LEUVEN | DIGESTIVE ONCOLOGY



# New agents in the treatment of liver cancer

Deep Dive into Liver Cancer – Session IV, 5th DiCE Masterclass 2020

21-10-2020

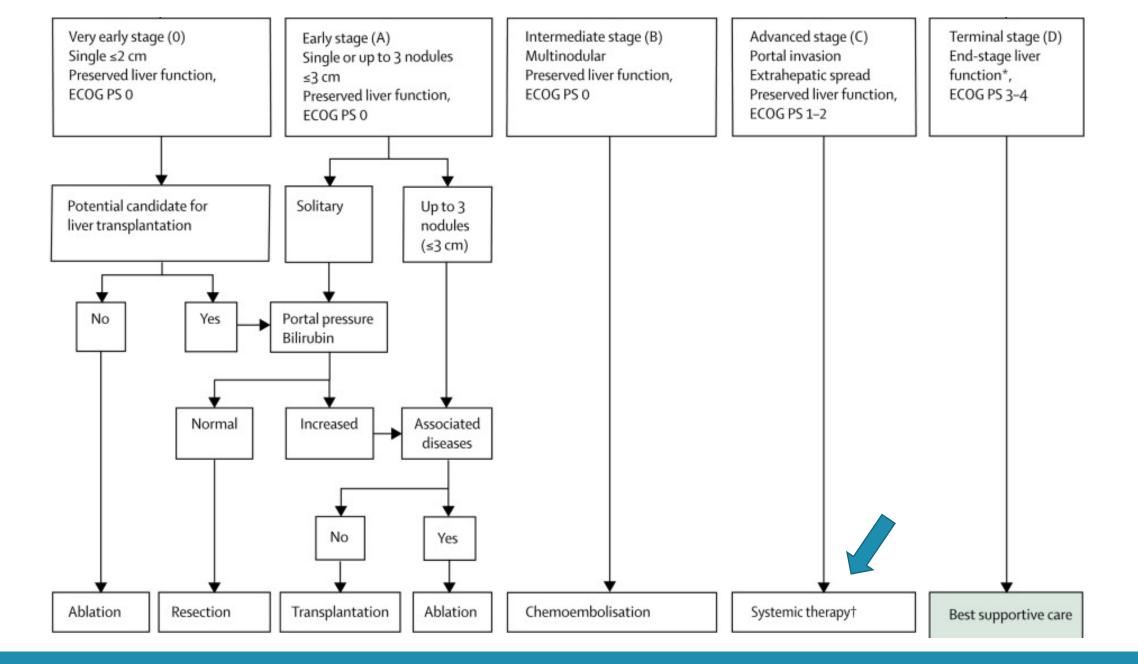


Jeroen Dekervel - MD PhD



**Relationships with commercial interests:** 

- Grants/Research Support: none
- Speakers Bureau/Honoraria: Amgen, Bayer, Eisai, Ipsen, Lilly, Merck
- Consulting Fees: Eisai, Ipsen, Novartis, Roche
- Travel grants: Ipsen, Servier, Roche



