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***Terapia a bersaglio molecolare e personalizzazione  
del trattamento nei tumori dell'apparato  
gastroenterico***

***LA CITTA' DELLE VERBENE FONDAZIONE ONLUS***



# Numero di nuovi tumori stimati per anno in Italia

In Italia si diagnosticano circa 360.000 nuovi casi all'anno

| Sede                                         | Uomini  | Donne   |
|----------------------------------------------|---------|---------|
| Vie aerodigestive superiori                  | 7.200   | 2.300   |
| Esofago                                      | 1.400   | 600     |
| Stomaco                                      | 7.900   | 5.300   |
| Colon-retto                                  | 31.400  | 23.200  |
| Colon                                        | 21.900  | 17.000  |
| Retto                                        | 9.500   | 6.200   |
| Fegato                                       | 8.900   | 4.300   |
| Colecisti e vie biliari                      | 2.100   | 2.400   |
| Pancreas                                     | 5.800   | 6.400   |
| Polmone                                      | 27.000  | 11.200  |
| Osso                                         | 400     | 200     |
| Cute (melanomi)                              | 5.300   | 5.100   |
| Cute (non melanomi)                          | 38.500  | 32.900  |
| Mesotelioma                                  | 1.300   | 400     |
| S. di Kaposi                                 | 500     | 200     |
| Tessuti molli                                | 1.100   | 700     |
| Mammella                                     | 1.100   | 46.900  |
| Utero cervice                                |         | 2.000   |
| Utero corpo                                  |         | 8.200   |
| Ovaio                                        |         | 4.800   |
| Prostata                                     | 35.800  |         |
| Testicolo                                    | 2.200   |         |
| Rene, vie urinarie*                          | 8.400   | 4.300   |
| Parenchima                                   | 7.000   | 3.600   |
| Pelvi e vie urinarie                         | 1.400   | 700     |
| Vescica**                                    | 22.100  | 5.100   |
| Sistema nervoso centrale                     | 3.200   | 2.500   |
| Tiroide                                      | 4.100   | 12.200  |
| Linfoma di Hodgkin                           | 1.300   | 1.000   |
| Linfoma non-Hodgkin                          | 6.900   | 5.900   |
| Mieloma                                      | 2.700   | 2.500   |
| Leucemie                                     | 4.400   | 3.500   |
| Tutti i tumori, esclusi carcinomi della cute | 199.500 | 166.500 |

# **Terapia a bersaglio molecolare nei tumori dell'apparato gastroenterico**

- **TUMORI DELLO STOMACO**
- **TUMORI DEL PANCREAS**
- **TUMORI DEL COLON-RETTO**
- **TUMORI PRIMITIVI DEL FEGATO**

# Targeted Therapy

- **Trattamento che ha l'obiettivo di bloccare la crescita tumorale ostacolando l'attività di specifiche molecole bersaglio necessarie per la carcinogenesi e la crescita tumorale, piuttosto che interferire con le cellule in rapida divisione**
- **Principali categorie di farmaci a bersaglio molecolare:**
  - **– Piccole molecole**
  - **– Anticorpi monoclonali**

# **Gli esordi della terapia a bersaglio molecolare**

- Scoperta di un farmaco contro un bersaglio apparentemente critico.
- Impiego clinico con risultati variabili (in genere attività rilevante in circa 10% dei pazienti non selezionati).
- Combinazioni con chemioterapici basata sugli standard in uso per una determinata neoplasia (risultati spesso deludenti).

# **Gli esordi della terapia a bersaglio molecolare**

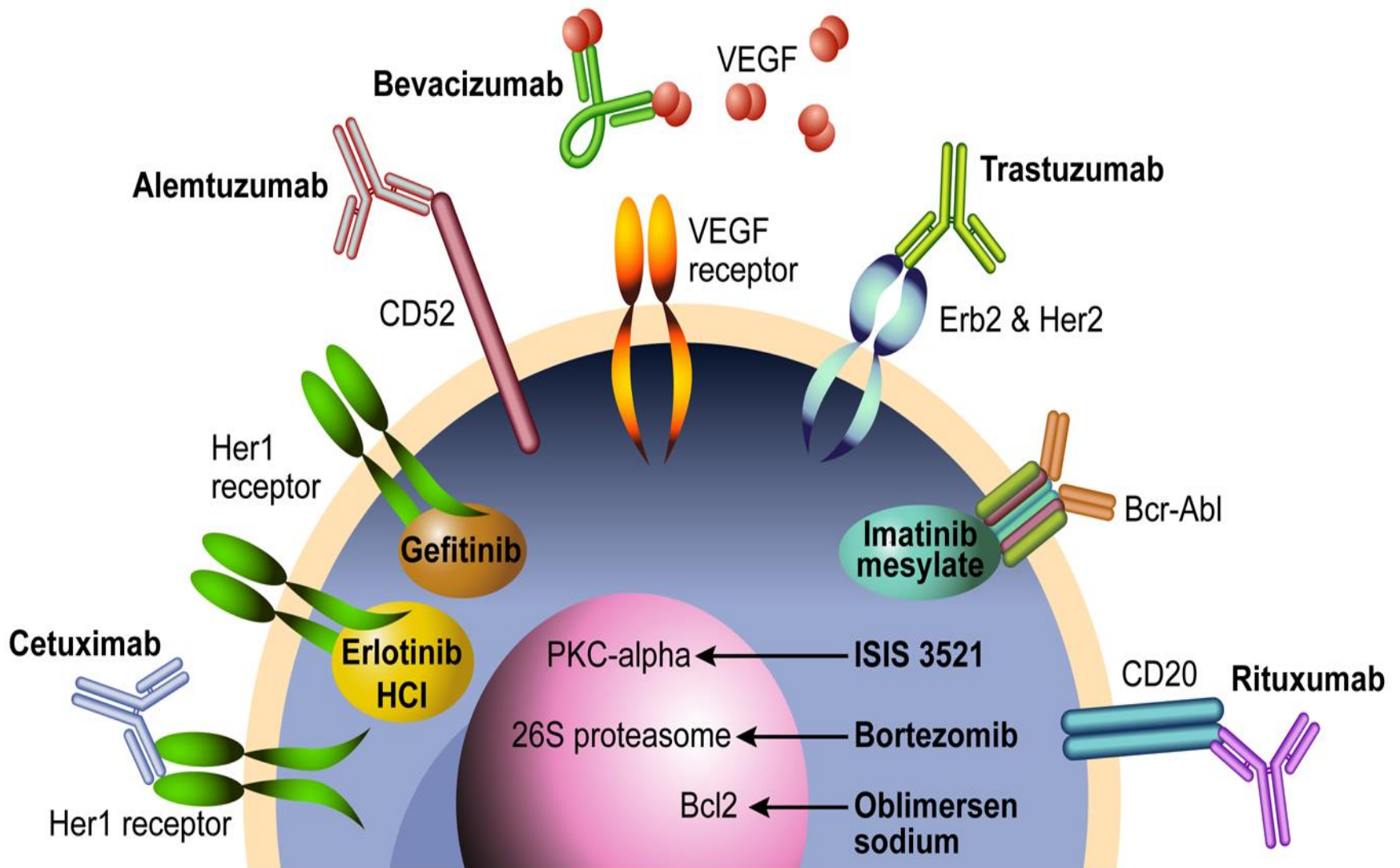
- **Piccole percentuali di pazienti ma con elevata possibilità di risposta**
- **Estensione d'uso a patologie diverse da quelle in indicazione se sono presenti le alterazioni molecolari bersaglio per i farmaci**
- **Durata dei trattamenti: tossicità, costi ecc.**
- **Utilizzo di nuove tecnologie e diagnostica per immagini per ridurre tossicità e costi**

# **LE SFIDE DELL'ERA DELLE TERAPIE TARGETED**

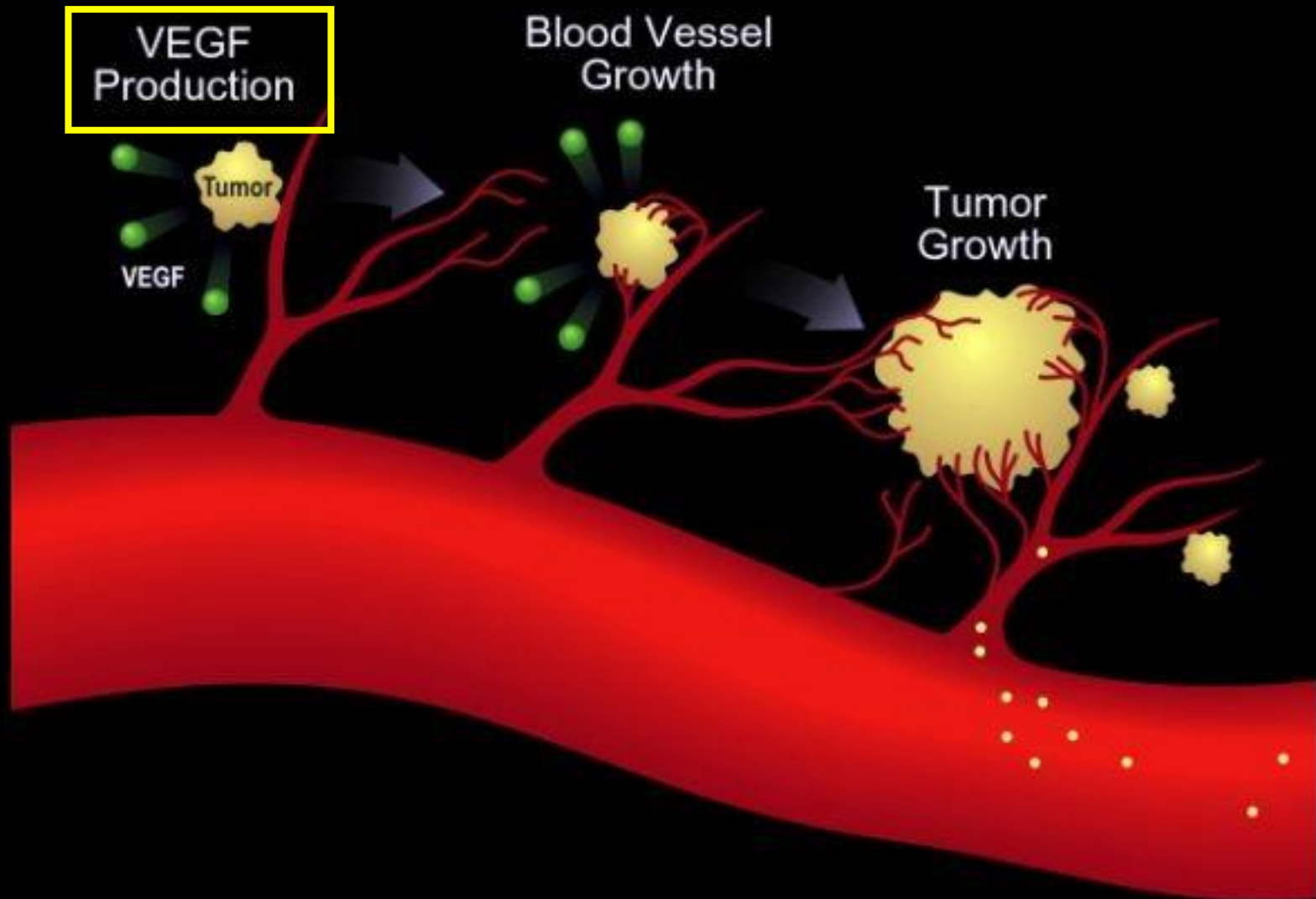
## **Problematiche**

- **Attualmente sono in fase di sviluppo circa 800 farmaci antitumorali**
- **Molti (troppi ?) farmaci**
- **Sempre più malattie in cui utilizzarli**
- **Maggiore uso di controlli con placebo**
- **Maggiore impiego di trial clinici randomizzati**
- **Più tempo per raggiungere gli endpoints**
- **Più linee di terapia efficaci**
- **Documentazioni più costose**
- **Maggiore complessità delle norme "regolatorie"**

# Targeted Therapies



# Angiogenesis



# Farmaci a Bersaglio Molecolare

Anticorpi monoclonali  
....gli "umab"

Rituximab (→CD20)

Trastuzumab (→HER2)

Cetuximab (→EGFR)

Bevacizumab (→VEGF)

Inibitori della trasduzione del segnale

... gli "inib"

Imatinib mesilato (→ bcr-abl -, c-kit-, PDGF-TKs)

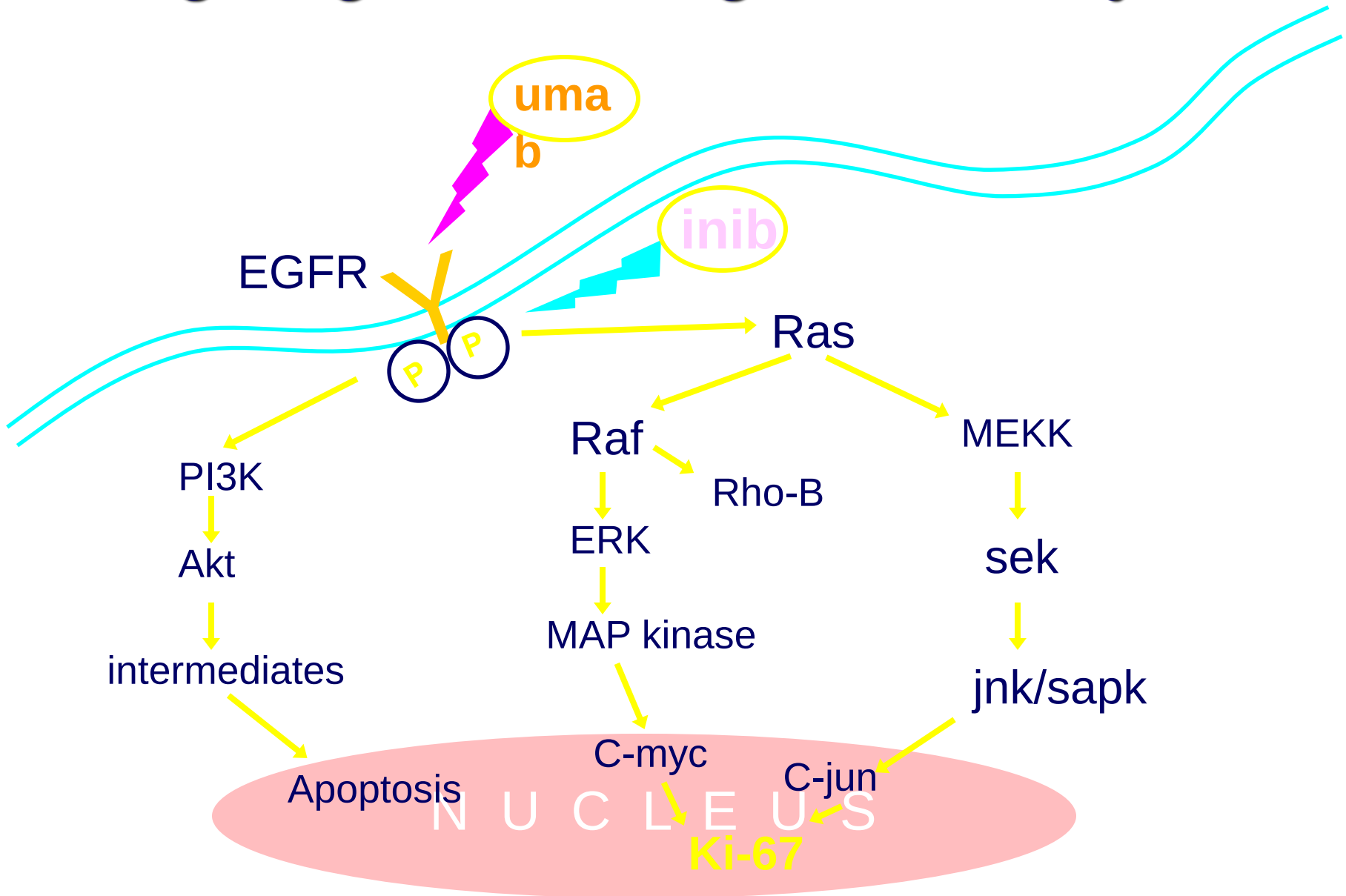
Gefitinib (→ EGFR-TK)

