

# PREVAC A

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## **An evaluation of preventive Hepatitis A vaccination in risk groups** WONCA EUROPE ISTANBUL, SEPTEMBER 2008

# Recent Data on Hepatitis A (1)

*in the world*

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- Since 1980, epidemics among risk groups.
- Global incidence : 1.4 million/year
- Global mortality rate : from 0.3 to 2%, after 40 years old

# Recent Data on Hepatitis A (2)

## *in France*

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- Since 1992, vaccine is accessible (€40, not reimbursed)
- 2002: National Reference Center
- 2005: report is compulsory
  
- 2003: 7700 cases → 13/100,000 inhabitants
- 2006: 1313 cases → 2.15/100,000

# French Vaccination Guidelines

Travelers in endemic zones

Patients exposed in their work environment

Groups at risk of developing a severe disease:

- Carriers of hepatic chronic disease (alcohol consumption, HBV, HCV, cirrhosis)
- Men who have sex with men
- I.V. drug users

# Endpoints

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## □ Primary endpoint

- To assess the application of vaccination guidelines for Hepatitis A
- To pinpoint the impediments to their application

## □ Secondary endpoints

- To assess GPs' knowledge about Hepatitis A vaccination
- To assess usefulness of computer-based tool in primary care research

# Inclusion

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- Each investigator had to include consecutively the ten first adults he met in consultation with one of the following criteria:
  - Present HCV infection
  - chronic liver disease
  - History of nasal of IV drug use
  - Men who have sex with men
  - Present HBV infection

# Reference skill

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- Any people meeting one or more of the inclusion criteria should have been proposed an HAV serology and/or an HAV vaccination by his(her) GP.

# Method

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- ❑ Internet Audit of common practices among GP instructors of the Paris7 university. A special internet program was designed for the study
- ❑ Inclusion period : 7 Feb 2007 - 1 Jun 2007
- ❑ 19 investigators → 108 patients
- ❑ Final evaluation: HAV questionnaire
- ❑ Final information sheet : HAV in 10 bullet points



# Electronic questionnaire presentation

Quel est <i>l'âge</i> de votre patient?	<input type="text"/>
Quelle est <i>l'origine régionale</i> de votre patient?	<input type="radio"/> France Métropolitaine <input type="radio"/> DOM-TOM <input type="radio"/> Maghreb <input type="radio"/> Afrique subsaharienne <input type="radio"/> Asie <input type="radio"/> Autres
Quelle est le <i>niveau d'études</i> de votre patient?	<input type="radio"/> classe de troisième <input type="radio"/> BEP ou CAP <input type="radio"/> Baccalauréat <input type="radio"/> Etudes supérieures
<input type="button" value="valider"/>	

# Electronic questionnaire presentation

<p>Cocher le ou les <i>critères d'inclusion</i> de ce patient</p>	<ul style="list-style-type: none"><li><input type="checkbox"/> patient ayant utilisé des <b>drogues par voie nasale ou intraveineuse</b></li><li><input type="checkbox"/> homme ayant ou ayant eu des <b>relations homosexuelles</b></li><li><input type="checkbox"/> patient actuellement <b>porteur du Virus de l'Hépatite B</b></li><li><input type="checkbox"/> patient actuellement <b>porteur du Virus de l'Hépatite C</b></li><li><input checked="" type="checkbox"/> patient atteint d'<b>une affection hépatique chronique</b></li></ul>
<p>Ce patient est-il <i>porteur du VIH?</i></p>	<ul style="list-style-type: none"><li><input type="radio"/> <b>Oui</b></li><li><input type="radio"/> <b>Non</b></li><li><input checked="" type="radio"/> <b>Je ne sais pas</b></li></ul>
<p><input type="button" value="valider"/></p>	

Une **sérologie du VHA** a-t-elle été prescrite chez ce patient?

- Oui
- Non
- Je ne sais pas

valider

Une **vaccination contre le VHA** a-t-elle été **proposée** à ce patient (bien sûr, nous savons déjà qu'elle n'a pas été REALISEE, mais elle peut avoir été proposée!)?

