



PARIS
HEPATOLOGY
CONFERENCE

Organised by Pr Patrick Marcellin, APHC

14 & 15
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Palais des Congrès Paris

Elimination of HCV

What we learned from ongoing national programs

The Egyptian Experience

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Egypt

There is no conflict of interest in this presentation

-Hepatitis C virus (HCV) infection is a major public health burden in Egypt, where it bears the highest prevalence rate in the world (*Blach et al , 2016*).

📁 In the past :

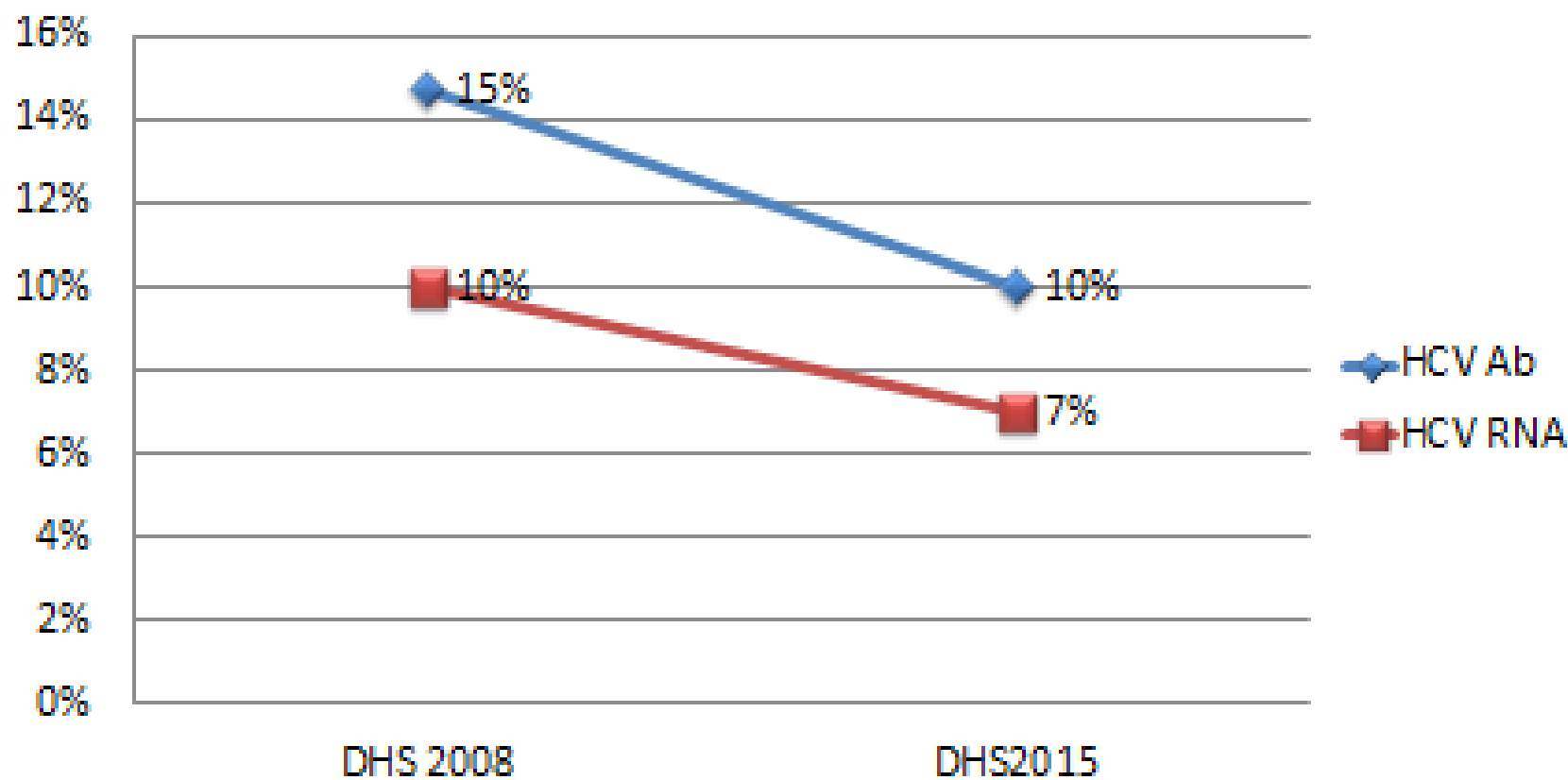
📁 The National Campaign for the Parenteral Treatment of Schistosomiasis

📁 At present :

📁 Nosocomial infection

HCV prevalence (DHS 2008-2015)

For Age group 15-59 years old



Until 2006, Egypt did not have a comprehensive national program for control of viral hepatitis

- No large nationwide survey for the disease
- No national guidelines for treatment
- Health insurance did not cover HCV therapy
- Limited infection control program

Egypt's national response to the HCV epidemic

- The foundation of the National Committee for the Control of Viral Hepatitis - NCCVH (2007)
- The foundation of the Egyptian National Control Strategy for Viral Hepatitis (2008)
- Trial for standardization of treatment protocols by putting national guidelines for HCV treatment

