

Tumore del colon retto : update nella prevenzione , Diagnosi e trattamento

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- 1 Prevenzione e diagnosi precoce**
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A PREVENTABLE EPIDEMIC

DIET



Many foods have been linked with increased (animal fat, sugars) or decreased (garlic, fibre, calcium) risk of colorectal cancer³, but the most compelling evidence for increased risk relates to the consumption of red and processed meats^{4,5}.

GENETICS



Having a first-degree relative with colorectal cancer increases the risk of the disease by 80%. By the age of 40, almost all adults with familial adenomatous polyposis⁷ will have colorectal cancer, and *BRCA1* mutations may also increase risk.

OBESITY



Closely linked to diet and physical inactivity, obesity also increases the risk of colorectal cancer. One 2013 study¹⁰ found that obese people have a 33% higher risk of colorectal cancer than people of healthy weight.

AGE



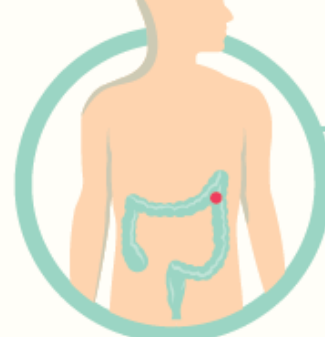
One of the most crucial factors for colorectal cancer is age. Up to 90% of all colorectal cancers occur in people aged 50 years and over⁶.

EXERCISE



The World Cancer Research Fund and the American Institute for Cancer Research both identify exercise as protective against colorectal cancer. Colorectal cancer risk is 17–24% lower in the most physically active people compared with the least physically active^{8,9}.

SCREENING



Screening finds precancerous polyps that can be removed before they become cancerous. The problem is ensuring access. In the United States, for example, one-third of adults over 50 have not been screened appropriately.

Screening per CCR

Rettosigmoidoscopia
(una volta nella vita
tra i 55 e i 64 anni)

Riduzione mortalità
~ **20-30%**

**Ricerca sangue
occulto fecale**
(ogni due anni
tra i 50 e i 69 anni)

Riduzione mortalità
~ **10-20%**

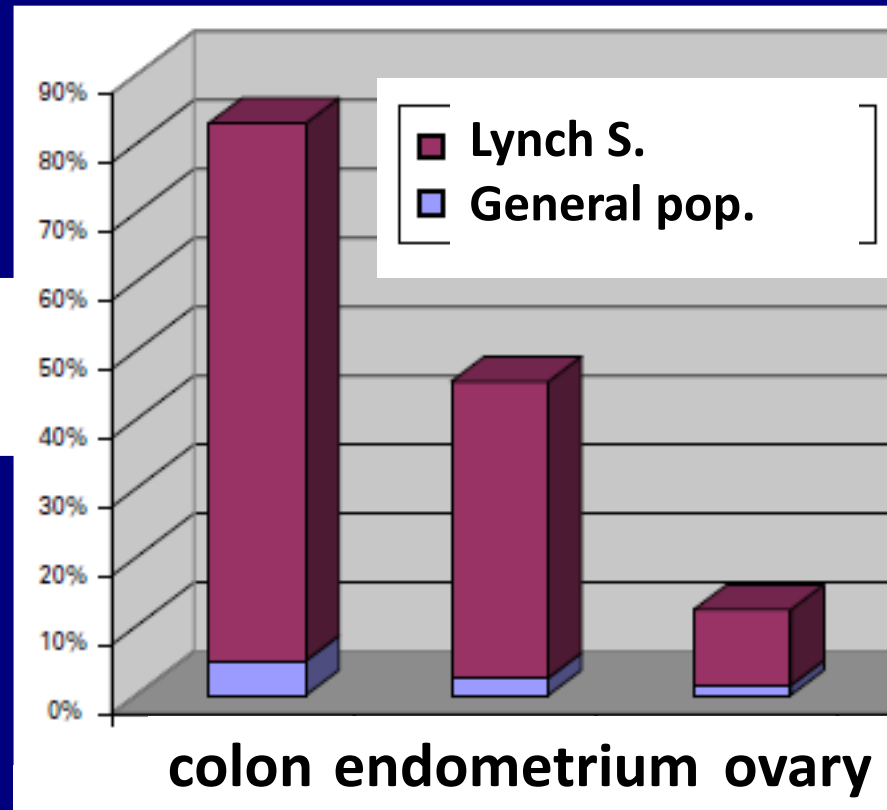
Colonscopia
(?)

