Dermatologie et infections sexuellement transmissibles

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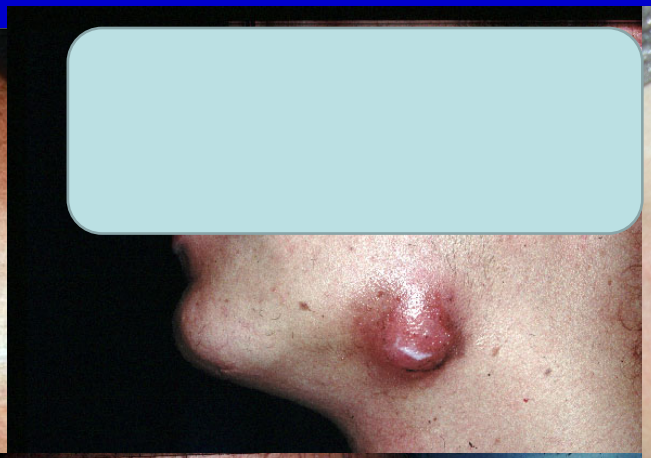
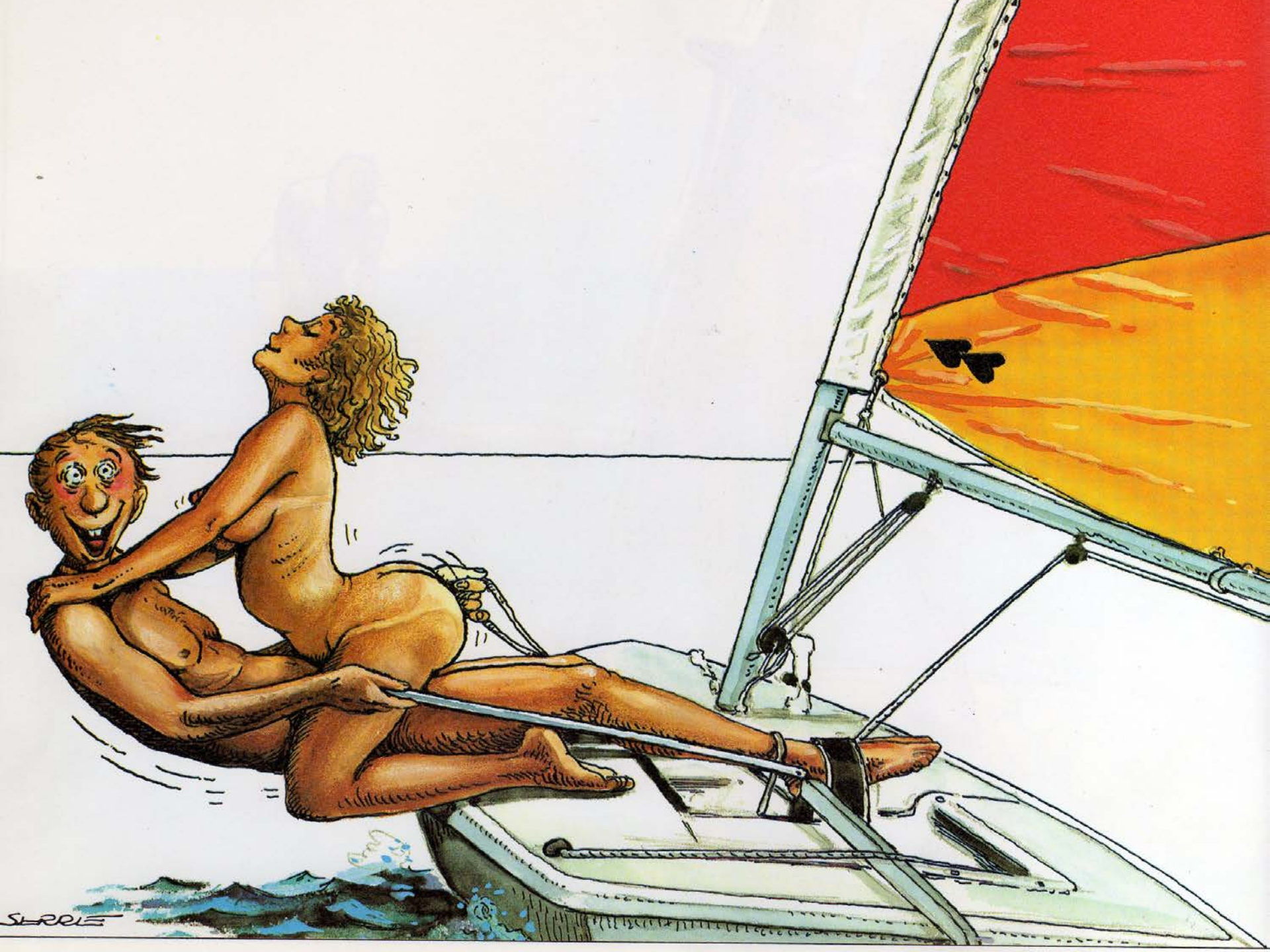