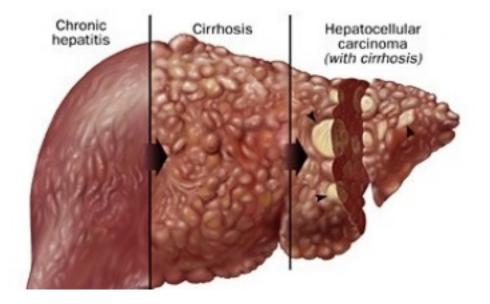
<sup>3</sup> Forner et al. Lancet 2018

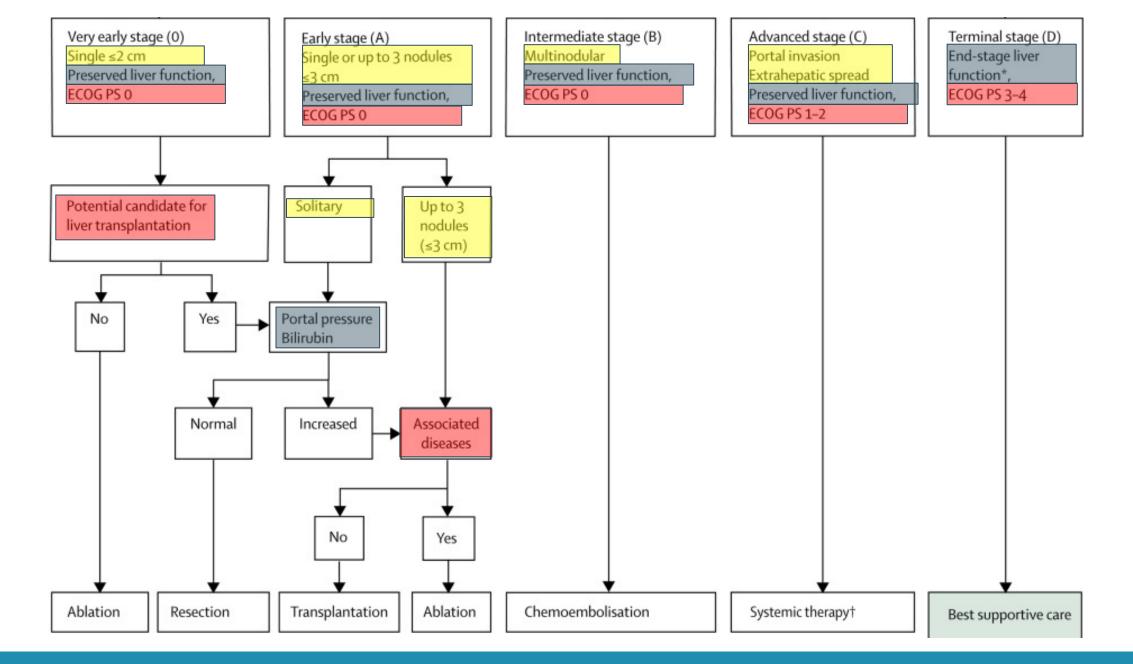
## As a comparison: colon cancer

- Very early stage  $\rightarrow$  surgical resection
- Early stage without involved lymph nodes → surgical resection + sometimes chemotherapy
- Lymph nodes involved but no distant metastasis → surgical resection + chemotherapy
- Distant metastasis  $\rightarrow$  chemotherapy

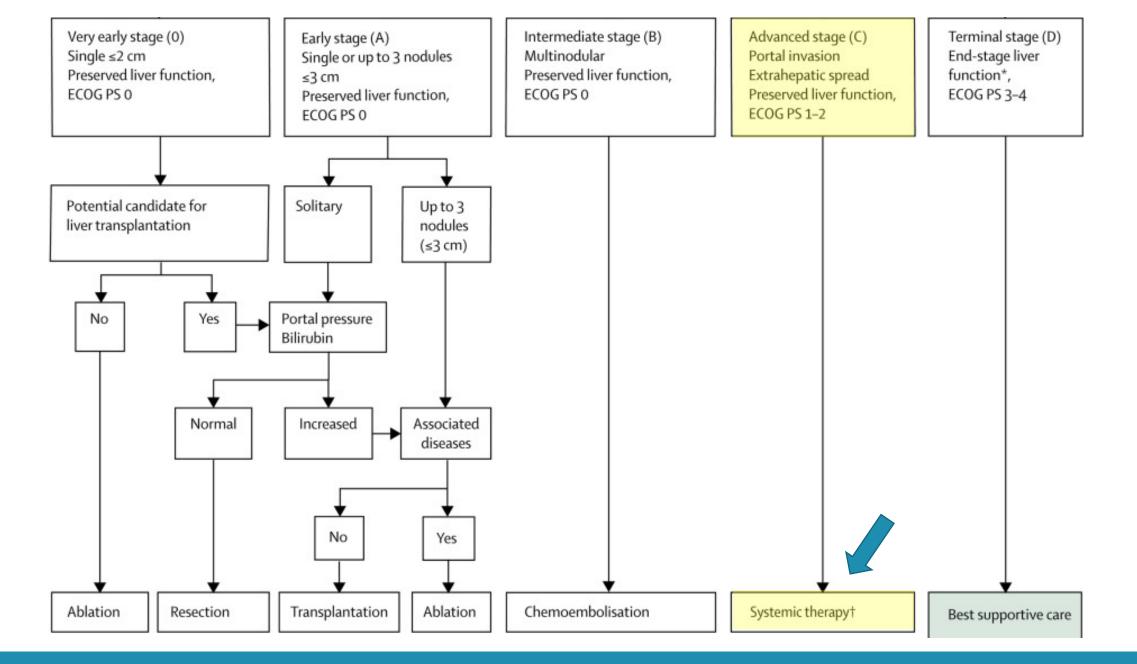
# Hepatocellular carcinoma

- Take into account **disease stage** (like colon cancer)
- Take into account (often) impaired liver function
- Take into account (often) impaired patient
  performance status