Current national treatment program centers



Total number 172 units

NCCVH 71 units

MOH 101 units

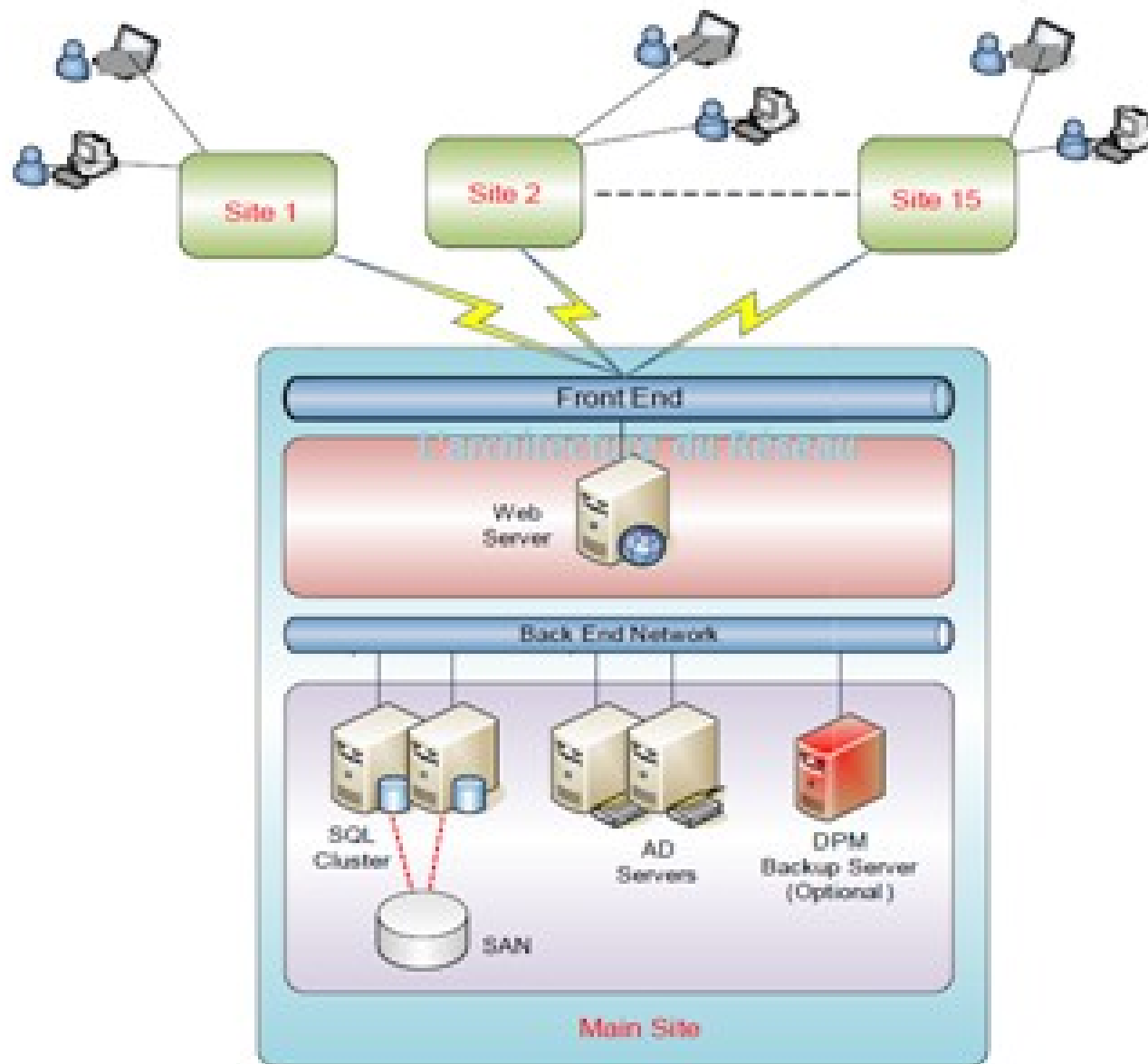
To deal with the large numbers of HCV patients, together with the fact health insurance covers a minority of the population,

A novel administrative solution was introduced for the first time in the health care setting in Egypt