Potential links of Interests

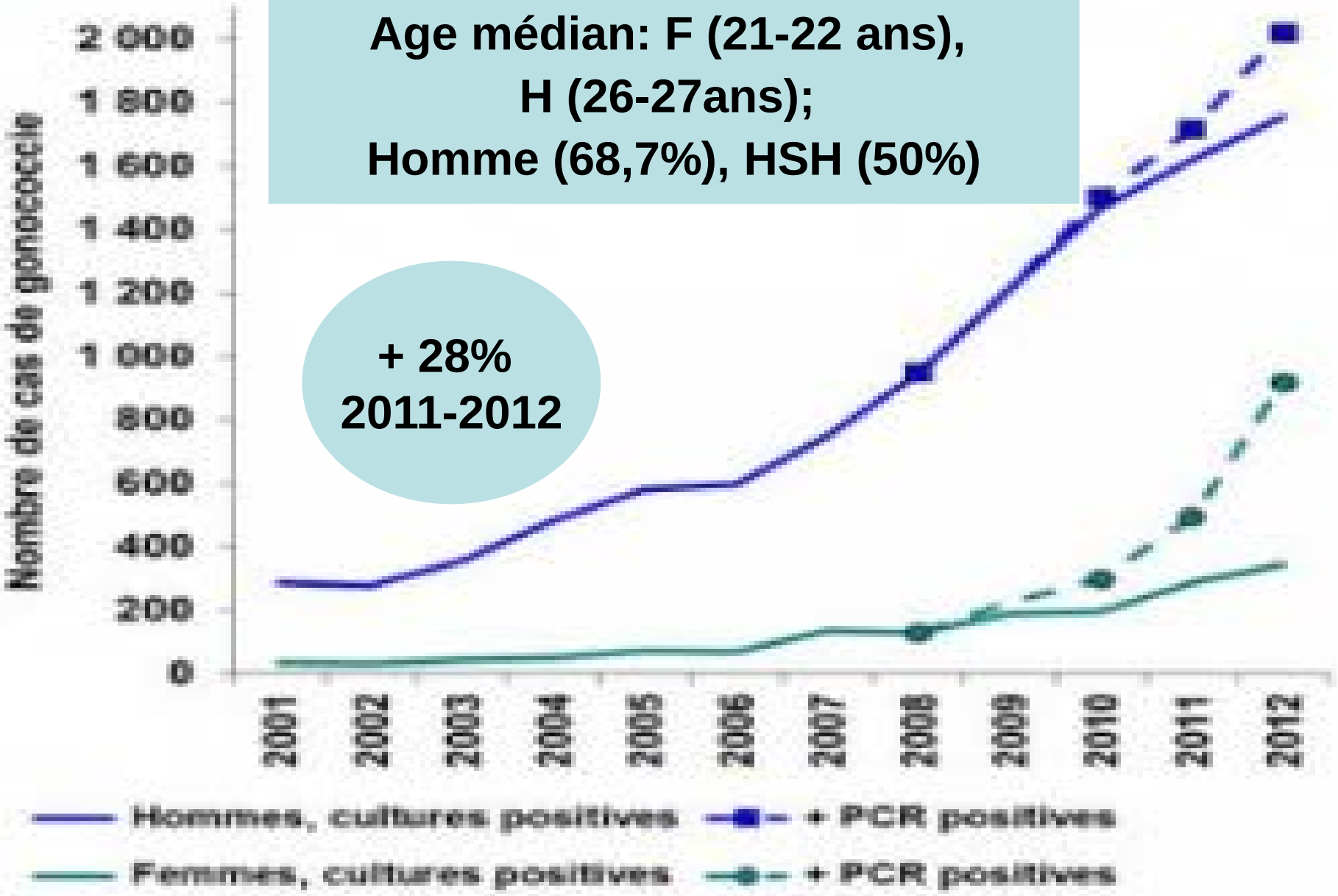
- In the past 2 years, I (or my department) have received honoraria from **BMS, Baxter, Galen** and **Codexial** for lectures on STDs and participation in advisory boards (TBE vaccine, KS, permethrin).

- I am the Editor in Chief of the **Journal of Travel Medicine** (IF = 1.47) (submission wellcome)

