

# F1-F2 PATIENTS: TREAT OR WAIT TREAT!

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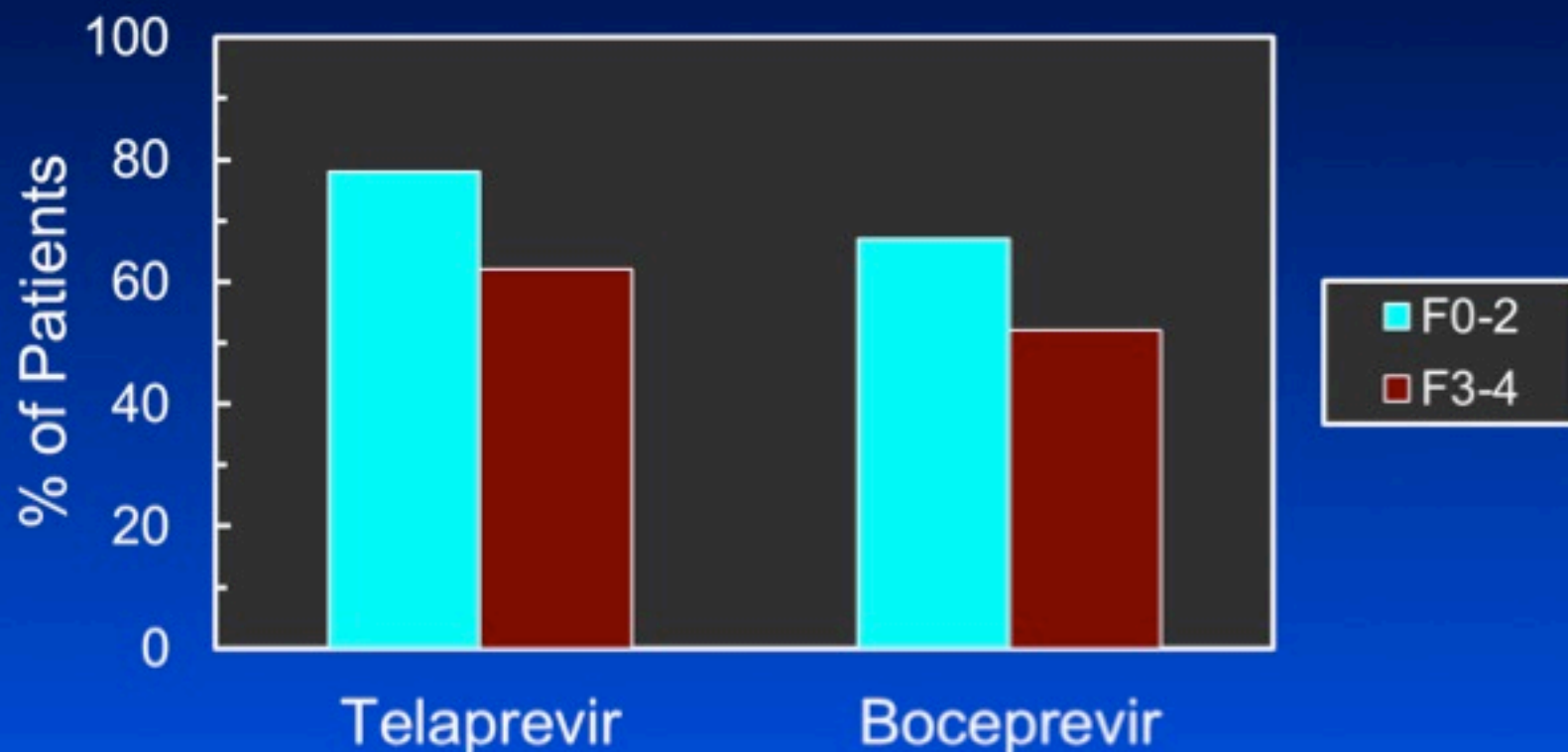
# TELAPREVIR AND BOCEPREVIR EXCELLENT SVR RATES NOW

	Boceprevir	Telaprevir
Treatment Naïve:		
eRVR	96%	89-92%
Delayed response	66-75%	64%
% with eRVR	56%	58-60%
Retreatment:		
Relapse	69-75%	84-88%
Partial response	40-52%	56-61%
Null response	NA	31-33%
INF sensitive (lead-in)	73-79%	NA
INF insensitive (lead-in)	33-34%	NA

ML Shiffman, R Estaban  
Liver Intl 2012; 32 (suppl 1):54-60.