**No prove di
riduzione mortalità
da studi di fase 3**

Lynch S.

Increased lifetime incidence of cancer

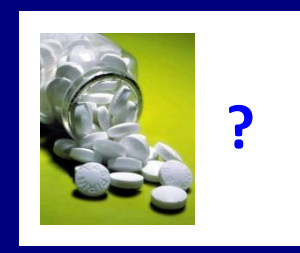
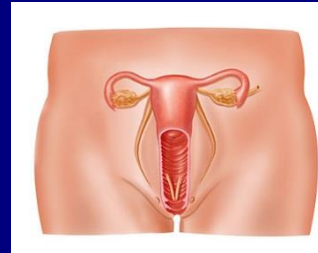
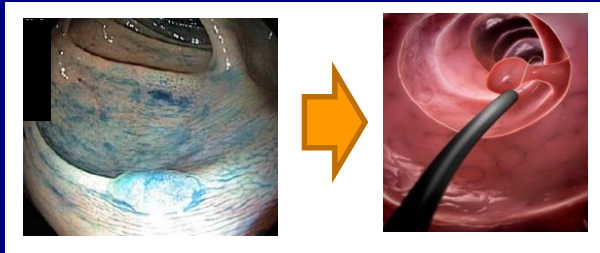
Lifetime risk



