

# Geisinger

Optimizing Hepatitis C Treatment: Hepatitis C Center of Excellence

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### **CarePath Road Map**

• Who has the condition to treat? • What is the right thing to do? CLINICAL • Putting the clinical pathway in to action • How did we perform? OUTCOMES FEEDBACK • Where should we improve?



### **Hep C: Proven Care Backbone**

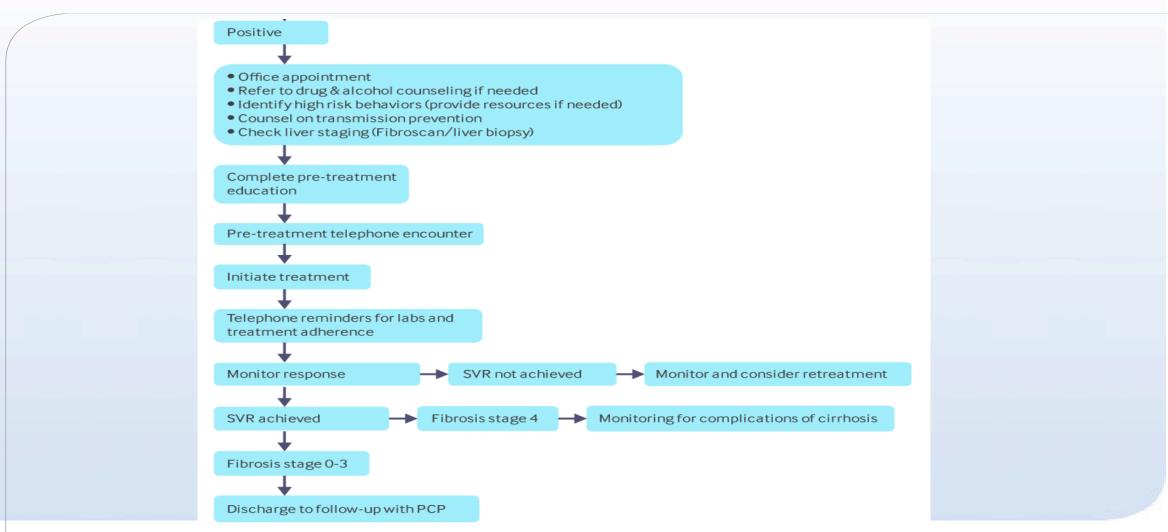
#### Program

- Clinical efficacy is the key driver
- Monitor cost, eliminate waste
- Increased adherence
- Site of care
- Matching genomic attributes to prescribing & outcomes
- Aligning benefits with clinical decisions/efficacy

- Contracting
  - Formulary alignment
- Development of multidisciplinary team
- CarePath development
- Education



#### Hep C: Putting the clinical pathway in to action





## Hep C: How did we perform?

Earliest Possible SVR Date	Known SVR Achieved	MRN	Birth Date	Sex	Ghs Pcp	Genotype	Fibrosis Stage	Coinfections	REGEMIN	İ	Hepatologγ Visits	Latest Viral Load Date	Latest Viral Load Result
5/29/2017	1	_	12/23/1981	F	1	Genotype 1a	F2	HCV Only	ZEPATIER	12 WEEKS	1	6/27/2017	NEGATIVE
			5/27/1962	M	1	Genotype 1a	F4	HCV+HIV	HARVONI	12 WEEKS	1	6/20/2017	NEGATIVE
			3/21/1990	M	1	Genotype 1a	F0	HCV Only	ZEPATIER	12 WEEKS	1	6/21/2017	NEGATIVE
			5/19/1958	F	1	Genotype 1a	F2	HCV Only	ZEPATIER	12 WEEKS	5	6/23/2017	NEGATIVE
5/25/2017		GHS MRNs	4/8/1967	F	1	Genotype 3	F4	HCV Only	EPCLUSA	12 WEEKS	3	6/22/2017	NEGATIVE
		Redacted	7/29/1963	M	1	Genotype 1a	F3	HCV Only	HARVONI	12 WEEKS	1	6/16/2017	NEGATIVE
5/22/2017	0		12/17/1981	M	1	Genotype 1a	F4	HCV Only	HARVONI	12 WEEKS	2	5/5/2017	NEGATIVE
			1/8/1961	M	0	Genotype 1a	NO RESUL	HCV Only	HARVONI	12 WEEKS	5	Null	Null
			3/9/1982	F	1	Genotype 1a	F0	HCV Only	ZEPATIER+RIBA	AVIRIN	1	6/15/2017	190742
	1		2/4/1958	M	0	Cenotype 1a	NO RESUL	HCV Only	HARVONI	12 WEEKS	1	6/13/2017	NEGATIVE
			11/12/1956	F	1	Genetype 1a	F2	HCV Only	ZEPATIER	12 WEEKS	2	6/21/2017	NEGATIVE
5/19/2017	1		1/2/1967	F	0	Genotype 1a	F1	HCV Only	ZEPATIER	12 WEEKS	1	6/1/2017	NEGATIVE
			12/9/1966	M	1.	Genotype 19	F0	HCV Only	ZEPATIER	12 WEEKS	1	6/21/2017	NEGATIVE