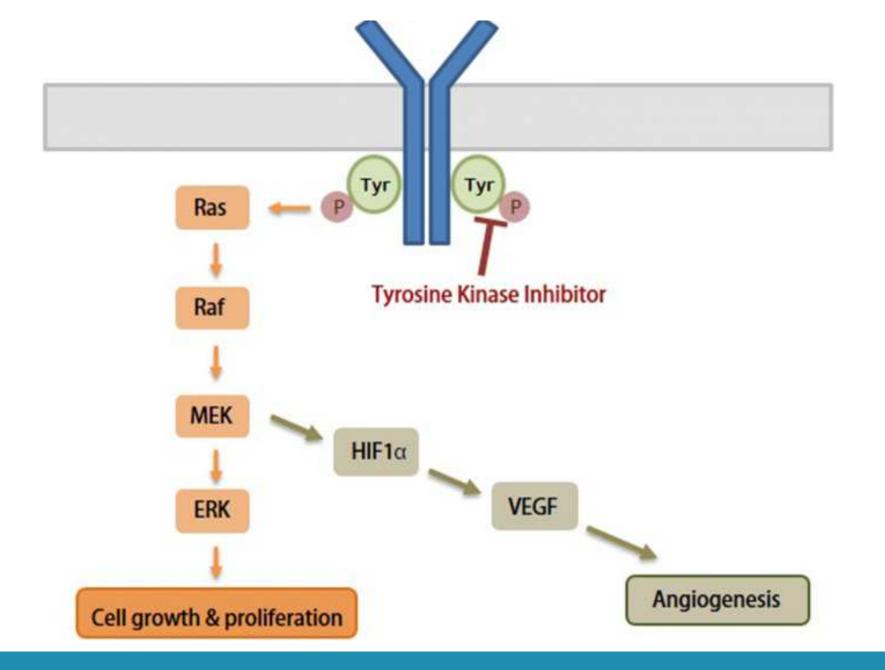




<sup>8</sup> Forner et al. Lancet 2018

Chemotherapy

# **Tyrosine Kinase Inhibitors**



#### ORIGINAL ARTICLE

## Sorafenib in Advanced Hepatocellular Carcinoma

Josep M. Llovet, M.D., Sergio Ricci, M.D., Vincenzo Mazzaferro, M.D., Philip Hilgard, M.D., Edward Gane, M.D., Jean-Frédéric Blanc, M.D., Andre Cosme de Oliveira, M.D., Armando Santoro, M.D., Jean-Luc Raoul, M.D., Alejandro Forner, M.D., Myron Schwartz, M.D., Camillo Porta, M.D., Stefan Zeuzem, M.D., Luigi Bolondi, M.D., Tim F. Greten, M.D., Peter R. Galle, M.D., Jean-François Seitz, M.D., Ivan Borbath, M.D., Dieter Häussinger, M.D., Tom Giannaris, B.Sc., Minghua Shan, Ph.D., Marius Moscovici, M.D., Dimitris Voliotis, M.D., and Jordi Bruix, M.D., N Engl J Med 2008;359:378-90. for the SHARP Investigators Study Group\*

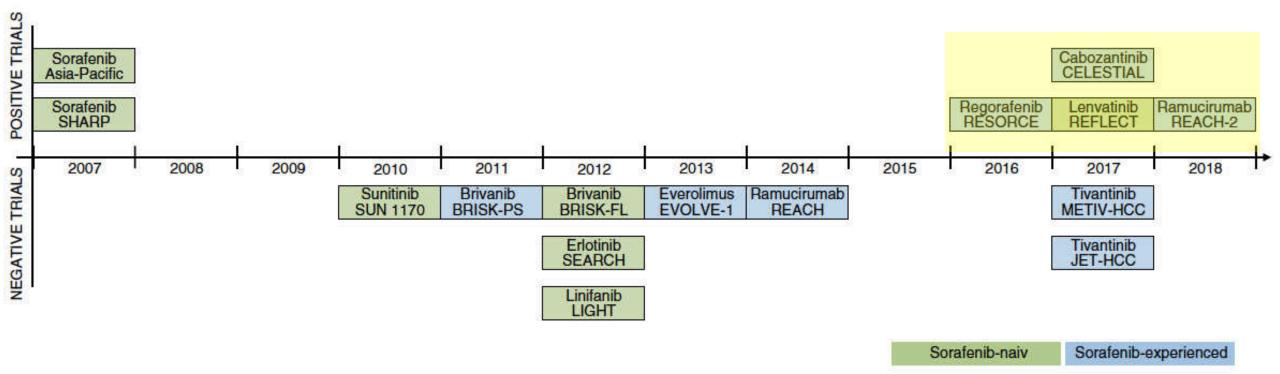
Copyright © 2008 Massachusetts Medical Society.

