

# **Viral Hepatitis in Florida** **Emphasis on Hepatitis C**

**Florida Hepatitis C Stakeholders Forum**



**Tampa**

**February 27, 2015**



**[www.FlaHepatitis.org](http://www.FlaHepatitis.org)**

# Program Staff

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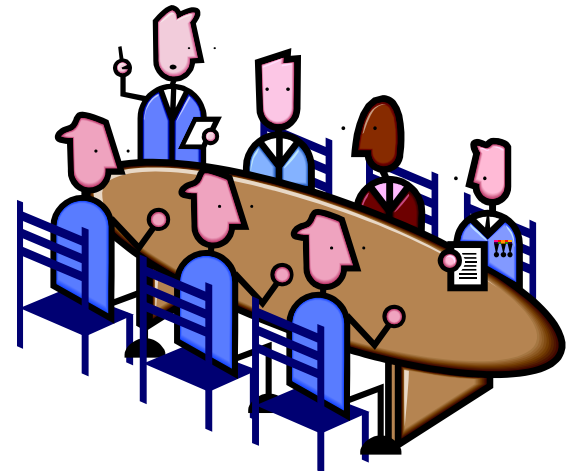
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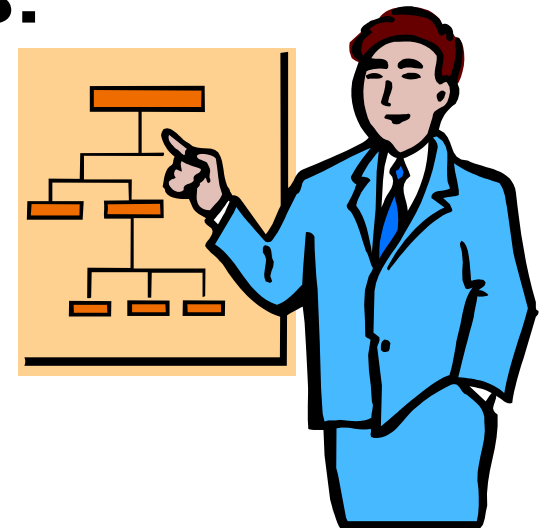
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# **STD & Viral Hepatitis Section**

- **Dept. of Health**
- **Division of Disease Control & Health Protection**
- **Bureau of Communicable Diseases**
- **STD & Viral Hepatitis Section\***  
(Comm. Disease includes:  
HIV, STD, Immunization,  
TB & Viral Hepatitis)

**\*As of August 2014**



# **STD & Viral Hepatitis Section**

- **Consolidation of common responsibilities (Surveillance, epidemiology, info & education, data analysis...)**
- **Common clients at the local health department level**
- **Working together toward a common goal (Preventing disease)**



# **County Health Departments**

- **15 Funded for specific viral hepatitis prevention programs**
- **67 counties can vaccinate and test adults at no cost for vaccine or tests**
- **Hepatitis 09 Program**
- **Guidance on Intranet**
- **Adult program (18+ years old)**
- **Under 18 vaccinated by Immunization**





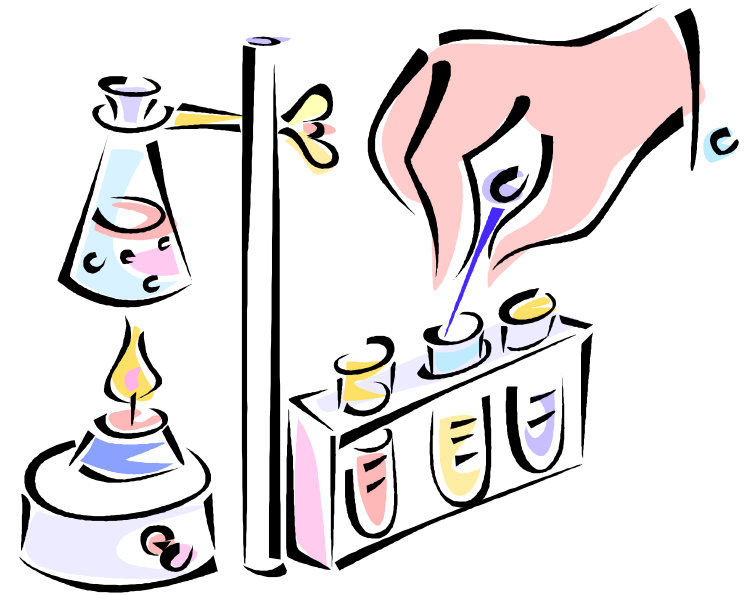
# Caloosahatchee River, Ft. Myers



# Testing

## # Hepatitis C Tests Done by State Lab\*

**2007: 22,812**  
**2008: 28,188**  
**2009: 33,004**  
**2010: 25,756**  
**2011: 21,018**  
**2012: 22,826**  
**2013: 23,442**  
**2014: 22,581**



44.7% Increase in testing from 2007 thru 2009

31.6% Decrease in testing from 2009 thru 2014

\*Based on LabWare Data

# **Positivity Rate<sup>1</sup>, Hepatitis Testing**

## **State Lab - Jan-Dec 2014**

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**Hepatitis A Antibody: 31.8%<sup>2</sup>**