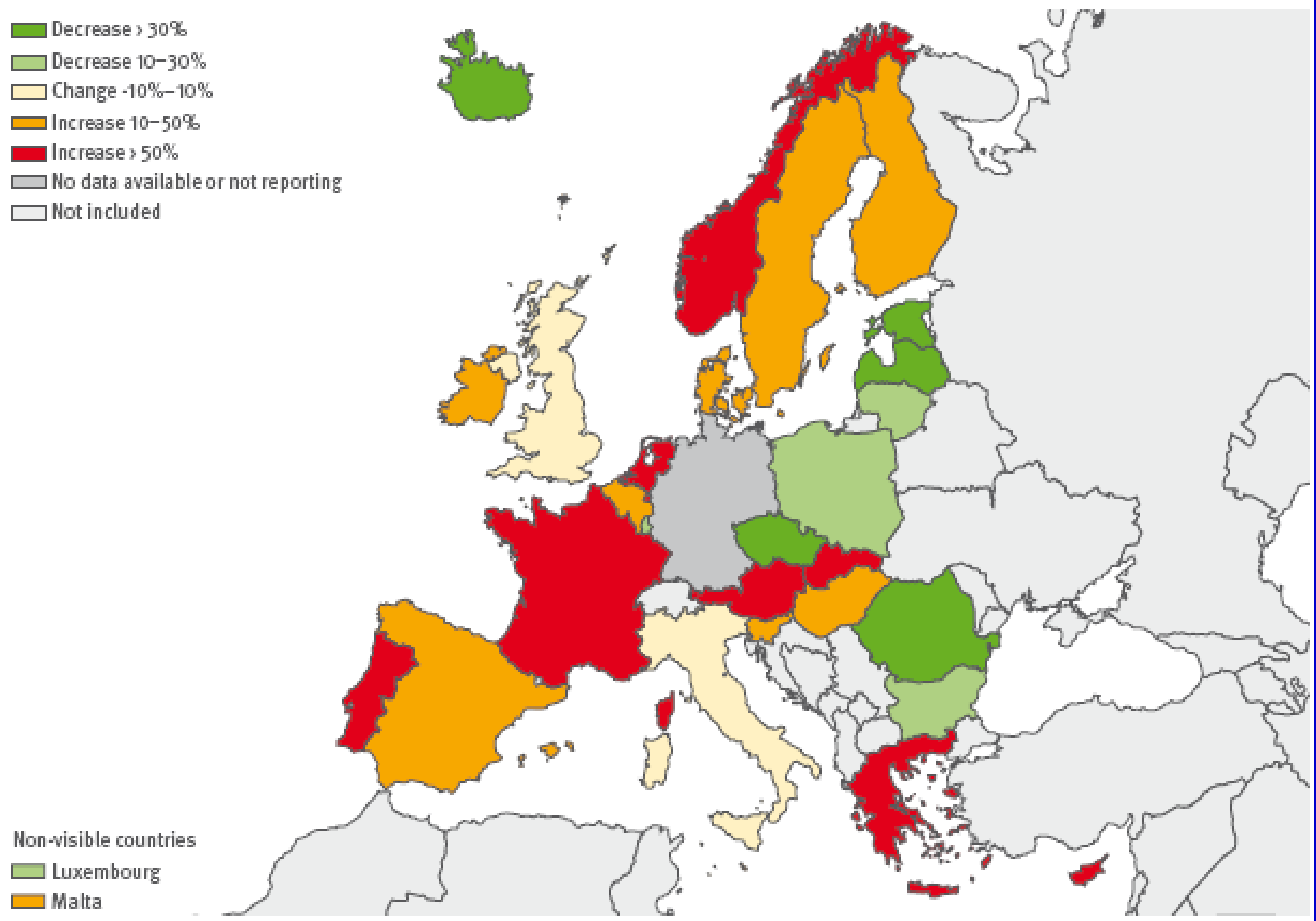

SHRODE

Age médian: F (21-22 ans), H (26-27ans); Homme (68,7%), HSH (50%)