Surveillance for Lynch S. relatives

ASCO-ESMO guidelines

Stoffel, JCO 2015



Colonoscopy q 1-2
yrs,
from 20-25 yoa

Gyn ex + US + asp.bx
annually, from 30-35 yoa.
Consider proph. surgery

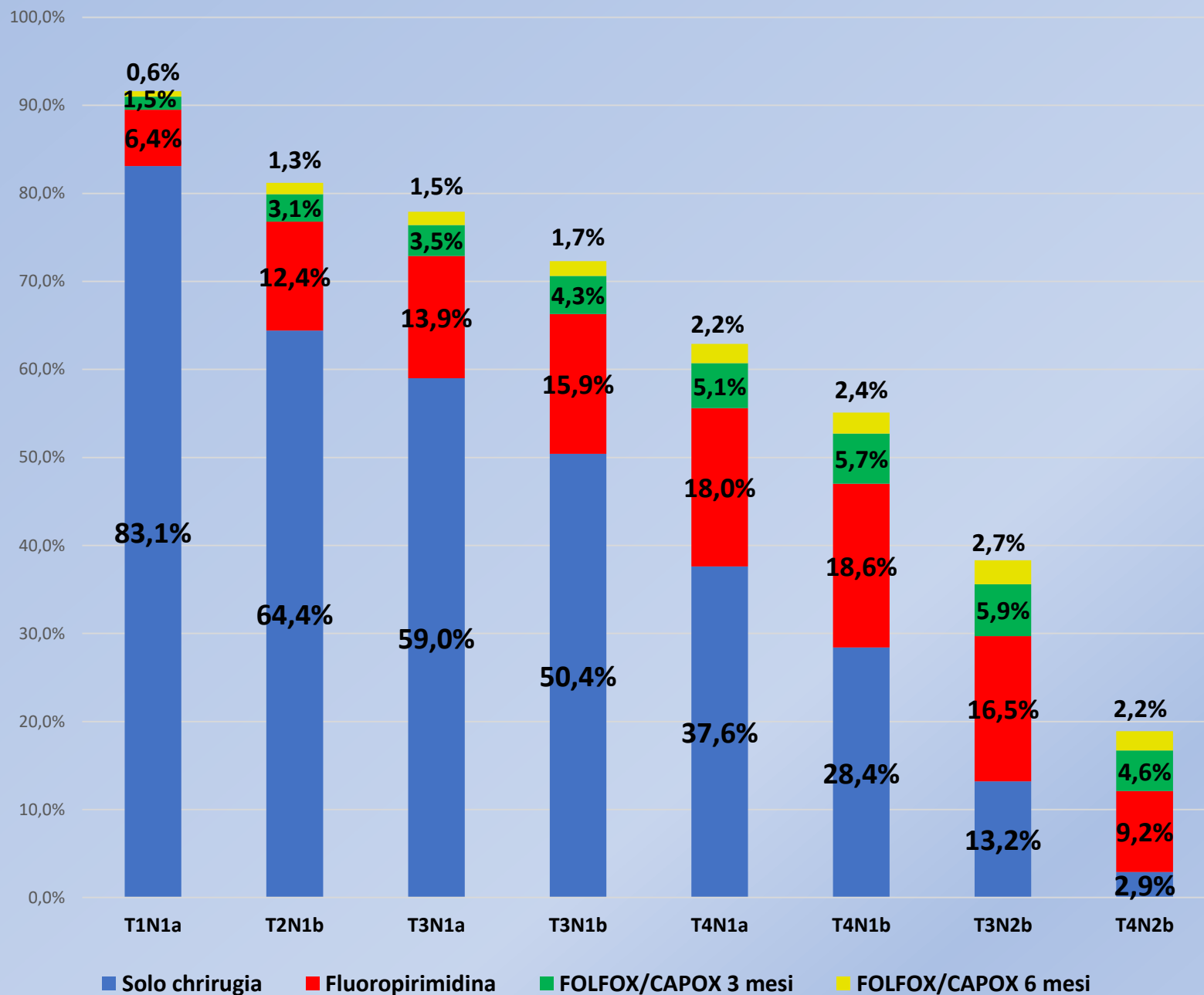
Aspirin?

**Mortality Reduction
60-70%**

Jarvinen, JCO '09; Vasen, Gastroenterology '10; Møller, Gut '15 ;Movahedi, JCO '15; Brown, Cochran Rev '16