Erlotinib (→ EGFR-TK)

Bortezomib (→ proteasoma)

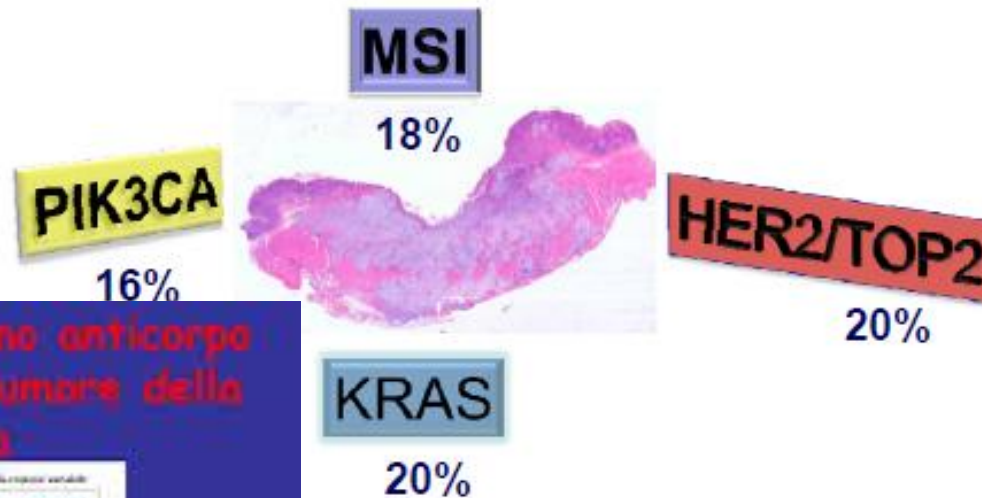
Sorafenib, Sunitinib

# Targeting Cellular Signal Pathways

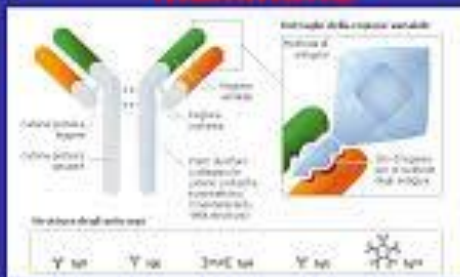


# GASTRIC CANCER

Gli studi clinici sui tumori dello stomaco dovrebbero includere la sottoclassificazione molecolare



**Trastuzumab: il primo anticorpo monoclonale per il tumore della mammella**



- Un anticorpo monoclonale è un anticorpo concepito per riconoscere e legarsi a una sostanza specifica.

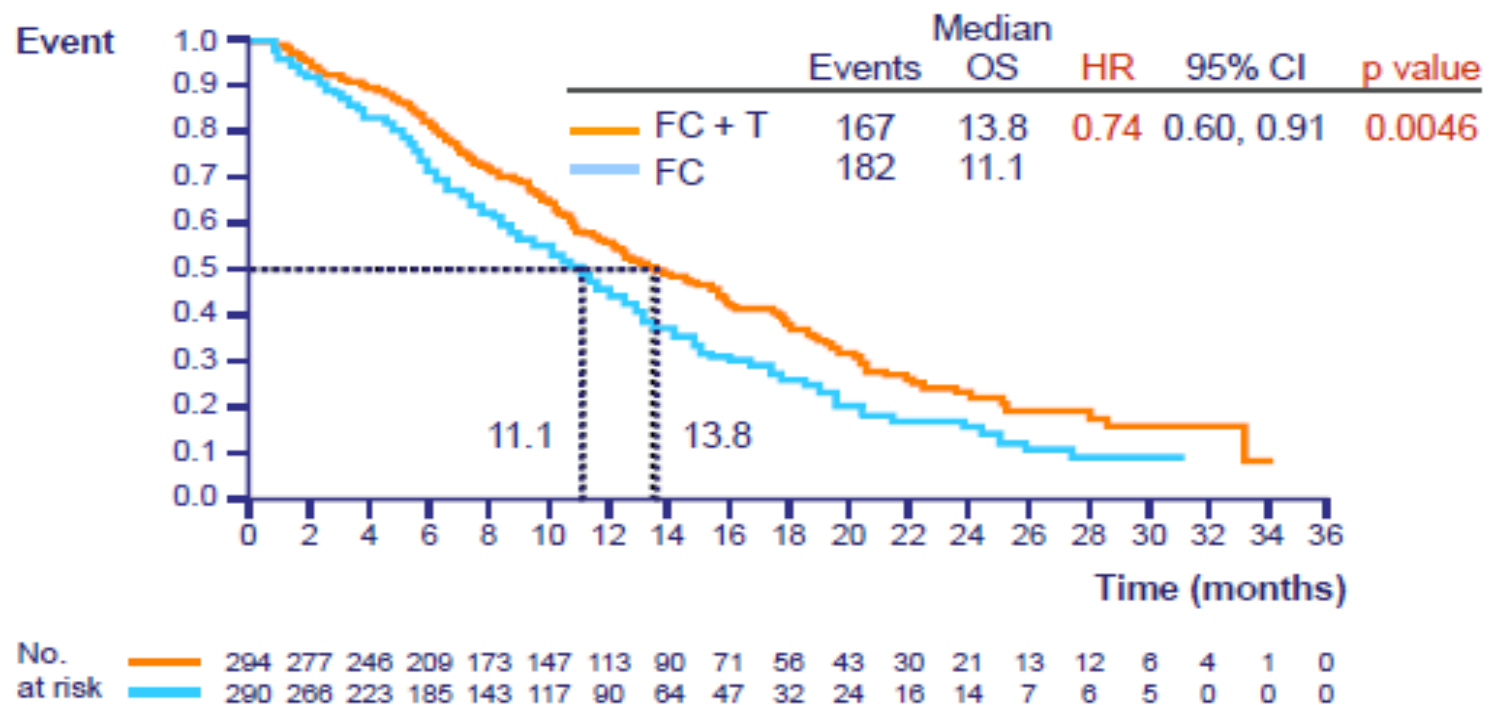
# IL TRASTUZUMAB BLOCCA HER2



- Specifico per il bersaglio del recettore HER2
- Alta affinità e specificità
- 95% umano, 5% murino
  - Aumentato potenziale per effetto immuno-mediato