+ 28% 2011-2012



Sednaoui.P. Rapports d'activité 2012 du CNR gonocoques



STI in Europe 1990-2010.Stockholm. ECDC, 2012

Épidémiologie des gonococcies en France

- **Co infection VIH**: 7%
- 14% HSH

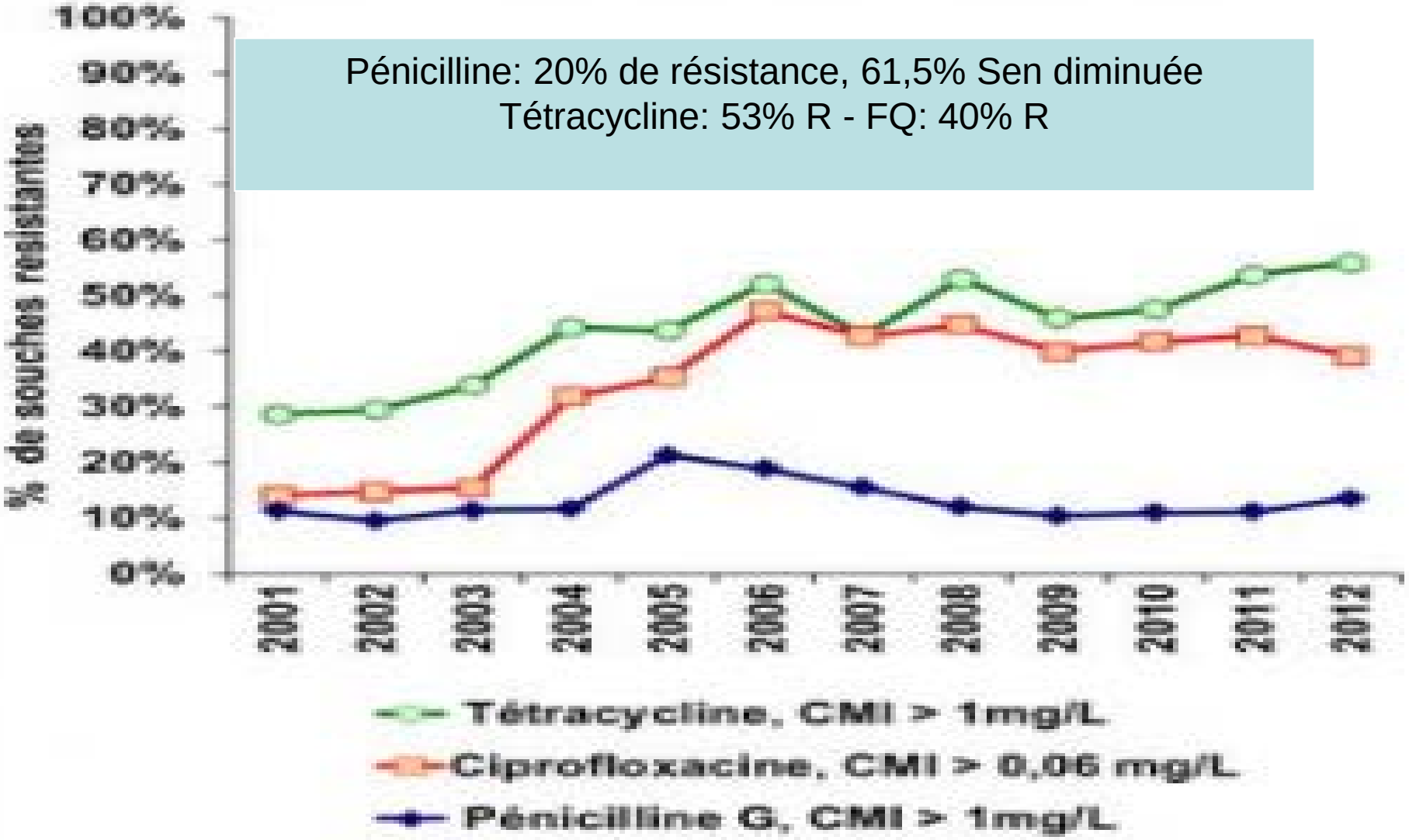
- **Localisation des gonococcies:**
  - urétrale (93,7% H), cervical (90,2%)
  - pharyngée (1.1%)
  - anale (3,4%H, 1%F)
- **Autres IST associées :** 40% chez les F , 16% H - *Chlamydia trachomatis* (33%), Syphilis (2%, HSH+)

- **Rapports sexuels non protégés**
  - 21% Relations Vaginales
  - > 95% fellation
  - 42% non systématiquement pour rapport anaux

Sednaoui.P. Rapports d'activité 2012 du CNR des gonocoques

Épidémiologie de la résistance en France

Pénicilline: 20% de résistance, 61,5% Sen diminuée
Tétracycline: 53% R - FQ: 40% R



Sednaoui P. Rapports d'activité du CNR des gonocoques 2012

Sexual transmission of HCV among monogamous heterosexual couples

- Cross-sectional study of 500 HCV + (HIV -, mostly non-Hispanic white, age 49 y (26-79 y), and their partners
- Median duration of sexual activity :15 y (2-52 y)
- HCV prevalence among partners : 4% - n=20 including 9 couples with concordant genotype/serotype and 3 (0.6%) with highly related viral isolates -
- Based on 8,377 person-years of FU, the maximum incidence rate of HCV transmission by sex was 0.07% per year (95% CI, 0.01-0.13) = 1/90.000 sexual contacts.

Terrault NA et al. Hepatology 2013; 57: 881-889.

Zika virus in Thailand and Polynesia

- 50 years old German, Nov 2013
- 12 days after returning from Thailand
- Dengue like sd
- Serologically confirmed

Tappe D. Eurosurveillance 2014;19:20685

- 2 Japanese, 20 and 30 years
- Dec.2013-janv.2014
- 6-10 days in French Polynesia
- 1 day after return in both
- Dengue like sd with Rash
- PCR confirmed

