10th Paris Hepatology Conference
Two Programs of HCV Eradication: Follow-up of the
Georgian and Egyptian programs
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National Hepatitis C Elimination Program of Georgia

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HCV Epidemiology in Georgia

HCV in General Population 2015 National Survey

HCV Genotype Distribution

	%	# Persons
anti-HCV+	7.7%	208 800
HCV RNA+	5.4%	150 300

Note: NS5B and 5'UTR/Core sequencing studies indicate that more than half of HCV genotype 2 patients in Georgia are actually infected with 2k/1b recombinant strain

National Hepatitis C Elimination Program

Launched in April 2015





U.S. CDC significantly contributed to the initiation and implementation of elimination program



Gilead committed to donate DAAs necessary for implementing elimination program

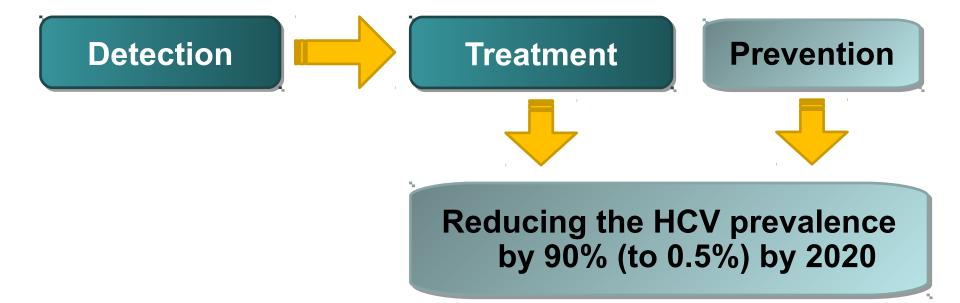




Key Opinion Leader Guidance and Education for Eliminating Hepatitis C in Georgia

The Goal of the National Hepatitis C Elimination Program

Elimination of HCV infection in the country through identifying and treating all hepatitis C patients strengthened by effective prevention interventions



Targets: 90-95-95



How Georgia Differs from Other Countries

Other countries

- No active case finding
- Only those aware of their disease and referring to physicians are treated
- Treatment prioritization

Georgia

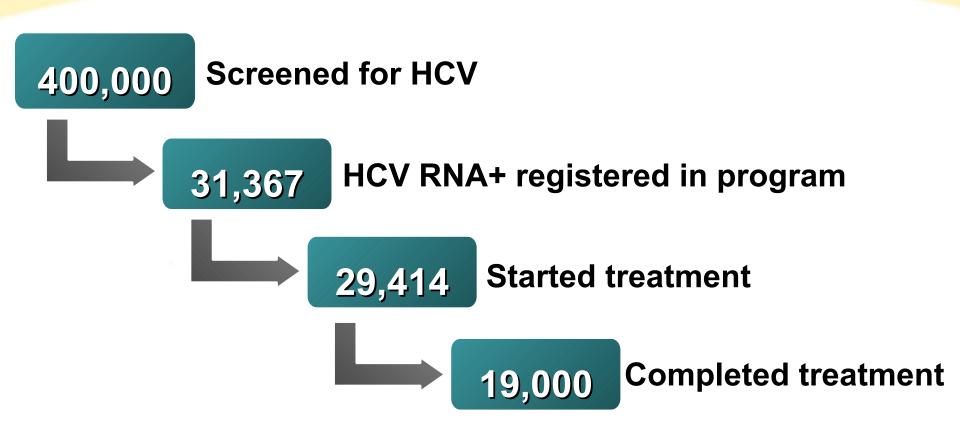
- Active case finding
- Treatment of all patients (including F0 fibrosis)
- Widescale prevention programs

Available DAAs and Treatment Protocols

April 2015 – March 2016	Sofosbuvir (SOF)
	IFN-containing and IFN-free SOF regimens recommended based on various clinical scenarios (genotype, cirrhosis, previous treatment experience)

Since March 2016	Ledipasvir/Sofosbuvir (LDV/SOF)
	LDV/SOF is recommended in all genotypes
	Evidence supporting this recommendation included: -High prevalence of 2k/1b recombinant in Georgia -Results of some trials and observational studies indicating that LDV/SOF could be more effective that SOF alone -EMA approval for cirrhotic and treatment experienced G3 patients

Patient Enrollment in the National Hepatitis C Elimination Program (31 Dec 2016)



Treatment Outcomes of SOF-Based Treatment

Treatment Outcomes in Patients with Complete SVR Data Receiving Sofosbuvir-Based Regimens September 30, 2016 (n=3,966)

	SVR Rate				
	G 1	G2	G3	G4	TOTAL
12 weeks IFN/SOF/RBV	<mark>81%</mark> (711/878)	<mark>96%</mark> (217/227)	<mark>96%</mark> (928/963)	50% (1/2)	90% (1857/2070)
12 weeks SOF/RBV	47% (7/15)	<mark>75%</mark> (240/318)	<mark>69%</mark> (9/13)		74% (256/346)
20 weeks SOF/RBV	25% (2/8)	<mark>75%</mark> (210/281)	<mark>0%</mark> (0/2)		73% (212/291)
24 weeks SOF/RBV	53% (329/621)	<mark>56%</mark> (10/18)	<mark>81%</mark> (426/528)	100% (2/2)	66% (767/1169)
48 weeks SOF/RBV	48% (21/44)	<mark>86%</mark> (18/21)	<mark>64%</mark> (16/25)		<mark>61%</mark> (55/90)
TOTAL	<mark>68%</mark> (1070/1566)	<mark>80%</mark> (695/865)	<mark>90%</mark> (1379/1531)	75% (3/4)	<mark>79%</mark> (3147/3966)