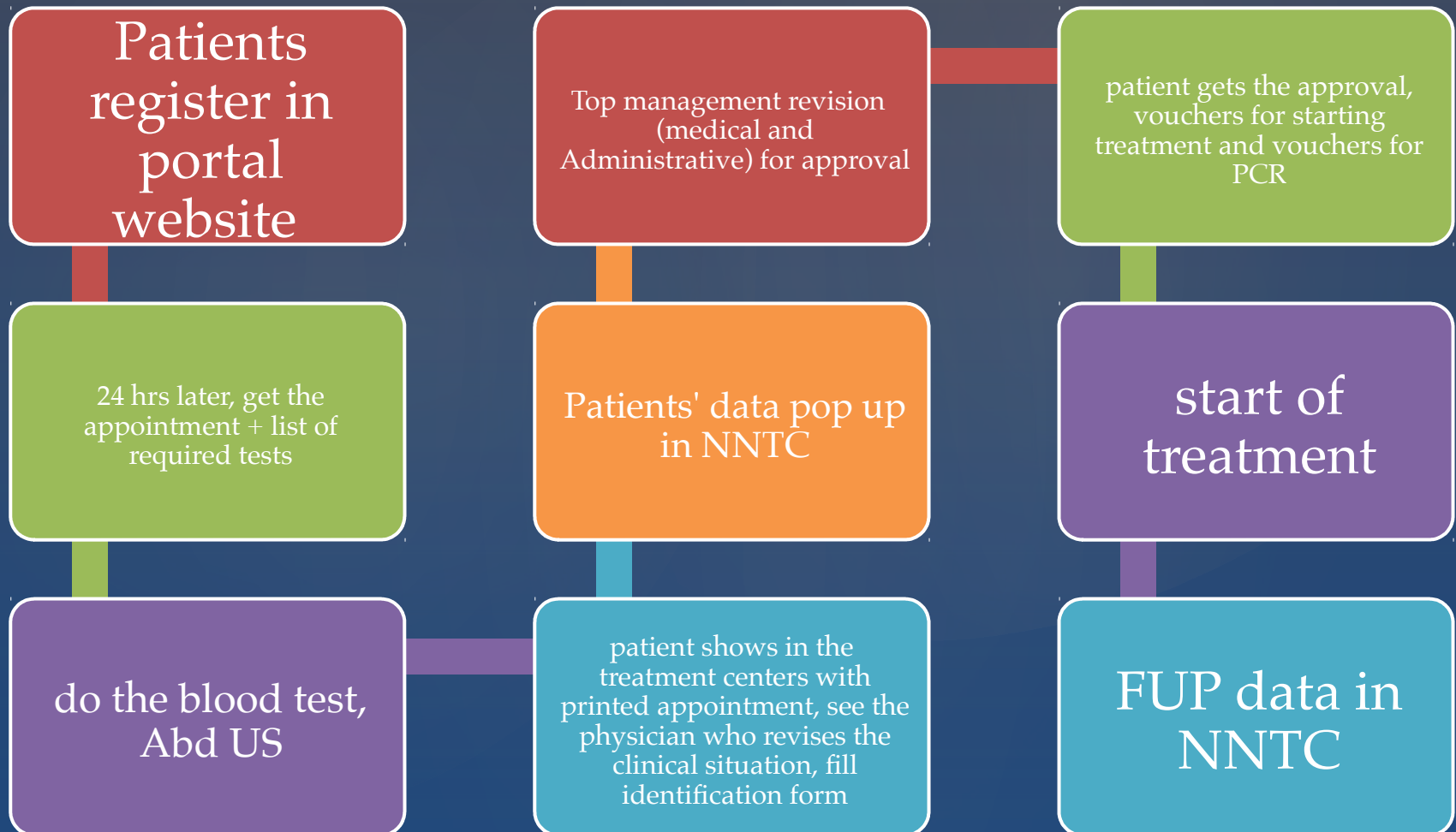
A collection of network data of viral hepatitis treatment units was established, server located in Cairo

The network contains clinical information about patients at registration and during treatment for HCV

The Network Architecture



★ Patients' Journey



Low price of antiviral drugs in Egypt

The price of the brand antiviral drugs starting from the era of pegylated IFN and RBV to the DAAs is lower in the Egyptian market

During the era of Pegylated IFN – Ribavirin -
Egyptian Biosimilar of Pegylated IFN

During the era of DAAs - Egyptian Generic of DAAs

The Egyptian Patent Office (EGYPO)