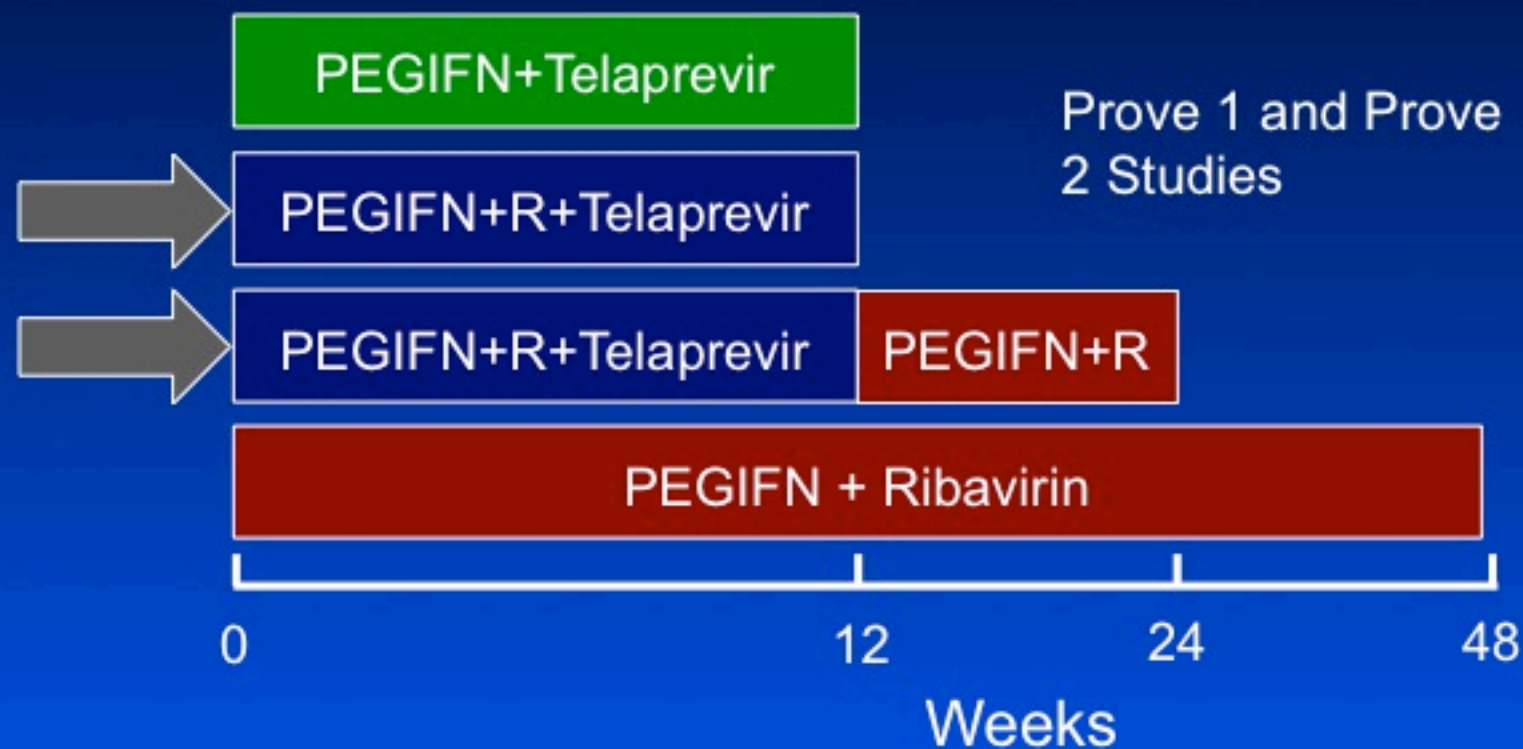
# MILD FIBROSIS EVEN BETTER SVR RATES NOW



F Poordad et al. N Engl J Med 2011; 364:1195-1206.  
IM Jacobson et al. N Engl J Med 2011; 364:2405-2416.