- Oui
- Non
- Je ne sais pas

valider

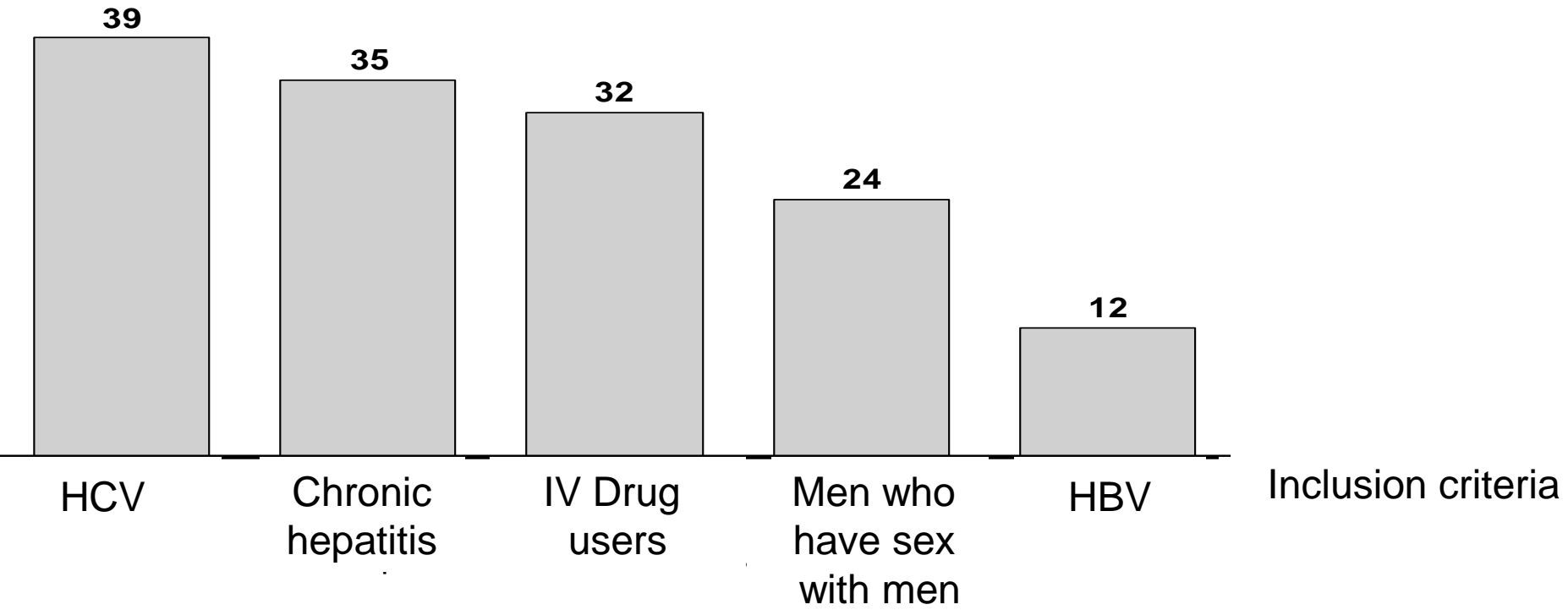
Quel est le **schéma vaccinal** qui a été conseillé (même s'il n'a pas été suivi)?

- 2 injections (à M0 et à M6)
- 3 injections (à M0, M1 et à M12)
- je ne sais pas

valider

# Results: inclusion criteria (n=108)

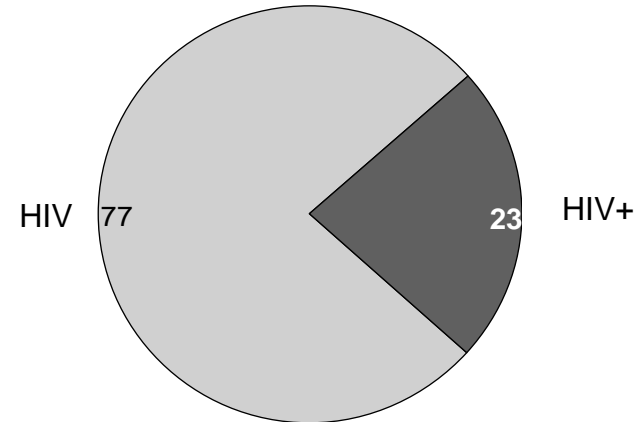
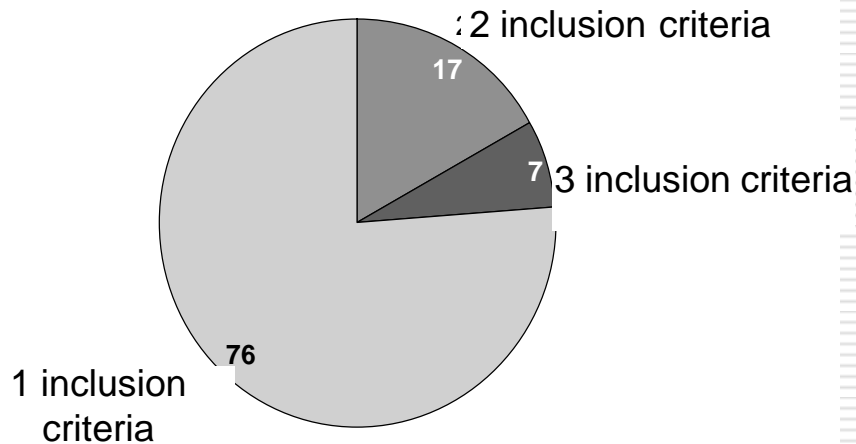
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# Results: patients