**Hepatitis B Surface Antibody: 43.6%<sup>3</sup>**

**Hepatitis B Surface Antigen: 0.8%<sup>4</sup>**

**Hepatitis C Antibody: 11.3%<sup>5</sup>**

1. Raw data from LabWare (Fla State Laboratory)
2. + A Antibody means immunity due to previous infection or vaccination
3. + Hep B Surface Antibody usually denotes vaccine protection
4. + Hep B Surface Antigen usually means acute or chronic infection
5. Most Hep C Antibody + (over 99%) are chronic



# Testing, continued

- Meetings with state lab staff (Dr. Carina Blackmore, new Chief, Bureau of Public Health Laboratories)
- Updating guidance for testing in 2015
- Diminished resources
- Cannot afford to test  
everyone who goes  
through door of health  
department



# **More on Testing**

- **More concentration on hepatitis C**
- **Rapid testing**
- **Money from Legislature (\$200k in 2014)**
- **De-emphasize hepatitis A testing**
- **De-emphasize hepatitis B surface antibody testing (high % due to age of clients who were vaccinated as infants)**



# North Yacht Basin, St. Petersburg



# **Hepatitis C in Florida**

- Average of over 22,500 chronic hep C cases per year reported from 2003-2013
- Average of about 48 acute hep C cases per year reported over the same period
- About half the states do not report chronic hep C
- An estimated **316,000** cases of hep C in Florida (around 4 million in the US—or, 3.2 to 5 million, depending on what you read)
- Prevalence of 1.0% to around 2.0% (we use 1.6%)
- 25% - 50% are unaware of their infection in Florida
- Up to 75% are unaware of their infection in the US

# **Reported Chronic Hepatitis C**

## **Florida, 2010-2014\***

**2010: 21,606**

**2011: 23,314**

**2012: 23,236**

**2013: 25,175**

**2014: 25,787 (of which 87.9% [22,660] are confirmed cases)**



**\*Confirmed, Probable and Suspect Cases from Merlin**

# **Reported Acute Hepatitis C**

## **Florida 2009-2013\***

**2009: 53**

**2010: 57 (7.5% increase from prev. year)**

**2011: 65 (14% increase from prev. year)**

**2012: 114 (75.4% increase from prev. yr.)**

**2013: 220 (93% increase from prev. year)**

**Why the increase? CDC Surveillance Grant beginning in 2012 (2010), general US trend of increase in younger adults, more “Boomers” being tested since 2012, etc.**

**\*from Merlin database**



# Baby Boomer Cohort

- Born from 1945 to 1965
- CDC Guidance, Aug 2012
- Get tested
- Healthcare workers should suggest testing to this group
- 75% of chronic hep C in US in this age group

The poster features a vertical timeline on the right side listing years from 1936 to 1954. A large, stylized number '2' is in the background. The main text reads: **BORN FROM 1945 TO 1965?** AMERICANS BORN DURING THESE YEARS HAVE THE HIGHEST RATES OF HEPATITIS C. Below this, it says: Talk to your doctor about getting tested. Early detection can save lives. [www.cdc.gov/livewell/hepatitis](http://www.cdc.gov/livewell/hepatitis). The poster also includes a collage of photos of people, a purple box with the text **BORN FROM 1945 to 1965?**, and the text **BABY BOOMERS HAVE THE HIGHEST RATES OF HEPATITIS C.** at the bottom. Logos for CDC and Know Your Hepatitis are also present.

**BORN FROM 1945 TO 1965?**

AMERICANS BORN DURING THESE YEARS HAVE THE HIGHEST RATES OF HEPATITIS C.

Talk to your doctor about getting tested. Early detection can save lives.

[www.cdc.gov/livewell/hepatitis](http://www.cdc.gov/livewell/hepatitis)

**BORN FROM 1945 to 1965?**

**BABY BOOMERS HAVE THE HIGHEST RATES OF HEPATITIS C.**

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[www.cdc.gov/livewell/hepatitis](http://www.cdc.gov/livewell/hepatitis)

# FPHA Poster Presentation



## Hepatitis C in Florida: Testing Individuals Born from 1945-1965 (The Baby Boomer Cohort), August 2013

Philip E. Reichert, MPH and Cyndena A. Hall

Florida Department of Health, Bureau of Communicable Diseases, HIV/AIDS and Hepatitis Section

### Statement of Problem

In about 75% to 85% of individuals infected with the hepatitis C virus (HCV), chronic disease persists and may lead to cirrhosis (scarring of the liver), liver cancer or death. Most people with HCV have no discernable symptoms for twenty to thirty years or more. According to the Centers for Disease Control and Prevention (CDC), approximately 75% of all HCV infections occur in Americans born from 1945 to 1965, the "Boomer Cohort", although they represent only 27% of the US population. In August 2012, CDC released a Morbidity and Mortality Weekly report recommendation titled: *Recommendations for the Identification of Chronic Hepatitis C Virus Infection Among Persons Born During 1945-1965*. In this report, CDC recommended a one-time test for Americans in the boomer cohort.