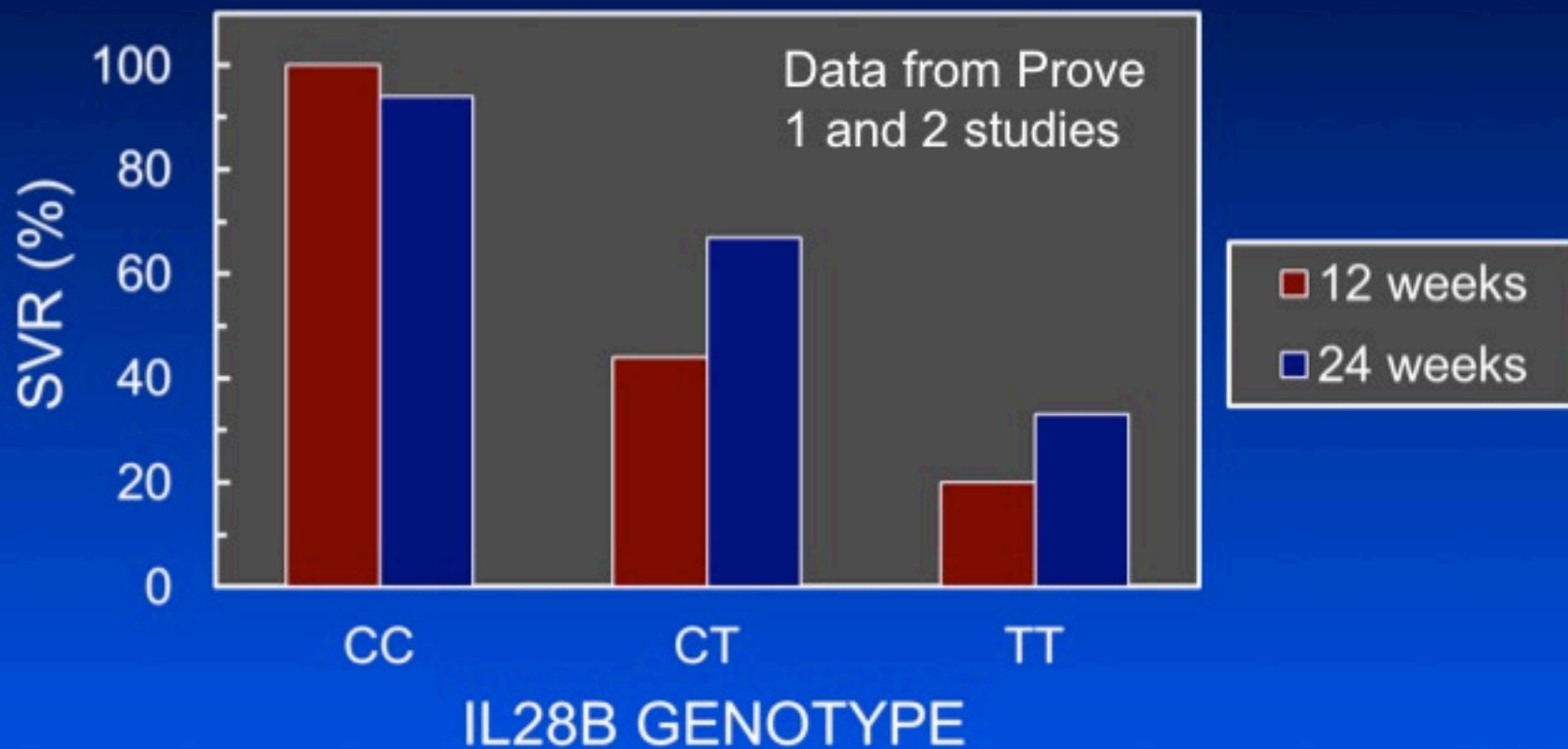
# IL28B GENOTYPE CC ONLY 12 WEEKS OF TREATMENT



JM McHutchison et al. N Engl J Med 2009; 360; 1827-1838.  
C Hezode et al. N Eng J Med 2009; 360:1839-1850.



# IL28B GENOTYPE CC SUPERIOR SVR NOW



# LIMITATIONS OF CURRENT TREATMENT

## SIDE EFFECTS

	Telaprevir	Boceprevir
Anemia	19%	22%
Nausea	41%	45%
Vomiting	13%	17%
Diarrhea	30%	25%
Dysgusea	10%	39%
Pruritus	47%	NR
Rash	56%	18%
Anorectal Symptoms	11%	<5%

F Poordad et al. N Engl J Med 2011; 364:1195-1206.

IM Jacobson et al. N Engl J Med 2011; 364:2405-2416.



