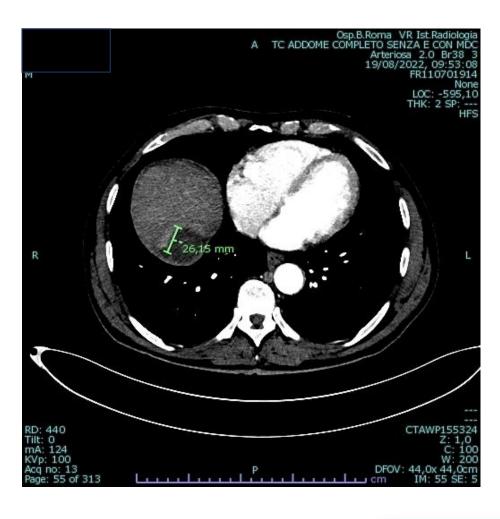
Surg Clin N Am 104 (2024) 129-143

20/07/2022 Surgery: MW laparoscopic ablation (S5, S5-6 & S8)



✓ 08/2022: Abdomen CT scan



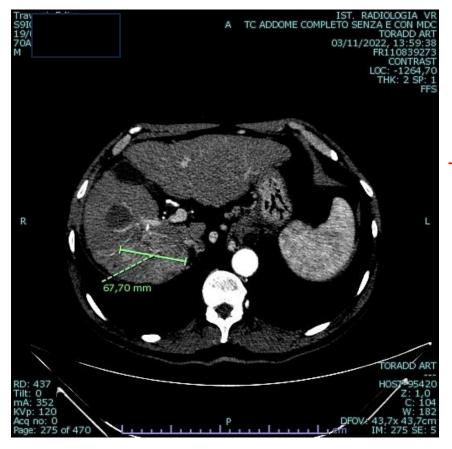


MD Tumour board



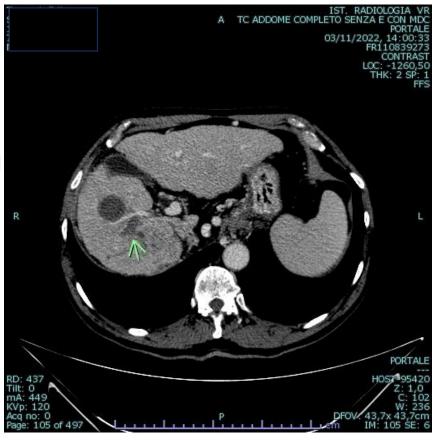


- ✓ 03/11/2022: CT scan
- ✓ Fibroscan (stiffness 74.8 Kpa) → endoscopic treatment esophageal varices