### Objective

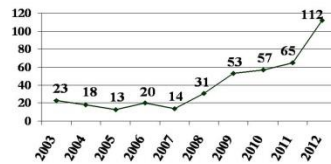
Provide Florida-related data to support CDC's recommendation that Floridians born from 1945-1965 should be tested for HCV even in the absence of traditional risk factors (such as: persons who share drug or tattooing equipment, blood transfusion before 1992, occupational exposures, etc.)

### Description of Program

Offer HCV testing to persons born from 1945-1965 in private and public health settings, including sexually transmitted disease clinics, family health, HIV, and other service settings.

Figure #1

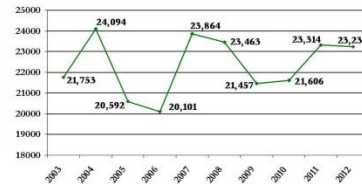
Reported Acute Hepatitis C in Florida  
Statewide 2003-2012<sup>2</sup>



Source: ESSENCE Database, Florida Department of Health, June 2013

Figure #3

Reported Chronic Hepatitis C in Florida  
Statewide 2003-2012<sup>2</sup>



Source: ESSENCE Database, Florida Department of Health, June 2013

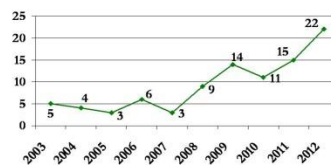
### Summary and Conclusion

Florida has identified an average of 41 acute and 22,348 chronic cases of hepatitis C from 2003 through 2012<sup>2</sup>. Twenty three percent of acute and 55% of reported chronic cases are in persons born between 1945 and 1965<sup>1</sup>. Individuals in the Baby Boomer cohort constitute approximately 27% of the total population in Florida<sup>1</sup>.

Approximately 309,000 persons in Florida have hepatitis C. An estimated 170,000 of those cases are in the Baby Boomer cohort<sup>1,2</sup>. Florida has documented approximately 80% of expected chronic hepatitis C cases<sup>2,3</sup>. With current and new therapies on the horizon for HCV, testing this group will link individuals unaware of their infection to medical services that will reduce HCV morbidity and mortality in Florida and the U.S.

Figure #2

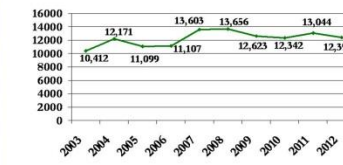
Reported Acute Hepatitis C in Florida  
Baby Boomer Cohort 1945-1965<sup>2</sup>



Source: ESSENCE Database, Florida Department of Health, June 2013

Figure #4

Reported Chronic Hepatitis C in Florida  
"Baby Boomer" Cohort 1945-1965<sup>2</sup>



Source: ESSENCE Database, Florida Department of Health, June 2013

### References

- <sup>1</sup> United States Census Bureau, (2013). DP-1, Community Facts: 2010, retrieved from [http://factfinder2.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=EC\\_10\\_DP\\_DPDP1](http://factfinder2.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=EC_10_DP_DPDP1)
- <sup>2</sup> MERLIN/ESSENCE databases, Florida Department of Health, Bureau of Epidemiology, June 2013
- <sup>3</sup> Alter, M. et al., (2006). The prevalence of hepatitis C virus in the U.S. 1999-2002, *Ann. Intern. Med.* 144(10) 705-14
- <sup>4</sup> Centers for Disease Control and Prevention, Recommendations for the identification of chronic hepatitis C virus infection among persons born during 1945-1965, *MMWR* 2012, 61 (No RR-4)



