



Mistakes I See in GIST Management, and Ethical Issues In Clinical Trials

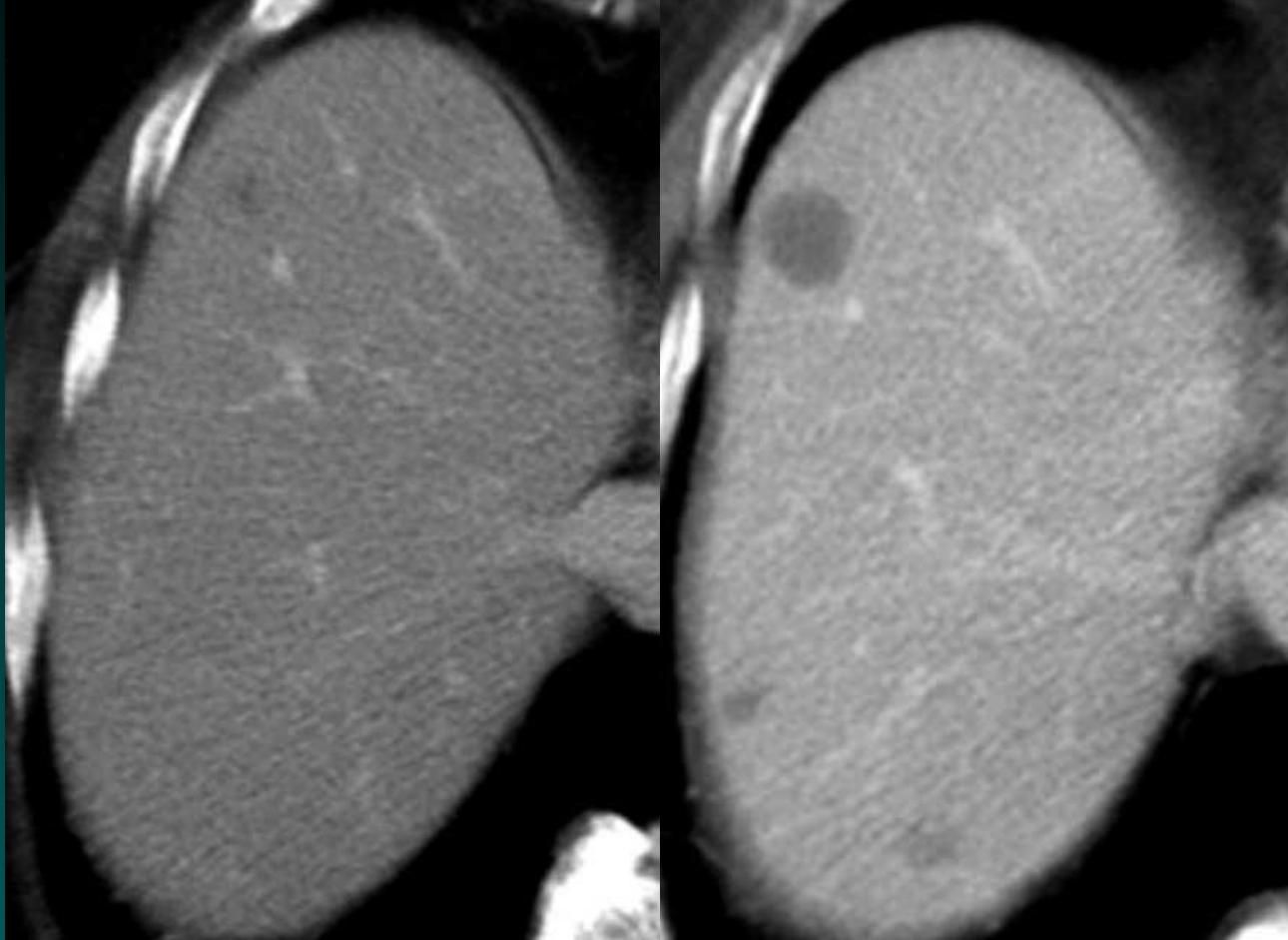
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The Connective Tissue Oncology Society



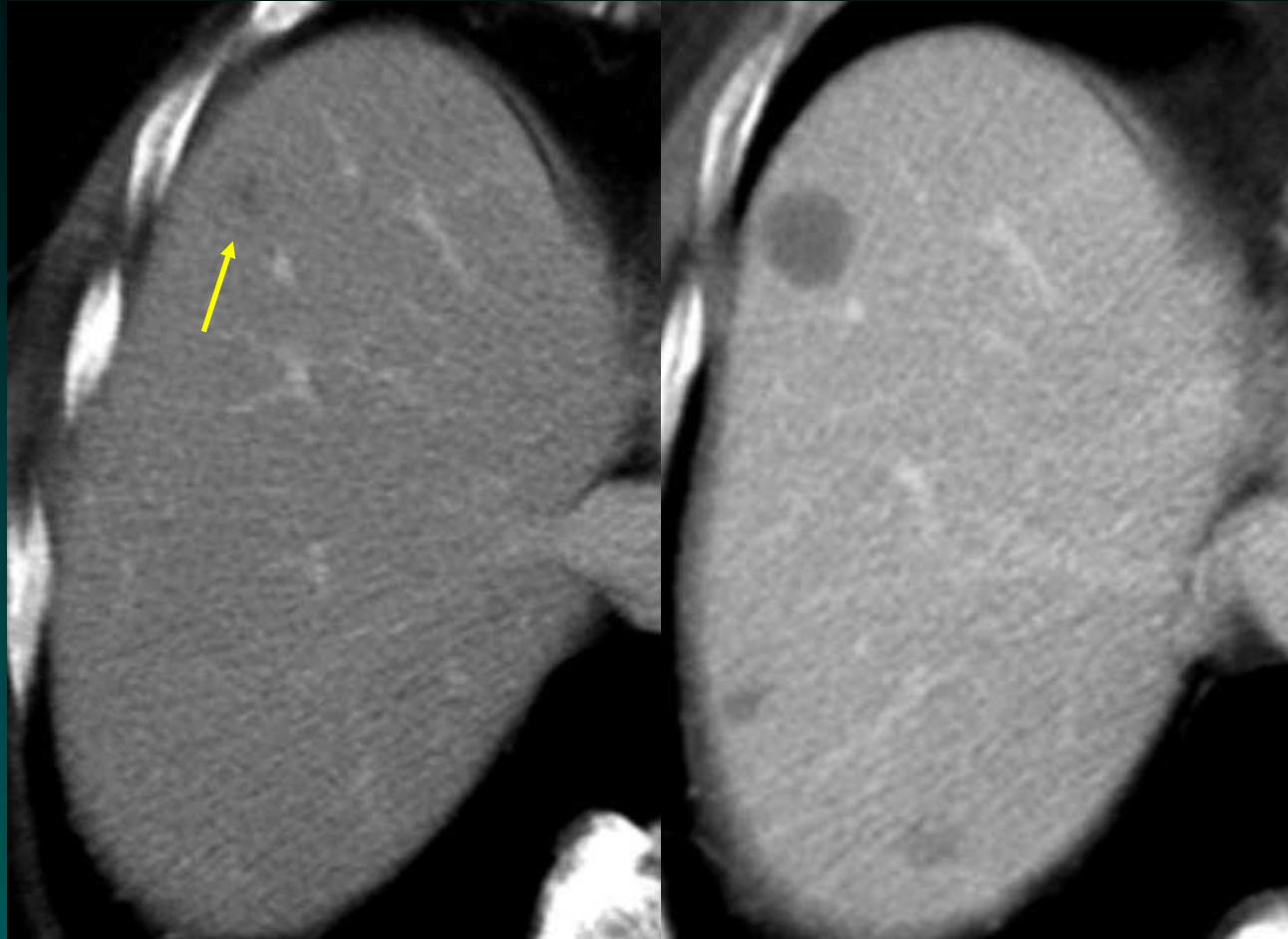
Effects of Imatinib on GIST: CT findings