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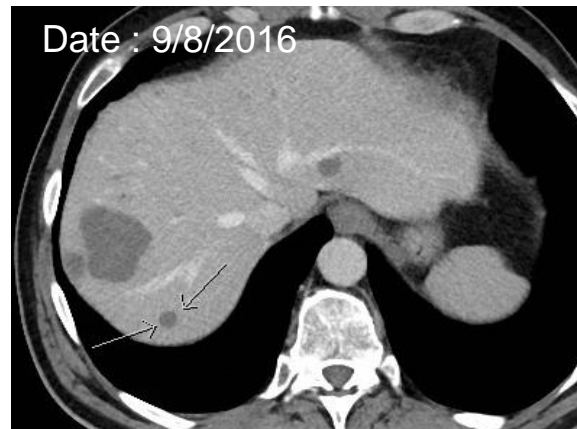
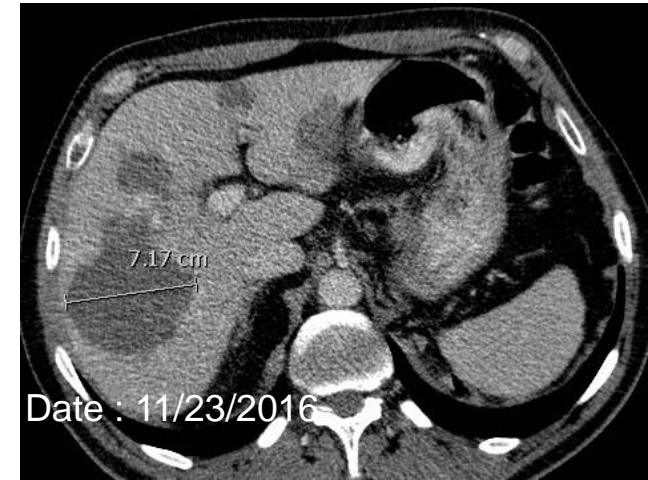
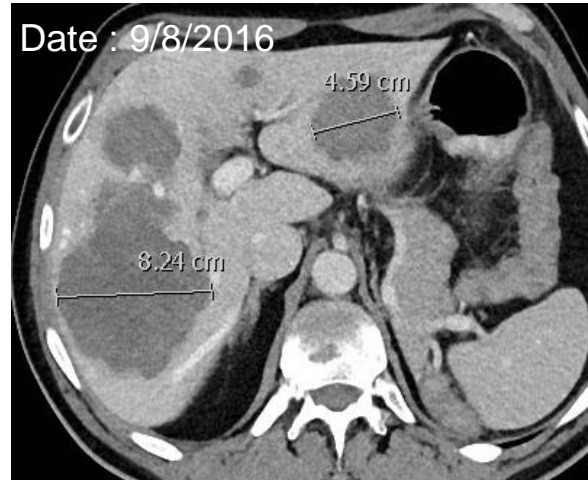
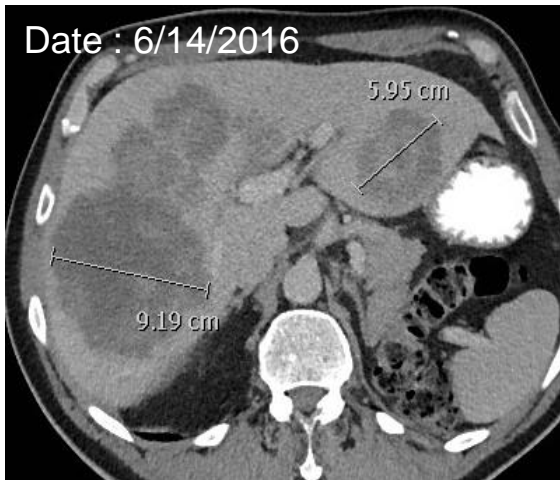
Simplification of the incremental overall benefit of the antineoplastic agents in advanced CRC (34 trials)

Agent	gain in median OS
FU	6 mo +
Oxali irino	6 mo
Anti VEGF	6 mo
Anti EGFR	6 mo +

baseline

4 cycles

8 cycles



Alk. Phosphatase 667
LDH 624
CEA 402

239
190
247

182 (ULN 12)
232 (ULN 248)
34 (ULN 5.5)

Significant improvement in general condition

Actual 10-Year Survival After Resection of Colorectal Liver Metastases Defines Cure

James S. Tomlinson, William R. Jarnagin, Ronald P. DeMatteo, Yuman Fong, Peter Kornprat, Mihai Gonen, Nancy Kemeny, Murray F. Brennan, Leslie H. Blumgart, and Michael D'Angelica