Kutsuma S. Eurosurveillance 2014;19:20685

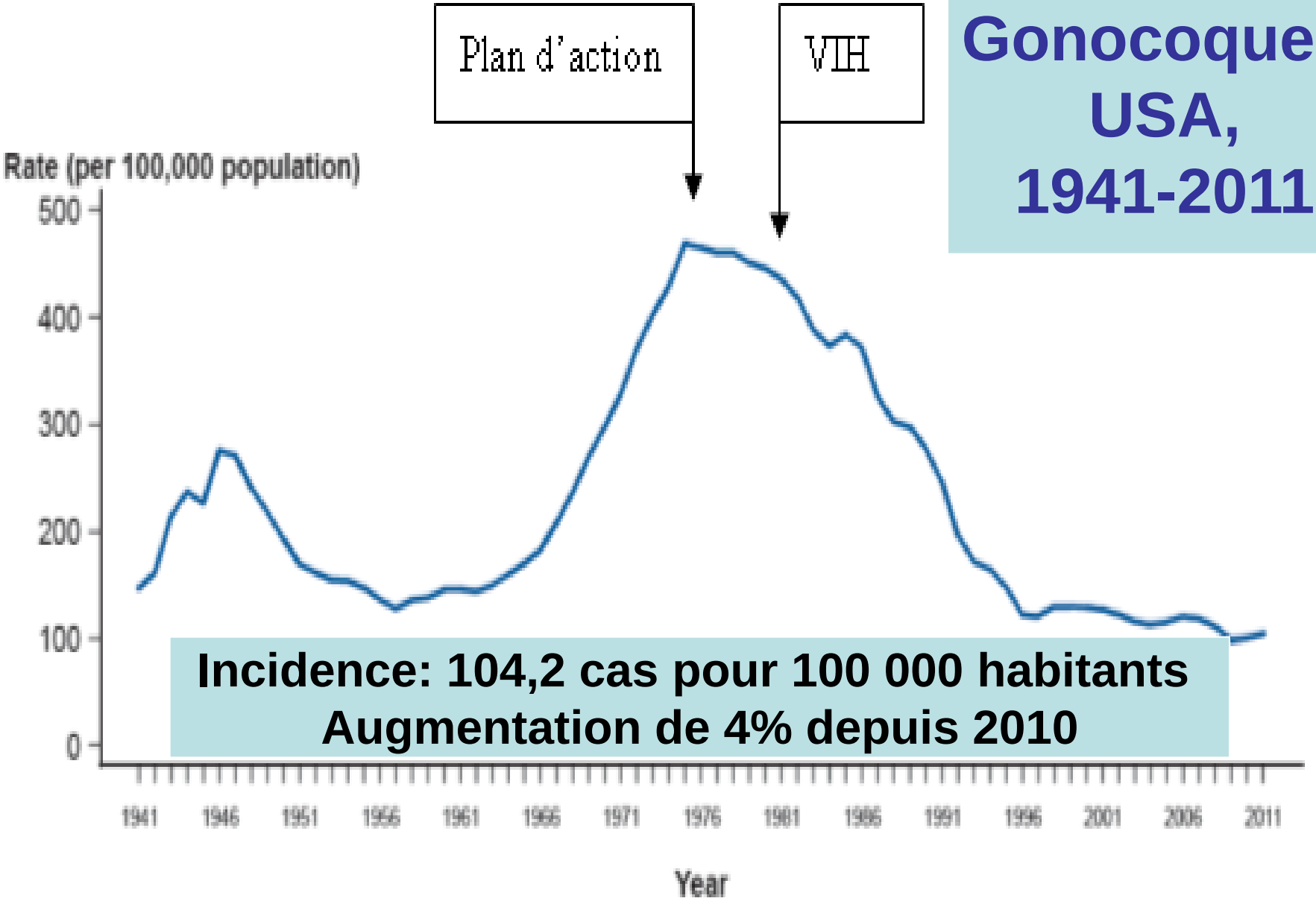
Sexual transmission of Zika virus

- Pts 1 and 2; Senegal, aug 2008 ;
- become ill 6-9 days > return
- Pt 3 (wife of pt 1) became ill 9 days after pt 1 return from Senegal and 4 days after felt ill (with hematospermia and lips erosions)

➔sexual transmission (day 1 after return) is the only possible way of transmission