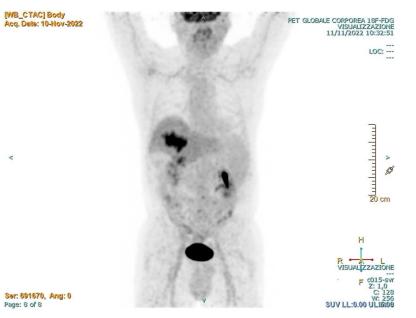


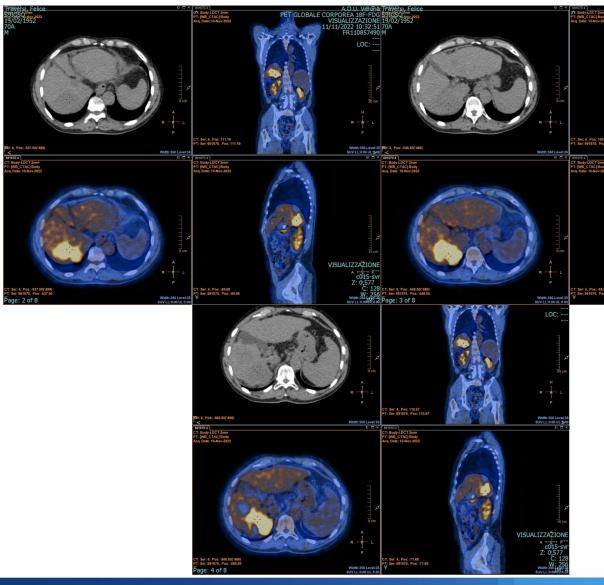






✓ 11/2022: FDG-PET CT





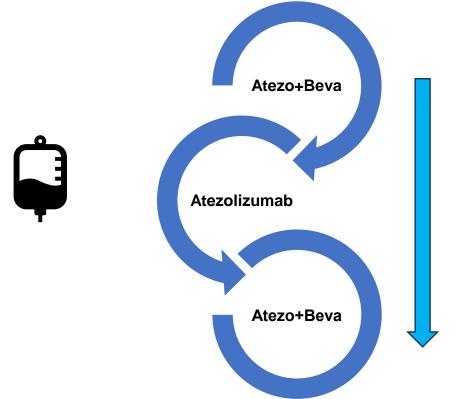


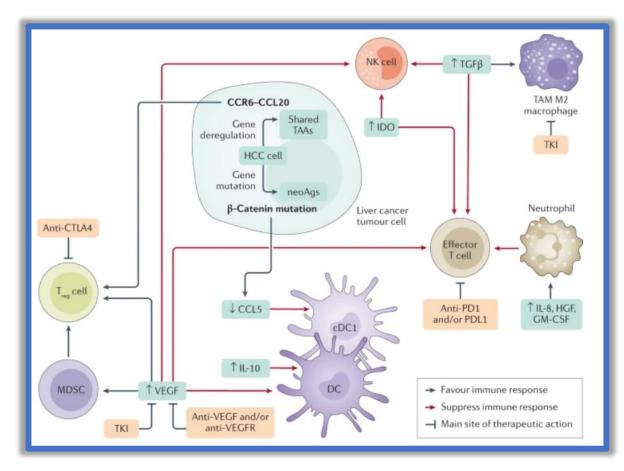
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Systemic Therapy: Atezolizumab + Bevacizumab





Sangro B. et al Nature Reviews Gastroenterology & Hepatology (2021) Kudo M. Cancers 2020;12:1089

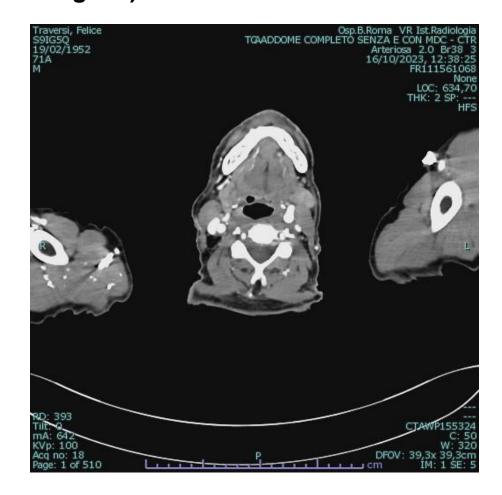


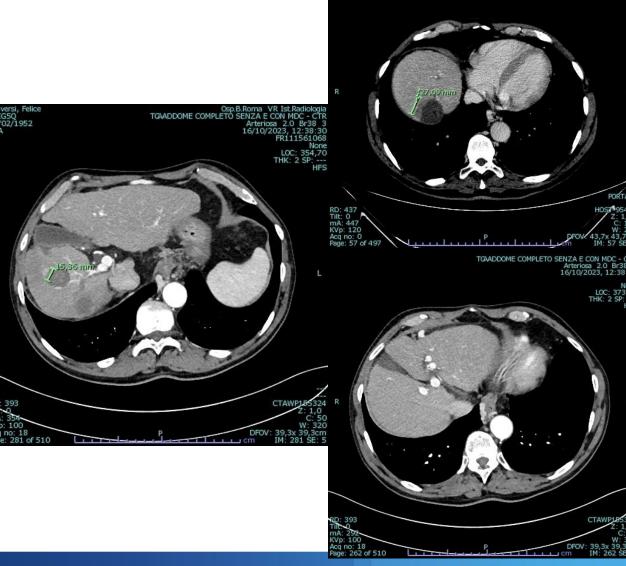
Patient Journey

Epatocarcinoma e Colangiocarcinoma

Atezolizumab + Bevacizumab

PS 0 ECOG, NRS 0/10, Stable and good clinical condition - MELD 14 (aFP 30 ng/mL)