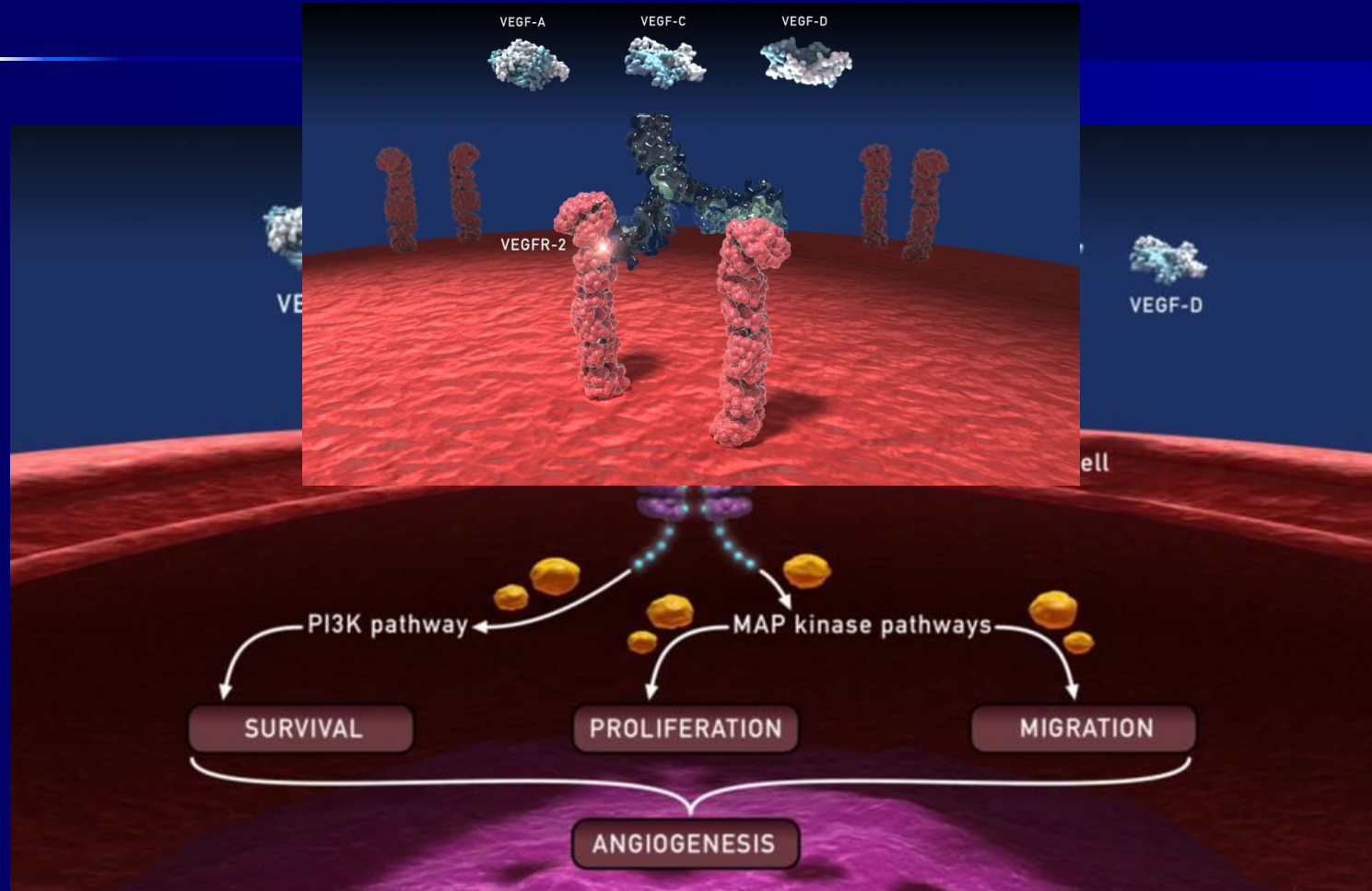
# INIBITORI DI HER2 (TRASTUZUMAB) NEL CARCINOMA GASTRICO

## Toga Trial: OS

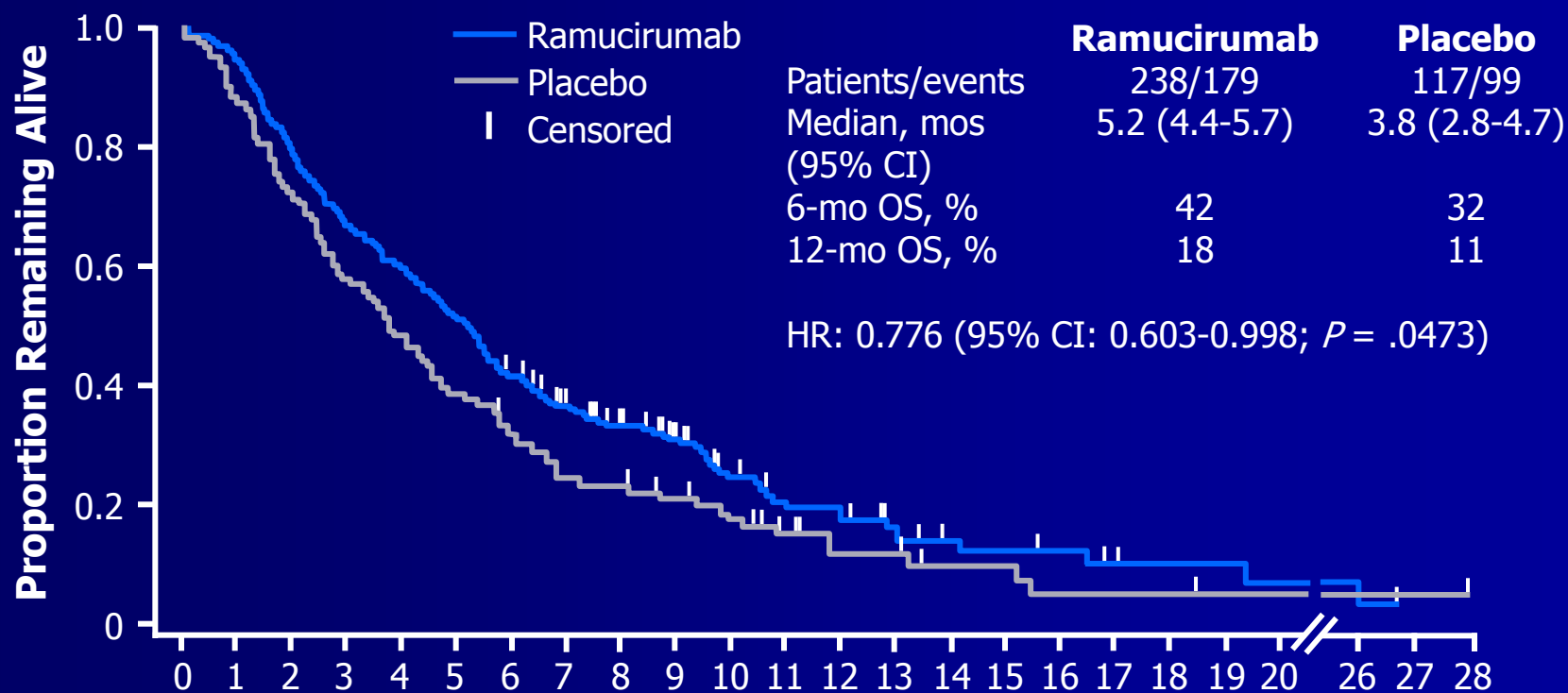


T, trastuzumab

# Phase III REGARD Trial: BSC $\pm$ Ramucirumab in Metastatic Gastric or GEJ Cancer



# REGARD Trial of BSC ± Ramucirumab in Metastatic Gastric or GEJ Cancer: OS

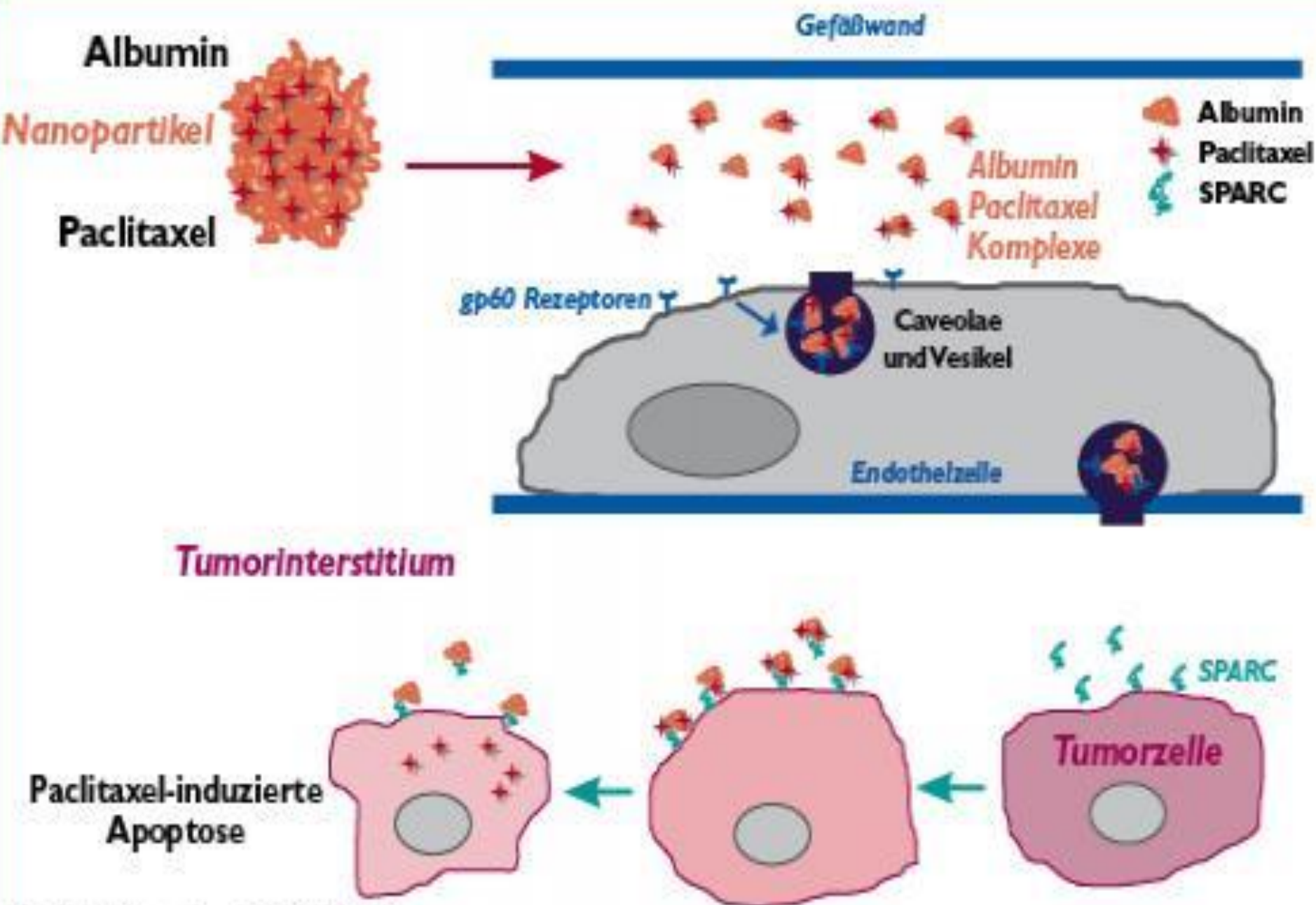


## Pts at Risk, n

|             |     |     |    |    |    |   |   |   |   |
|-------------|-----|-----|----|----|----|---|---|---|---|
| Ramucirumab | 238 | 154 | 92 | 49 | 17 | 7 | 3 | 0 | 0 |
| Placebo     | 117 | 66  | 34 | 20 | 7  | 4 | 2 | 1 | 0 |

# **FATTORI DETERMINANTI PER LA CRESCITA TUMORALE E NUOVI BERSAGLI TERAPEUTICI**

- • **Microambiente e Stroma**
- • **Target epigenetici**
- • **Metabolismo**
- • **miRNA**



Nanomedicine has the potential to address one of the biggest problems in cancer therapy: how to get enough of the right drug to the right place, without causing side effects or inducing resistance.

60



## NANOMEDICINE IN CLINICAL TRIALS

Several nanoscale drug carriers are currently in clinical trials.

| Company                 | Drug                 | Formulation                                                                                        | Status     | Description                                                                                                                                                                             |
|-------------------------|----------------------|----------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Calando Pharmaceuticals | CALAA-01             | A polymer nanocarrier containing gene-silencing RNA                                                | Phase I    | A polymer nanocarrier holds RNA that silences a gene in solid tumours needed for DNA synthesis and replication                                                                          |
| BIND Biosciences        | BIND-014             | A polymer nanocarrier targeted to cancer cells carries docetaxel                                   | Phase I    | Targets solid or metastatic prostate cancer cells by binding to prostate-specific membrane antigen                                                                                      |
| Nippon Kayaku           | NK105                | A polymer nanocarrier containing paclitaxel                                                        | Phase III  | Looking for progression-free survival in patients with metastatic or recurrent breast cancer                                                                                            |
| NanoCarrier             | Nanoplatin (NC-6004) | A polymer nanocarrier containing cisplatin                                                         | Phase I/II | Evaluating Nanoplatin in combination with gemcitabine in patients with advanced or metastatic pancreatic cancer, with the aim of reducing kidney toxicity compared with cisplatin alone |
| Cerulean Pharma         | CRLX101              | A pH-sensitive polymer nanocarrier releases camptothecin in the acidic environment of cancer cells | Phase II   | Separate studies testing CRLX101 in advanced non-small cell lung cancer and in ovarian cancer                                                                                           |

**A reconstructed 3D image showing the accumulation of 30-nm nanoparticles (green) in a pancreatic tumour.**

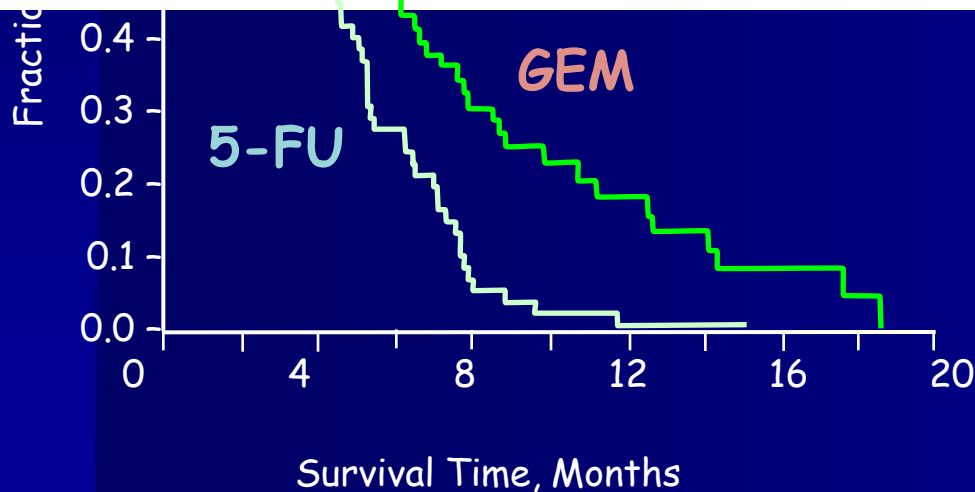
# GEMCITABINA

## Improvements in Survival and Clinical Benefit With Gemcitabine as First-Line Therapy for Patients With Advanced Pancreas Cancer: A Randomized Trial

5-FU 4.41 2%

GEM 5.65 18%

By Howard A. Burris III, Malcolm J. Moore, John Andersen, Mark R. Green, Mace L. Rothenberg, Manuel R. Modiano, M. Christine Cripps, Russell K. Portenoy, Anna Maria Stanciu, Peter Tarassoff, Robert Nelson, F. Andreu Dorr, C.D. Stephens, and Daniel D. Von Hoff *J Clin Oncol* 15:2403-2413.



|        |       |
|--------|-------|
| N      | 126   |
| Stadio | IV    |
| KPS    | 50-70 |

ORIGINAL ARTICLE

This article was published on October 16,  
2013, at NEJM.org.

N Engl J Med 2013.

DOI: 10.1056/NEJMoa1304369

# Increased Survival in Pancreatic Cancer with nab-Paclitaxel plus Gemcitabine

Daniel D. Von Hoff, M.D., Thomas Ervin, M.D., Francis P. Arena, M.D.,  
E. Gabriela Chiorean, M.D., Jeffrey Infante, M.D., Malcolm Moore, M.D.,  
Thomas Seay, M.D., Sergei A. Tjulandin, M.D., Wen Wee Ma, M.D.,  
Mansoor N. Saleh, M.D., Marion Harris, M.D., Michele Reni, M.D.,  
Scot Dowden, M.D., Daniel Laheru, M.D., Nathan Bahary, M.D.,  
Ramesh K. Ramanathan, M.D., Josep Tabernero, M.D.,  
Manuel Hidalgo, M.D., Ph.D., David Goldstein, M.D., Eric Van Cutsem, M.D.,  
Xinyu Wei, Ph.D., Jose Iglesias, M.D., and Markus F. Renschler, M.D.

# DISEGNO dello STUDIO

N = 842

- Stadio IV
- No precedente terapia
- KPS  $\geq 70$

**nab-Paclitaxel**

125 mg/m<sup>2</sup> ogni 3/4 settimane

+

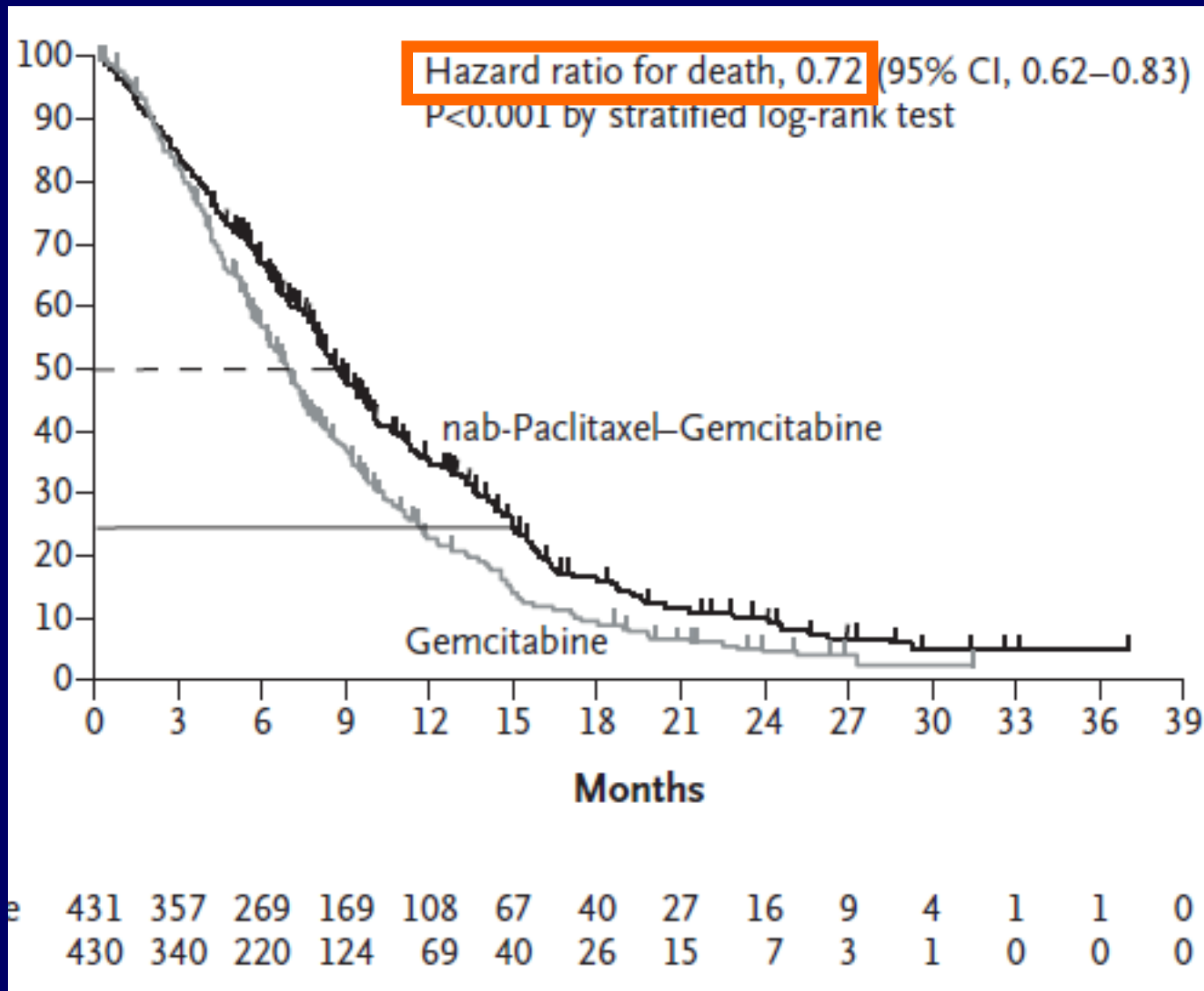
**Gemcitabina**

1000 mg/m<sup>2</sup> IV ogni 3/4 settimane

**Gemcitabina**

1000 mg/m<sup>2</sup> ogni settimana x 7/8 settimane  
poi ogni 3/4 settimane

# SOPRAVVIVENZA



# FRONT-LINE THERAPY

## Phase III Nab-Paclitaxel + Gemcitabine vs Gemcitabine (MPACT), N= 861

| Outcomes                  | Nab-P + Gem | Gemcitabine |
|---------------------------|-------------|-------------|
| Median Overall Survival   | 8.5 mths    | 6.7 mths    |
| HR 0.72, p= 0.000015      |             |             |
| 1-Year Survival           | 35%         | 22%         |
| Progression-Free Survival | 5.5 mths    | 3.7 mths    |
| Response Rate             | 23%         | 7%          |
| Toxicity                  | Nab-P+ Gem  | Gemcitabine |
| AE death                  | 4%          | 4%          |
| Neutropenia (Gd 3-4)      | 38%         | 27%         |
| Fatigue (Gd 3-4)          | 17%         | 7%          |
| Neuropathy (Gd 3-4)       | 17%         | <1%         |