# Downtown Miami

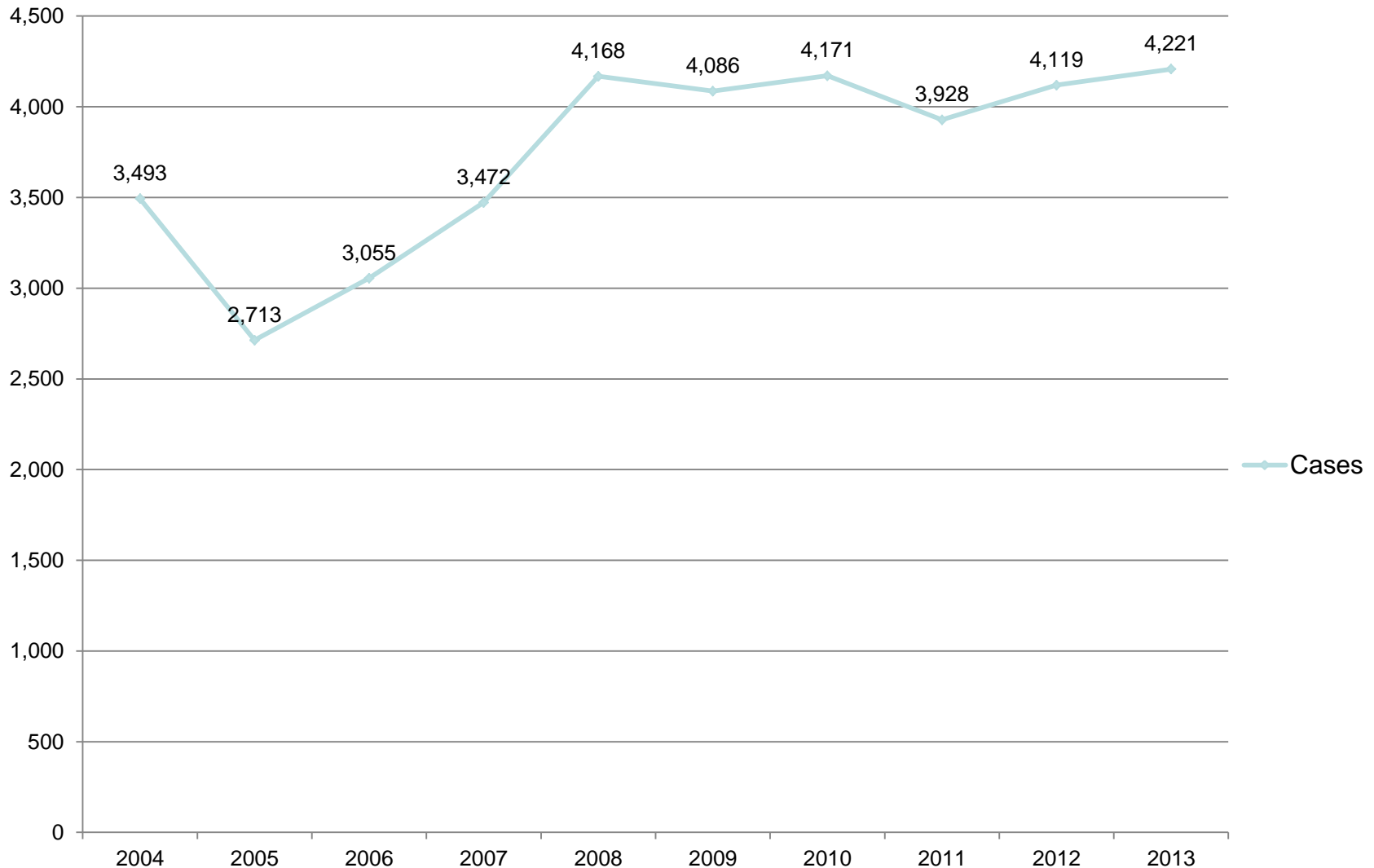


# Reported Acute Hepatitis B Cases, Florida - 2004-2013



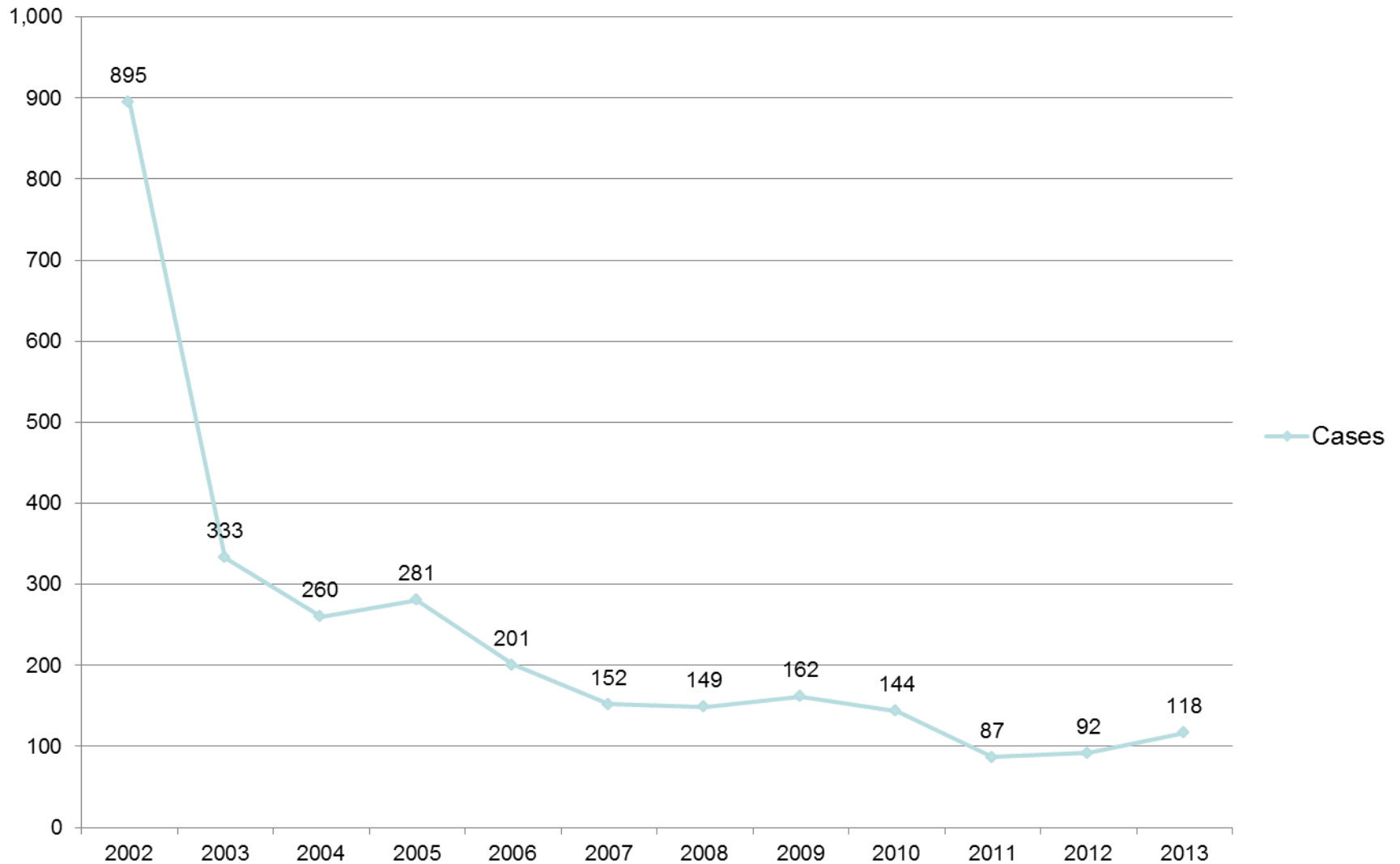
Source: ESSENCE Database, Florida Department of Health, 04/01/2014