Low price of antiviral drugs in Egypt

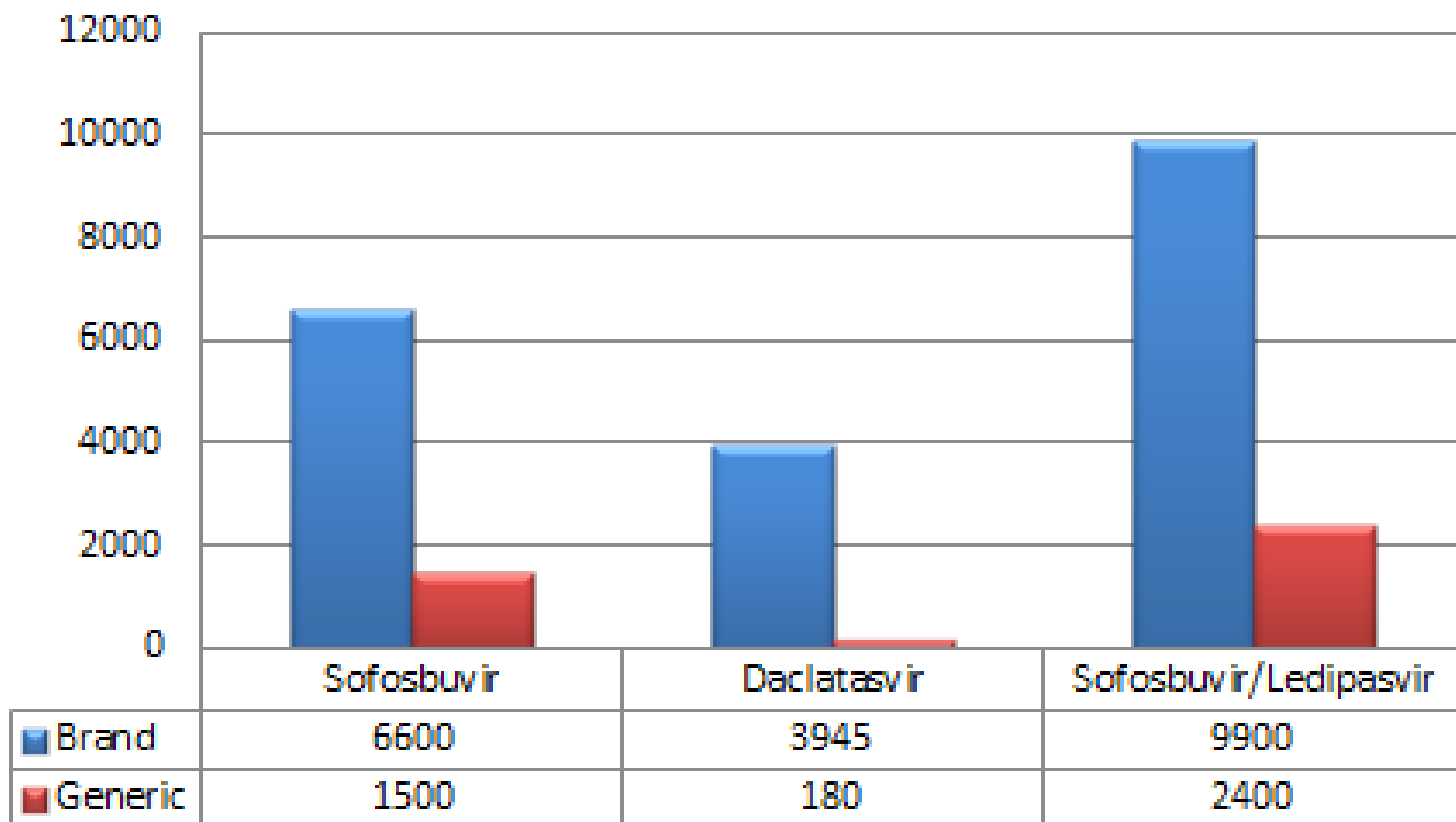
A dramatic fall of the price of the generic molecules of the DAAs occurred during the last few months rendering the price of the combination (Sofo + Dacla) about 25 Euros per month.

DAAAs available in Egypt

- Sofosbuvir (Sovaldi) + generic
- Daklatasvir (Daklinza) + generic
- Sofosbuvir + Ledipasvir (Harvoni) + generic
- Simeprevir – (Olysio) No generic
- Ombitasvir / Paritaprevir / Ritonavir- (Querevo – Viekira) No generic

HCV DAAs Prices for 12 weeks treatment (EGP)