Foy BD et al . Emerging Inf Dis 2011;17:880-882

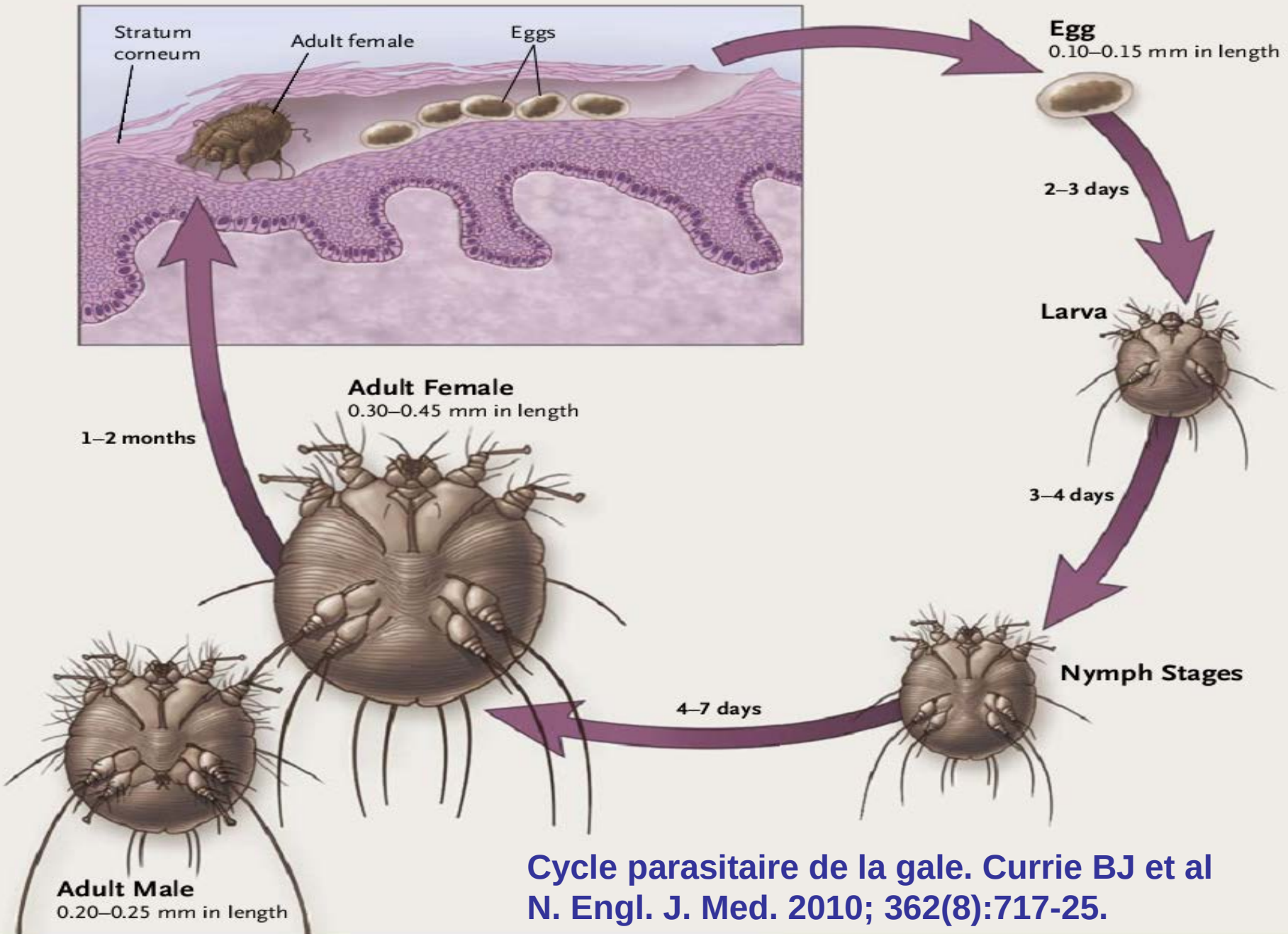
Gonocoques, USA, 1941-2011



Incidence: 104,2 cas pour 100 000 habitants
Augmentation de 4% depuis 2010

CDC. Sexually transmitted diseases treatment guidelines. 2010

Sarcoptes scabiei var. hominis - Acarien



Cycle parasitaire de la gale. Currie BJ et al
N. Engl. J. Med. 2010; 362(8):717-25.

Un 2eme traitement apparaît nécessaire pour trois raisons

- Différents produits topique ou per os inefficaces sur les œufs +/- formes larvaires immatures ;
- Taux de succès Tt unique insuffisants (S2)
- Les anglo-saxons utilisent la perméthrine, anti-gale de référence dans leurs pays, en traitement renouvelé une semaine plus tard.

=> La durée recommandée entre 2 traitements PO ou 2 applications pourrait être d'une semaine (voire plus courte en cas de traitement local).

HCSP - Commission Specialisée Maladies transmissibles. Recommandations relatives à la conduite à tenir devant un ou plusieurs cas de gale. 2013

Ivermectine (une dose*) et gale, Une saga iranienne I, 2012-2013

1. Vs **Lindane** (Goldust M. Ann Parasitol 2013;59:37-41)
2. Vs **Lindane** (Mohebbipur A. Clin Exp Dermatol 2013;38:719-723)
3. Vs **Crotamiton** (Goldust M. Cutan Ocul Toxicol 2013;feb 25)
4. Vs **Lindane** (Mohebbipur A. Acta Dermato Venerol Croat 2012;20:251-255)
5. Vs **permethine** 5 % (Goldust M. J Dermatol 2012;39:545-547)
6. [Vs Sulfur ointment (Goldust M. J Cut Med Surg 2013;17:299-300)]

*** Deux doses >> 1/3 des cas**

(Single) dose ivermectine in scabies

Author	Goldust	Mohebbipur	Goldust	Mohebbipur	Goldust
Vs	Lindane (x2)	Lindane (x2)	Crotamiton	Lindane (x2)	permethrin
N=	400/2	148/2	320/2	248/2	242/2
Cure rate W2	**63%**	**60%**	**62%**	**58%**	**85%**
W4*	**81%**	**89%**	**87%**	**92%**	**NE**