# Reported Chronic Hepatitis B Cases, Florida - 2004-2013



Source: ESSENCE Database, Florida Department of Health,  
04/01/2014

# Reported Hepatitis A, Florida - 2002-2013



Source: ESSENCE Database, Florida Department of Health,  
04/01/2014



# **TOTAL A, B & A/B Vaccines\***

## **2009 - 2013**

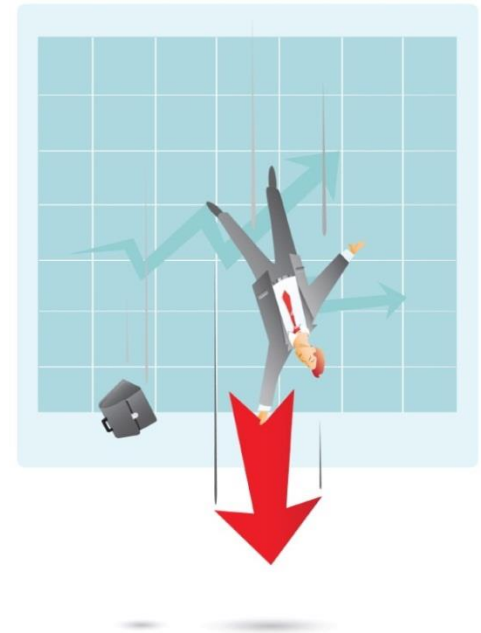
	<b><u># Vaccines</u></b>	<b><u># Diff Last Yr</u></b>	<b><u>% Diff Last Yr</u></b>
<b>2009</b>	<b>40,535</b>	<b>--</b>	<b>--</b>
<b>2010</b>	<b>31,575</b>	<b>-8960</b>	<b>-22.1%</b>
<b>2011</b>	<b>25,026</b>	<b>-6549</b>	<b>-20.7%</b>
<b>2012</b>	<b>19,681</b>	<b>-5345</b>	<b>-21.4%</b>
<b>2013</b>	<b>11,459</b>	<b>-8222</b>	<b>-41.8%</b>
<b>2014</b>	<b>11,763</b>	<b>+ 304</b>	<b>+ 2.7%</b>

**\*Based on Data from Florida SHOTS (State Health Online Tracking System)**



# **Why Did Vaccine Numbers Decrease for Several Years?**

- **Diminishing Resources (less funding)**
- **Competing Priorities (nurses called to give flu vaccine)**
- **Currently, working with Ebola, measles prevention**
- **Revised Guidance (temporarily suspended buying hep A vaccine, test before vaccinating)**



# West Palm Beach



# Funding In Florida

- Total State Funding: \$1,413,745 for 2014-2015
- Current **state** funding:
  - \$1,083,685 for 15 funded CHDs
  - \$131,651 for vaccine,  
laboratory, test kits, supplies...
  - \$190,409 for 4 HQ FTEs
  - \$200,000 (in 2014-15) Hep C Testing
- Current **federal** funding:
  - \$108,287 Prev Coop Agreement with CDC



# **State Funding Comparison**

- **FY 2002-03 through FY 2008-09:  
\$3,120,000 per year**
  - **FY 2009-10: \$2,908,818**
  - **FY 2010-11: \$2,788,022**
  - **FY 2011-12: \$1,646,725**
  - **FY 2012-13: \$1,413,745**
  - **FY 2013-14: \$1,413,745**
  - **FY 2014-15: \$1,413,745**
- # and % diff between FY 2008-09 & FY 2012-13:  
\$1,706,255 (-54.7%)**



# Leveraged Funding

- **HIV Prevention Program: \$121,000 for testing at the state laboratory**
- **HIV Patient Care Program: \$150,000 for adult hepatitis A and B vaccines**
- **In the past: Immunization Program & Bureau of Epidemiology paid for vaccines**