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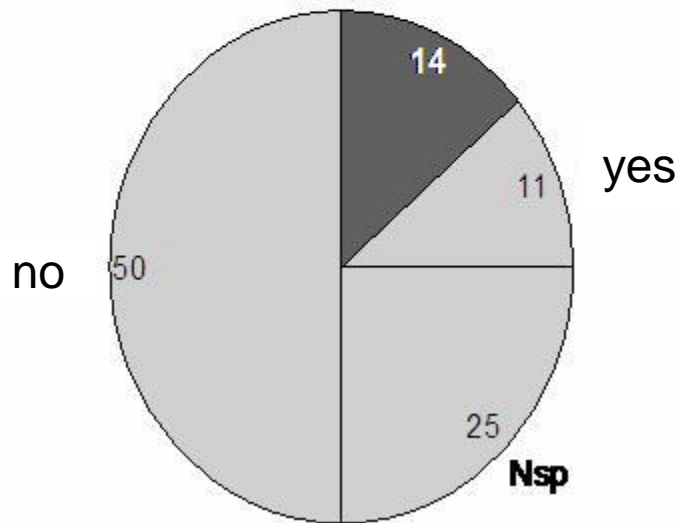
- 23 % were HIV +
- 24% met 2 or 3 inclusion criteria



# application of vaccination guidelines [1]

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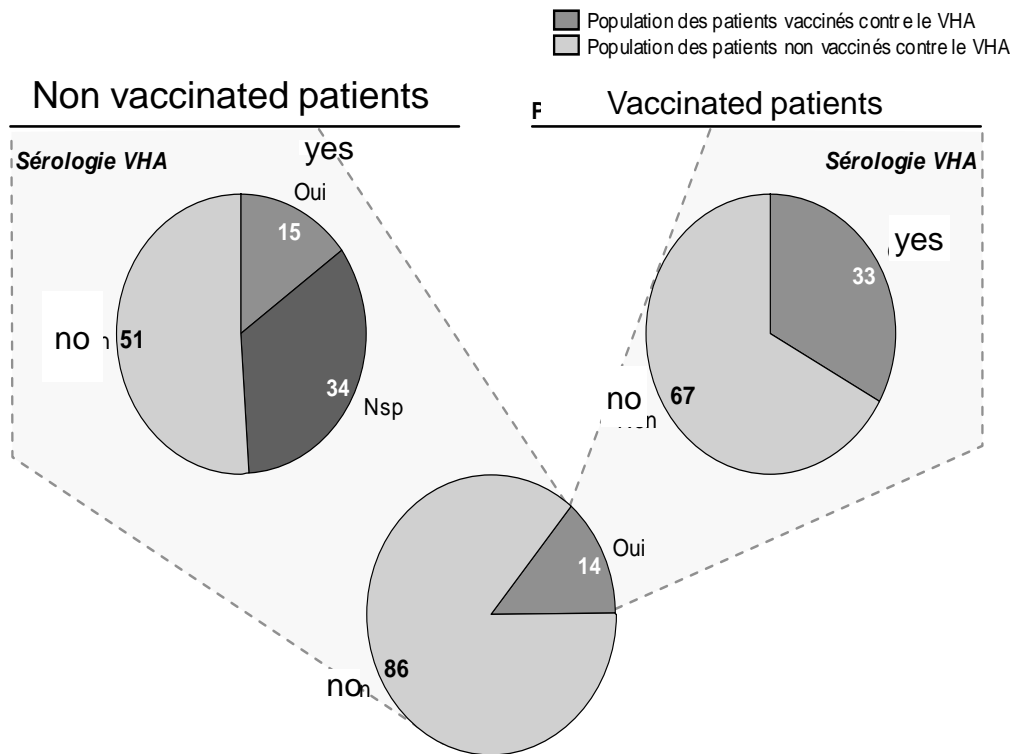
HAV vaccination