Von Hoff, D. NEJM, 2013

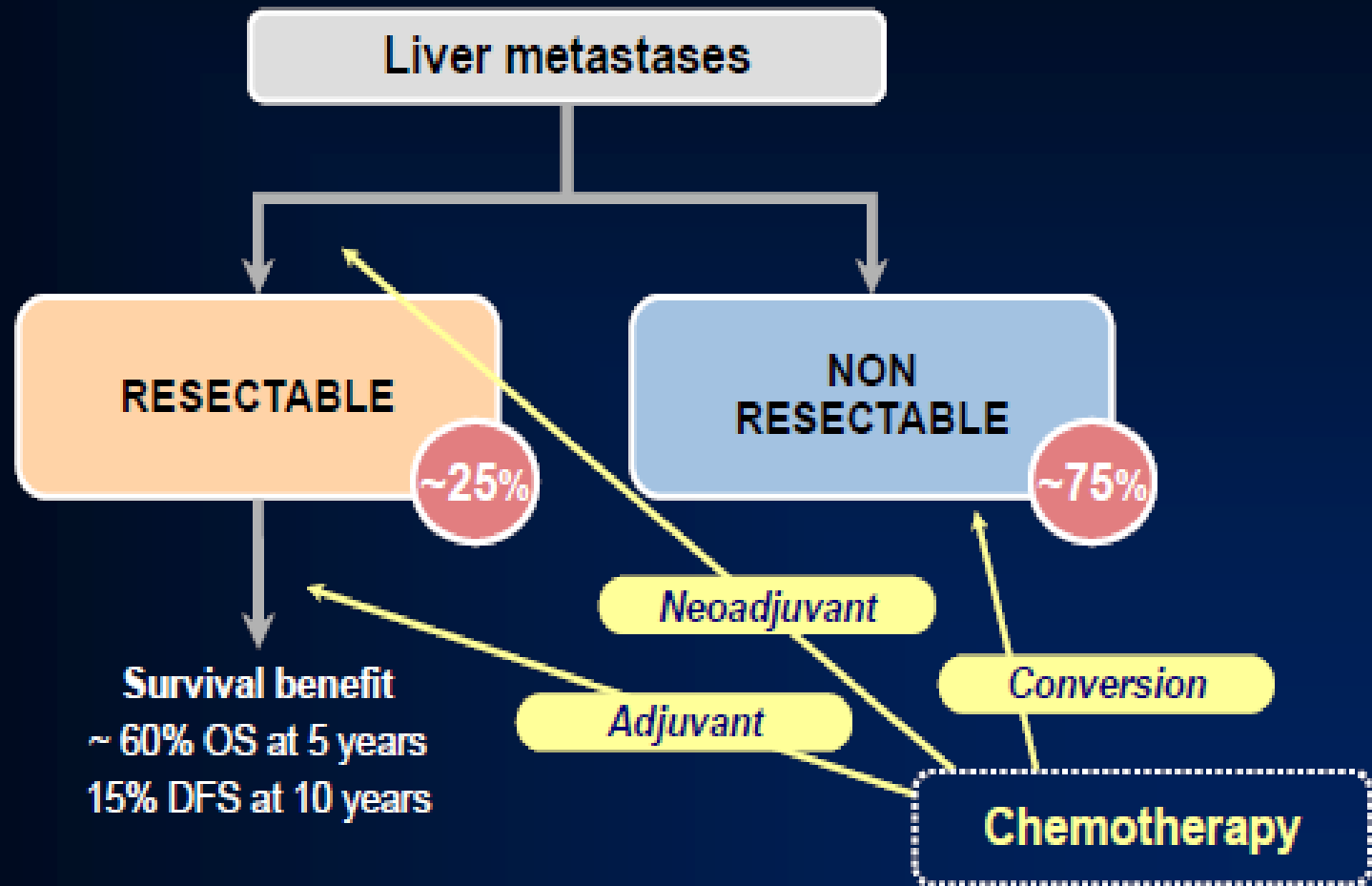
# FRONT-LINE THERAPY

## Similarities and Differences

|                     | FOLFIRINOX<br>N= 167     | Nab-P + Gem<br>N= 431                         |
|---------------------|--------------------------|-----------------------------------------------|
| Patient population  | Metastatic only          | Metastatic only                               |
| Median age          | 61 years                 | 62 years                                      |
| Age limit           | < 76 years               | No upper limit                                |
| Performance Status  | ECOG 0-1                 | KPS 70-100%                                   |
| Recruitment         | France                   | US (63%), Europe, Aust<br>Academic, Community |
| Trial Conduct       | Stopped Interim analysis | Increased N                                   |
| Control Gemcitabine | Med OS 6.8 mths          | Med OS 6.7 mths                               |
| Experimental arm    | Med OS 11.1 mths         | Med OS 8.5 mths                               |
| HR, p-value         | HR 0.57, p< 0.001        | HR 0.72, p= 0.001                             |
| Quality of Life     | Yes                      | -                                             |
| Growth factors      | 42%                      | 26%                                           |

- **I farmaci a bersaglio molecolare possono modificare le modalità e la sequenza degli interventi terapeutici**
- **L'esempio della resecabilità delle metastasi epatiche da carcinoma del colon-retto metastatico**

# Integrating Chemotherapy and Liver Surgery for Metastatic Colorectal Cancer



## Colorectal Cancer Liver Metastases

### Resectable

### Potentially Resectable

### Unresectable

#### Low Risk

- Single M+
- Size  $\leq 5$  cm
- N0 at primary tumor
- Metachronous
- CEA  $\leq 100$  ng/mL

#### Biologically challenging

- Multiple metastases
- Size  $> 5$  cm
- N + at primary tumor
- Synchronous metastases
- CEA  $> 100$  ng/mL

#### Technically challenging

- Close to hepatic veins or portal branches
- Major hepatectomy required

#### Ultimately Resectable

- $>70-80\%$  of liver involvement
- $< 25\%$  remnant after resection
- 6 segments involved

#### Never resectable

- Unresectable extrahepatic disease

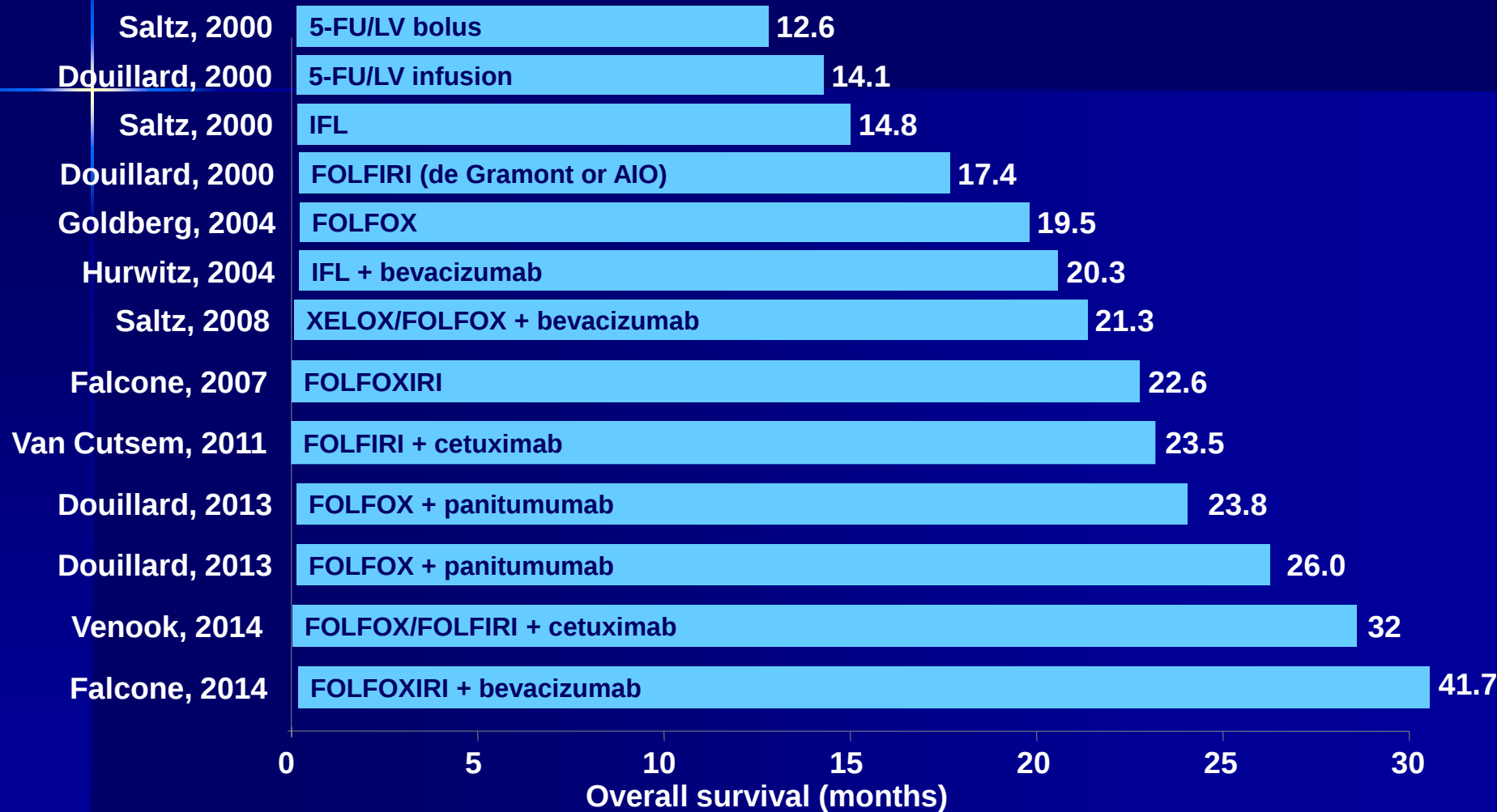
### Surgery

### Peri-operative Chemotherapy + Surgery

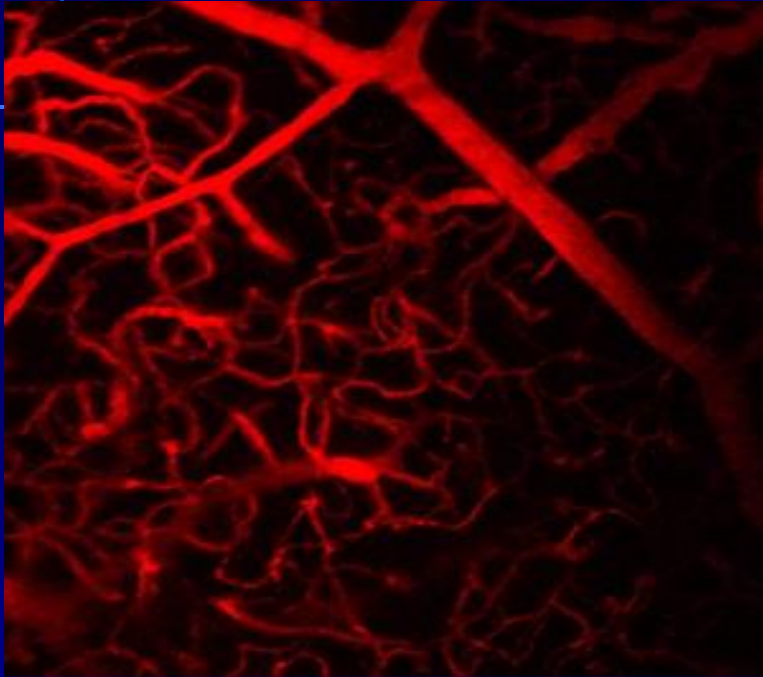
### Conversion Chemotherapy + Surgery (if sufficient response)

### Palliative Chemotherapy

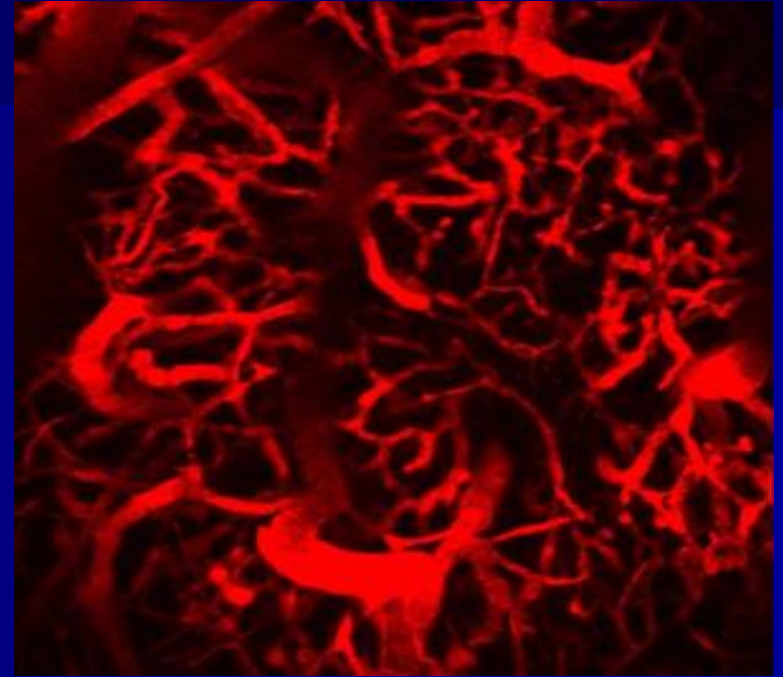
# Incremental improvements in OS in mCRC over the past decade



# Neo-angiogenesi tumorale



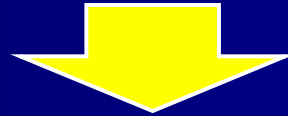
**Normal tissue**



**Tumor tissue**

## ANGIOGENESI:

formazione di nuovi vasi sanguigni  
a partire da pre-esistenti  
vasi capillari normali



**aggressività della malattia**



**esito clinico sfavorevole**



**ridotta sopravvivenza globale**

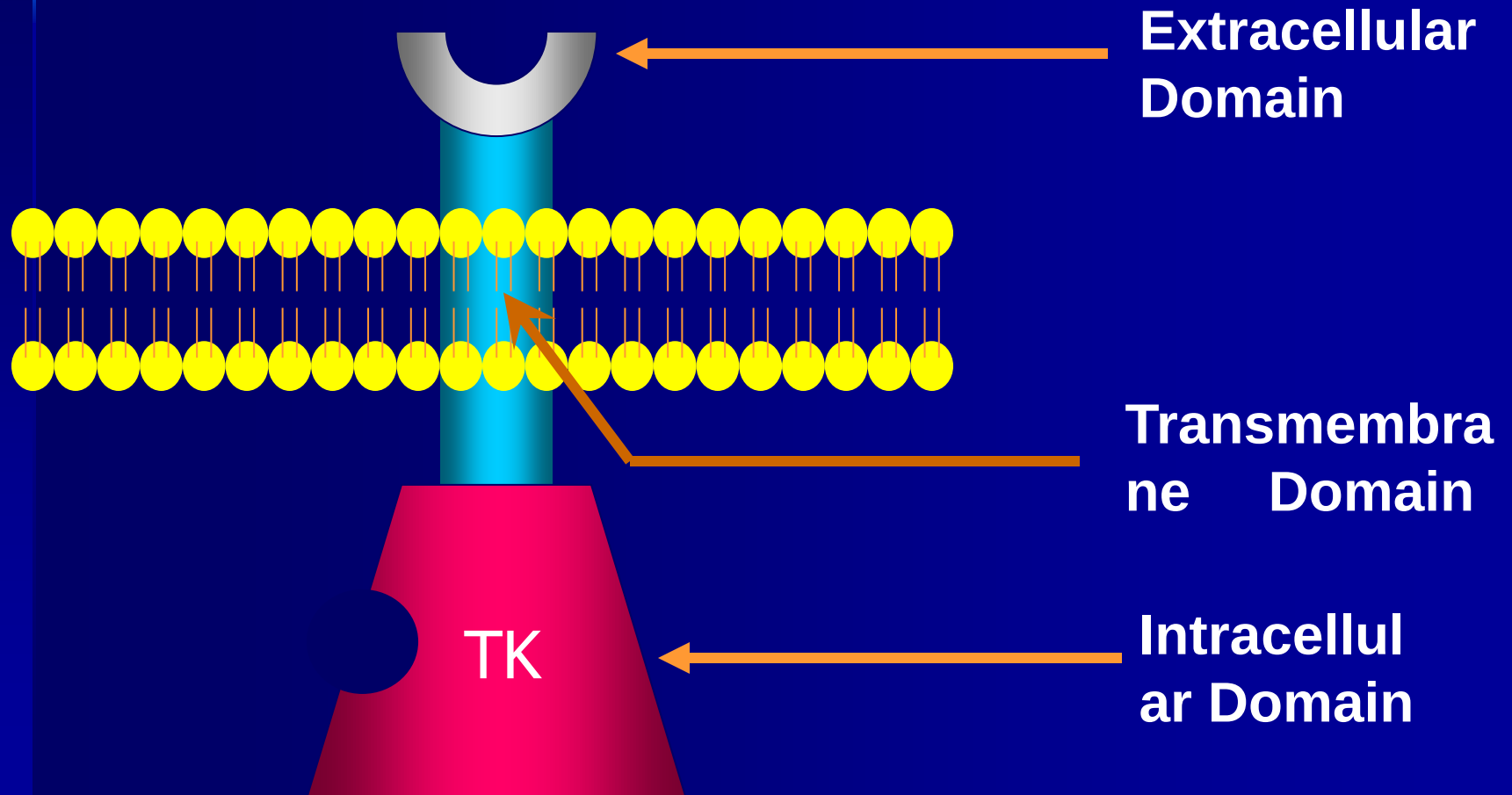
# Bevacizumab (Avastin™): rhuMAb VEGF

- Recombinant Humanized Monoclonal Antibody to VEGF
- 93% human, 7% murine
- Recognizes all isoforms of VEGF,  $K_d = 8 \times 10^{-10} \text{ M}$
- Terminal half life 17-21 days