Brand vs. Generic

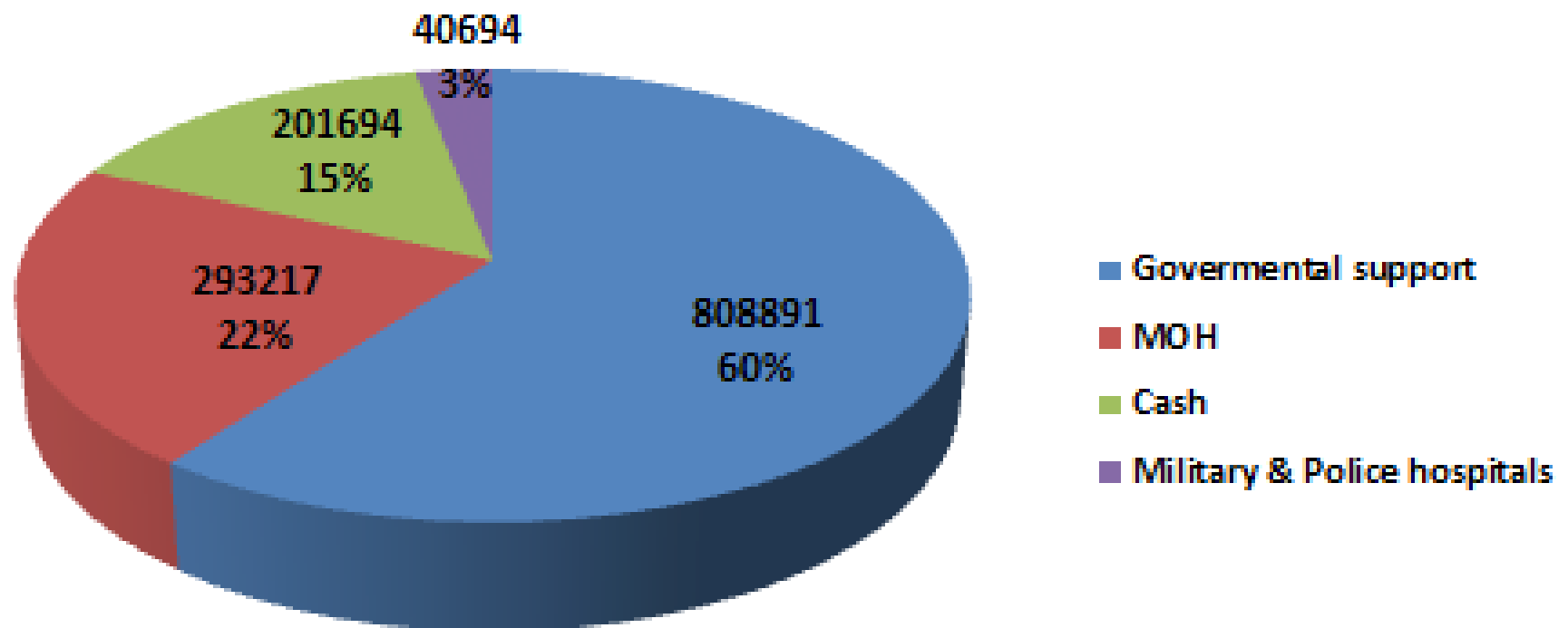


Chronology of treatment protocols implemented by the National Program

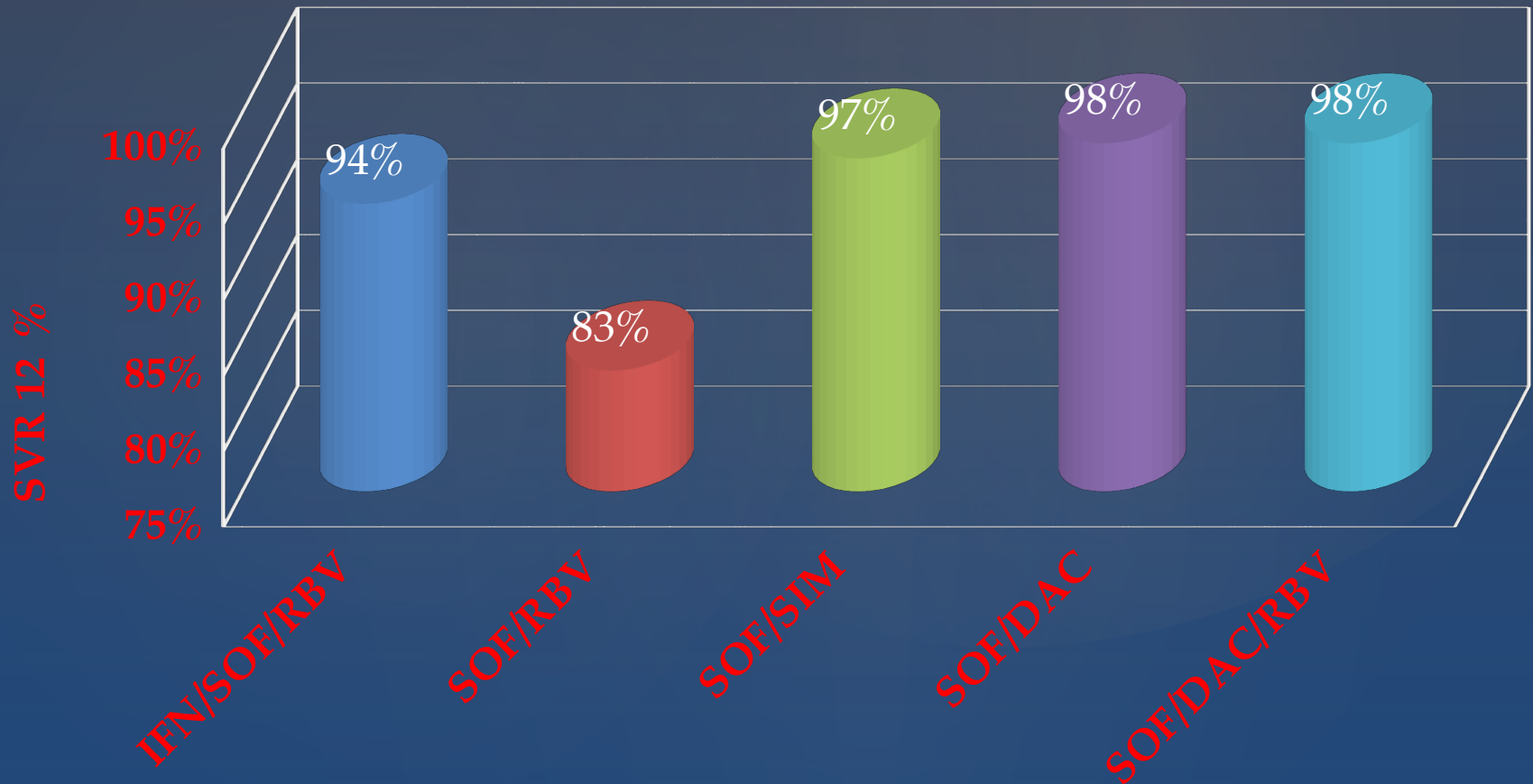
Date	Implemented protocol	Inclusion criteria
2007-2014	PegIFN-RBV	F1-F3 patients
October 2014-May 2015	Sofosbuvir-PegIFN-RBV	F3,F4 IFN tolerant
	Sofosbuvir-RBV	F3,F4 IFN intolerant up to Child B 8 (down to 7)
May 2015-November 2015	Sofosbuvir-PegIFN-RBV	F0-F4, normal synthetic function
	Sofosbuvir-Simeprevir	F0-F4, impaired synthetic function up to Child A6
November 2015	IFN-free regimen. Two DAAs \pm RBV	F0-F4, impaired synthetic function up to B7. Higher Child in special centers