# PEGINTERFERON AND RIBAVIRIN SIDE EFFECTS

Peginterferon	Ribavirin
Flu-like symptoms	Hemolysis
Bone Marrow Suppression	Rash
Stimulation of autoimmune diseases	Cough
Neurologic injury	Nausea

- It is the side effects of peginterferon which dictate the side effects of HCV therapy
- That is why we are trying to replace peginterferon

# PATIENTS WITH ADVANCED FIBROSIS EVEN MORE SIDE EFFECTS

	Telaprevir	Boceprevir
SAE	49%	38%
Premature DC	26%	24%
Infections	26%	24%
Death	2%	1.3%
Hepatic decompensation	4.4%	4.4%
Anemia <8.0 gm/dl	10%	10%
EPO use	57%	66%



# WHY DEFER THERAPY?

## WHO SHOULD DEFER THERAPY?

- The rationale to defer therapy is because better therapy will soon be available
- However:
  - Will therapy really be “better” for patients with HCV genotype 1 or just more convenient
  - How long will we make our patients wait for this “better” therapy
  - Will this “better” therapy be affordable to the majority of patients who are waiting for treatment
  - What are the consequences of doing nothing



# SOON TO BE AVAILABLE: 2013

## “BETTER” OR JUST CONVENIENT

- Genotype 1
  - Simeprevir
  - Faldaprevir
  - Sofosbuvir

Will likely be available by 2010  
Will be utilized with  
Peginterferon and Ribavirin  
Better, or just more convenient
- Genotypes 2 and 3
  - Sofosbuvir
  - Ribavirin

Interferon free  
But will SVR in a large  
homogenous cohort be better  
or just more convenient

# INTERFERON FREE FOR GT1

## “BETTER” OR JUST CONVENIENT

Company	Drugs	SVR
Abbott	ABT-245/Ritonovir ABT-267 ABT-333 + Ribavirin	Better or Similar to the current SOC?
BI	Faldaprevir BI202127BI Ribavirin	
Gilead	Sofosbuvir GS5855 + Ribavirin	