# EGFR

Epidermal Growth Factor Receptor



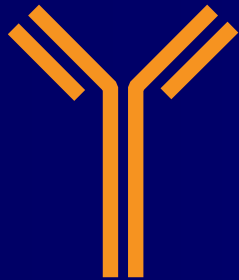
# Anti-EGFR

Cetuximab  
Panitumumab



Anti EGFR antibody

Mouse



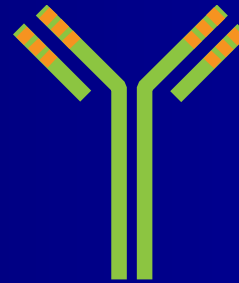
100% Mouse

Chimeric



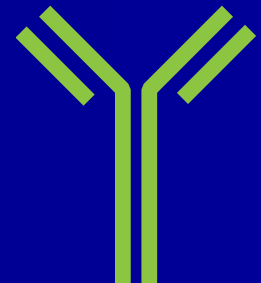
34% Mouse  
cetuximab

Humanized



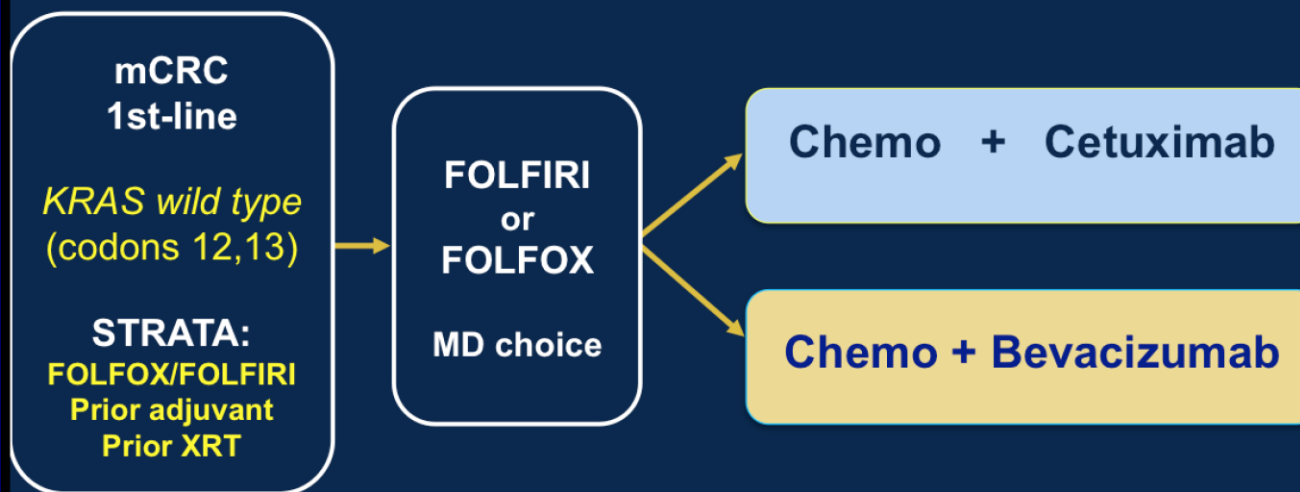
10% Mouse  
matuzumab

Fully Human



100% Human  
panitumumab

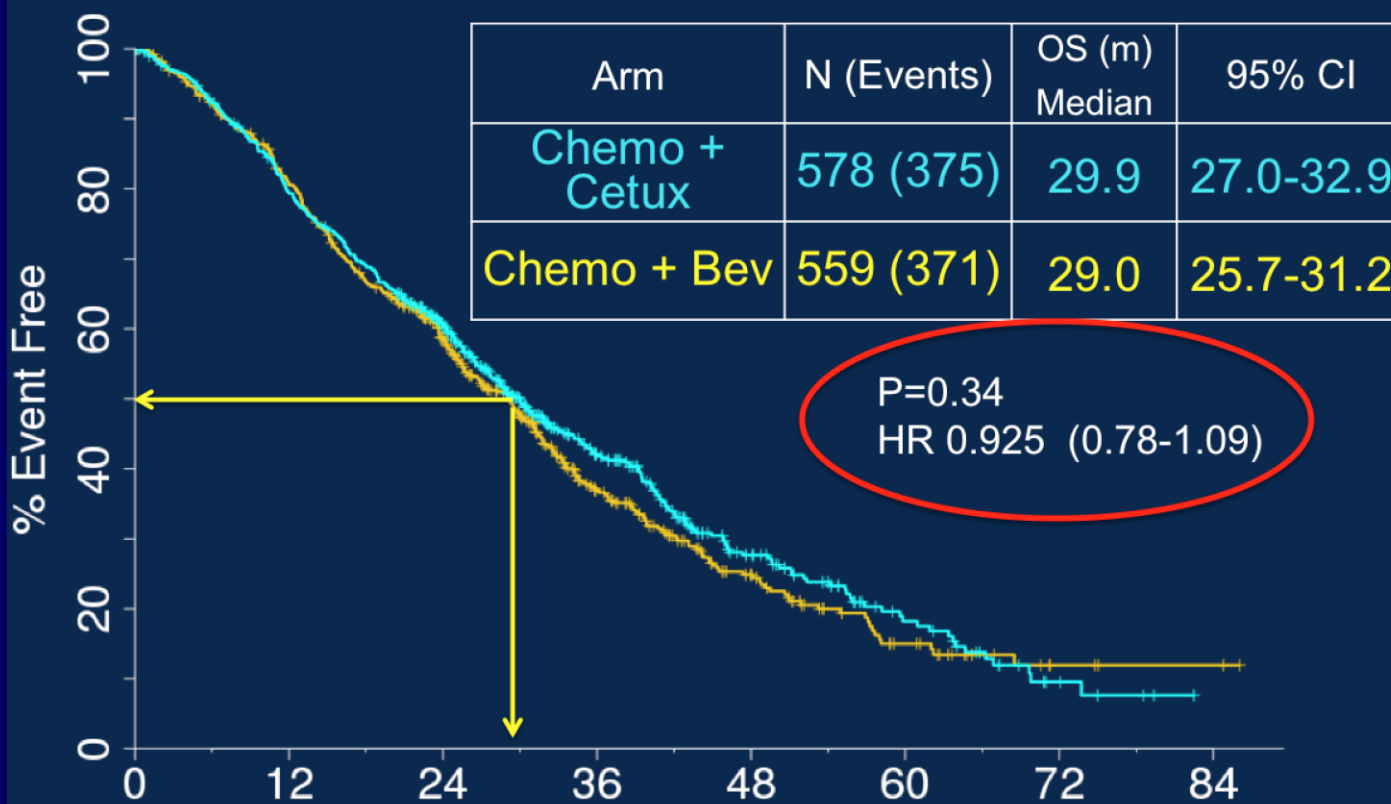
## CALGB/SWOG 80405: FINAL DESIGN



**N = 1140**

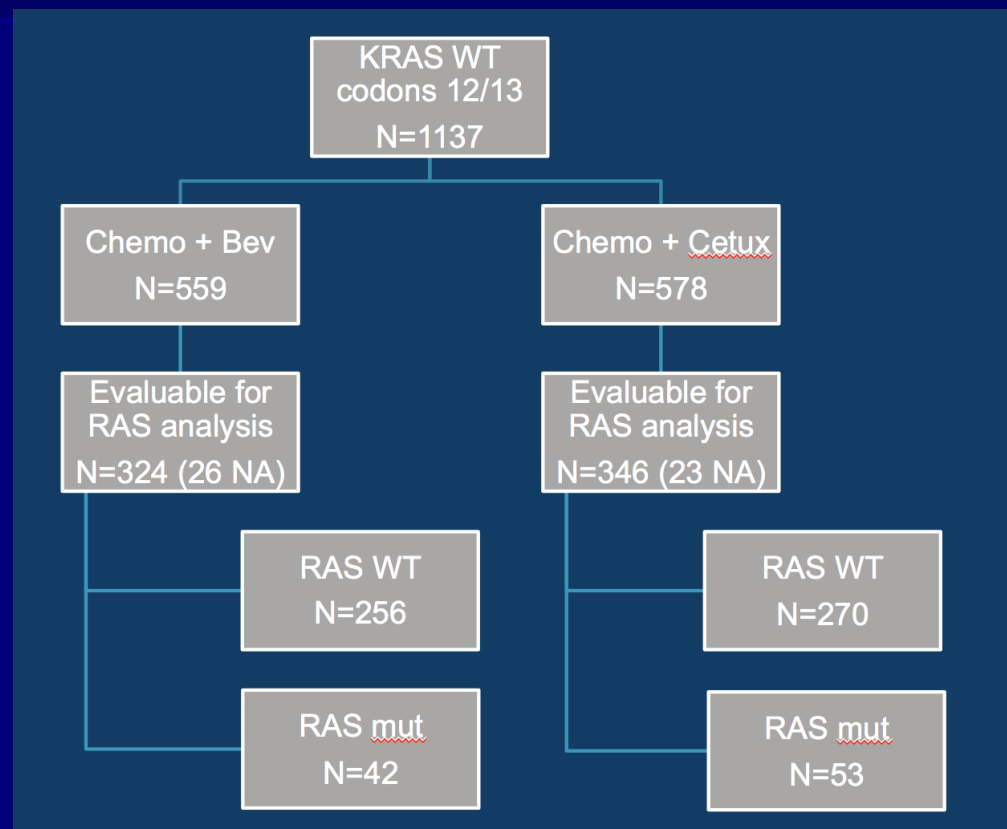
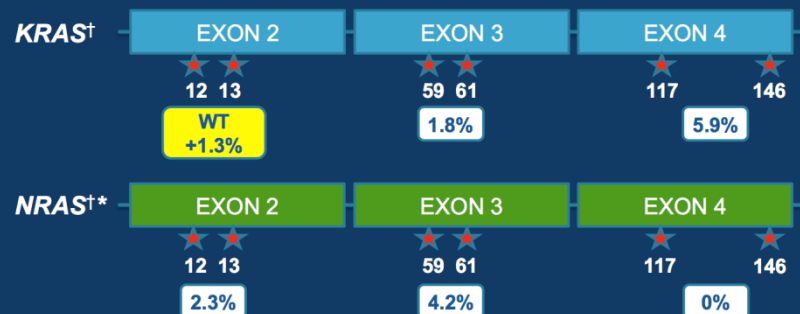
**1° Endpoint: Overall Survival**

## CALGB/SWOG 80405: Overall Survival



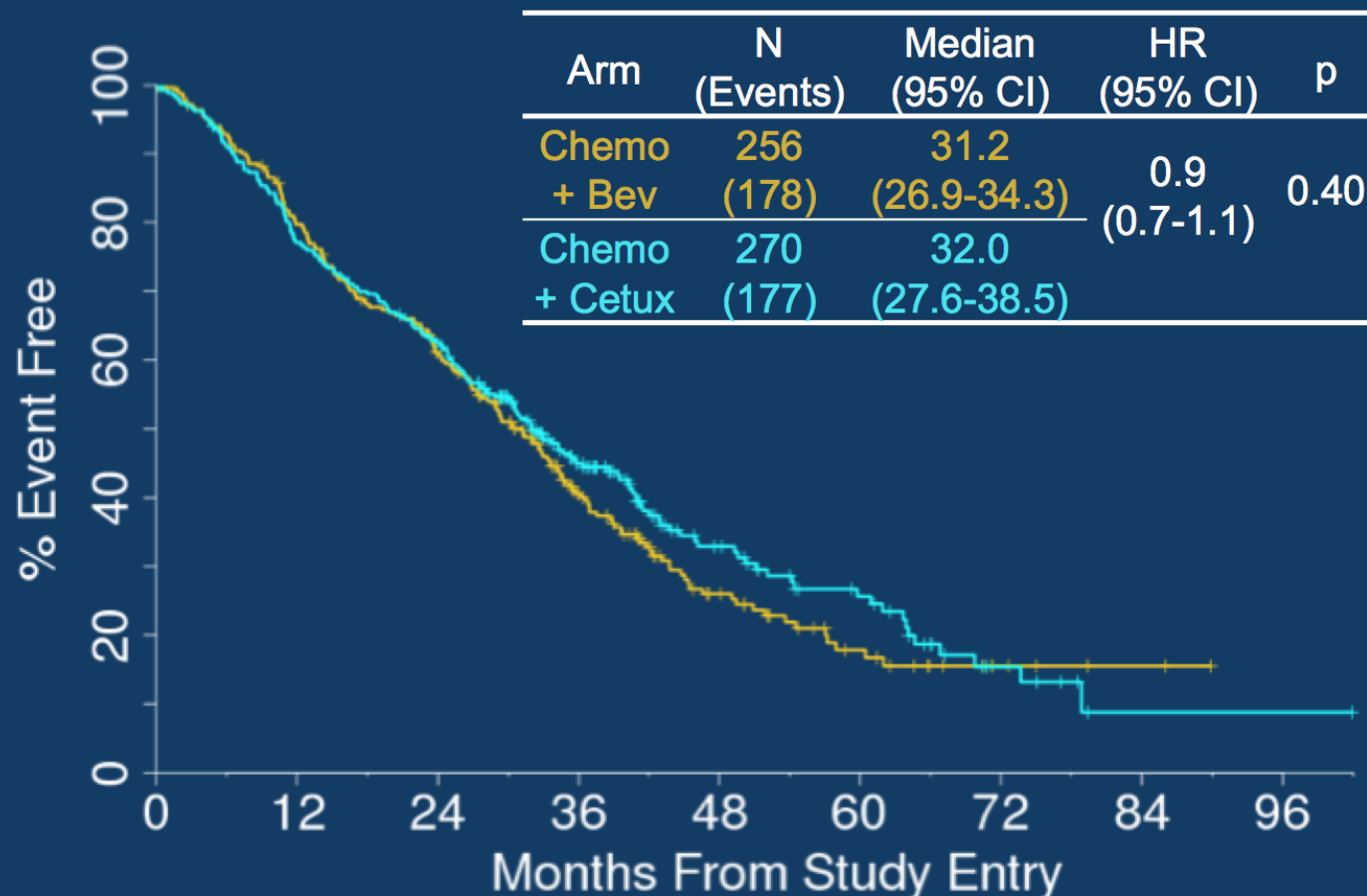
# CALGB/SWOG 80405 RAS Analysis

670/1137 patients (59%) with *KRAS* codon 12/13 WT tumors evaluable  
 621/1137 analyzed (55%) analyzed  
 95/621 (15.3%) patients new ras mutation identified