## Vaccination

- ❑ Carried out in 14% of included patients
- ❑ Proposed to 11% of non vaccinated patients

# application of vaccination guidelines [2]



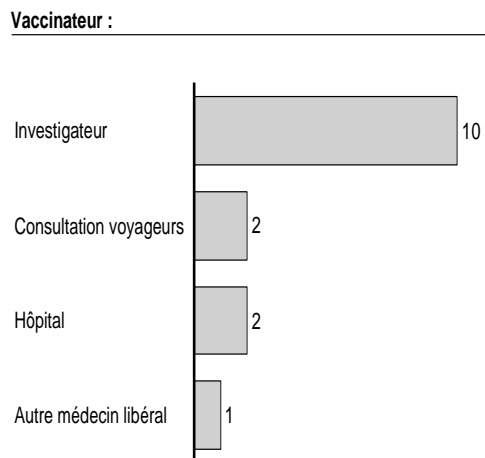
## Serology

- Prescribed to 18% of recruited patients
- 15% of non vaccinated
- 33% of vaccinated

# application of vaccination guidelines [3]

**GRAPHIQUE 13 :**

Nombre de patients vaccinés



- 3/4 of vaccinated patients had received vaccination from the investigator
- In 80% of cases, the vaccination pattern had been accurately followed



# application of vaccination guidelines [4]

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□ Profile of doctors who vaccinated their patients.

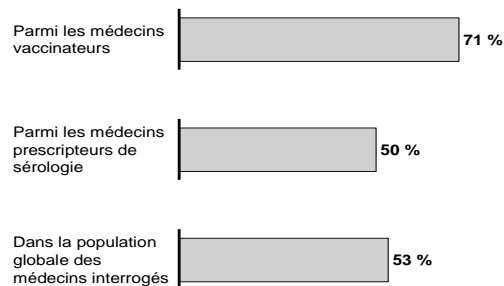
➤ 3/4 are interested in viral diseases

□ Profile of vaccinated patients

➤ 80% of vaccinated patients had a university level, versus 26% of non-vaccinated patients

➤ 60% are French

**GRAPHIQUE 16 :**  
Proportion des médecins intéressés par les virus



# The impediments

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- Financial reason:
  - 3/4 of patients refused vaccination for financial reasons
  - 3/4 of GP hesitated to propose vaccination for the same reasons
- Lack of interest in HAV vaccination

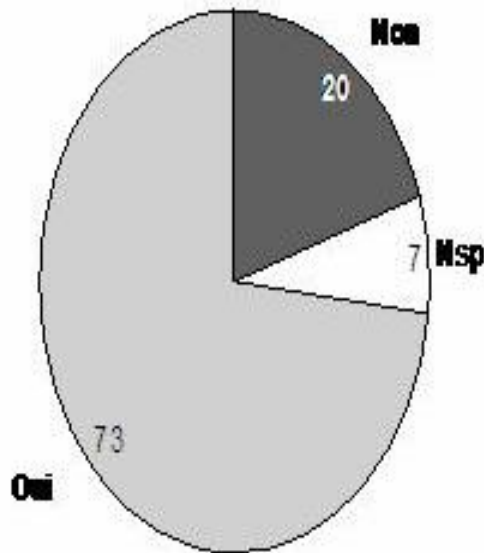
# The GPs' Knowledge

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- General practitioners don't have a thorough knowledge of these guidelines
- Their average score on the final knowledge evaluation was 49.5%

# Do GPs learn from the study?

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Through this survey, investigators' awareness of HAV vaccination has increased in 73% of cases.

# Conclusion

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- ❑ Hepatitis A vaccination guidelines were not followed
- ❑ Hepatitis A vaccination: a financial problem ?
- ❑ The use of online medical training can improve prevention in general practice.

# Discussion

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- ❑ 14.4% of questioned GPs participated
- ❑ Creation of an information booklet on HAV
- ❑ Coverage of the vaccination by medical insurance
- ❑ Development of guidelines for proper care of risk groups