

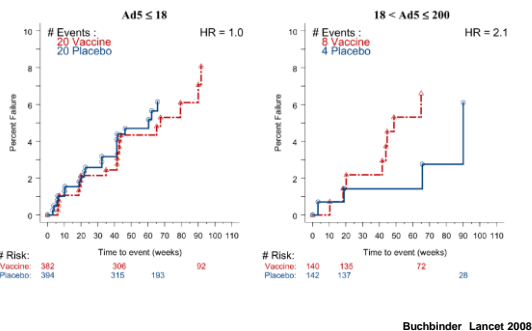
“There are dozens of HIV vaccine trials and only one HCV vaccine trial. If this one does not work, it is unlikely there will be another”

Professor Kim Page
Kirby Institute Seminar Series, September 2014

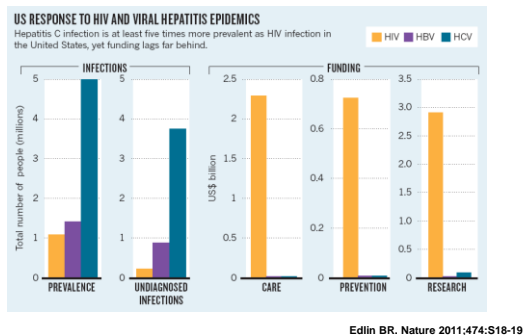
HCV vaccine development

- No funds
- Current HCV vaccine trial has got “Buckley’s”!
- No prospects of success in next 10 years
- No interest in at-risk populations
- No inclusion in immunisation schedule

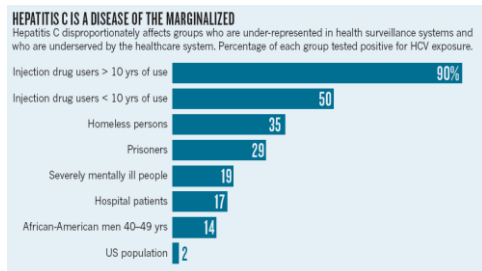
HIV vaccine increases risk of infection



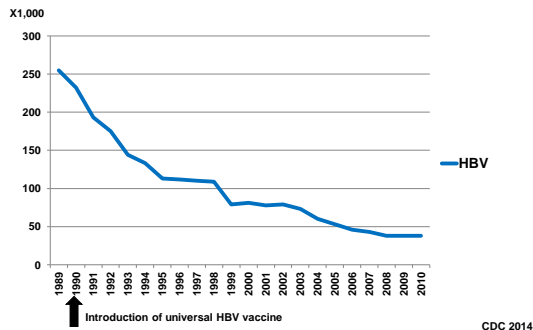
HCV research funding in U.S.



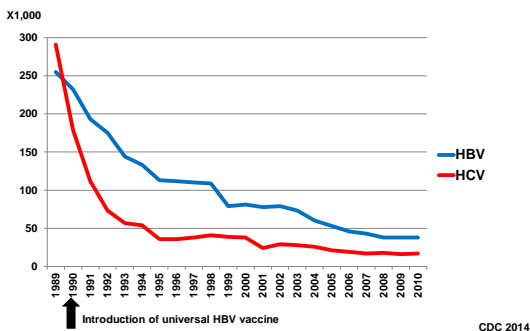
Does anyone care about those at risk?



Incidence of HBV and HCV in U.S.



Incidence of HBV and HCV in U.S.



HCV therapeutic development

- Vast funds
- Enormous interest
- Low-middle income country access
- “Perfectovir” in next 5 years

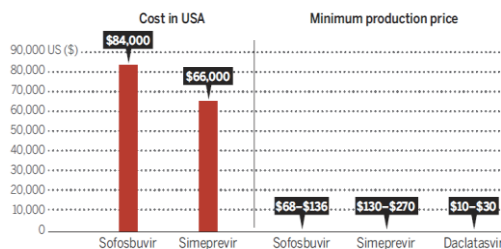


HCV therapeutic development: GT1

	Protease inhibitor	Nucleotide analogue	Non-nucleoside analogue	NS5A inhibitor	Other	Duration	Total tablets/dosing	Phase
Gilead		Sofosbuvir		Ledipasvir		8-12 wks	1 daily	FDA
Abbvie	ABT-450/r		Dasabavir	Ombitasvir	+/- Ribavirin	12 wks	2-4 bd	FDA
BMS	Asunaprevir		BMS-791325	Daclatasvir		12 wks	2 bd	III
Merck	MK-5172			MK-8742		12 wks	1 daily	III
BMS*		Sofosbuvir		Daclatasvir		8-12 wks	2 daily	III
Gilead*		Sofosbuvir		GS-5816		8-12 wks	1 daily	III
BMS	Asunaprevir	Sofosbuvir	BMS-791325	Daclatasvir		4 wks	3 bd	II
Abbvie*	ABT-493			ABT-530	+/- Ribavirin	8-12 wks	2-8 daily-bd	II
Abbvie*	ABT-493	Sofosbuvir		ABT-530		6 wks	3 daily	II
Merck*	MK-5172	MK-3882		MK-8742 or MK-8408		4-6 wks	3 daily	II

* Under evaluation as pangenotypic regimens

HCV DAA therapy: drug pricing (12 wks)



Hill A & Cooke G. Science 2014;345:141-142

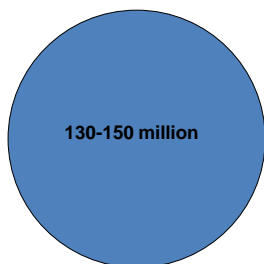
Gilead: Return on Investment



We don't need a HCV vaccine, we just need a good epidemiologist

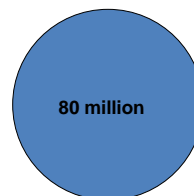
Chronic HCV: global prevalence

WHO 2013



Chronic HCV: global prevalence

CDA 2014



Razavi H et al. J Hepatology 2014 (in press)

Why would you want to replace highly curative, short duration, **safe** HCV treatment (perfectovir) with **dodgy** vaccines

Vaccine Dangers: They Contain Mercury



Vaccine Dangers: They Scare Our Kids



Vaccine Dangers: They Threaten Our Family