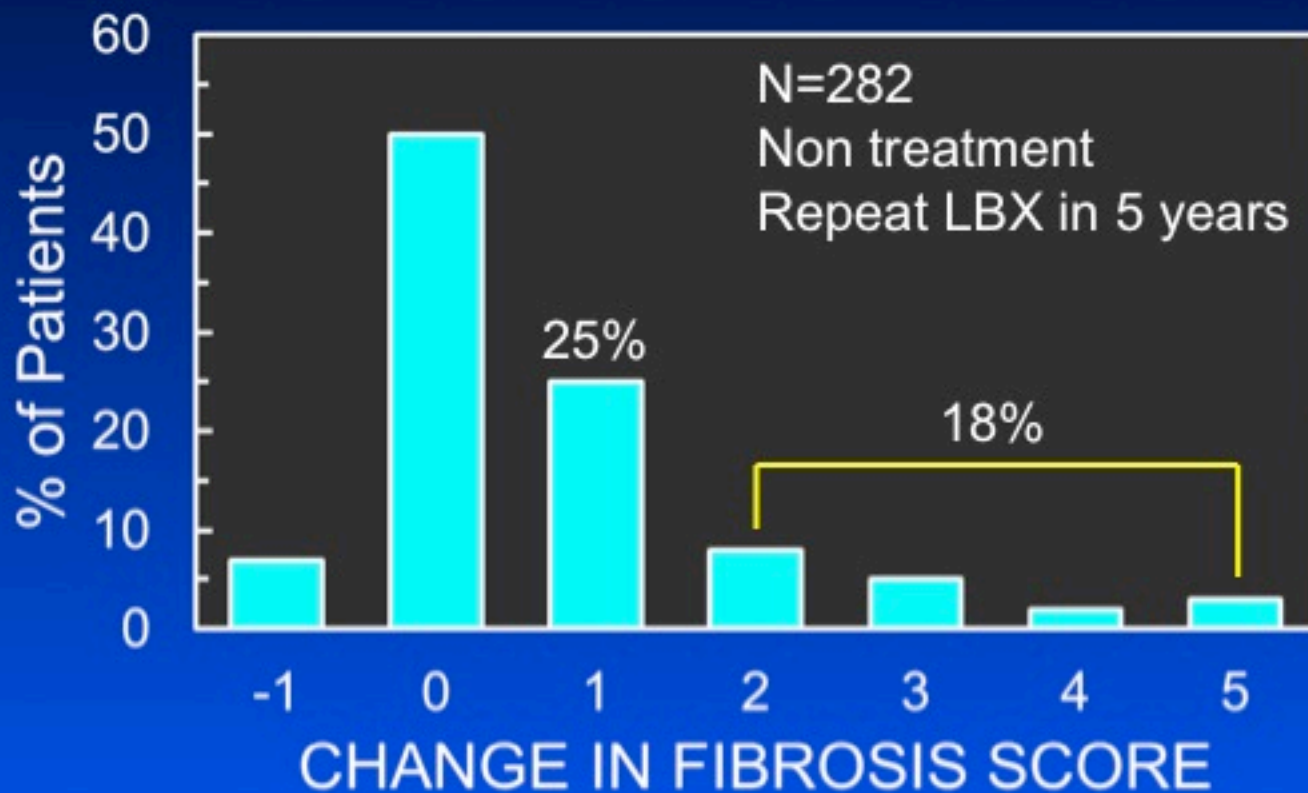
# INTERFERON FREE THERAPY “BETTER” ALWAYS COSTS MORE

Will all patients get  
convenience, comfort and a  
speedy treatment.  
Who will pay for it?

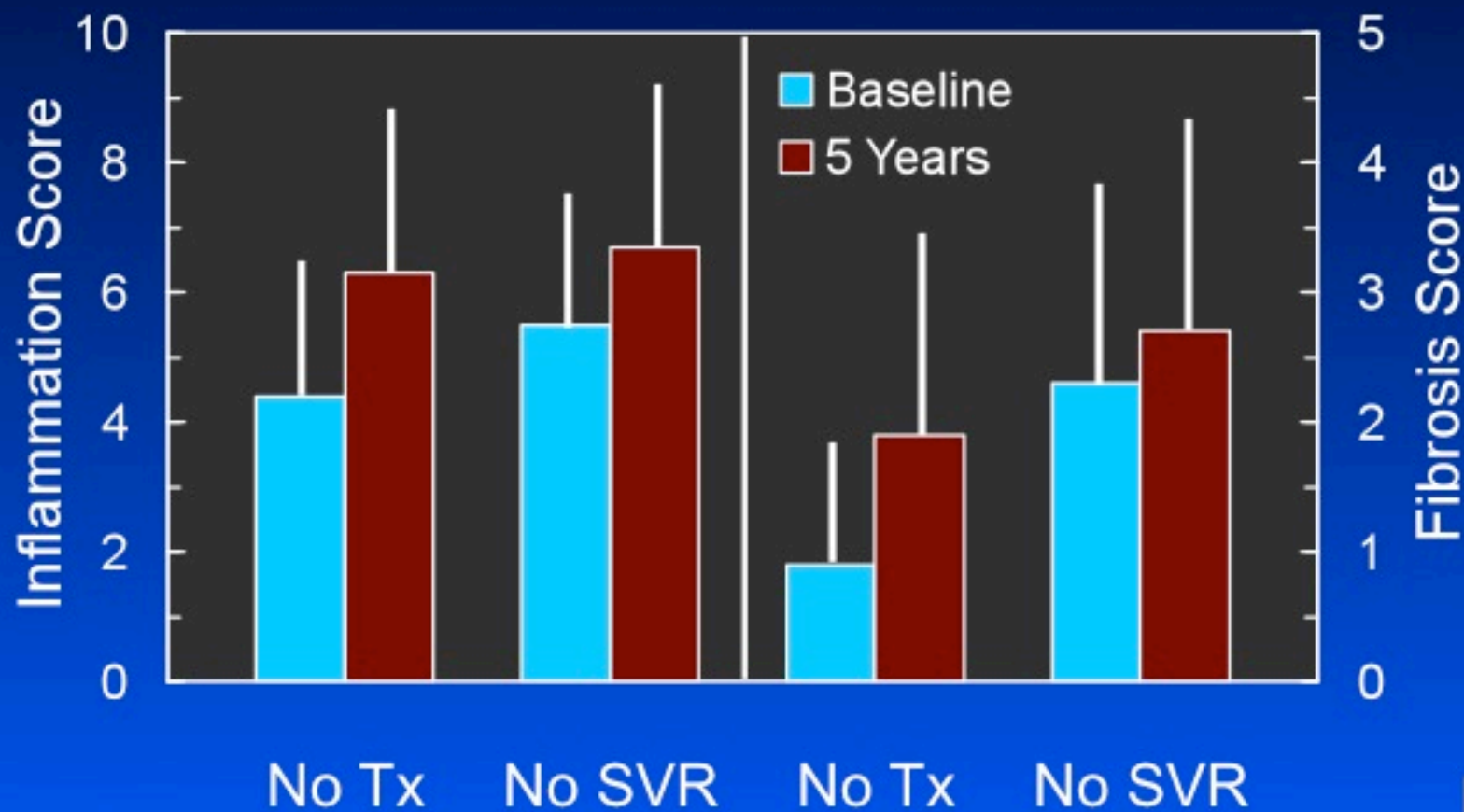
Or  
Given comparable cure rates  
will patients get what they or  
the “system” can afford?