Median survival without treatment: 5 - 8 months

#### FIRST LINE

Sorafenib / Nexavar

+ 2,8 months vs no treatment



Median survival without treatment: 5 - 8 months



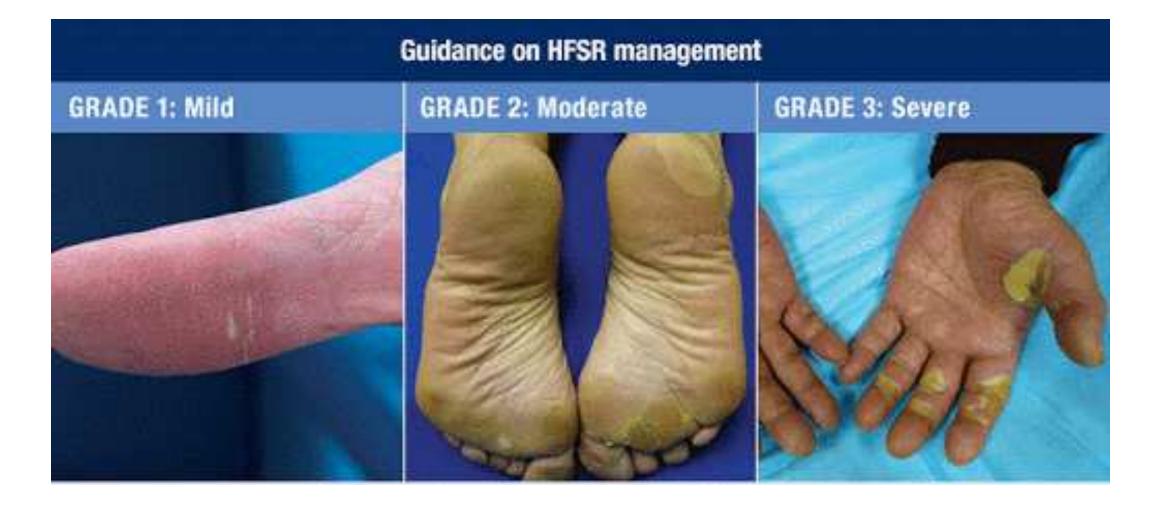
# Tyrosine Kinase Inhibitors: side effects

#### Common

Diarrhoea Fatigue Induced hypertension Hepatotoxicity Skin changes Nausea Increased thyroxine dosage requirement Changes in taste Weight loss

#### Serious

Thrombosis Bleeding Heart failure Hepatotoxicity GI tract fistula formation Intestinal perforation