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Currently, there are limited but optimistic data to support the use of neoadjuvant systemic therapies in the treatment of HCC prior to liver transplantation. The use of immunomodulatory therapies in transplant candidates has previously been avoided due to reports of severe rejection and graft loss.



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Authors	Year	No. of patients	ICIs	Mean immunotherapy course	Immunosuppression	Mean time between immunotherapy and LT	Rejection	Recurrence
Schwacha- Eipper et al. (26)	2020	1	Nivolumab	34	N/A	6 weeks	N	N
Chen <i>et al.</i> (45)	2021	5	Nivolumab	3	Tac, MMF	9 weeks	N	2/5 Y
Kang <i>et al.</i> (46)	2021	1	Pembrolizumab	3	Sirolimus, Tac	138 d	N	N
Dehghan et al. (47)	2021	1	Nivolumab	17	Steroids, MMF, Tac	5 weeks	Υ	N/A
Abdelrahim et al. (48)	2022	1	Atezolizumab	6	Tac, MMF	8 weeks	N	N
Dave et al. (49)	2022	5	Nivolumab	N/A	N/A	105 d	2/5 Y	N/A
Sogbe et al. (50)	2021	1	Durvalumab	N/A	Steroids, MMF, Tac	>3 months	N	N
Schnickel et al. (51)	2022	5	Nivolumab	N/A	Steroids, MMF, Tac	14.6 months	2/5 Y	N
Tabrizian et al. (52)	2021	9	Nivolumab	13	Steroids, MMF, Tac	40.8 months	1/9 Y	N
Lizaola- Mayo <i>et al.</i> (53)	2021	1	lpilimumab Nivolumab	N/A	Tac, MMF, ATG, steriods	9 weeks	N	N
Chen <i>et al.</i> (54)	2021	1	Toripalimab	10	Tac, steroids	93 d	Υ	N/A
Qiao <i>et al</i> . (55)	2021	7	Pembrolizumab Camrelizumab	3	Basiliximab, steroids, cyclosporine, Tac, sirolimus, MMF	1.3 months	1/7 Y	N/A
Nordness et al. (60)	2020	1	Nivolumab	44	Steroids, MMF, Tac	8 d	Υ	N/A
Aby et al. (61)	2022	1	Nivolumab	23	Steroids, MMF, Tac	16 d	Υ	N/A

ICI, immune checkpoint inhibitor; LT, liver transplantation; MMF, mycophenolate mofetil; Tac, tacrolimus; ATG, anti-thymocyte globulin; N, No; Y, Yes; N/A, not available.

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The remainder of evidence around PD-1 inhibitor use in this patient population is limited to case reports, and further investigations are required to determine whether this will be a viable treatment option in the future.