Number of treated patients through the Egyptian national treatment program with DAAs till the end of 2017

1,344,496 Patients



Known outcome in 165.349 patients



The fight against hepatitis C continues in Egypt to take a new dimension today.

After the public's rush to take Anti HCV treatment due to the availability and efficacy of generic DAAs, a large drop in the number of patients seeking treatment has been observed.

The largest mass screening and treatment campaign allover the world

In October 2018 , the Egyptian Ministry of Health launched a large mass screening and treatment campaign to eliminate hepatitis C in Egypt in the coming years

(100 MILLION HEALTH)



- The campaign began in October 2018 and is scheduled to end in April 2019.

The campaign (100 million health) was also designed to measure the blood pressure , the height and the weight (BMI) and to measure the blood sugar for all screened citizens

Phase	Period	No of Governorates
First Phase	October – December 2018	9 Governorates
Second phase	December- February 2019	11 Governorates
Third phase	March – April 2019	7 Governorates

Propagation

- sms messages (more than 3 millions)
- TV and Radio and newspapers
- Social media (facebook – Twitter,.. etc,)
- Hotline
- Electronic website
- Points of screening (Fixed- mobile)

The Target group :

- Workers in big factories
- University students
- School children
- Rural areas
- Police sectors
- Jails





Individuals screened in phase I and II

- 13 Millions screened at the end of phase I
- More than 12 Millions were screened (until January 10th, 2019) by the ongoing phase II
- Eligible patients in phase I and phase II received the treatment.

١٠٠ مليون
صحة



١٠٠ مليون
صحة
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More than
25
Millions
Citizens
Screened
since the
start of the
campaign in
October 2018