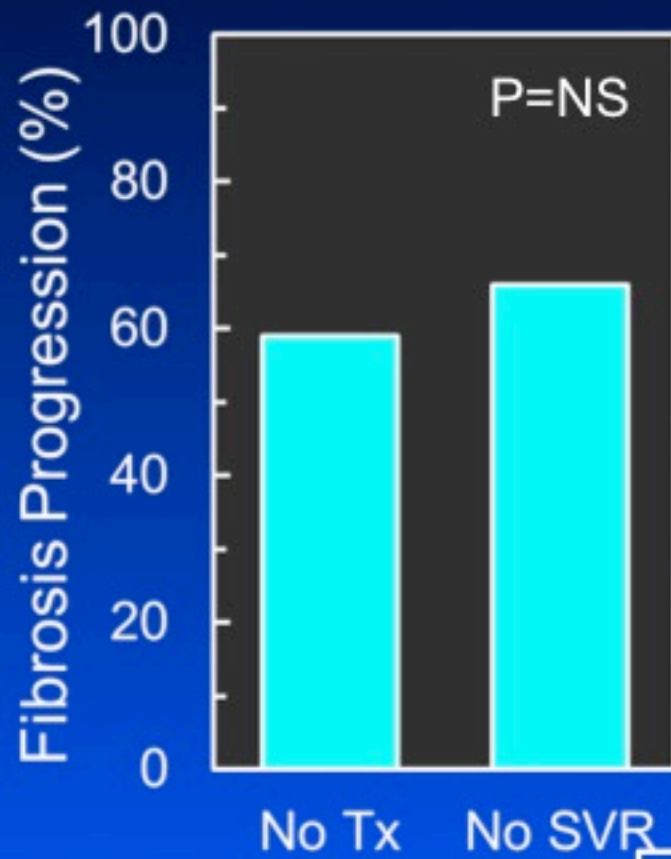
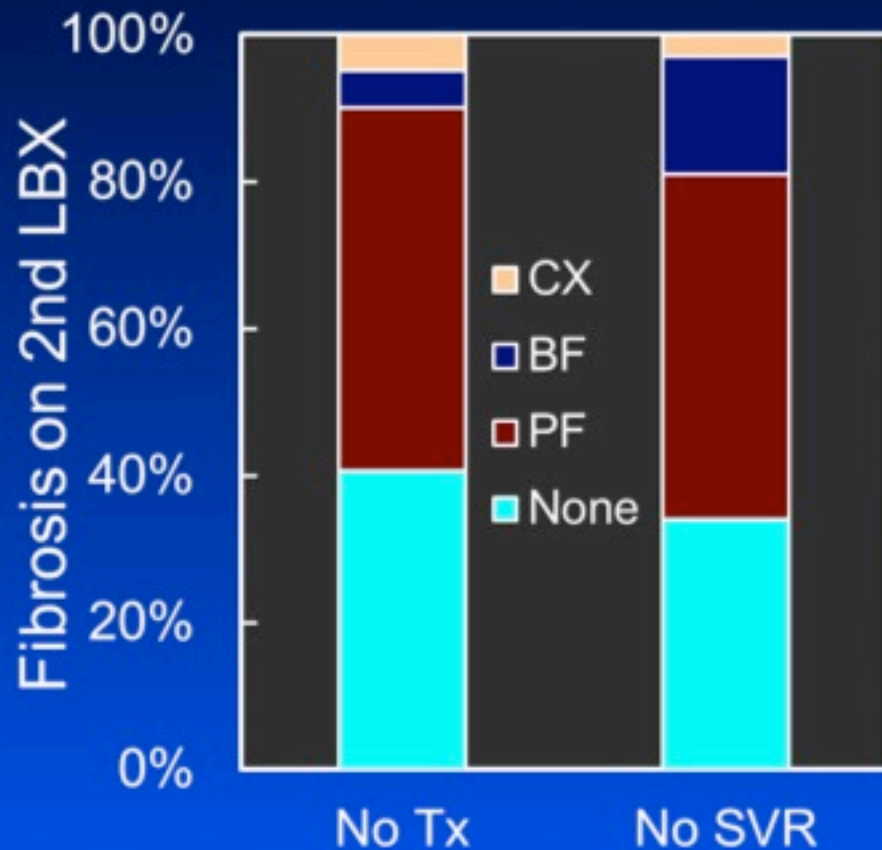
# THE CONSEQUENCES OF WAITING FIBROSIS PROGRESSION