1/12

3/30

Effects of Imatinib on GIST: CT findings

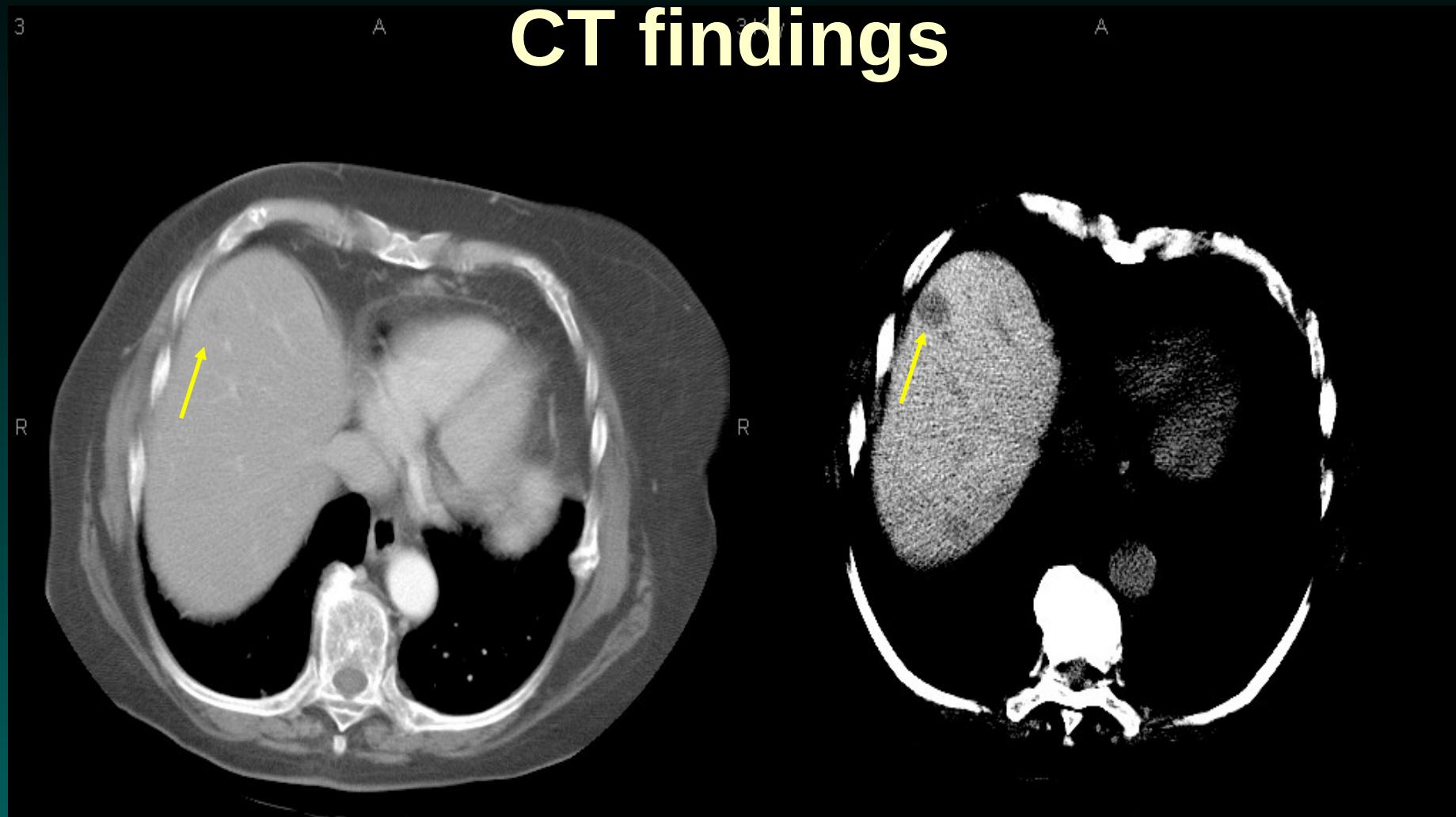


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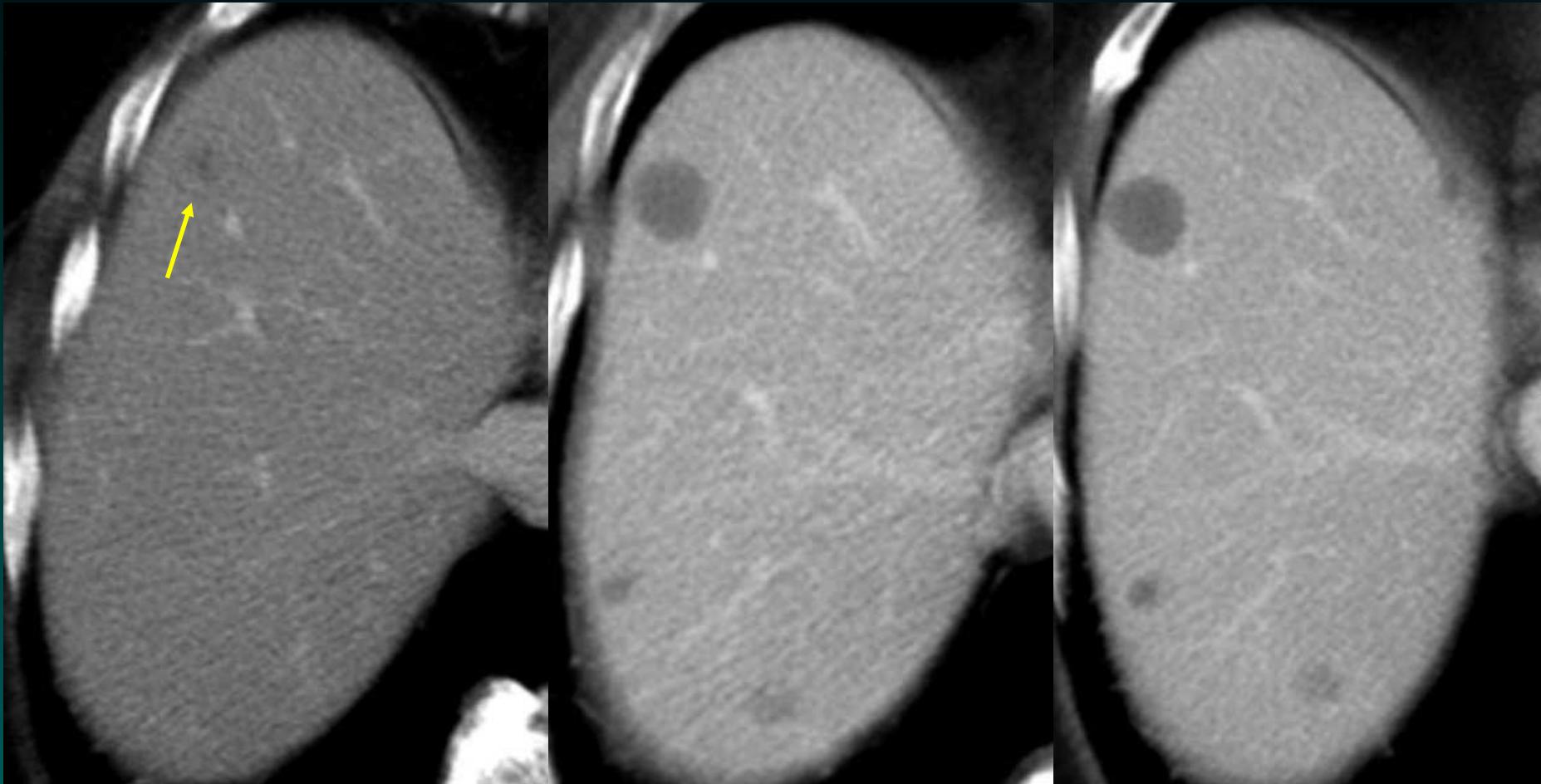
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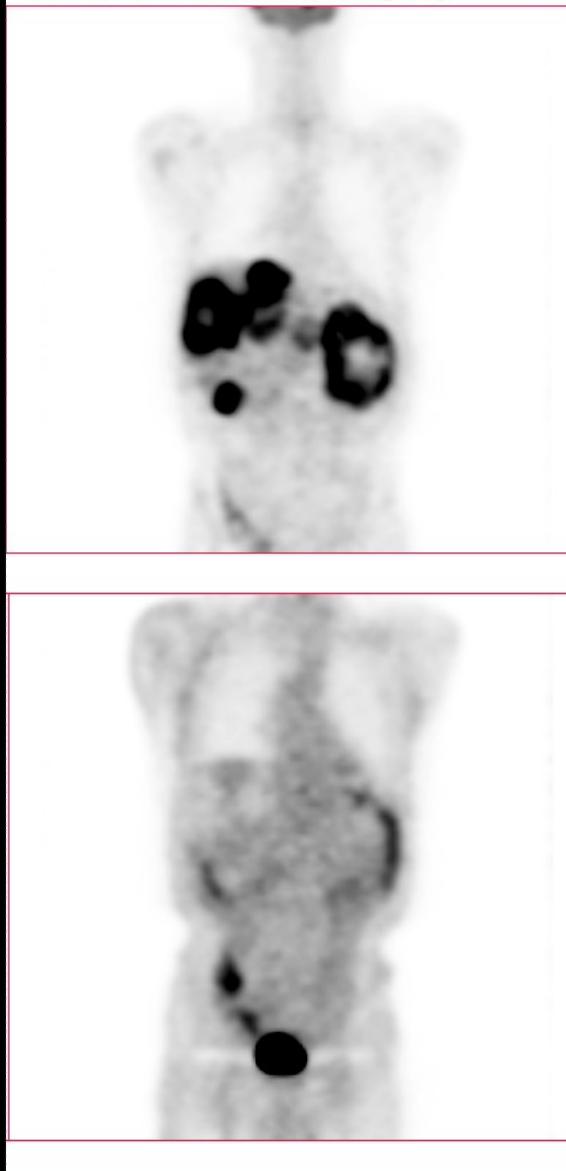
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THE UNIVERSITY OF TEXAS
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HOUSTON, TEXAS