# **CDC Surveillance Grant**

- **Funded for 3 years (Oct 2012 – Sep 2015)**
- **Added to CDC Hepatitis Prevention Grant**
- **\$526,189/year**
- **3 HQ positions**
- **4 field positions (Palm Beach, Orange, Hillsborough & Pinellas)**
- **Originally, administered by Bureau of Epi (Moved to STD/Hepatitis late 2014)**
- **Chronic C, hep C in young adults (18-30 y/o) survey & follow-up**



# **CDC Vaccine Grant**

- **Hepatitis B Vax**
- **6 CHDs**
- **Collection of data**
- **Tracking of 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> doses**
- **Two-year grant: Sept 30, 2012-Sept 29, 2014**
- **No-cost extension (through Sept 29, 2015)**
- **\$212,169 (for entire grant period)**
- **Plus 13,420 doses of hep B vaccine**
- **Added 7<sup>th</sup> CHD in early 2014**
- **1,400 additional doses available from other states that did not use**



# Hollywood Beach



# **Emphasis on “C”**

- **CDC-sponsored “National Summit on Hepatitis C Treatment & Cure,” Atlanta, June 17-18, 2014**
- **Emphasis on testing (Especially “Boomers”)**
- **Look at youth (18-30) with hep C, or at risk for hep C**
- **Treatment issues (new drugs)**





# **De-emphasis on “A”**

- **Outbreaks still followed by Epi staff**
- **About 30% of general population is immune (Previous infection or vax)**
- **Few reported cases (110 in Fla in 2014)**
- **Hep A vax available in US in 1996**
- **Recommended for children in high-risk areas**
- **Most hep A outbreaks in nursing homes & daycare centers**



# **What About “B?”**

- **Hepatitis B virus discovered in 1967 by Nobel Laureate Dr. Baruch Blumberg**
- **Developed the vaccine in 1969**
- **FDA-approved 1981**
- **1991: CDC recommends universal infant vaccination**
- **1992: Florida began universal infant vaccination**
- **1997: “Catch-up” vaccine for middle-schoolers**





# Cocoa Beach



# **History of Hepatitis C**

- **Non-A non-B hepatitis in the early 1970s**
- **1989: First ID-ed as hepatitis C (25<sup>th</sup> anniversary)**
- **1991: 1<sup>st</sup> interferon treatment (9% SVR for genotype 1, 30% for genotypes 2 & 3)**
- **1992: Effective screening of blood & blood products**
- **1998: Interferon & ribavirin (30% SVR for genotype 1, 60% for genotypes 2 & 3)**
- **Pegylated interferon with ribavirin (40% for G-1 & 80% for G-2 and G-3)**





# **More Hepatitis C History**

- **2011: 3-drug therapy (Telaprevir & boceprevir approved) with interferon & ribavirin (60%-80% SVR for G-1, 90% for G-2 & G-3)**
- **2013: 3-drug therapy (simeprevir & sofosbuvir (Nearly 100% SVR...Cure!))**
- **Recent: Oral-only treatment**
- **Upside: Fewer side effects**
- **Downside: Cost (Approx. \$96K for sofosbuvir + interferon & ribavirin)**



# **New Hepatitis C Meds**

- **Sofosbuvir (Sovaldi-Gilead)** – Approved by FDA Dec 2013
- **Simeprvir (Olysio-J & J)** – Approved by FDA Nov 2013
- Both drugs, generally used with SOC (Standard of Care): Peg Interferon & Ribavirin
- About 90% SVR (Cure) in 12 weeks, instead of 48 weeks
- About \$90,000 for 12 week Rx regimen

# **New Hep C Meds, continued**

- **Harvoni (ledipasvir & sofosbuvir)** – Approved by the FDA Oct 2014
- **All oral, no injections**
- **12 week regimen: \$94,500**
- **40% can take for 8 weeks, cost: \$63,000**



# **More New Hep C Meds**

- **Ombitasvir/Paritaprevir/Ritonavir tablets with Dasabuvir (Viekira-Abbvie)**
  - **Approved by the FDA Dec 2014**
- **All oral**
- **\$83,319 (for 12 or 24 weeks)**
- **12-week regimen is standard for Genotype 1**
- **With or without Ribaviron**

# Santa Rosa Island (Pensacola Beach)



# **2014 Legislature**

- **HB465 and SB824: “Hepatitis C Testing Act”**
- **House sponsor: Rep. Mia Jones, Jax**
- **Senate sponsor: Sen. Arthenia Joyner, Tampa**
- **Similar to NY law (as of Jan 1, 2014)**
- **465 & 824 approved by subcommittees & committees**



# **The Hepatitis C Testing Bill**

- Shall offer hep C test if born from 1945-1965**
- Hospital inpatient or outpatient, primary care services**
- Doctor, ARNP, PA**
- Caveats: Unless patient is being Rx-ed for a life-threatening emergency, has already been offered, is incapable of providing consent to test**
- If +, offer follow-up or referral**

# 2012 Legislature

- **Hep C testing bill**
- **Followed congressional bill introduced in 2011**
- **Hep B and C surveillance, education & testing**
- **Passed committees**
- **No debate on Senate or House floor**