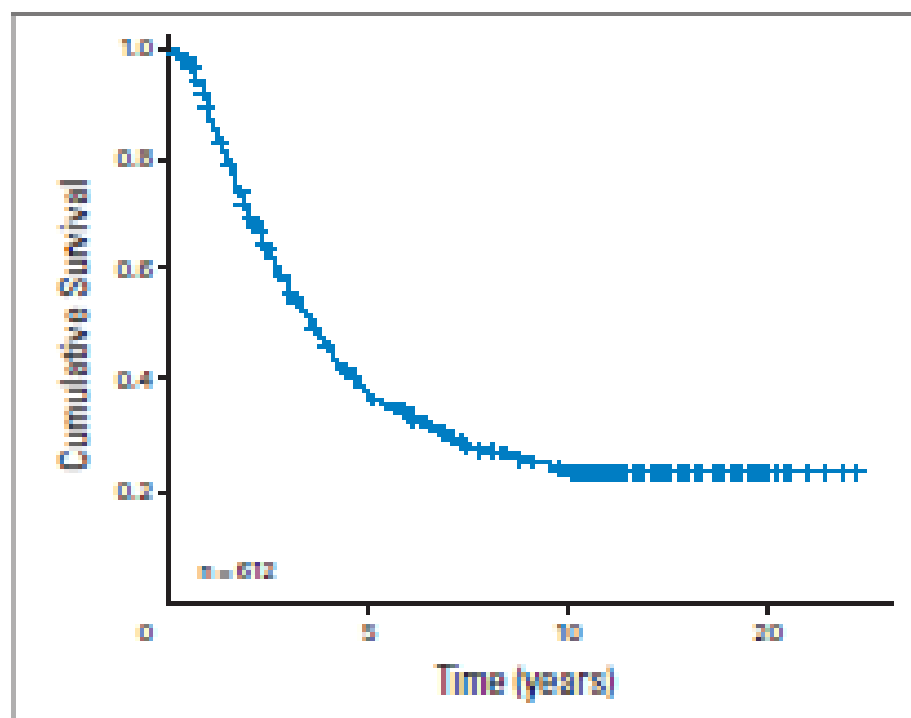
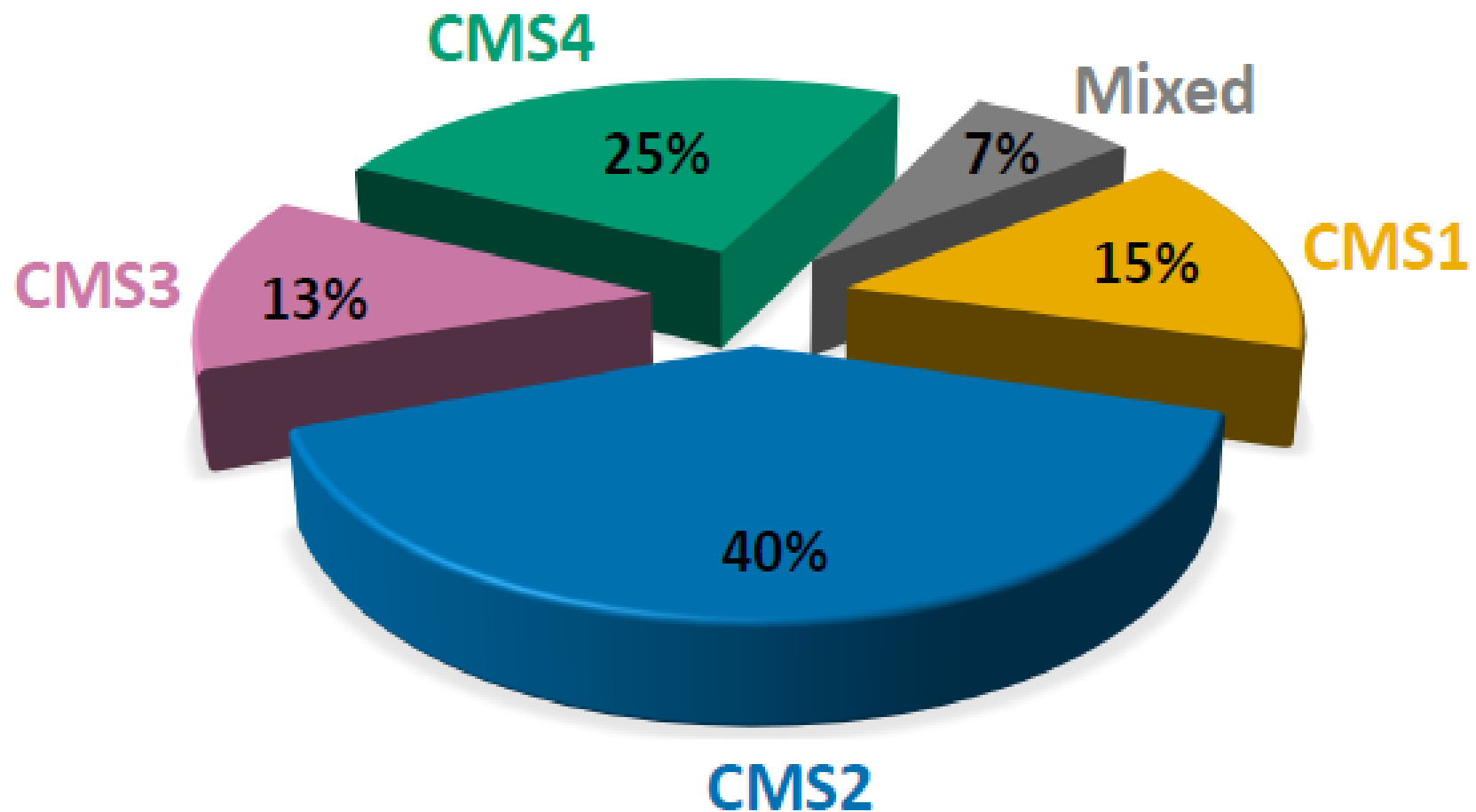