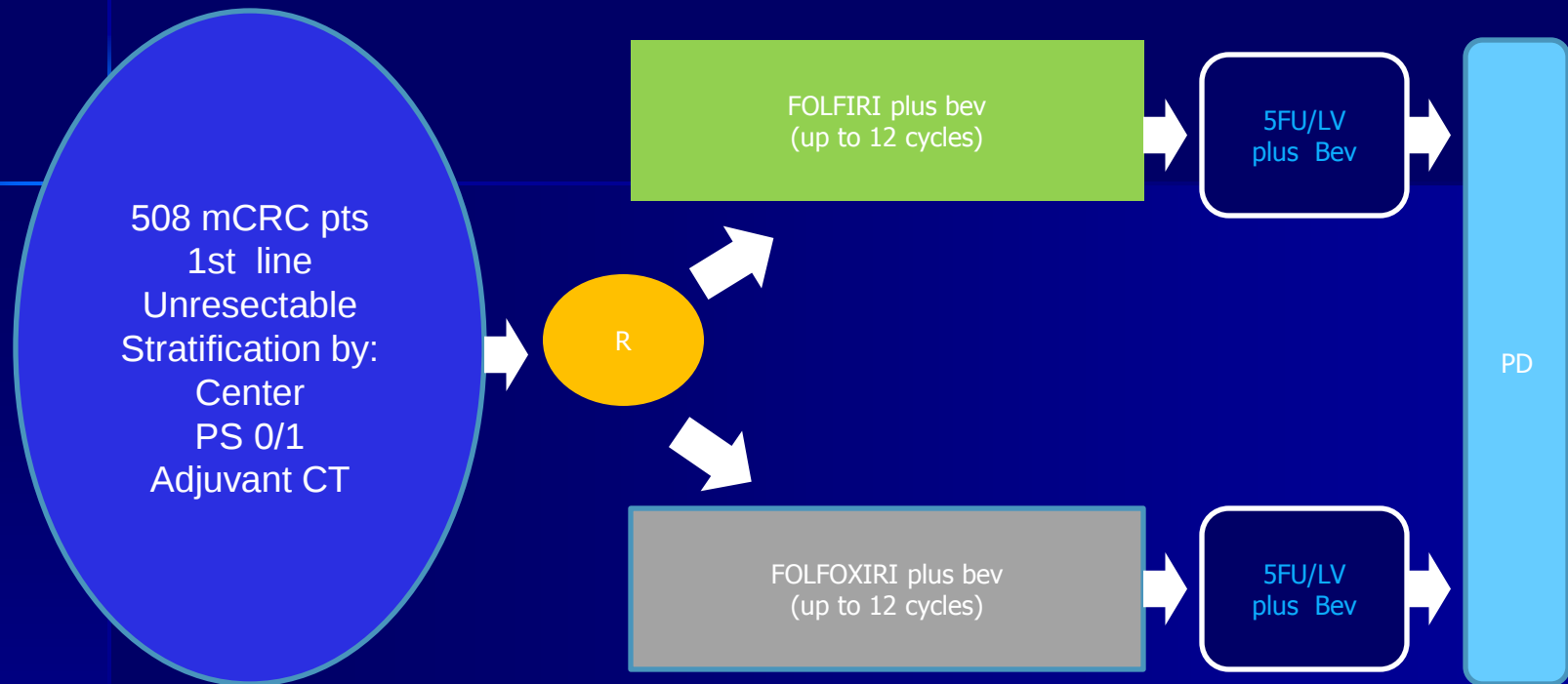


# CALGB/SWOG 80405 RAS Analysis

## Overall Survival By Arm (All RAS Wild Type Patients)



# TRIBE study design



Primary end-point

**PSF**

to detect a HR for PFS of 0.75 in favour of FOLFOXIRI+bev with a 2-sided typt 1 error =0.05;  
Power =80%, 379 events required

Secondary end-points:

RR,secondary R0-resection rate , overall survival,safety profile, biomarkes evaluation

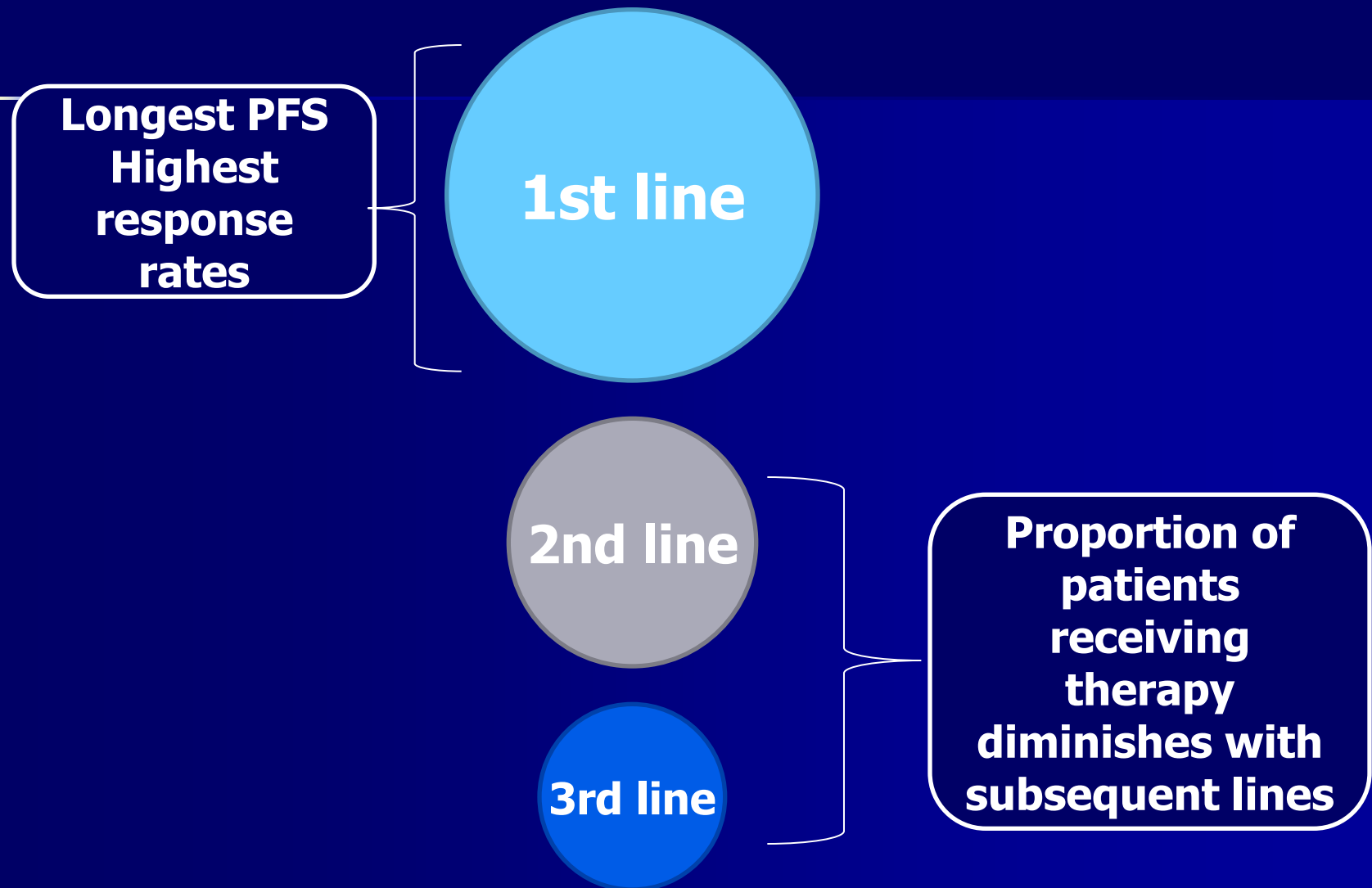
# TRIBE study

RAS and BRAF mutations' predictive impact

|                                      | N   | FOLFIRI + bev<br>Arm A<br>Median PFS | FOLFOXIRI + bev<br>Arm B<br>Median PFS | HR<br>[95% CI]      | FOLFIRI + bev<br>Arm A<br>Median OS | FOLFOXIRI + bev<br>Arm B<br>Median OS | HR<br>[95% CI]      |
|--------------------------------------|-----|--------------------------------------|----------------------------------------|---------------------|-------------------------------------|---------------------------------------|---------------------|
| ITT population                       | 508 | 9.7                                  | 12.1                                   | 0.75<br>[0.62-0.90] | 25.8                                | 31.0                                  | 0.79<br>[0.63-1.00] |
| RAS and BRAF<br>evaluable population | 375 | 10.3                                 | 12.1                                   | 0.80<br>[0.64-0.99] | 25.8                                | 31.0                                  | 0.86<br>[0.65-1.12] |
| RAS mutated                          | 218 | 9.5                                  | 12.0                                   | 0.82<br>[0.61-1.09] | 23.1                                | 30.8                                  | 0.86<br>[0.60-1.22] |
| BRAF mutated                         | 28  | 5.5                                  | 7.5                                    | 0.55<br>[0.26-1.18] | 10.8                                | 19.1                                  | 0.55<br>[0.24-1.23] |
| All wt patients                      | 129 | 11.3                                 | 13.3                                   | 0.75<br>[0.52-1.10] | 34.4                                | 41.7                                  | 0.85<br>[0.52-1.39] |

# Importance of 1st line treatment decision in mCRC

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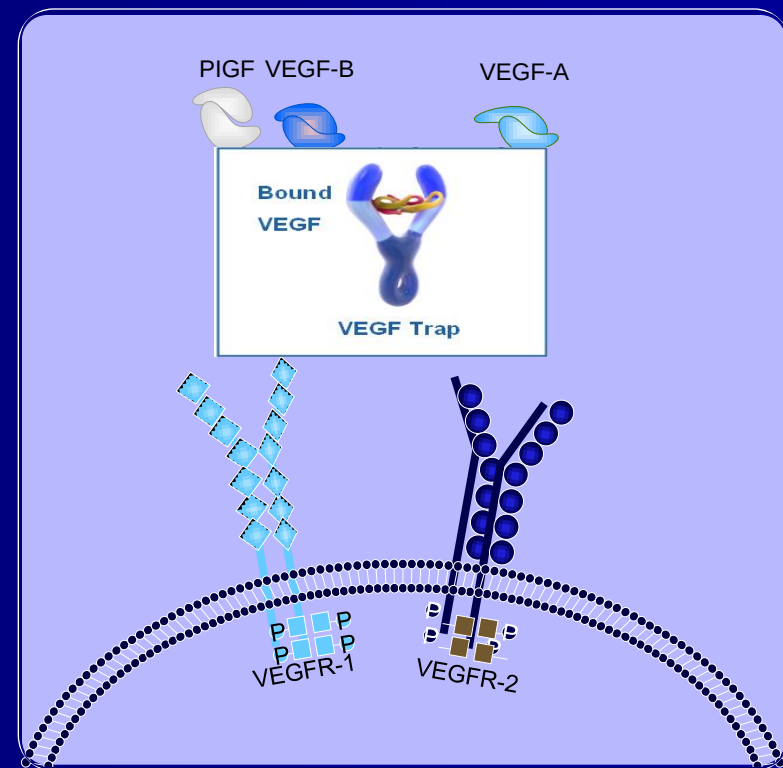
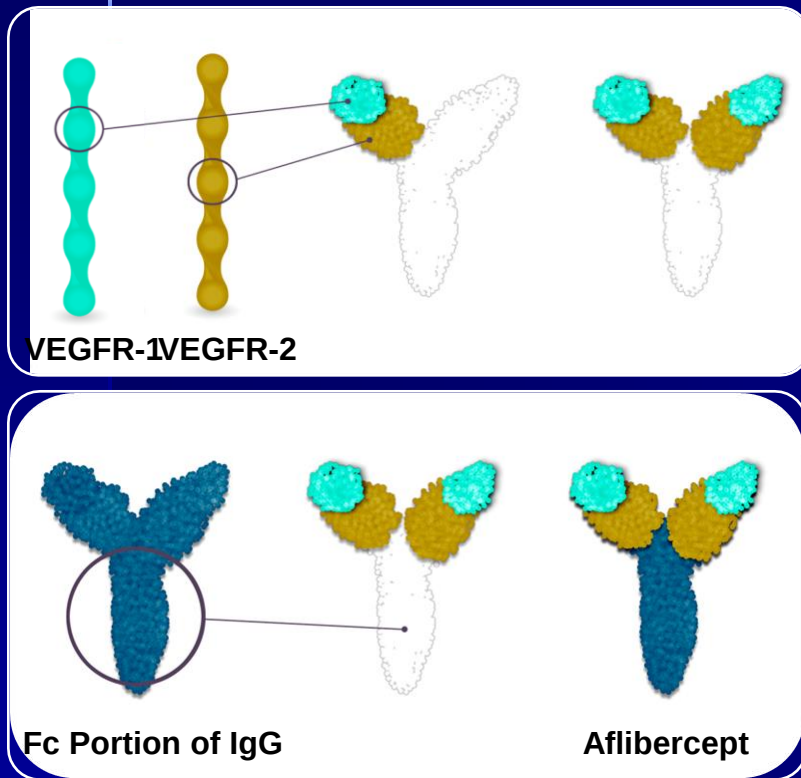
## Second-Line Biologic + Chemo Options: Pivotal Trials

|            |                                                        |                                            | Positive OS Data | Primary Endpoint |     |
|------------|--------------------------------------------------------|--------------------------------------------|------------------|------------------|-----|
| 1L regimen | Bevacizumab                                            | + FOLFOX (E3200) <sup>1</sup> 2L           | ✓                | OS               | ✓   |
|            |                                                        | + Chemo (ML18147) <sup>2</sup> 2L          | ✓                | OS               | ✓   |
|            |                                                        | + Iri-based* (ML18147) <sup>2</sup> ** 2L  | ✗                |                  |     |
|            |                                                        | + Oxali-based (ML18147) <sup>2</sup> ** 2L | ✓                |                  |     |
|            | *Not enough patients to show statistical significance. |                                            |                  |                  |     |
|            | Aflibercept                                            | + FOLFIRI (VELOUR) <sup>3</sup> 2L         | ✓                | OS               | ✓   |
|            | Cetuximab                                              | + Iri-based (EPIC) <sup>4</sup> 2L         | ✗                | OS               | ✗   |
|            | Panitumumab                                            | + FOLFIRI (Study 181) <sup>5</sup> 2L      | ✗                | OS/PFS           | ✗/✓ |