Immunotherapy

Science

# Second Statement of the second

# Breakthrough of the Year Cancer Immunotherapy T cells on the attack

## 83 yo male patient treated with Nivolumab/Opdivo

04/2019





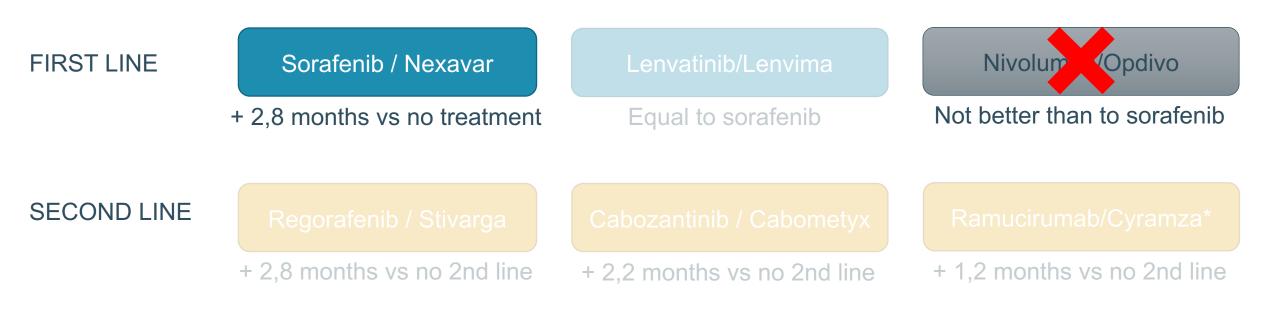


aFP 400800 ug/l

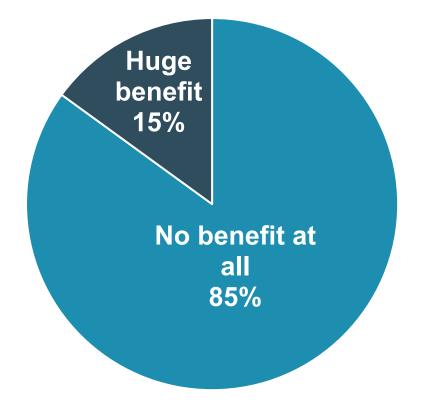
aFP 150 ug/l

aFP 5 ug/l

Median survival without treatment: 5 - 8 months



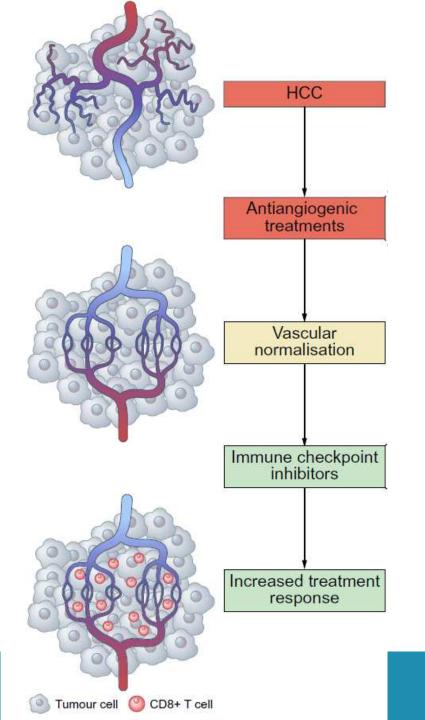
### 100 people with HCC treated with immunotherapy