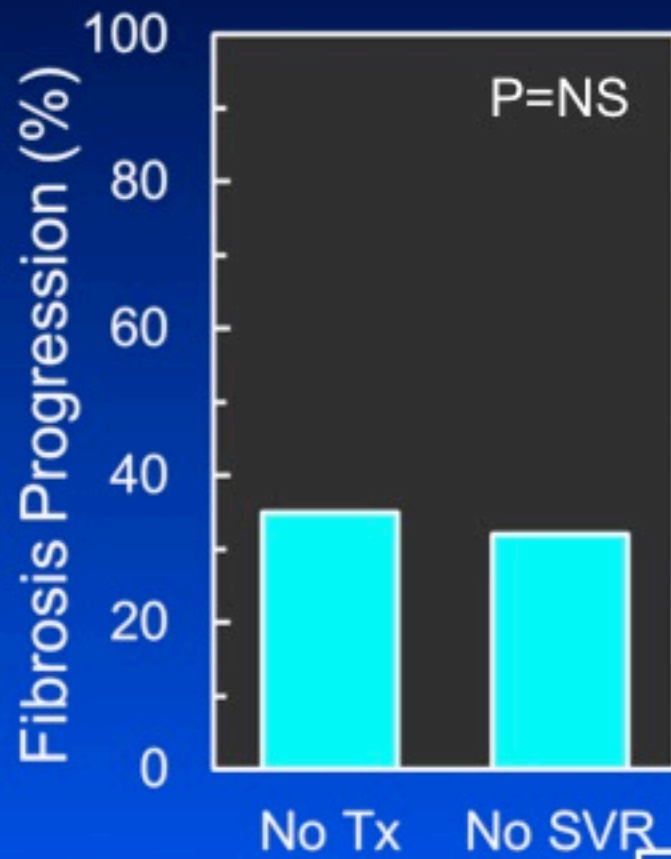
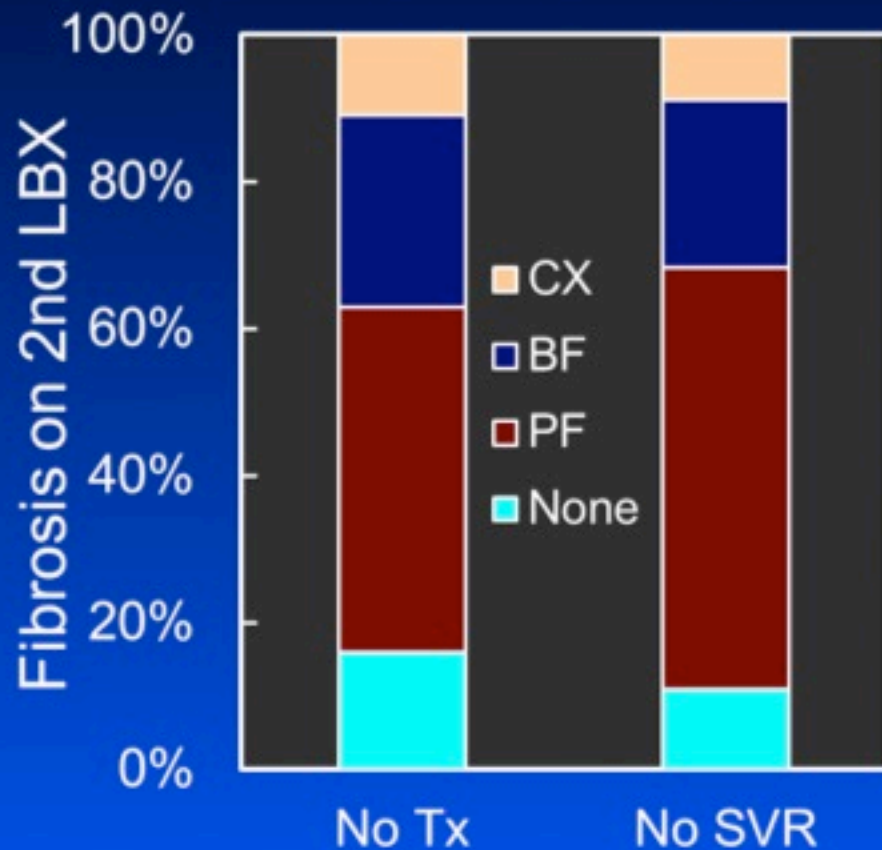
# THE CONSEQUENCES OF WAITING FIBROSIS PROGRESSION