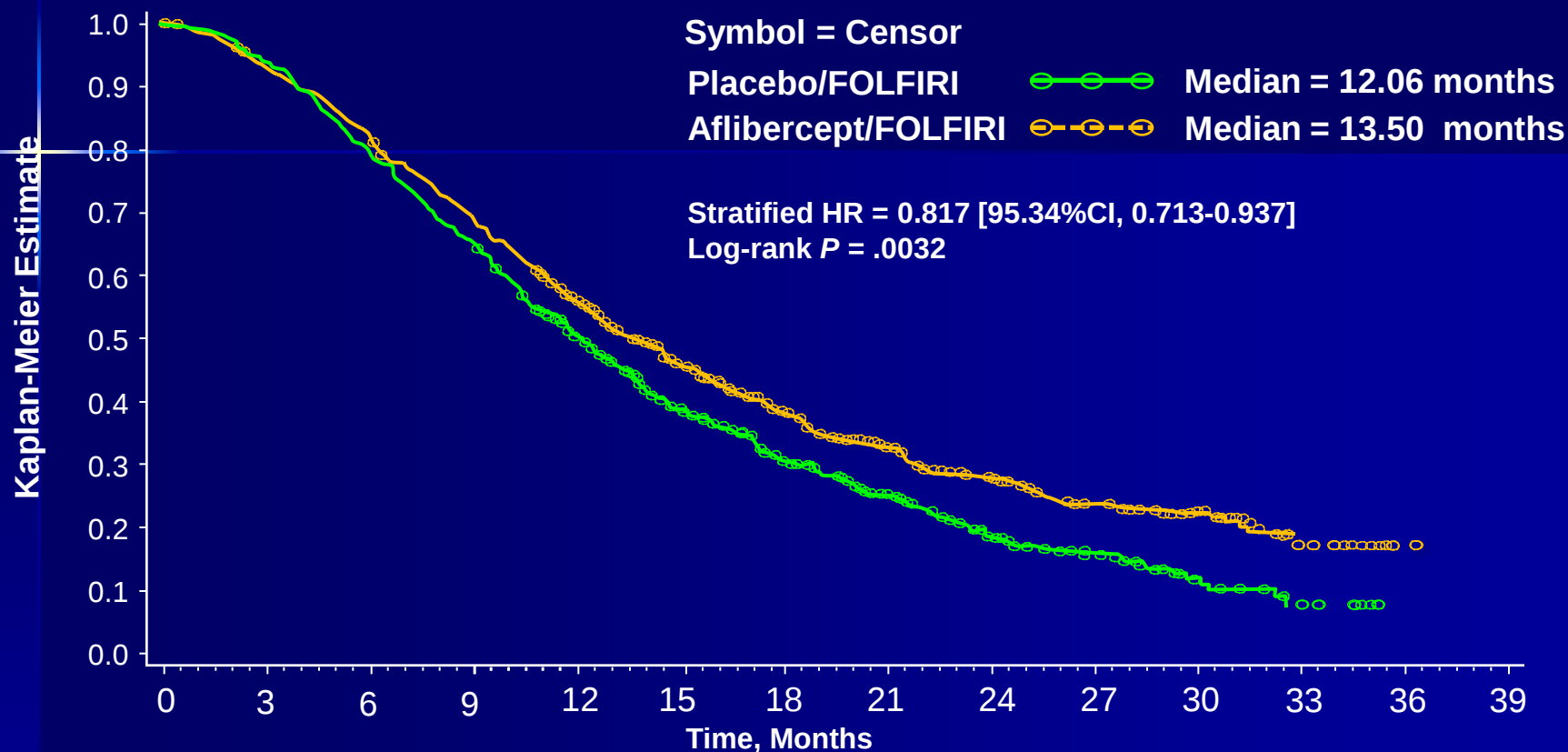
**Aflibercept** is a novel multiple angiogenic factor trap that binds VEGF-A and also uniquely targets VEGF-B and placental growth factor (PlGF)

**ZALTRAP** is a novel recombinant fusion protein that combines the VEGFR-1 and VEGFR-2 binding domains and the Fc region of the human IgG1 antibody

ZALTRAP binds VEGF-A with a higher affinity than its native receptors and potentially blocks the activation of VEGFR-1 and VEGFR-2



# VELOUR: OS (ITT Population)



## Number at Risk

|         |     |     |     |     |     |     |     |     |    |    |    |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|
| Placebo | 614 | 573 | 485 | 401 | 286 | 193 | 131 | 87  | 51 | 31 | 14 |
| AFLI    | 612 | 566 | 498 | 416 | 311 | 216 | 148 | 104 | 75 | 49 | 33 |

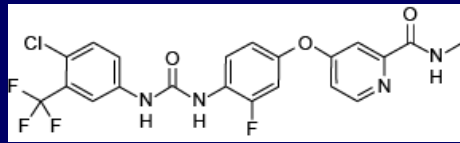
## Survival probability, %

|         |      |      |      |      |      |
|---------|------|------|------|------|------|
| Placebo | 79.1 | 50.3 | 30.9 | 18.7 | 12.0 |
| AFLI    | 81.9 | 56.1 | 38.5 | 28.0 | 22.3 |

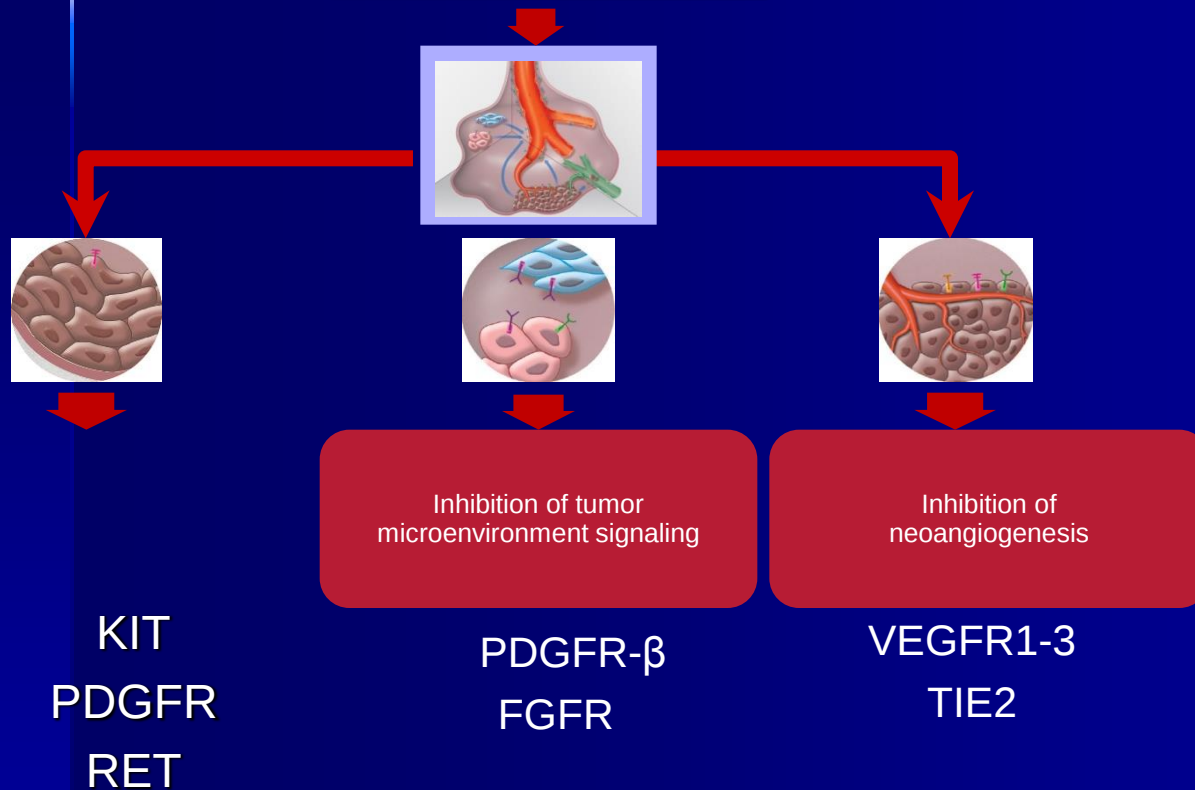
Van Cutsem E, et al. *Ann Oncol.* 2011;22(Suppl 5). Abstract O-0024.  
 Allegra C, et al. *J Clin Oncol.* 2012;30(15S): Abstract 3505.

Cut-off date = February 7, 2011;  
 Median follow-up = 22.28 months

# Regorafenib: multi-kinase inhibitor

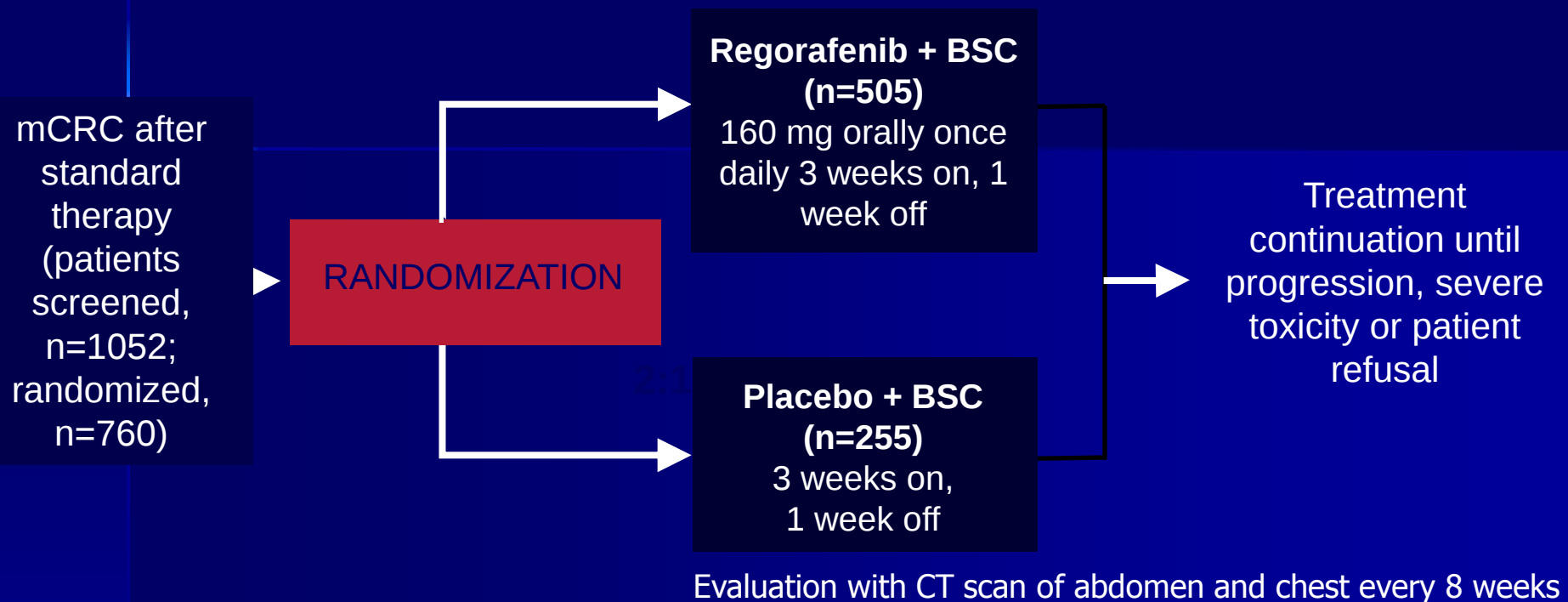


Regorafenib



| Biochemic activity     | Regorafenib IC <sub>50</sub><br>mean ± SD<br>nmol/l (n) |      |
|------------------------|---------------------------------------------------------|------|
| VEGFR1                 | 13 ± 0.4                                                | (2)  |
| Murine VEGFR2          | 4.2 ± 1.6                                               | (10) |
| Murine VEGFR3          | 46 ± 10                                                 | (4)  |
| TIE2                   | 311 ± 46                                                | (4)  |
| PDGFR-β                | 22 ± 3                                                  | (2)  |
| FGFR1                  | 202 ± 18                                                | (6)  |
| KIT                    | 7 ± 2                                                   | (4)  |
| RET                    | 1.5 ± 0.7                                               | (2)  |
| RAF-1                  | 2.5 ± 0.6                                               | (4)  |
| B-RAF                  | 28 ± 10                                                 | (6)  |
| B-RAF <sup>V600E</sup> | 19 ± 6                                                  | (6)  |