*** After repeating Treatment with ivermectin at W2**

Permethrine et gale
Une saga iranienne II, 2012-2013

1. **Permethrin 2,5 % vs topical ivermectin** (Goldust M. Ann Parasitol 2013;59:79-84)
2. **Permethrin 2,5 % vs Tenutex emulsion** (Goldust M. Ann Parasitol 2013;59:31-35)
3. **Permethrin 5 % vs Lindane 1 %** (Goldust M. J Dermatol Treat 2013;jan20)
4. **Permethrin 5 % vs ivermectine** (Goldust M. J. Dermatol 2012;39:545-547)

Permethrin (2,5-5%) cream in scabies (D0-7)

Author	Goldust	Goldust	Goldust	Goldust
Vs	Top Ive	Tenutex	Lindane	Oral IVE
N =	380/2	440/2	220/2	242/2
Cure rate W2	**65%**	**63%**	**83%**	**92%**
W4	**89%**	**86%**	**96%**	**NE**


ANOFEL

Oil product vs dimeticone vs insecticides pour les poux de tête

	Oil product	Suffocation	Insecticide
Composition	Tea tree oil Lavender O	White opaq lotion	Pyrethrin pyperonyl
Application	J- 0,7,14	J- 0,7,14	J- 0,7
Cure rate* ITT	41/43 95%	40/45 88%	10/44 22%
Cure rate* **PP**	**41/42** **97%**	**40/41** **97%**	**10/40** **25%**

* : $p < 0.0001$

Barker SC et al. BMC Dermatology 2010, 10:6

Poux de tête: 4% dimeticone liquid gel vs 1% permethrin creme X 2

Produit	4% dimeticone	1% permethrin
Cure rate D 14* ITT	30/43 69%	7/47 14%
Cure rate D 14 **PP**	**27/35** **77% ***	**7/45** **15%**
Inhibition of egg hatching*	ITT : 74% PP : 85%	ITT : 10% PP: 12%

* : $p < 0.0001$;

** : **inadequate spreading of the liquid gel**

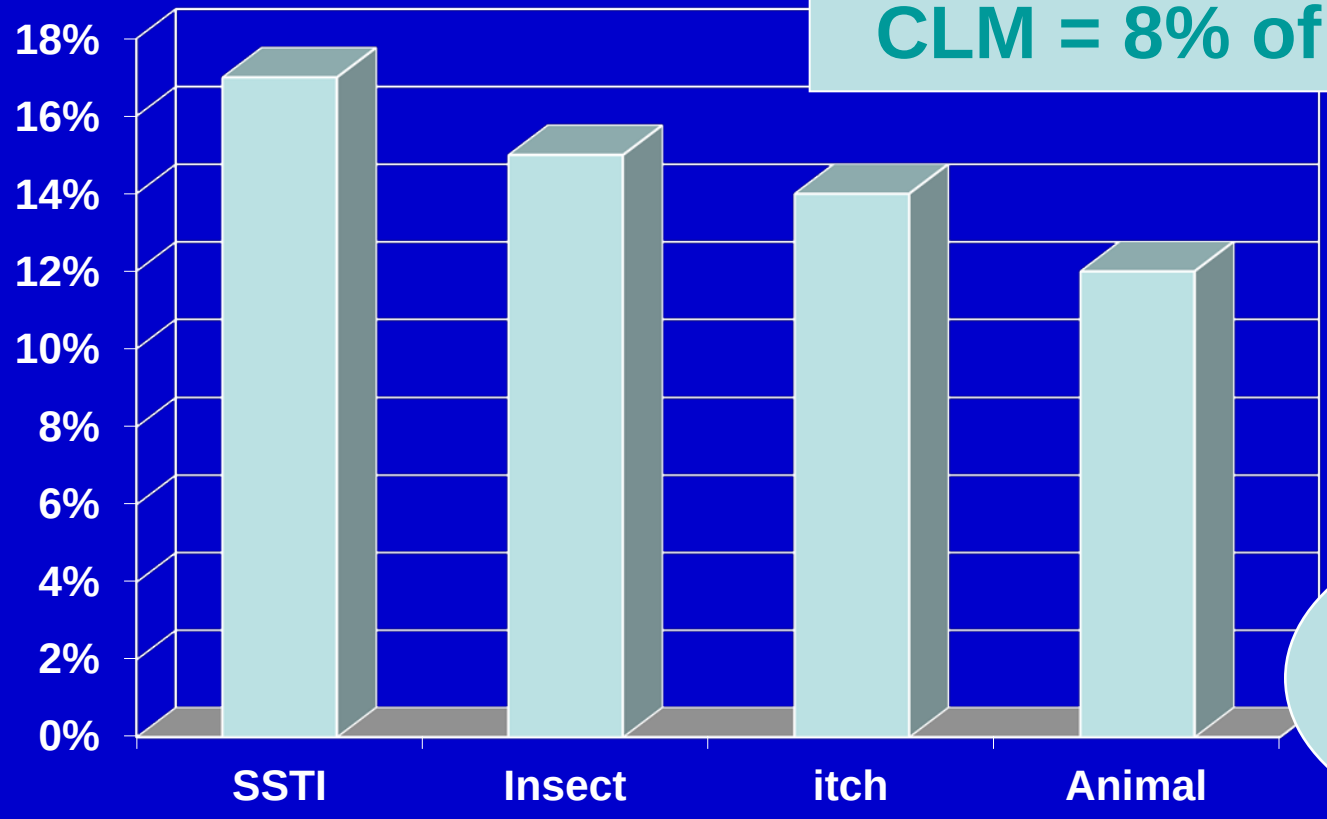
Burgess et al. BMC Dermatology 2013 13:5.