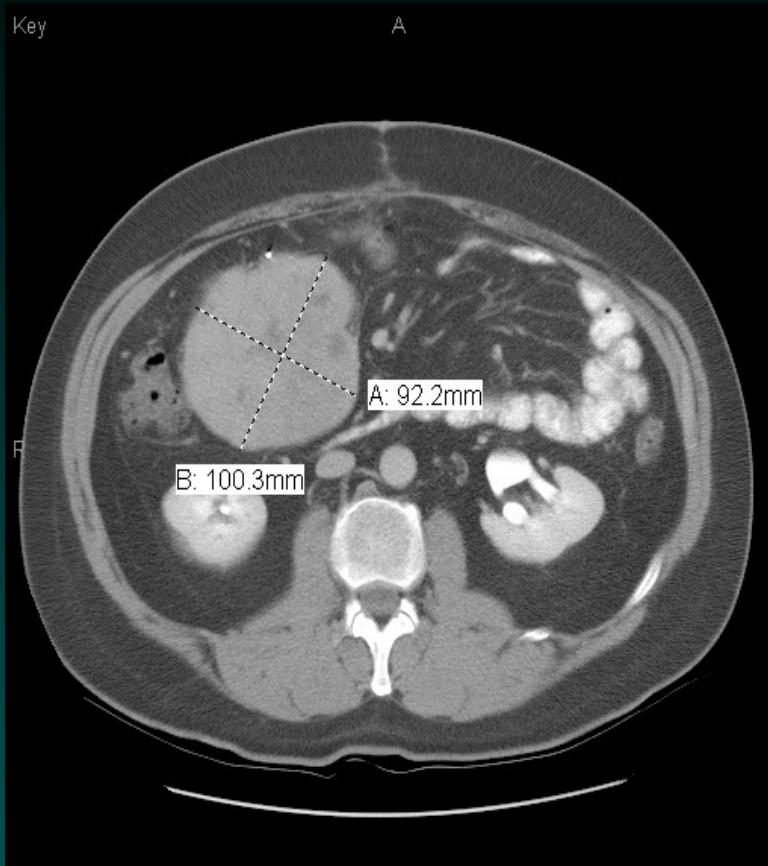
Section of Positron Emission Tomography

Now you see it

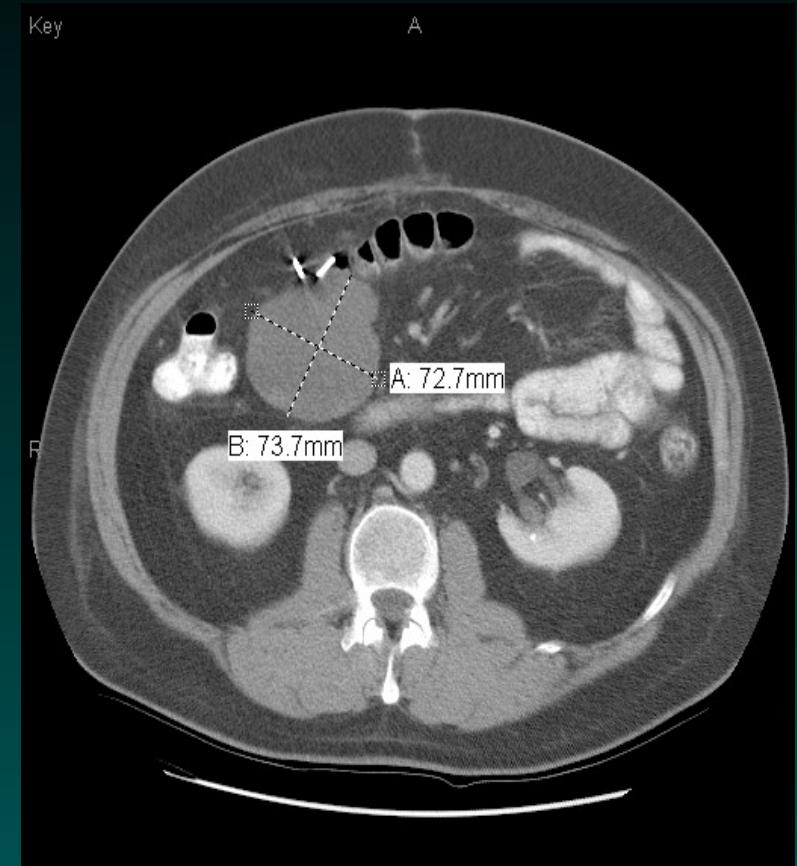


Now you don't

Effects of Imatinib on GIST: CT findings - Size

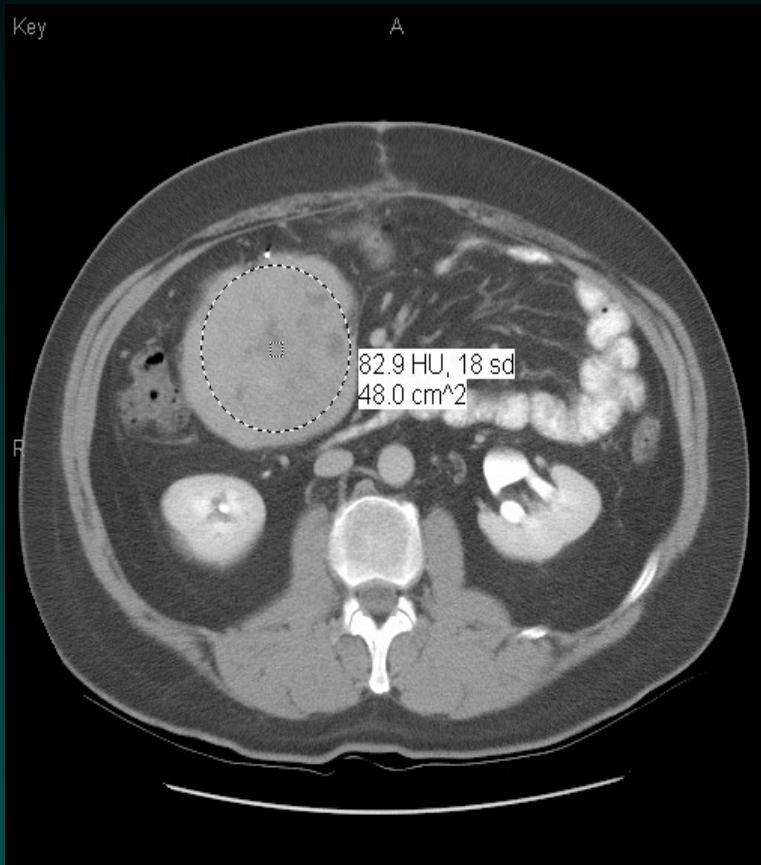


Baseline

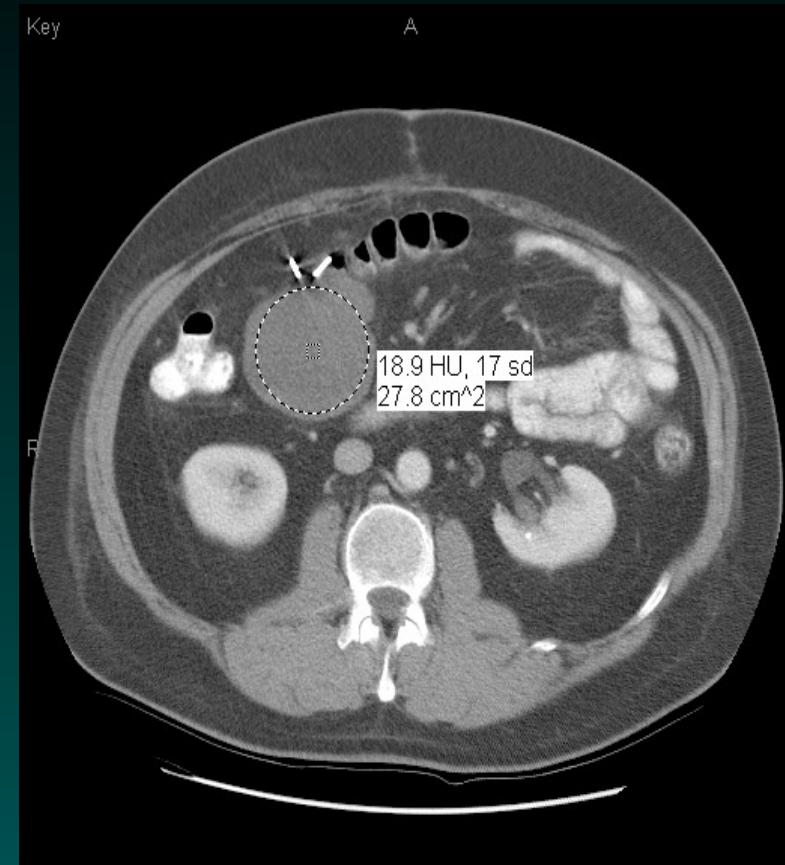


8 Weeks

Effects of Imatinib on GIST: CT findings - Density

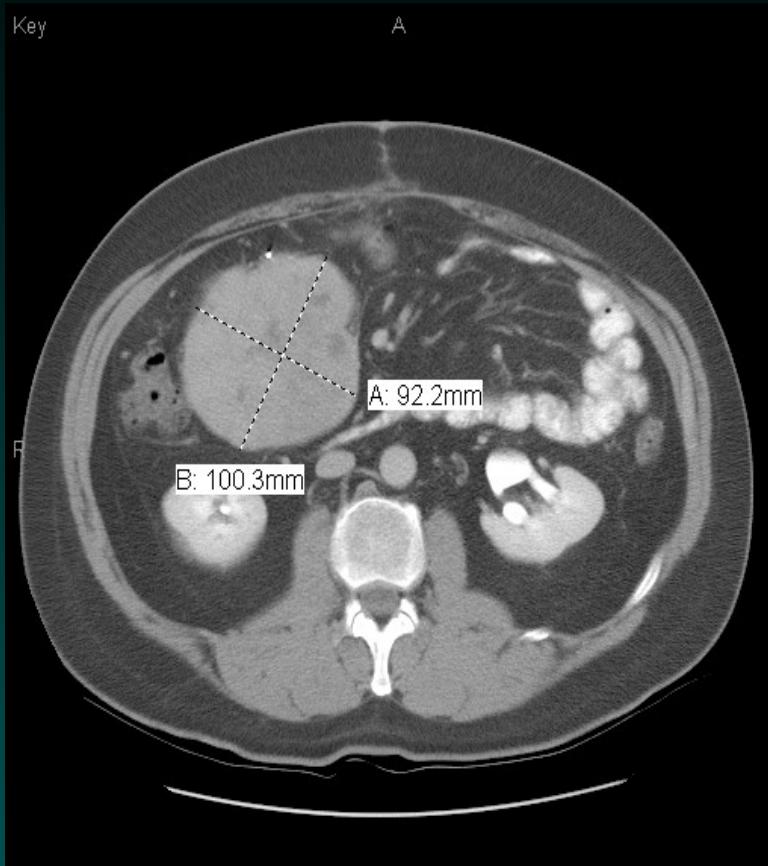


**Baseline with
Density Measurement**

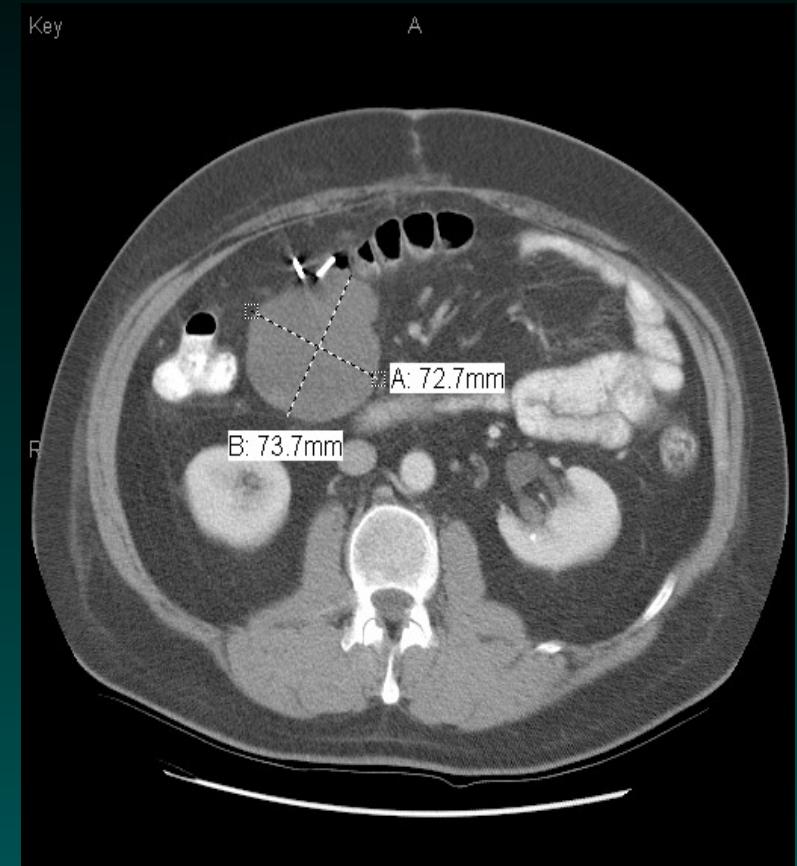


**8 weeks with
Density Measurement**