More than 13 millions have been
screened for HCV in phase I
of the campaign



Results of the first phase

13 .043.623 screened

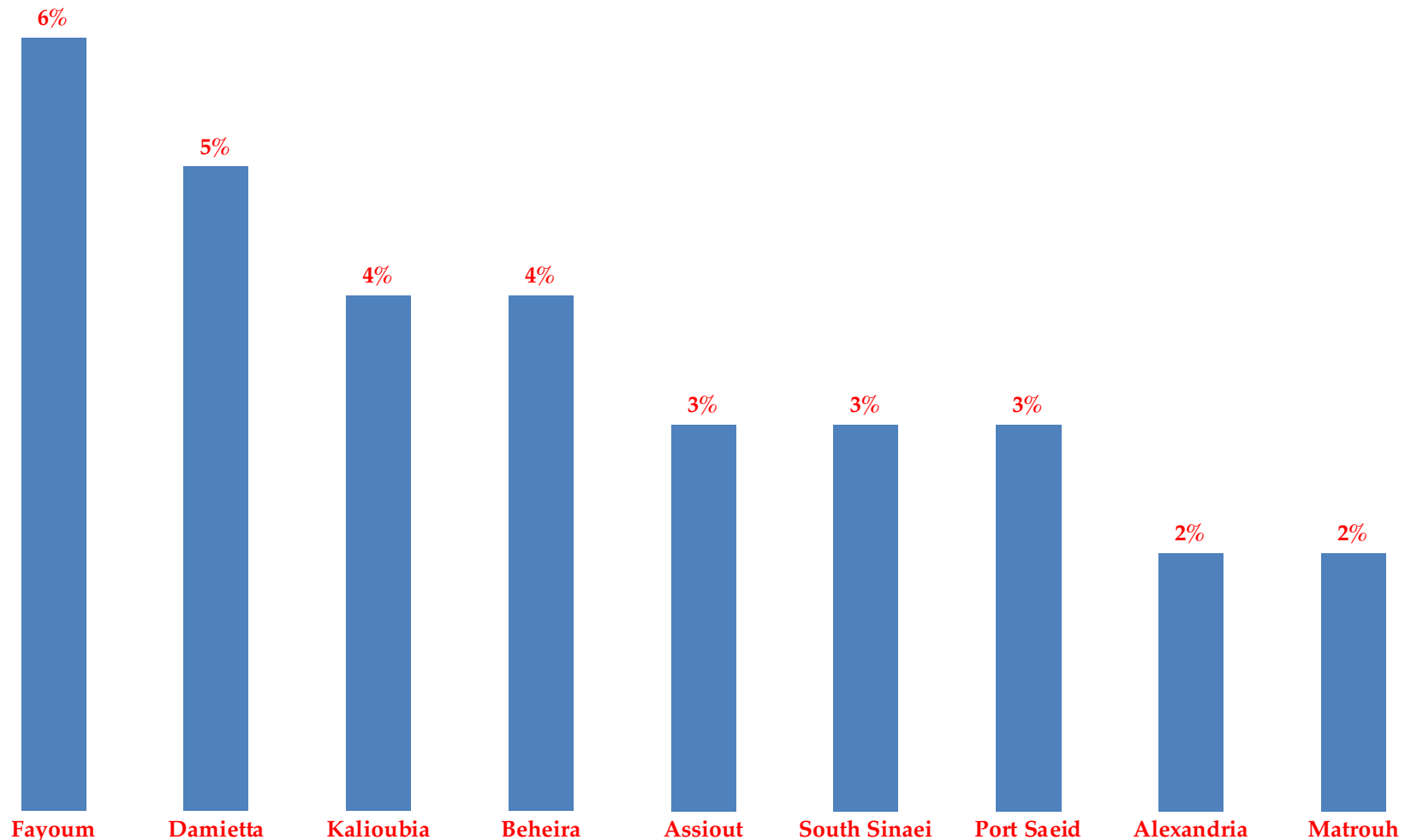
502.022 HCV Ab +ve

People examined in the first phase of screening	HCV Positive	HCV negative	Percentage of HCV Ab +ve
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13. 043 623	502.022	12. 541 601	3.84 %
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Phase I screening (October - December 2018)

Percentage of HCV Ab positive in different Governorates



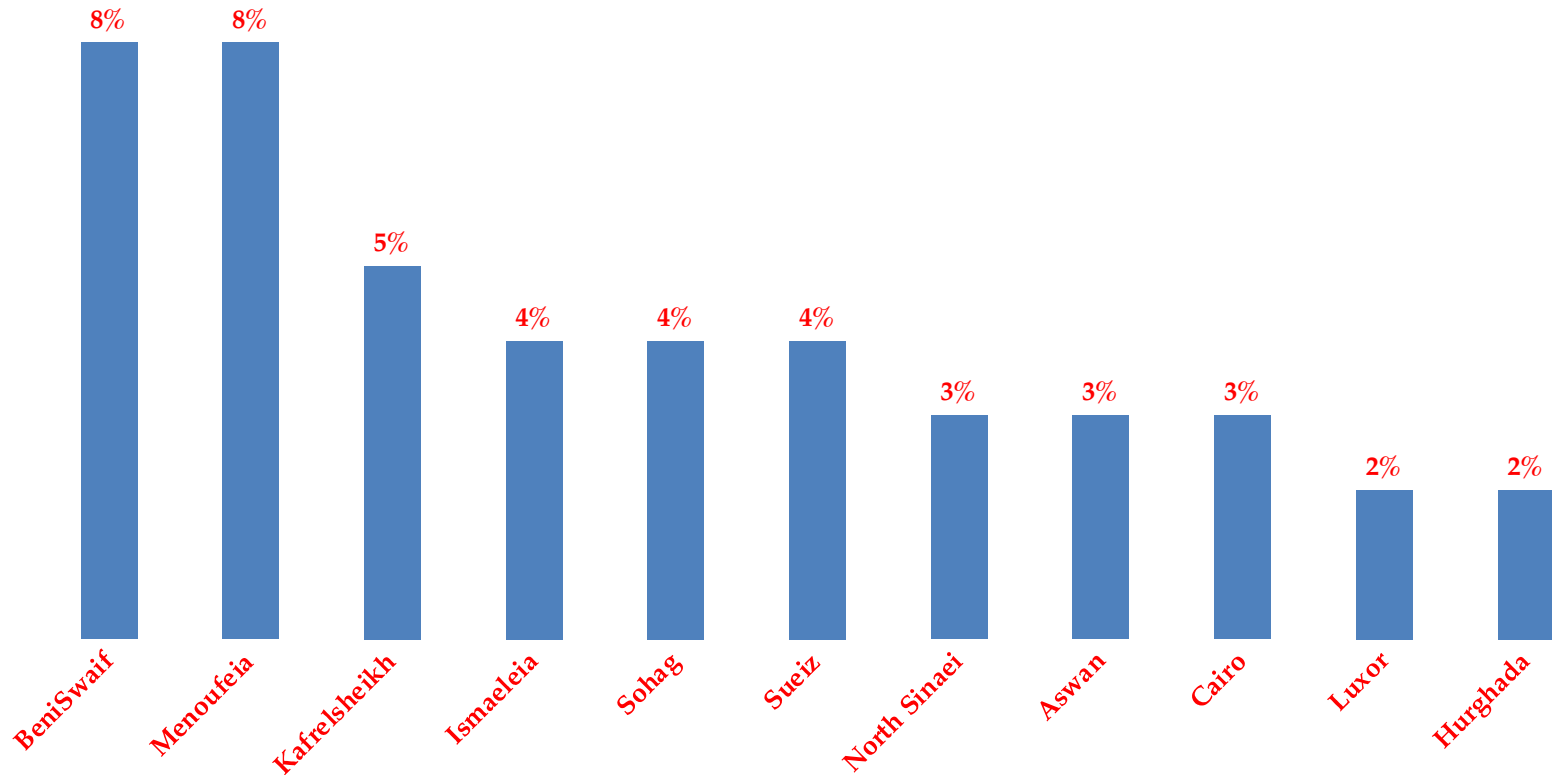
Phase II screening

- Scheduled from December 2018 until the end of February 2019
- More than 12 millions were screened until January the 11th 2019) by the ongoing phase II