# Tallahassee



# **Viral Hepatitis Council (VHC)**

- **Writes Hepatitis Prevention Comprehensive Plan**
- **Discusses common issues**
- **Advises and guides program goals**
- **20 Member Maximum (Currently, 16 members)**
- **Next meeting (awaiting approval): Tentative date is May 2015**
- **Ad hoc writing group met in 2014 in Tallahassee to update objectives and action steps for comprehensive plan**



# **Current HPP Goals**

- 1) Track viral hepatitis case surveillance and reporting**
- 2) Coordinate & collaborate with communicable disease control programs regarding prevention & intervention efforts**
- 3) Reduce hepatitis morbidity & mortality**
- 4) Conduct data analysis & evaluation**
- 5) Raise statewide awareness of viral hepatitis**
- 6) Develop & distribute educational information**

**Currently, 30 Objectives**





# Flagler Beach



# **Events & Observances**

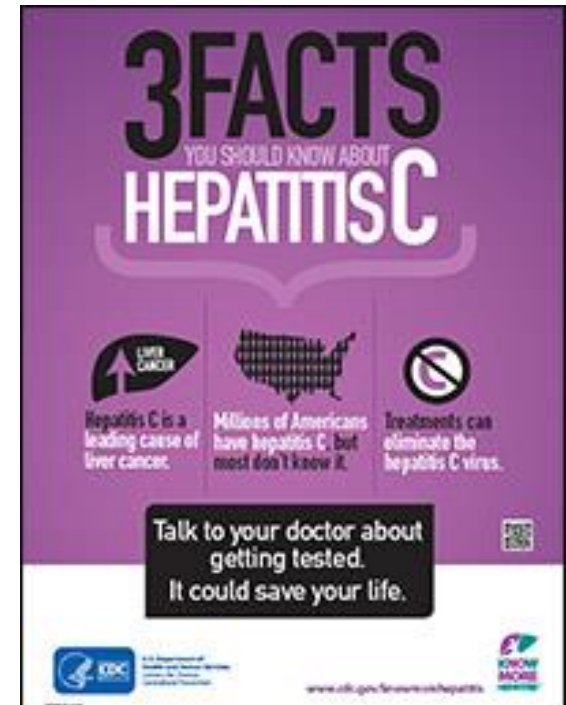
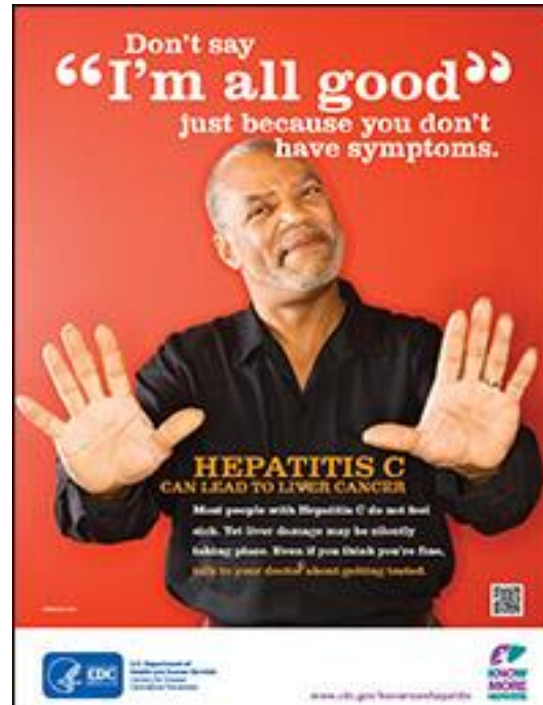
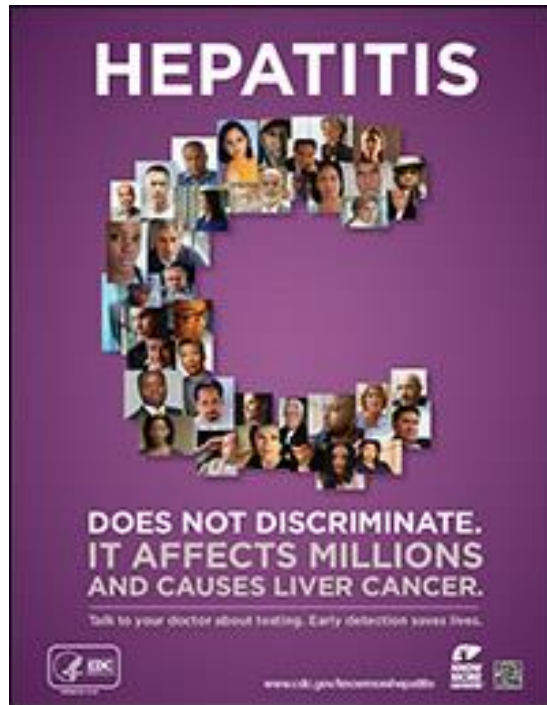
- **Hepatitis Awareness Day at the Capitol (March 16, 2015)**
- **Hepatitis Awareness Month (May)**
- **National Hepatitis Testing Day (May 19—First one in 2012)**
- **World Hepatitis Day (July 28)**
- **Liver Awareness Month (October)**