Effects of Imatinib on GIST: CT findings - Size



Baseline



8 Weeks



We Should Desist Using RECIST at Least in GIST





SU11248 in Advanced GIST

Sunitinib Malate, Sutent
Stop
Imatinib
4 weeks



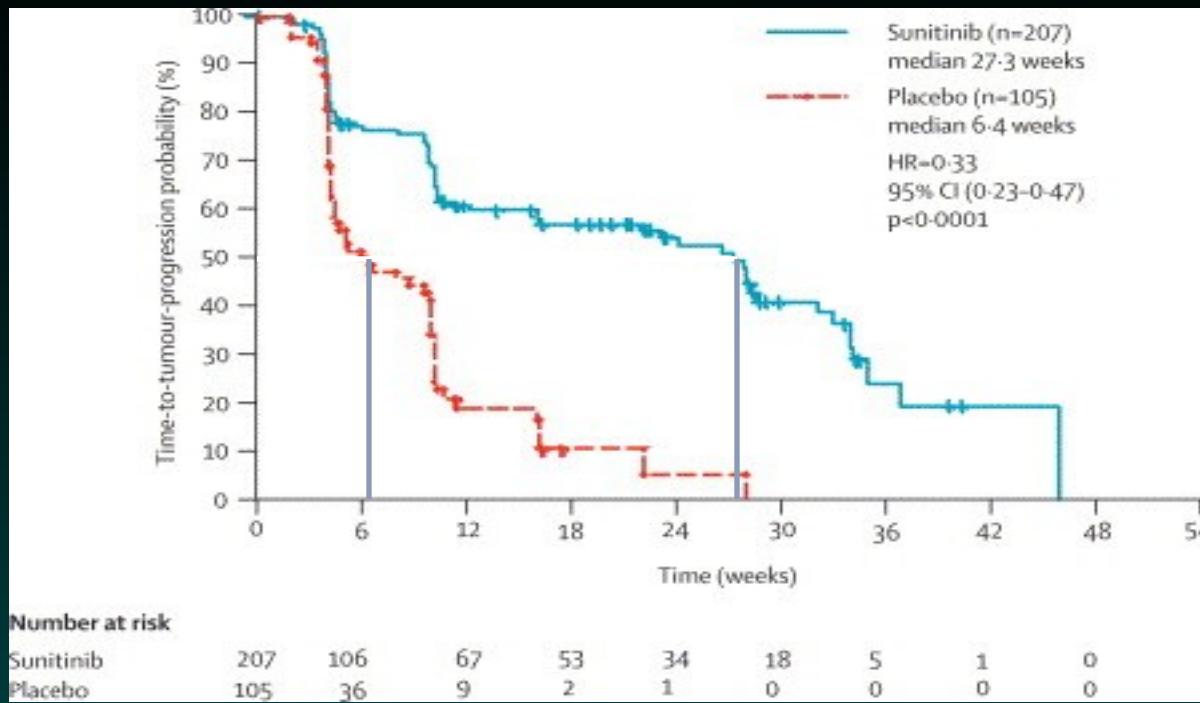


Figure 2 Kaplan-Meier estimates of time to tumour progression Results represent central radiology assessment of ITT population.

George D Demetri , Allan T van Oosterom , Christopher R Garrett , Martin E Blackstein , Manisha H Shah , Jaap Verw...