Note: This cohort was represented by patients with F3 and F4 fibrosis

SVR in HCV G2 Patients by Regimen, September 30, 2016 (n=865)

p<0.0001

217/227 240/318 210/281

Impact of 2k/1b Recombinant on Treatment Outcomes (n=136)

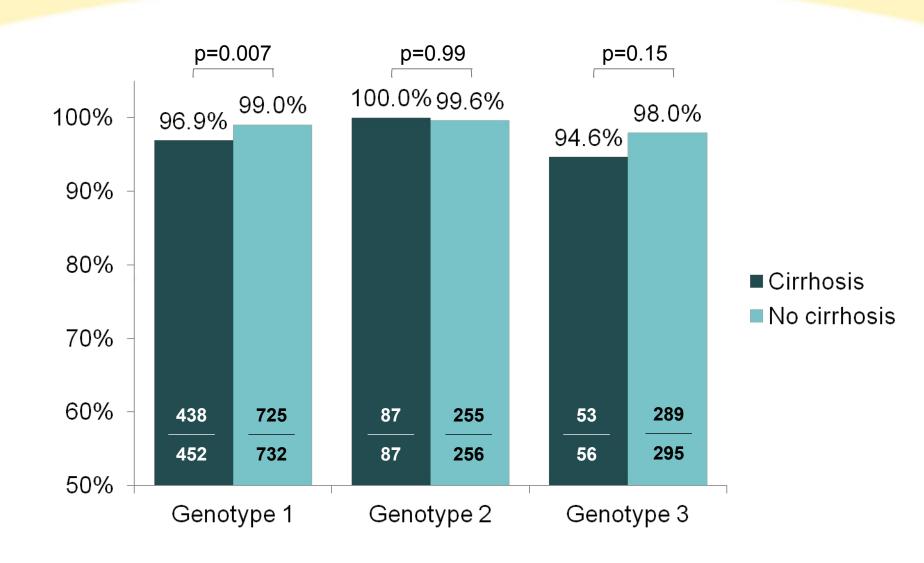
Total SVR: 97% 77%

Treatment Outcomes of LDV/SOF-Based Treatment

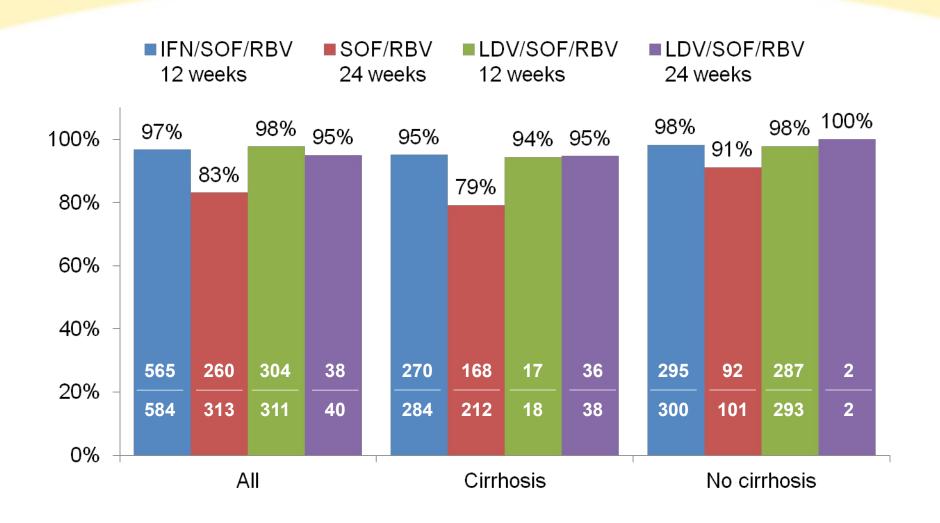
SVR in Patients Treated with LDV/SOF Regimens, Dec 31, 2017 (n=1,878)

		SVR Rate			
		G1	G2	G3	TOTAL
12 weeks	LDV/SOF	98.9% (869/879)	_	_	98.9% (869/879)
24 weeks	LDV/SOF	<mark>98.1%</mark> (104/106)	-	-	98.1% (104/106)
12 weeks	LDV/SOF/RBV	94.9% (112/118)	99.7% (334/335)	97.7% (304/311)	98.2% (750/764)
24 weeks	LDV/SOF/RBV	96.3% (78/81)	100% (8/8)	95.0% (38/40)	<mark>96.1%</mark> (124/129)
TOTAL		98.2% (1163/1184)	99.7% (342/343)	97.4% (342/351)	<mark>98.3%</mark> (1847/1878)

SVR rates with LDV/SOF by Genotype and Cirrhosis (n=1,878)



Comparing SOF and LDV/SOF Regimens in Genotype 3 Patients (n=1,248)



Elimination Goals

Cure 122,000 persons living chronic hepatitis C

Reduce prevalence of HCV infection by 90%

Acknowledgements















Scientific Committee of the National Hepatitis C Elimination Program

All HCV Care Providers