Fig 1. Kaplan-Meier plot of disease-specific survival for 612 patients with potential 10-year follow-up who underwent resection of colorectal liver metastases from 1985 to 1994 at Memorial Sloan-Kettering Cancer Center.

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Transcriptomic classification

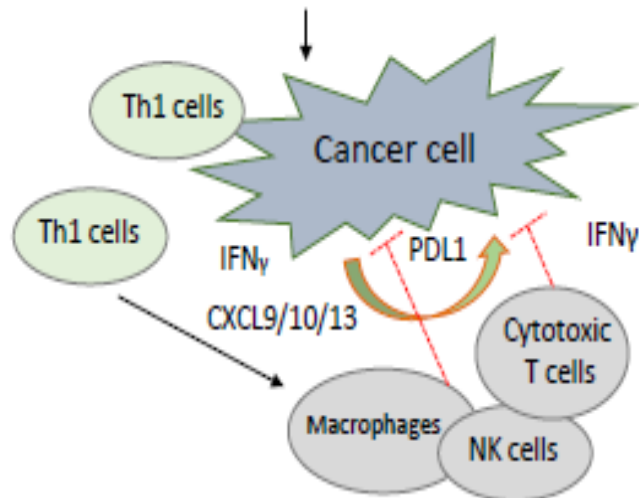


Microenvironment of CRC

Immune-activated

CMS:
MSI immune

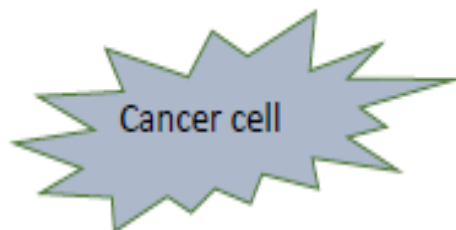
dMMR – MSI
Hypermethylation



Immune-ignorant

CMSE
Cancelled

2015
 CMS
 Michelle

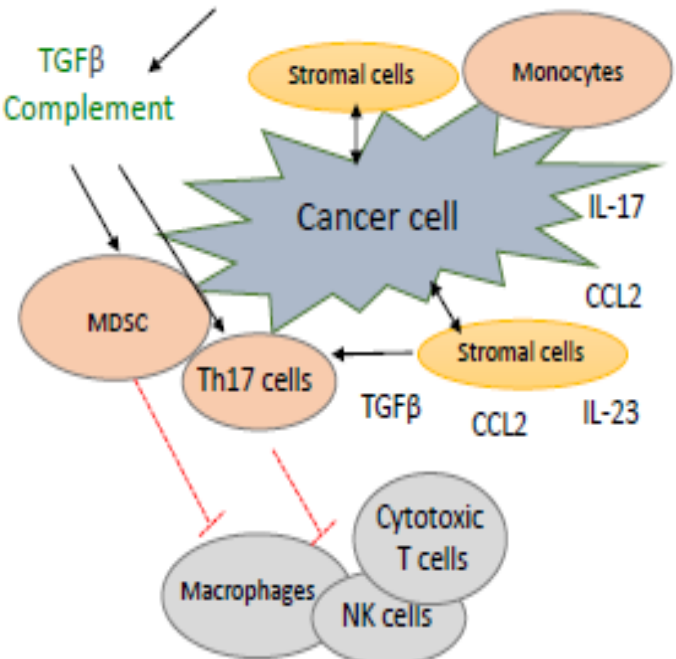


Immune-tolerant
Inflamed

CM8-4
Mesenchymal