Efficacy and safety of sunitinib in patients with advanced gastrointestinal stromal tumour after failure of imatinib: a randomised controlled trial

The Lancet Volume 368, Issue 9544 2006 1329 - 1338

[http://dx.doi.org/10.1016/S0140-6736\(06\)69446-4](http://dx.doi.org/10.1016/S0140-6736(06)69446-4)

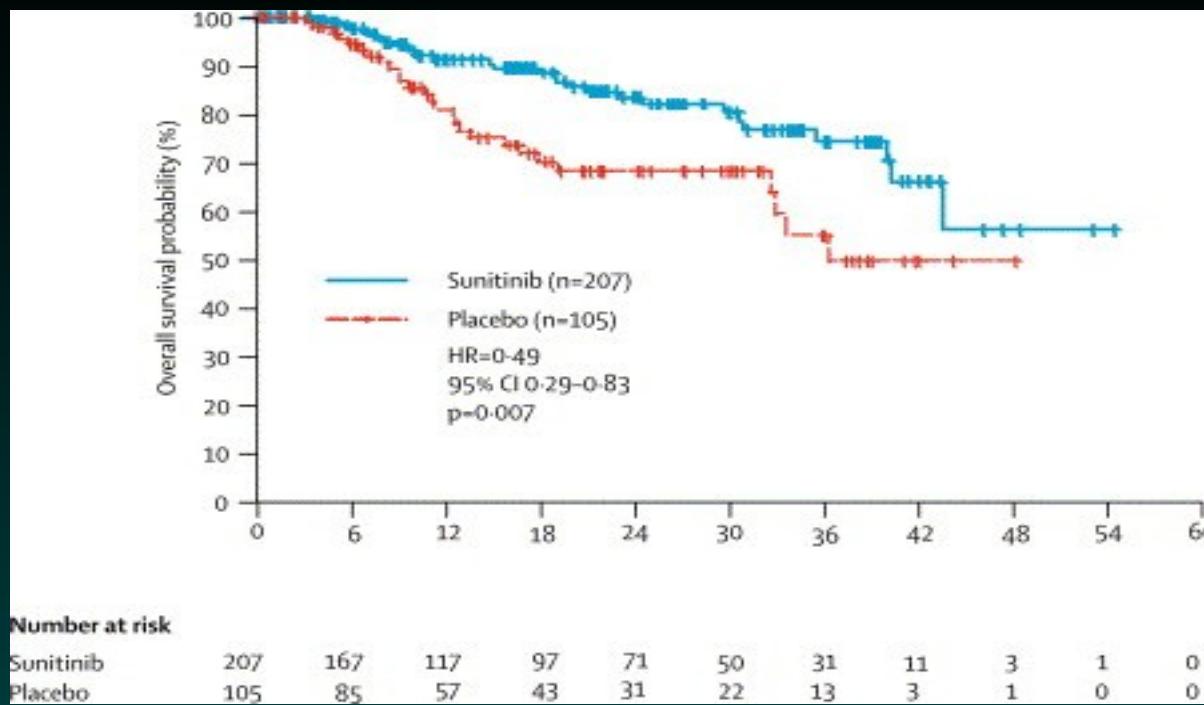


Figure 4 Kaplan-Meier estimates of overall survival. Results represent central radiology assessment of ITT population and include open-label treatment subsequent to crossover after progression.