# kNOw More Hepatitis

- Hepatitis Prevention Campaign
- Posters, materials available free of charge
- [www.cdc.gov/KnowMoreHepatitis](http://www.cdc.gov/KnowMoreHepatitis)



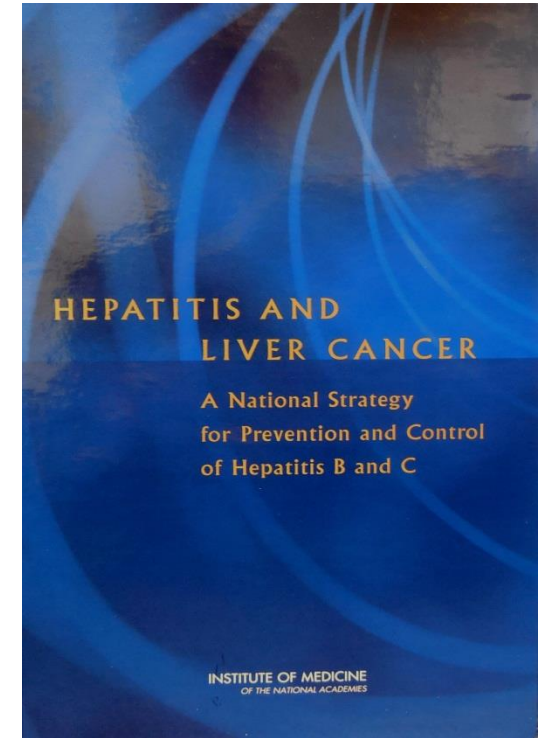


# Hemingway House, Key West



# **Institute of Medicine Report**

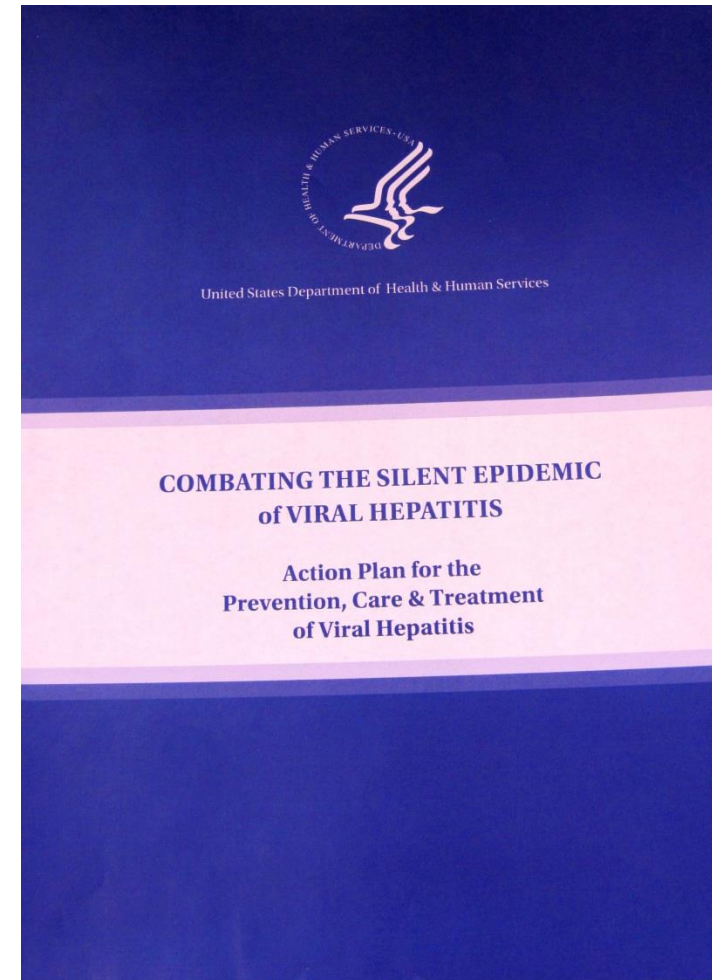
- *Hepatitis and Liver Cancer: A National Strategy for Prevention and Control of Hepatitis B and C*
- **Published in 2010**
- **Need strong surveillance**
- **Increase knowledge & awareness (public & health care workers)**
- **Vaccine availability**
- **Other services covering hep B & C**





# HHS Hepatitis Action Plan

- Updated Action Plan Released April 2014
  - Educate Providers and Communities
  - Testing, Care and Treatment
  - Surveillance
  - Vaccine
  - Reduce Hepatitis due to Drug Use
  - Health Care Associated Viral Hepatitis
- \*Follow up: Grants, funding**  
**Published April 2011 --**  
**Result of 2010 IOM**  
**recommendations**  
[cdc.gov/hepatitis](http://cdc.gov/hepatitis)



# **New & Improved!**

## **Florida Hepatitis Prevention Action Plan, 2015-2018**

- **Full circle: States to IOM Report to HHS Action Plan, back to states**
- **Florida's Plan (from "Comprehensive" to "ACTION"):**

**Goals (6)**

**Objectives (30)**

**Action steps (97)**

**Barriers, Gaps, Needs, Description of Hepatitis Prevention Program & VHC, etc.**





# Destin



# Thank You for Listening

## Contact Information

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