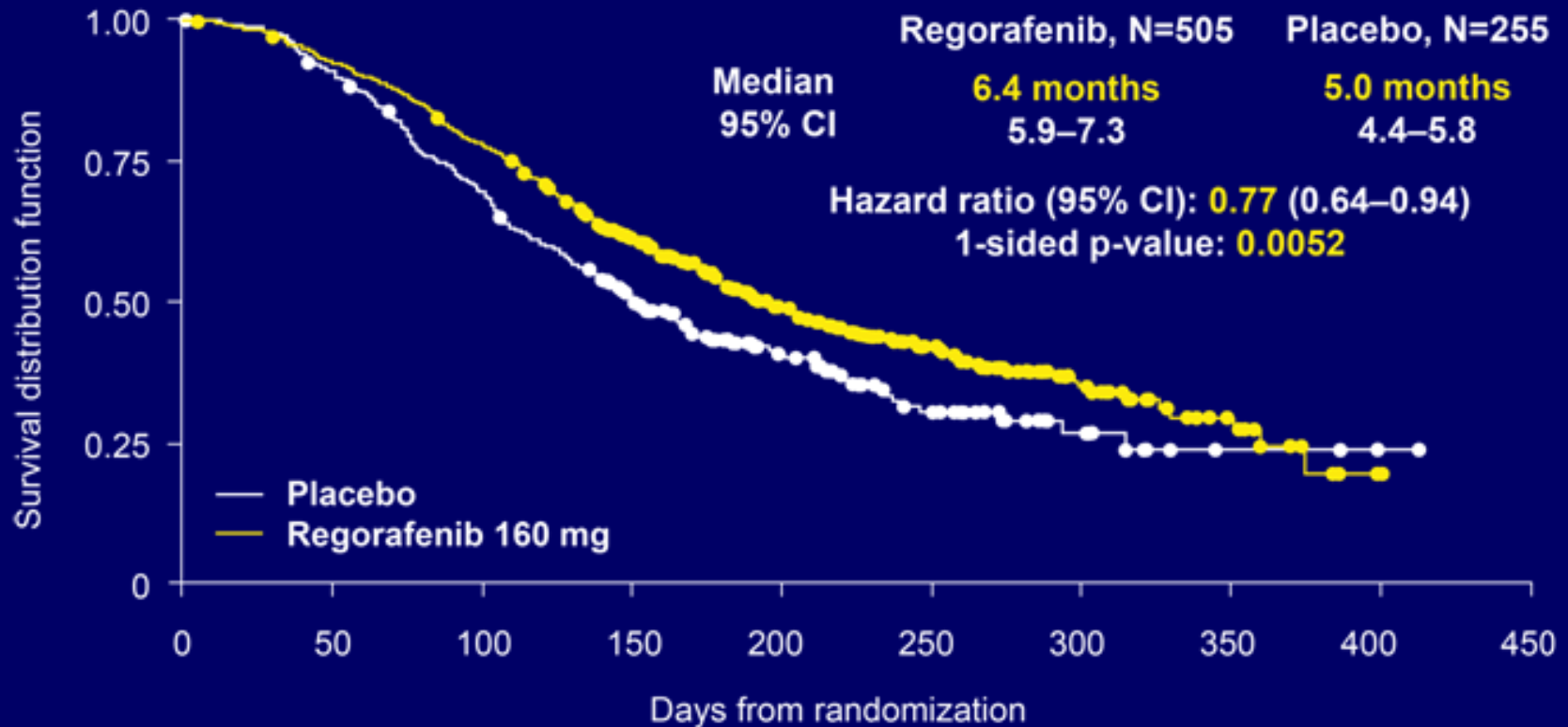
# Phase III CORRECT trial



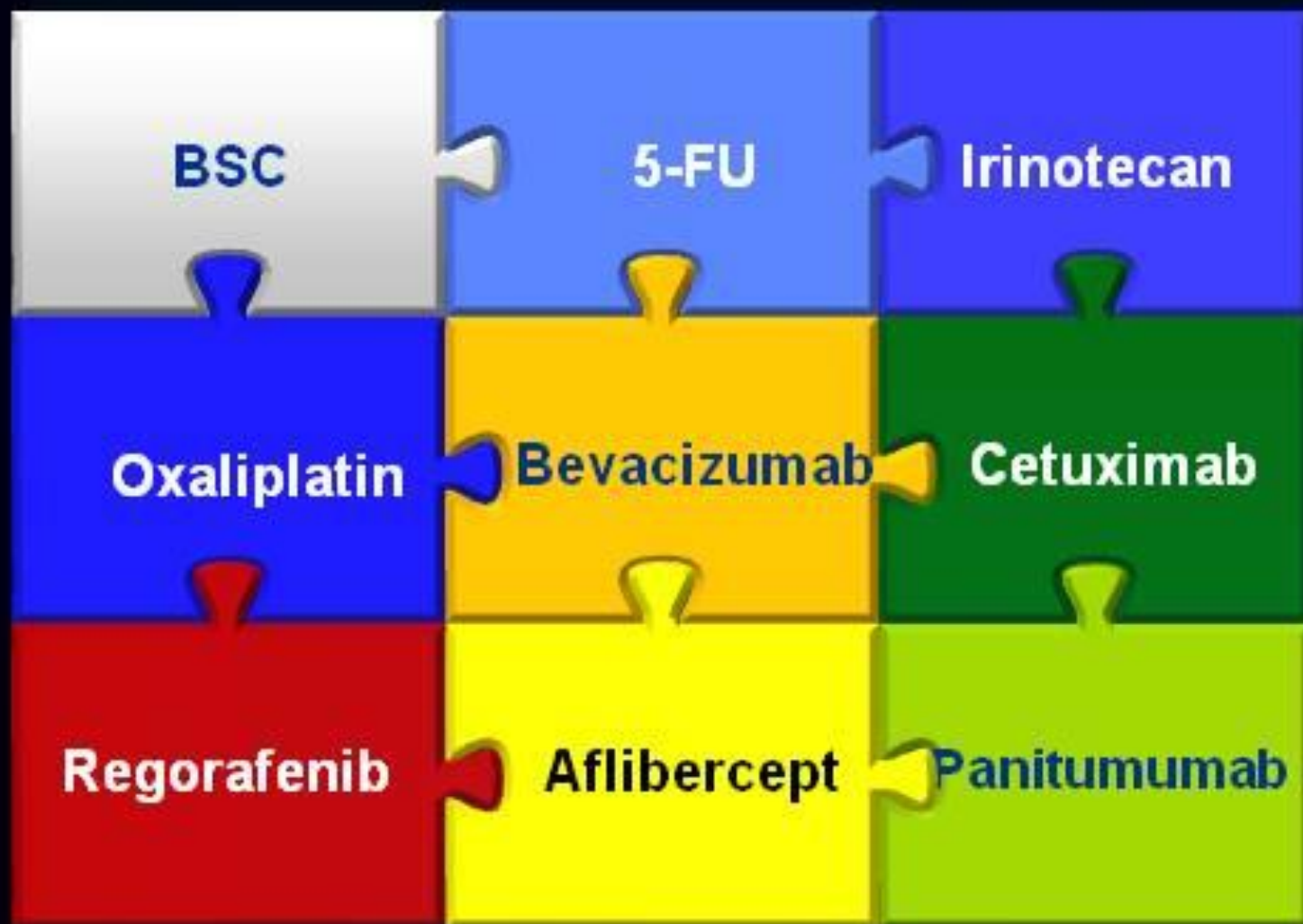
- Multicenter, randomized, double-blind, placebo-controlled, phase III
- Stratification: prior anti-VEGF therapy, time from diagnosis of metastatic disease, geographical region
- Global trial: 16 countries, 114 centers
- Recruitment: May 2010 to March 2011

# Phase III CORRECT: OS

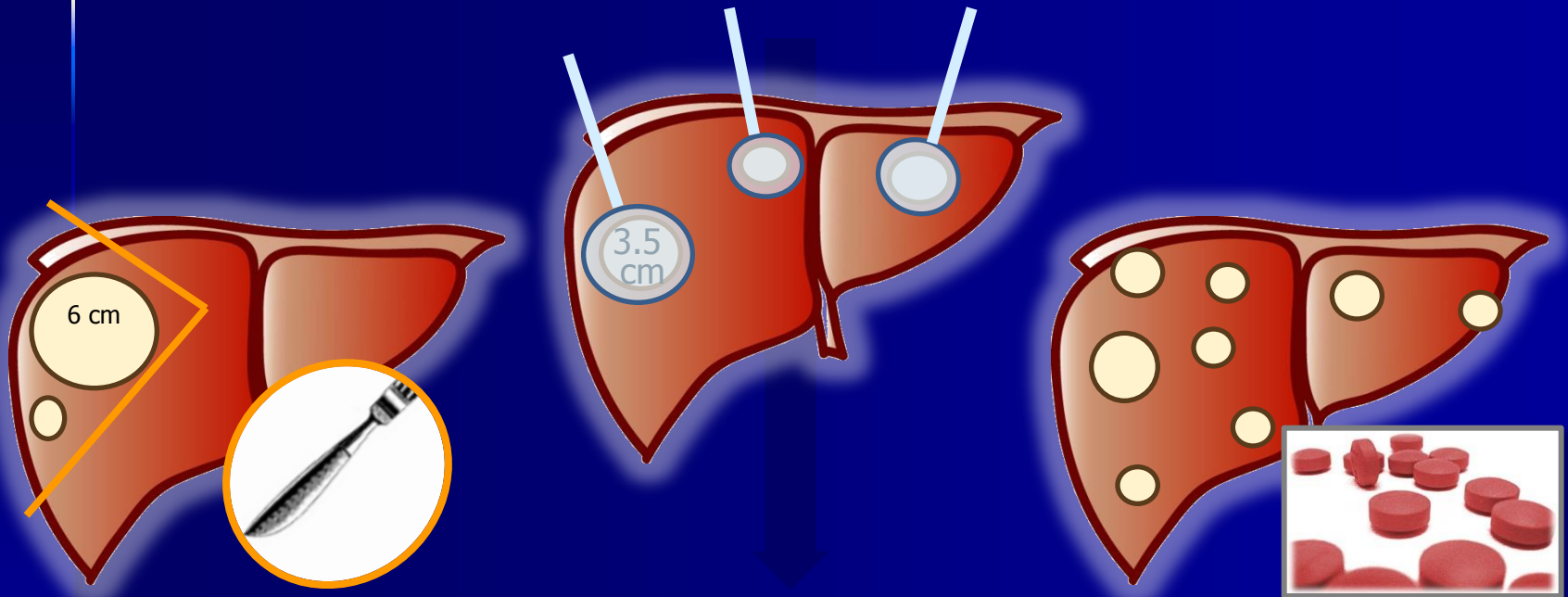
**Primary endpoint met prespecified stopping criteria at interim analysis (1-sided  $p < 0.009279$  at approximately 74% of events required for final analysis)**



# **A high number of agents is currently available for the treatment of mCRC**

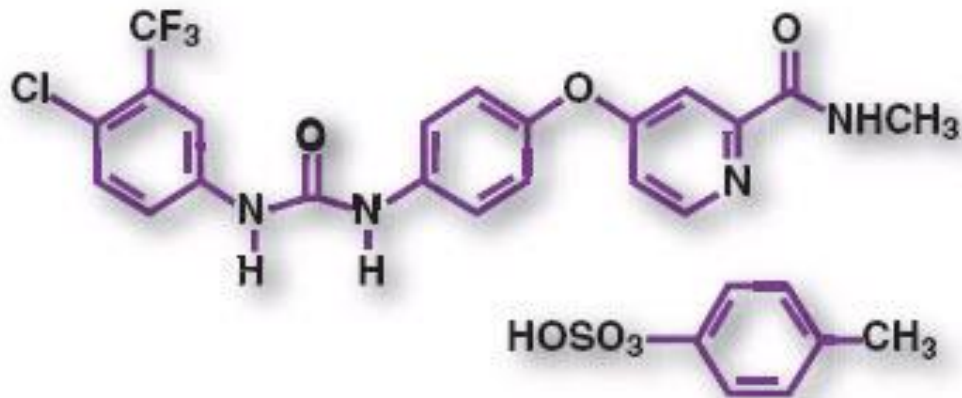


# EPATOCARCINOMA



**TACE** (sempre?)/  
**TARE** (sperimentale)?

# The turning-point in the management of advanced HCC



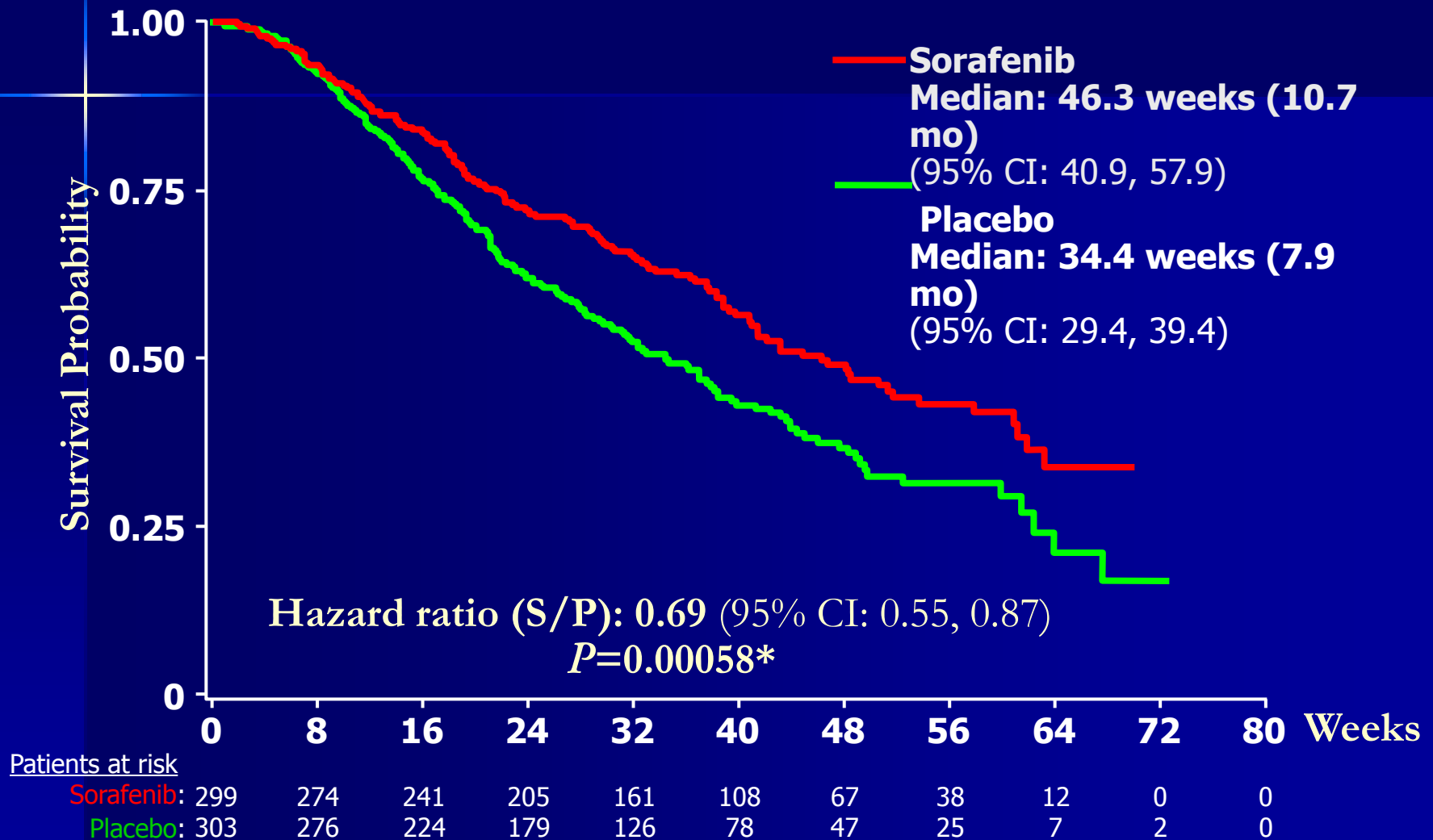
Sorafenib Tosylate (Nexavar)



Sorafenib (BAY 43-9006, Nexavar): a multikinase inhibitor with activity against Raf, VEGFR-2, VEGFR-3, PDGFR, c-Kit

# Phase III SHARP Trial

## Overall survival (Intention-to-treat)



\*O'Brien-Fleming threshold for statistical significance was  $P=0.0077$

## Obiettivi della Ricerca sul Genoma del Cancro

- Identificare nel genoma dei tumori alterazioni responsabili della progressione tumorale
- Identificare nuovi bersagli terapeutici
- Selezionare farmaci basati sulle caratteristiche genomiche dei tumori



# Terapia medica

- Riduttiva (o neoadiuvante)
- Concomitante
- Precauzionale( o adiuvante)
- Terapeutica: nuove combinazioni e nuovi farmaci
- Approccio multidisciplinare al paziente oncologico ( chirurgia, ortopedia, endoscopia, radioterapia, anestesiology, infettivologia, etc.)

# Gruppo Interdisciplinare Cure (G.I.C.)

- Il Gruppo Interdisciplinare Cure (GIC) riunisce al proprio interno **medici di diversa specializzazione** appartenenti a differenti Unità Operative che, attraverso una visione complessiva della persona malata e dunque grazie all'interdisciplinarietà dell'approccio clinico, **stabiliscono i percorsi di cura più appropriati.**

Il GIC, nello svolgimento del proprio compito di cura della persona malata, si ispira ai **protocolli procedurali attualmente in vigore**, ma può anche stabilire collegialmente di ricorrere a **protocolli sperimentali** purché regolarmente approvati.

## Gruppo Interdisciplinare Cure (G.I.C.)

- Il principale vantaggio che deriva da una **presa in carico multidisciplinare** è rappresentato da una **maggiore tempestività e dal coordinamento degli interventi**: i **diversi professionisti** coinvolti nelle fasi di diagnosi e cura, che naturalmente cambiano in base alla patologia e alle specifiche condizioni di salute della persona malata, **non incontrano il paziente in successione**, frammentando i percorsi diagnostico-terapeutici e allungando i tempi di attesa, ma si presentano come **una vera e propria équipe medica** che basa la propria operatività sulla comunicazione e la condivisione interdisciplinare.

# In conclusione:

- Miglioramenti notevoli nelle percentuali di guarigione
- Netto miglioramento della durata della sopravvivenza
- Significativo miglioramento della qualità di vita

An illustration of two hands holding a bouquet of purple flowers. The hands are light-skinned and positioned with palms up, supporting a large, dense bouquet of small purple flowers with pink centers. The bouquet is tied with a dark ribbon. The entire scene is set within a circular frame with a dark green background. The text "Grazie per l'attenzione!" is overlaid in the center in a bold green font.

**Grazie per l'attenzione!**