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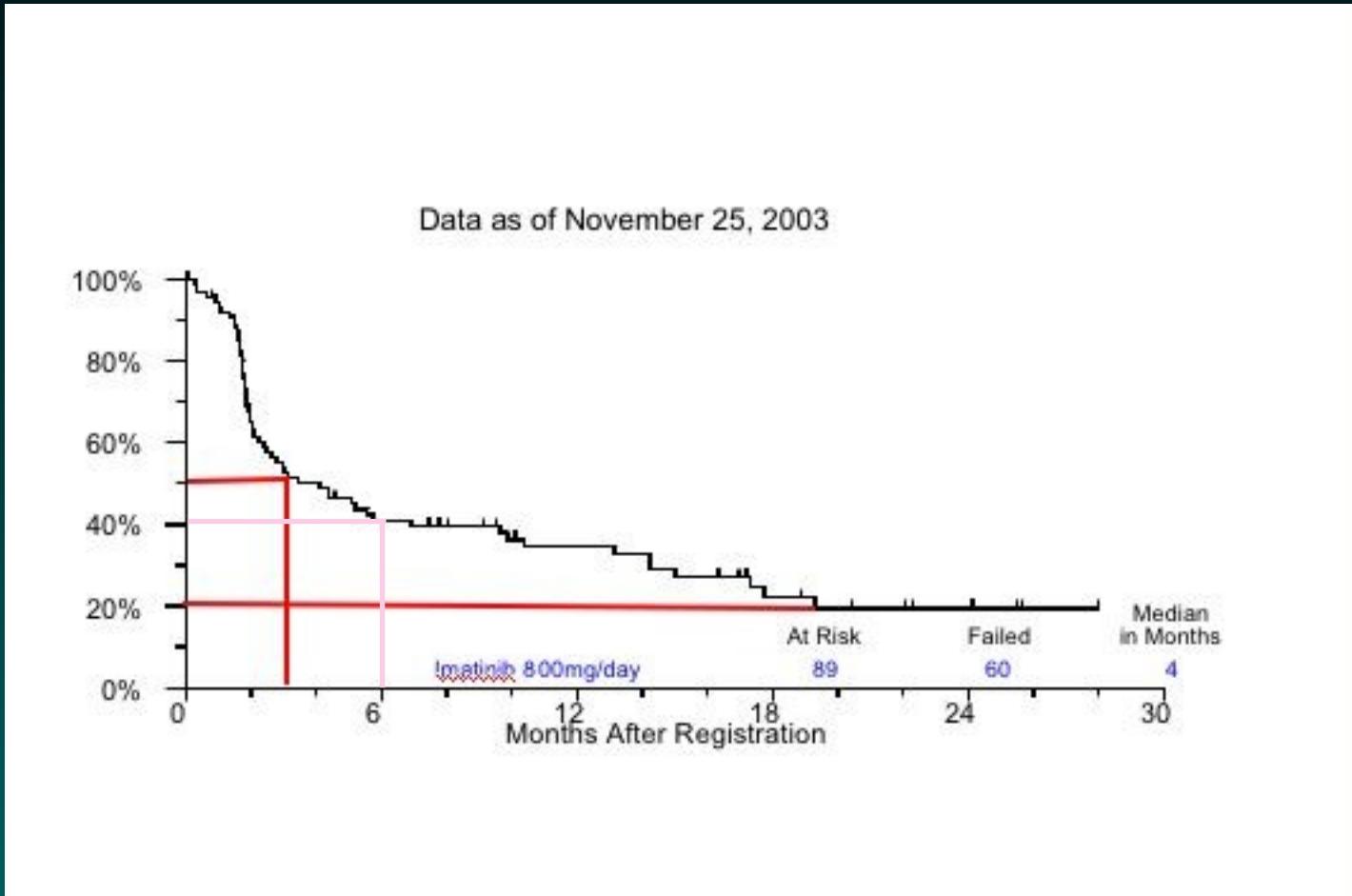
[http://dx.doi.org/10.1016/S0140-6736\(06\)69446-4](http://dx.doi.org/10.1016/S0140-6736(06)69446-4)