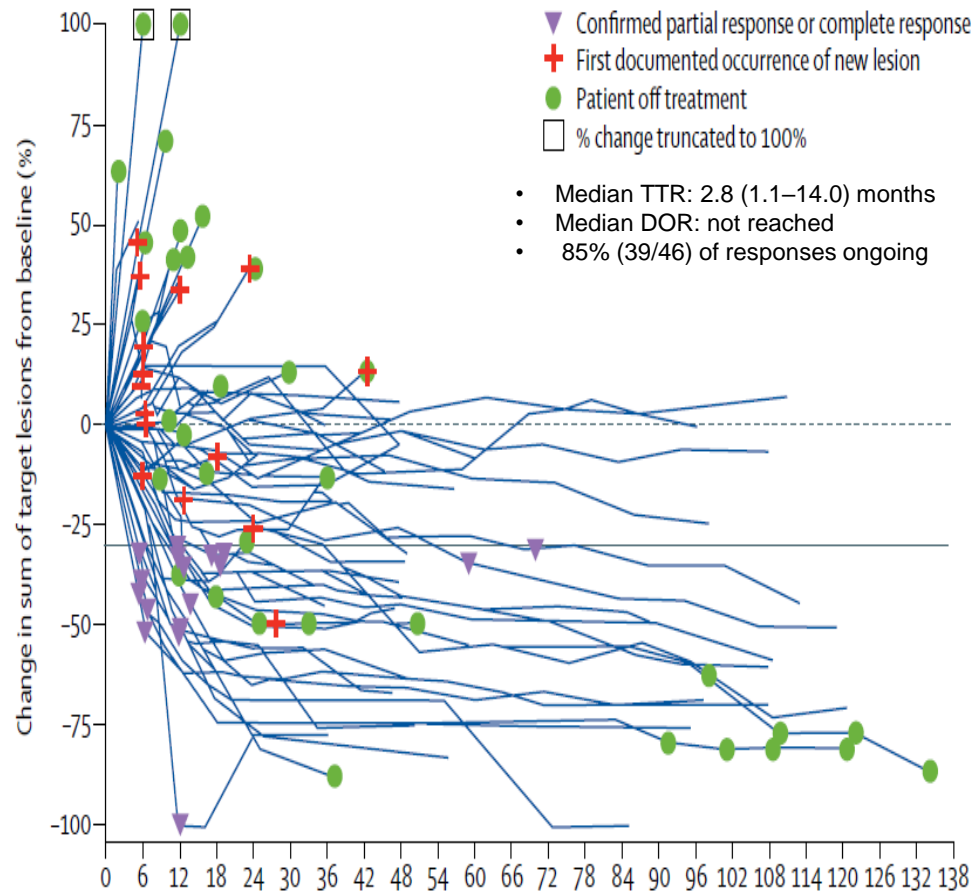
Inflammation

TGFβ
Complex



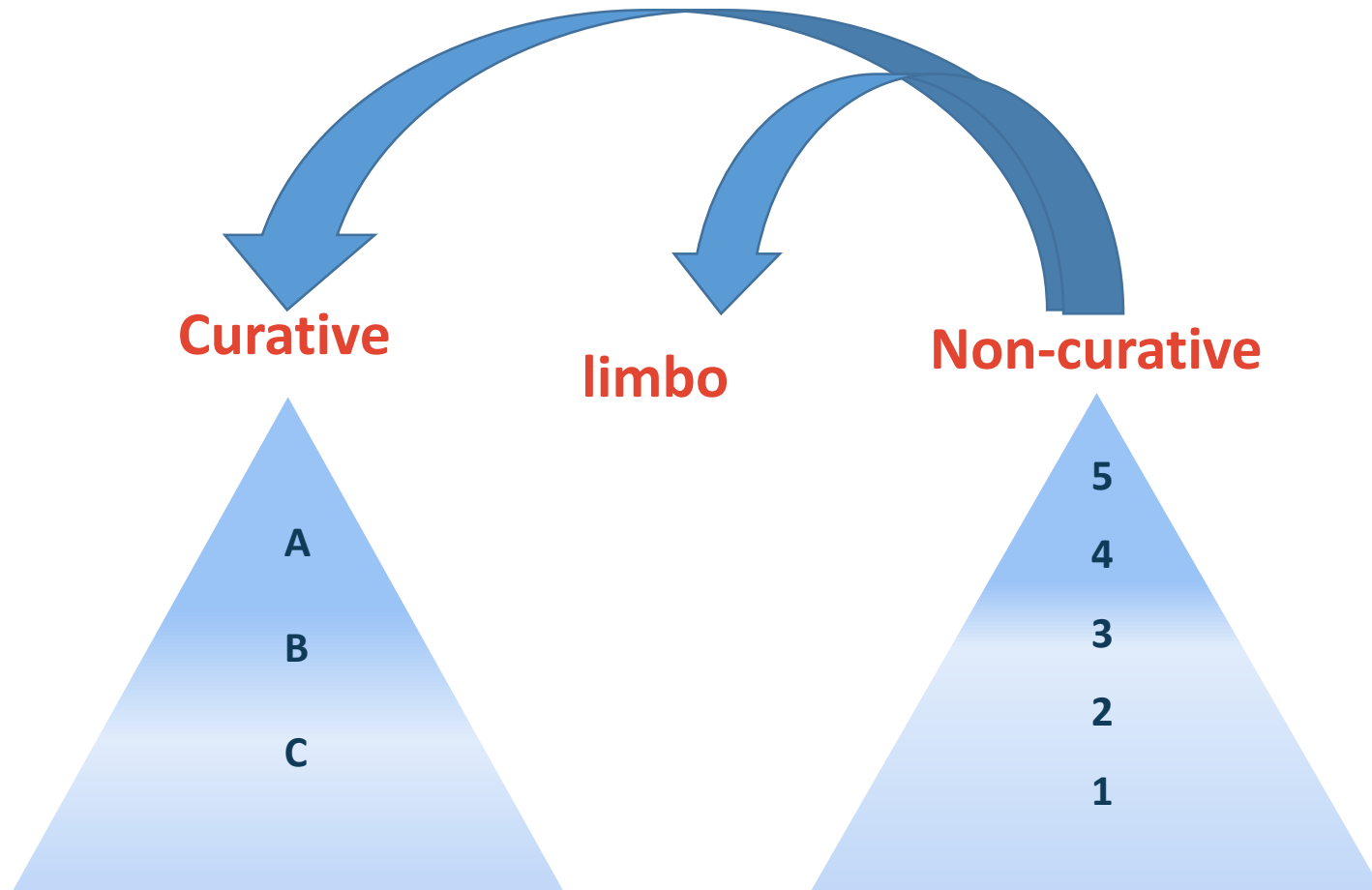
Changes in Tumor Burden

CheckMate 142 Nivolumab alone



Tt discontinuations
 38 pts (51%) :
 27 (36%) for PD
 6 (8%) Toxicity
 5 (7%) other

Overman M, Lancet Oncol 2017



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