MRN (hep c).	Diagnosis C	Dx Name	Problem Cmt	Problem Cmt						
	B18.2	Chronic hepatitis C wit	hout he HCV treated; \$	HCV treated; SVR confirmed 6/26/2017						
EVENTS DETAIL										
MRN (hep c tx svr detail)	Day of Event Date	Event Type	Simple Generic	Day of Start Date	Day of End Date	Viral Load				
	3/3/2016	VIRAL LOAD				548560				
	6/1/2016	VIRAL LOAD				594216				
	10/26/2016	VIRAL LOAD				248831				
	11/22/2016	EPIC MED ORDER	Elbasvir-Grazoprevir	11/22/2016	3/27/2017					
	12/5/2016	GHP ORDER FILL	Elbasvir-Grazoprevir							
	1/9/2017	GHP ORDER FILL	Elbasvir-Grazoprevir							
	1/25/2017	VIRAL LOAD				NEGATIVE				
	2/6/2017	GHP ORDER FILL	Elbasvir-Grazoprevir							
	3/29/2017	VIRAL LOAD				NEGATIVE				
	6/27/2017	VIRAL LOAD				NEGATIVE				



#### Hep C: How did we perform?

- SVR rates GHP/GHS COE: 98.5%
- SVR national comparison rates: 85%-90%
- SVR rate for GHP/nonGHS: manually collated data due to low recoverable results
- QA/QI process monitors physician compliance of Care Path
- Dashboard
- The large volume of cases within the COE has allowed us to determine/tailor:
  - The optimal drugs for treatment
  - The optimal duration of treatment

SVR = Sustained Virologic Response aka "cure"



### Hep C: Where should we improve?

- As new/better agents have come to market, we've adjusted the Carepath
- This has resulted in improvements to cost and even better effectiveness in terms of SVR rates and the utility of the agents across genotypes
- Harvoni -> Zepatier -> Mavyret
  - Versatility across genotypes
  - Does not require NS5A resistance testing

#### Hep C: Where should we improve?

- HCV NAT positive kidney & liver transplantation
- 2014 annual report from the Scientific Registry of Transplant Recipients, newly listed liver transplant patients increased by 11%, while the number of transplants only increased by 4.4%
  - HCV positive kidneys/livers are otherwise under-utilized donor pools that have the potential to significantly impact survival in well selected candidates
- Program started October 2018
  - 2018: 3 kidney transplants & 1 liver transplant
  - 2019 (to date): 13 kidney transplants & 3 liver transplants



#### **Hep C Lessons Learned**

A collaborative approach brings higher value

- Patients receive higher quality care
- The total cost of care is decreased
- The goal is to provide this level of care to all Geisinger patients
  - Scale Center of Excellence by adding capacity and sites
  - Design benefits to drive members to Center of Excellence



# Geisinger

### Thank you!

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