# FIBROSIS PROGRESSION NO FIBROSIS AT BASELINE



# FIBROSIS PROGRESSION PORTAL FIBROSIS AT BASELINE





# F1 AND F2 FIBROSIS THE BENHAMOU APPROACH

I am ignoring my patients with mild fibrosis until they progress have advanced fibrosis and really need HCV treatment.



# WHO TO TREAT NOW

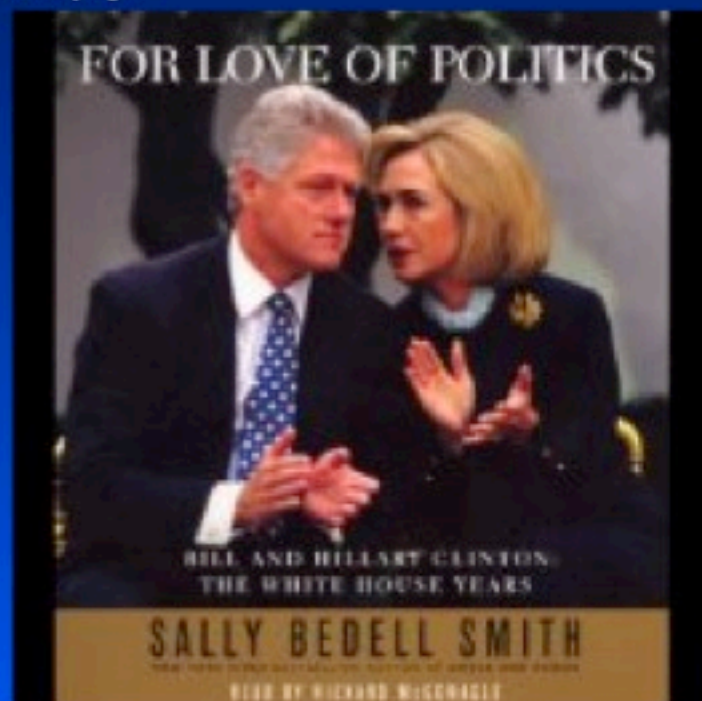
## THOSE WE CAN CURE EASILY

- Patients with mild disease (F1-F2)
- IL28B genotype CC
  - These patients are VERY UNLIKELY to have higher cure rates with future therapies
- Patients with extrahepatic manifestations
  - Cryoglobulinemia
  - PCT
  - Lichen Planus
- A patient that is “cured” today is one less patient we need to worry about tomorrow



# TREAT F1 AND F2 NOW INTERFERON IS TOLERABLE

- The vast majority of patients with “mild” fibrosis do tolerate interferon based therapy.
- They may want and think there is something better.
- But,
- Most find a way to tolerate what they have.
- Especially if it works for them.



# TREAT F1 AND F2 NOW

## SUMMARY

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The treatment of F1 and F2 can be quite a dilemma

The SVR is better than ever

But treatment means symptoms of flu

Anemia, a bad taste and a rash too.

So what do we do.



# TREAT F1 AND F2 NOW

## SUMMARY

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New choices for G1 should be available this year

With names like simiprevir, faldaprevir and sofosbuvir

But is this really better

The answer is not clear

For peginterferon will still be hear

And this will still cause our patients to fear



# TREAT F1 AND F2 NOW SUMMARY

The future of treatment for HCV

Is multiple agents that are interferon free

For patients with genotypes 2 and 3

This may here as soon as 201 and three

For all the rest it's still just

Wait and see

But what cost will this treatment be

And how will this cost be passed on to you and me



# TREAT F1 AND F2 NOW SUMMARY

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So my advise to patients with a mild fate  
Is to treat now and don't wait  
Because I do not want my patients to be left at the gait  
One day wondering why it is now too late

My friend has a different approach to F1 and F2  
He would rather wait, than do  
So when things have progressed  
And my patients cry boo hoo  
I'll just blame it all on Yves Benhamou