# Find test to identify those 15% that benefit

**Combine** immunotherapy with other drug to increase efficacy

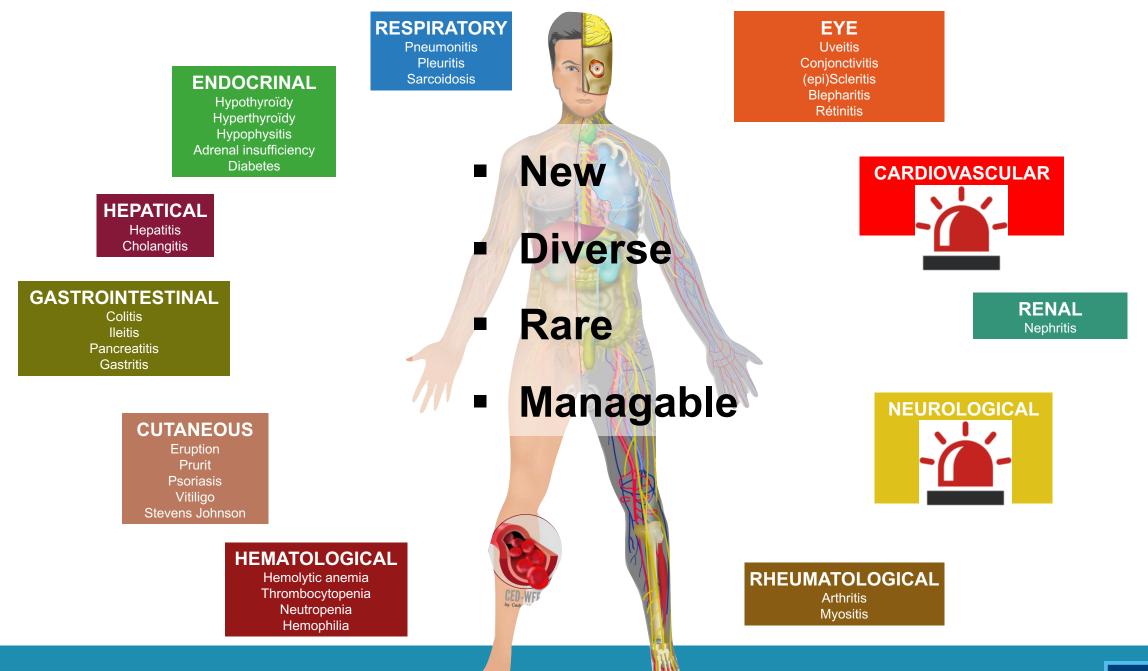


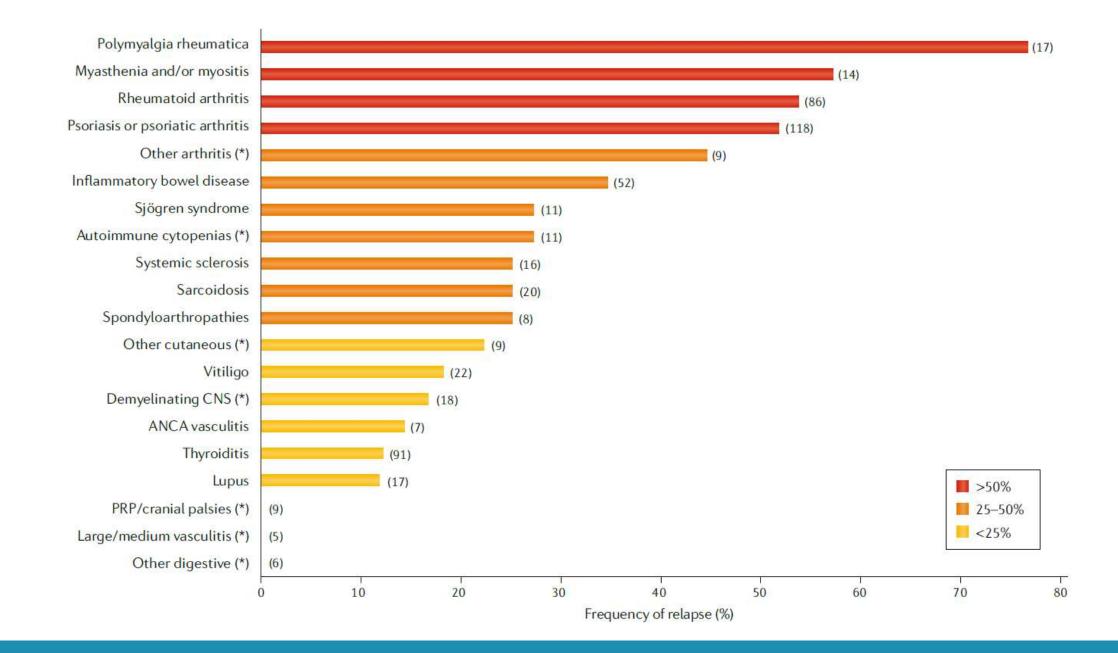


	Median survival without treatn	nent: 5 – 8 months	
NEW FIRST LINE	Atezolizumab + Bevacizumab / Tecentriq + Avastin		
42% less risk of death vs sorafenib			
FIRST LINE	Sorafenib / Nexavar	Lenvatinib/Lenvima	
	+ 2,8 months vs no treatment	Equal to sorafenib	
SECOND LINE			
	+ 2,8 months vs no 2nd line	+ 2,2 months vs no 2nd line	+ 1,2 months vs no 2nd line



# Side effects immunotherapy





27 Ramos-Casals et al. Nat Rev Dis Prim 2020

# New agents in the treatment of HCC: summary

Developing drugs for patients with hepatocellulair carcinoma has proven to be difficult due to **chemoresistance** of the disease, **impaired liver function** and/or **functional status** 

Tyrosine kinase inhibitors were the first drugs to lengthen life of HCC patients, albeit with modest effect

Immunotherapy have dramatic effects in this disease, but identifying those likely to benefit remains the challenge

Very recently, a **combination treatment** of immunotherapy and antiangiogenesis has become the **new standard of care** for treatment of HCC.







Digestive Oncology **KU LEUVEN**