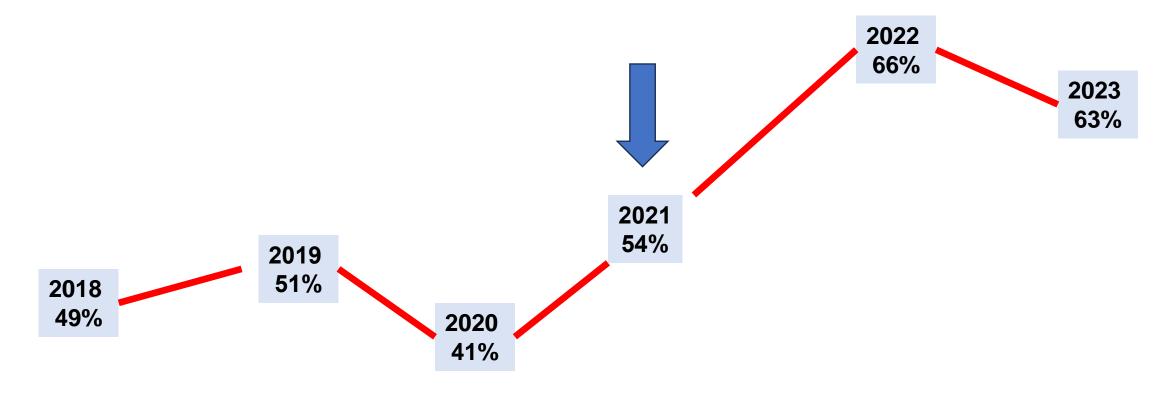
Chin J Cancer Res 2023;35(2):92-107





UOSD - Liver Transplant Unit Dr. A. Carraro University Hospital Trust, Verona







MD Tumour board & Liver Tx...

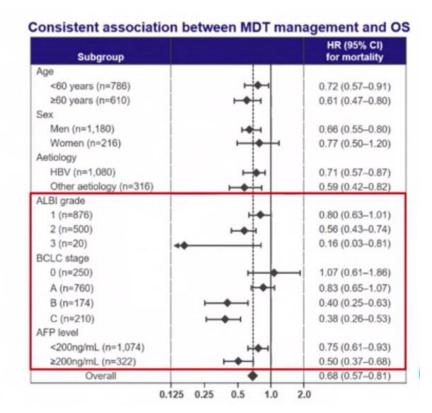
Future goals of HCC treatment

drop-out from the overall survival recurrence rate Which? transplant list How? - Optimize criteria for transplantability - Maximize the effectiveness of loco-regional techniques - Choice of the best perioperative systemic therapy Optimize patient selection and personalize treatment schemes



Tumour board: clinical impact





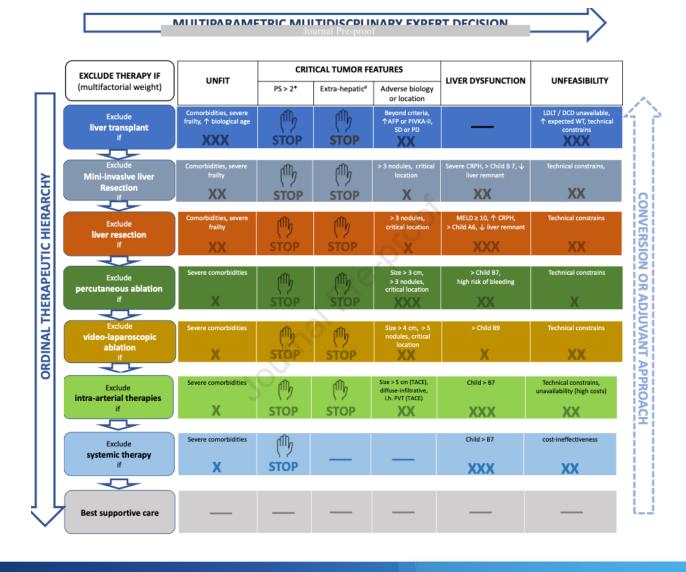
Sinn et al PlosOne 2019



the concept of "converse therapeutic hierarchy"

....Although the BCLC system remains the benchmark against which other therapeutic frameworks must be judged, the era of precision medicine requires patient-tailored therapeutic choices ...

Journal of Hepatology (2024) https://doi.org/10.1016/j.jhep.2024.01.010.





CONCLUSION

MD tumour board -- mutiparametric vision

Defining a personalization of the treatment

Expanding the Boundaries for LTx in HCC

integration a comprehensive patient clinical assessment, biomarkers, technical aspects and considerations on resource availability.

«shift» – when possbile – of the therapeutic strategy

Timing