EORTC 1st Line Chemotherapy: Active Single Agents or Combinations



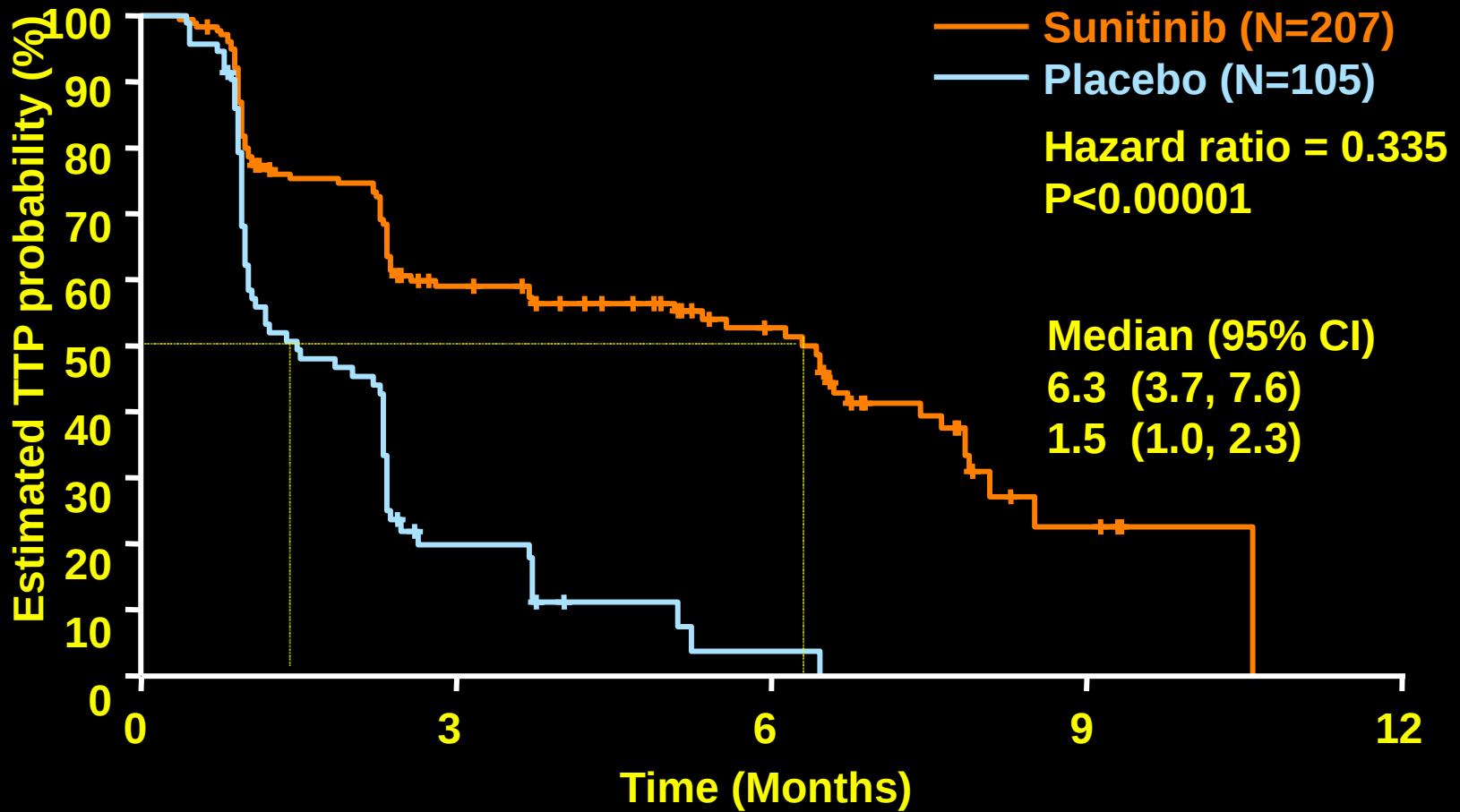


Phase III Trial: US Intergroup S0033: Time to Progression on Crossover



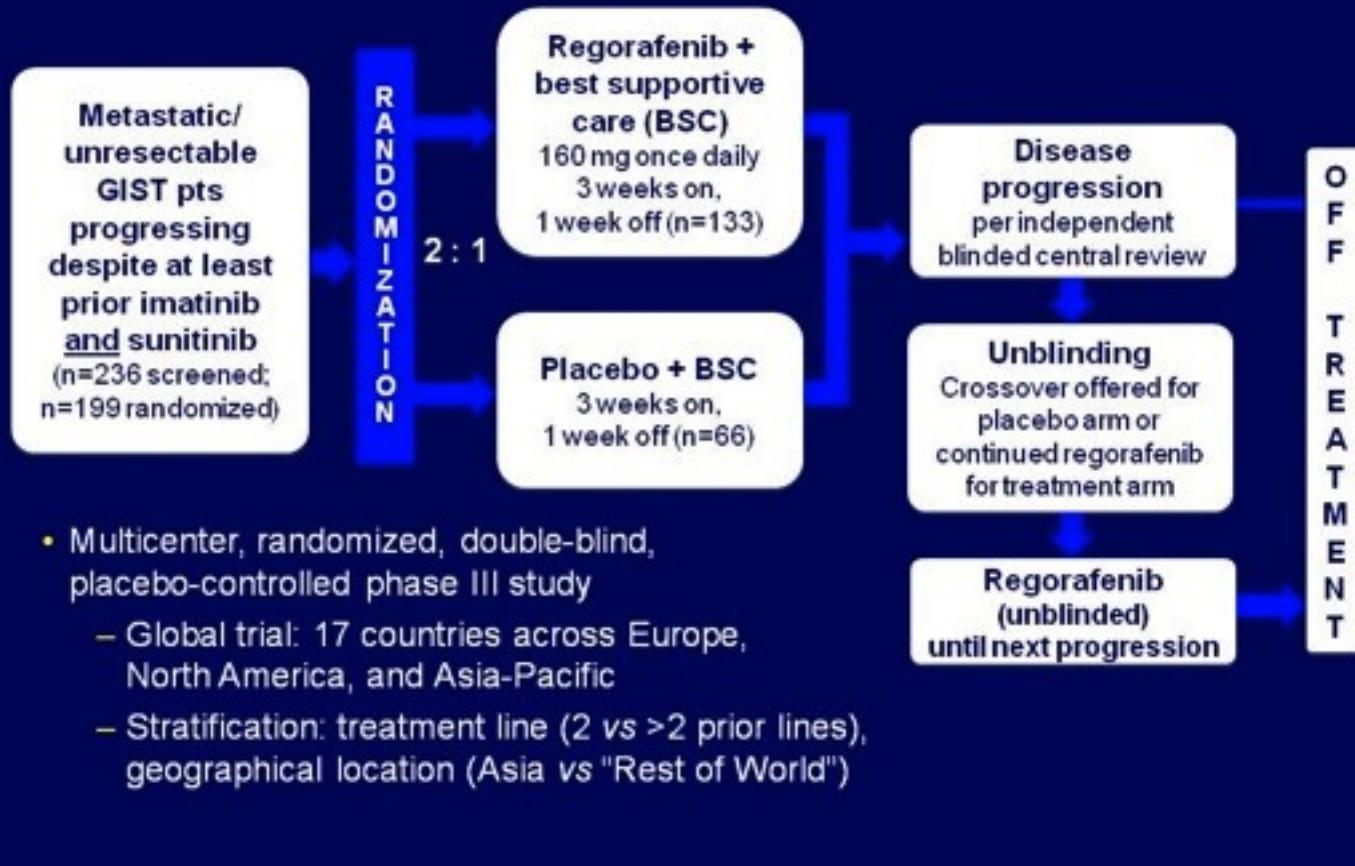


Time to Tumor Progression





GIST – Regorafenib In Progressive Disease (GRID): Study Design



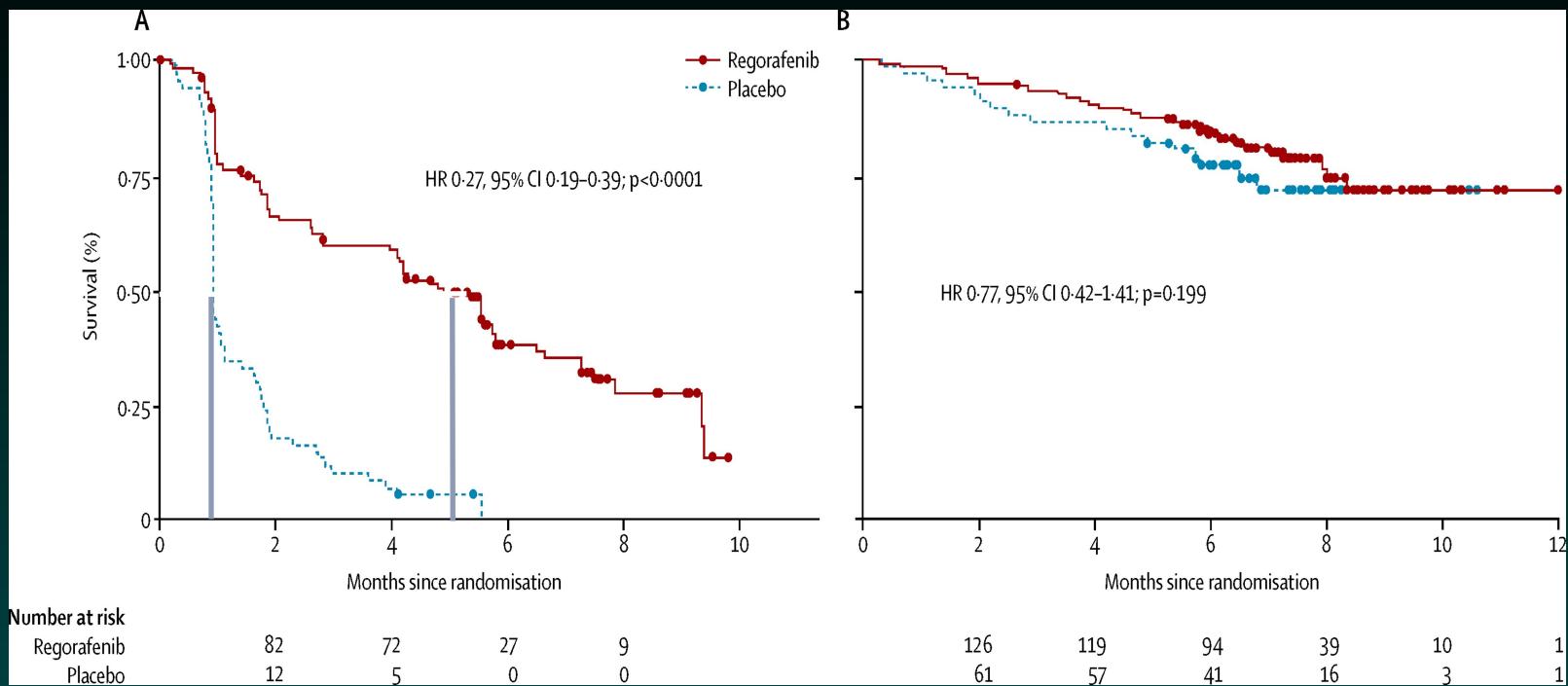


Figure 2 Kaplan-Meier survival analysis after treatment with regorafenib or placebo (A) Progression-free survival, per central review (primary endpoint, final analysis). (B) Overall survival (interim analysis). HR=hazard ratio.