Phase II screening

(December 2018 - January 5th, 2019)

Percentage of HCV Ab in different Governorates



	No of screened	HCV Ab+ve	Percent
University student in 11 Governorates	77 730	1140	1.4% (varies between 0.3% to 4.2%)
School Student in 9 governorates	564 482	1959	0.3% (Varies between 0.3% to 0.8%)
Prisons in 4 Governorates	2152	345	16% (Varies between 14 – 24%)
Police stations in 11 Governorates	301 79	886	2.9% (Varies between 0.3% to 12.4%)

آخر تحديث بتاريخ 11-01-2019 منذ 4 دقيقة

إجمالي الحالات السلمية

24 875 047

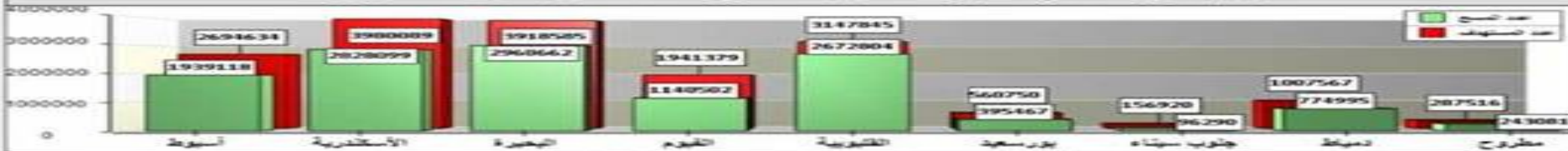
إجمالي الحالات الإيجابية

1 064 277

إجمالي المواطنين المفحوصين

25 939 324

(إجمالى المسح مقابل المستهدف لكل محافظة) المرحلة الأولى



اجمالی المفحوصین المرحلة الثالثة

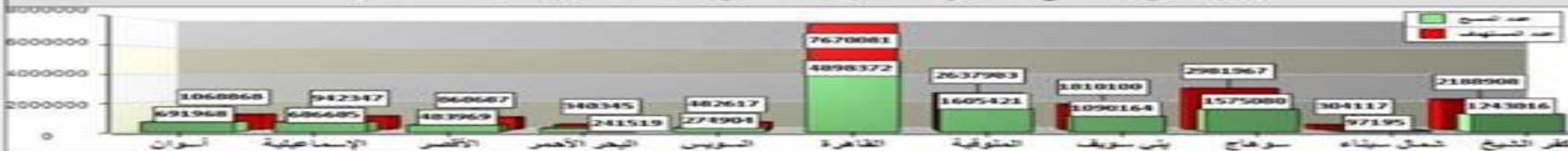
اجمالی المفحوصین المرحلة الثانية

إجمالي المفحوصين المرحلة الأولى

12 888 293

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(إجمالى المسح مقابل المستهدف لكل محافظة) المرحلة الثانية



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WORLD NEWS DECEMBER 3, 2018 / 3:58 PM / 21 DAYS AGO

Millions flock to free tests as Egypt seeks to eradicate hepatitis C

Mahmoud Mourad, Lena Masri

1 MIN READ



MIT NAMA (Reuters) - When Houaida Mabrouk heard about a government campaign that offers free hepatitis C screenings, she hesitated, afraid of testing positive. But as many from her community started visiting health clinics to get checked, she changed her mind.



MIT MAMA — When Housaida Mabrouk heard about a government campaign that offers free hepatitis C screenings, she hesitated, afraid of testing positive. But after many from her community started visiting health clinics to get checked, she changed her mind.

EGYPT, WITH HIGHEST HEP C RATE IN MIDDLE EAST, PLANS TO ERADICATE VIRUS

At least 11.5 million people have been screened in the new campaign, with 5 percent testing positive.

BY REUTERS / DECEMBER 3, 2018 16:34

2 minute read

- > More Israelis are carriers of hepatitis C
- > Egypt unveils previously unopened ancient female sarcophagus

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Close up of female doctor holding syringe with injection (illustration). (photo credit: BIG IMAGE/RSAP)

Conclusion

Enormous efforts have been made for trial for elimination of HCV in Egypt.

The recent campaign for HCV elimination in Egypt detected more than 1 million citizens HCV Ab positive in 100 days.

There is an urgent need for :

- Strengthening prevention efforts (more than 150 000 new cases of HCV per year in Egypt).
- Bringing down the costs of antiviral drugs where the poor population is the most likely to be infected by the virus.

Thank you