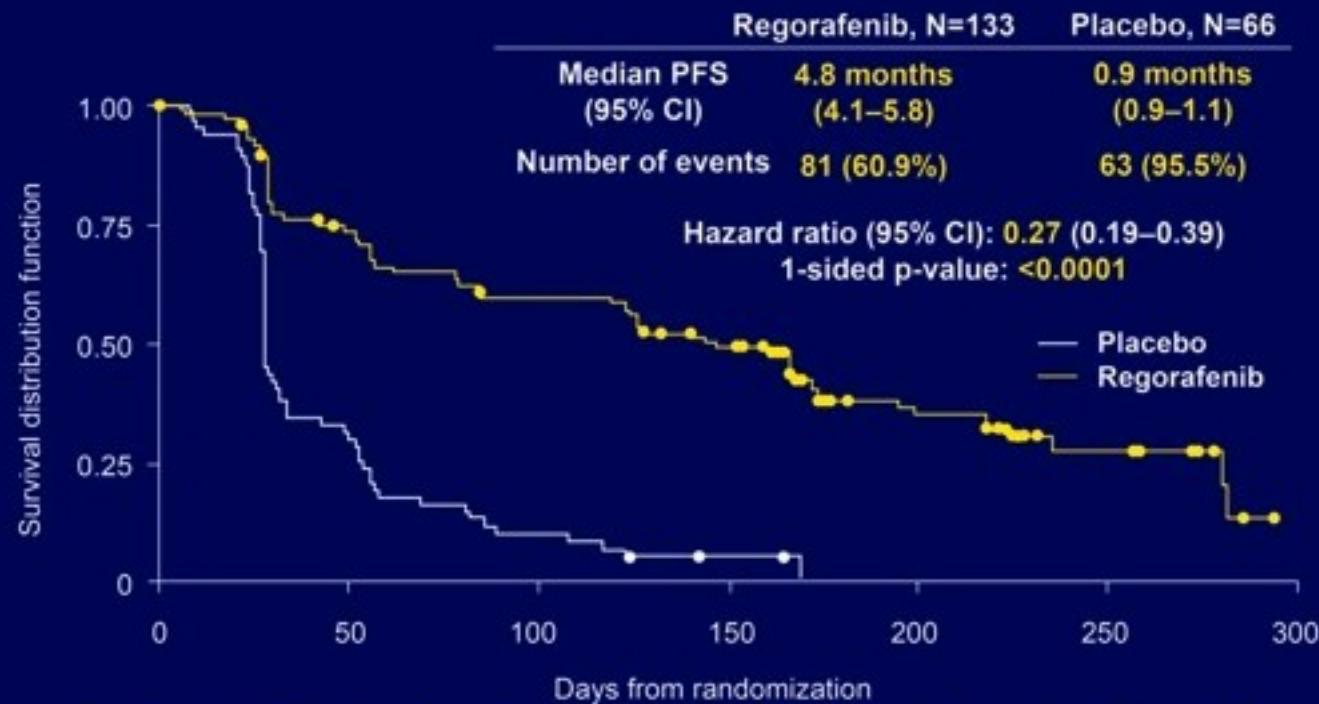
George D Demetri , Peter Reichardt , Yoon-Koo Kang , Jean-Yves Blay , Piotr Rutkowski , Hans Gelderblom , Peter H...

Efficacy and safety of regorafenib for advanced gastrointestinal stromal tumours after failure of imatinib and sunitinib (GRID): an international, multicentre, randomised, placebo-controlled, phase 3 trial

The Lancet Volume 381, Issue 9863 2013 295 - 302



GRID Study: Progression-Free Survival (primary endpoint per blinded central review)



**Regorafenib significantly improved PFS vs placebo ($p<0.0001$);
primary endpoint met**



RIGHT Trial

Study Design: RIGHT

(Rechallenge of Imatinib in GIST Having no effective Treatment)

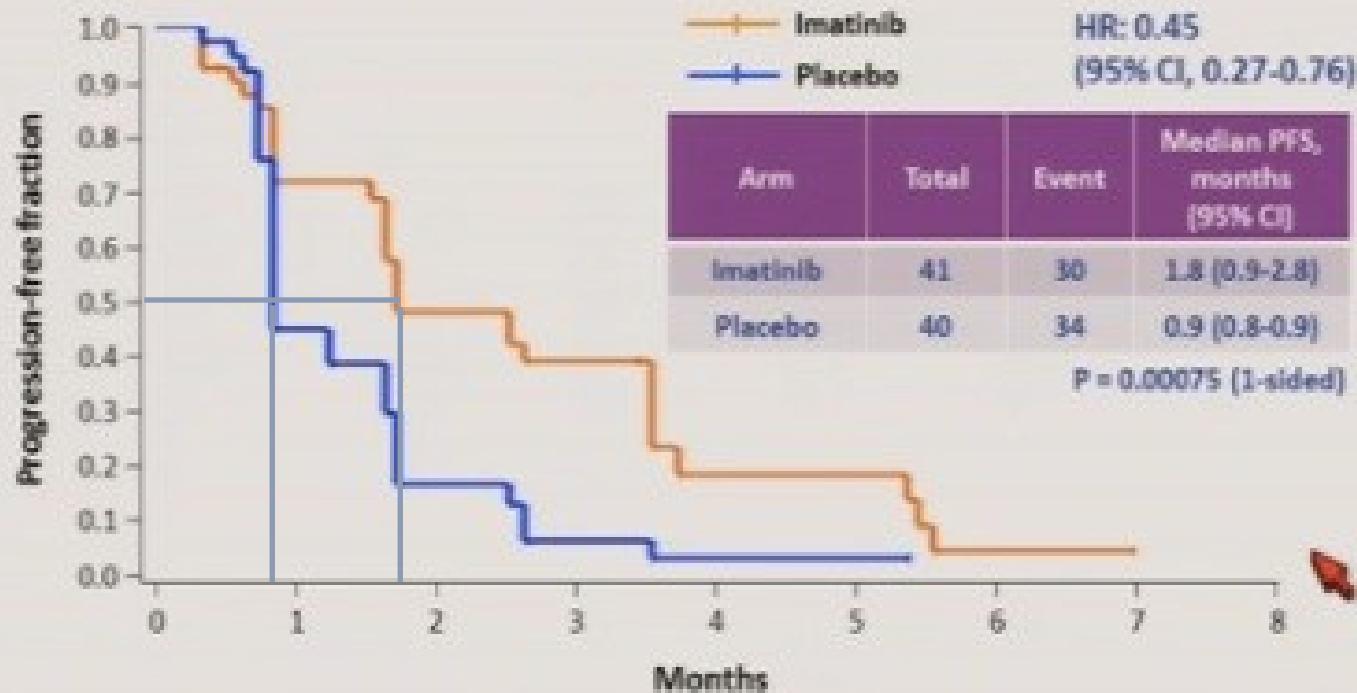
Patients with 1) Prior clinical benefit from 1st-line imatinib,
and 2) Progression with both 1st-line imatinib and 2nd-line
sunitinib, (Prior use of 3rd-line TKI is permitted)





RIGHT Trial

Progression-Free Survival (Primary endpoint per blinded external review)





RIGHT Trial

Overall Survival