Burgess et al: 4% dimeticone liquid gel vs 1% permethrin creme. BMC Dermatology 2013 13:5.

1) a single application of 4% dimeticone liquid gel is effective to eliminate head louse infestation
2) the higher viscosity of this product allows this to be achieved using a treatment time of 15 minutes.
3) However, as with all treatments, it is possible to miss some louse eggs during treatment, requiring post treatment vigilance for emerging nymphs more than 7 days after treatment.

Dermatoses in 8.227 ill travelers (19%), GeoSentinel, 2007-2011

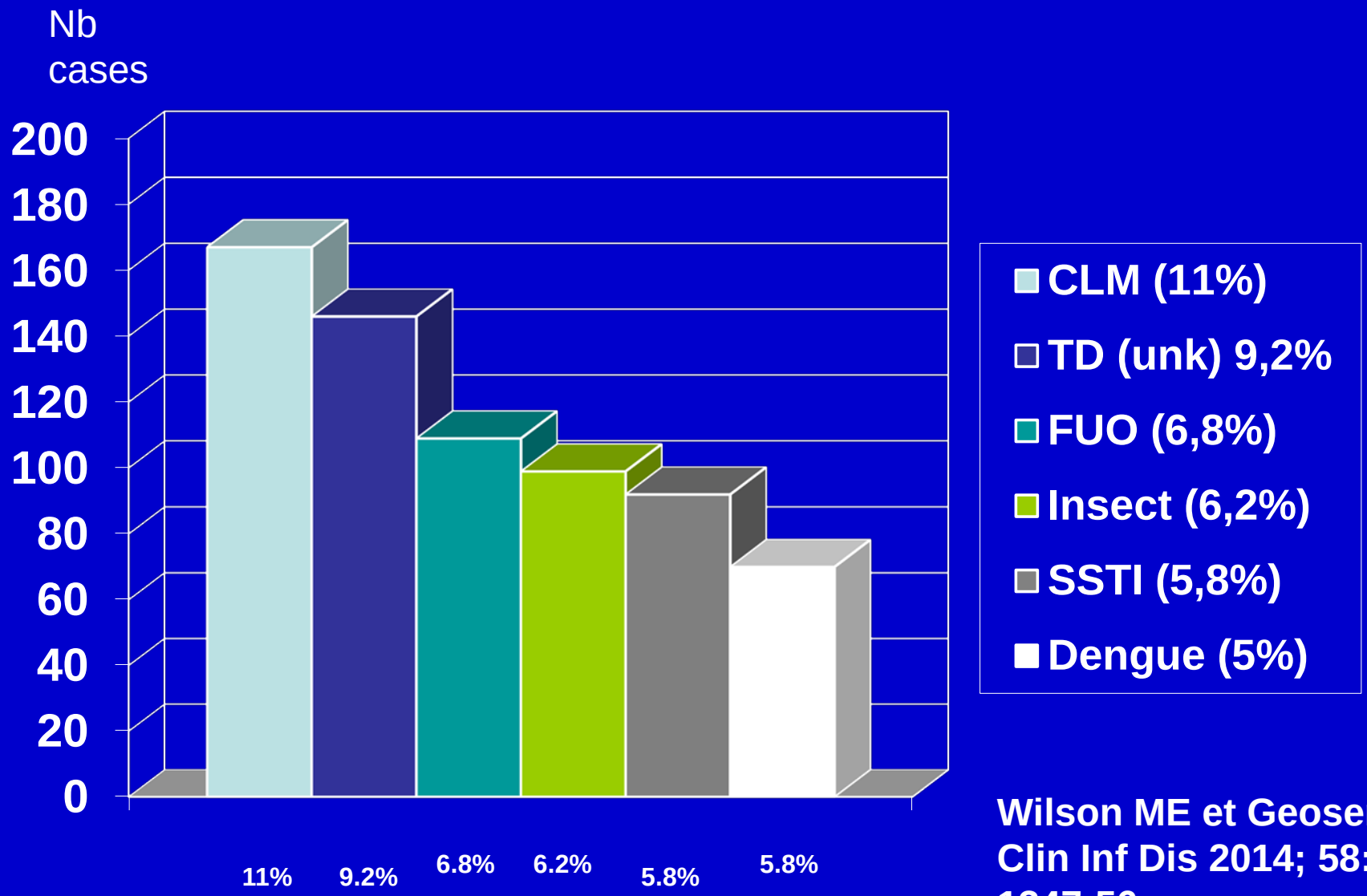
Rabies PEP required in 12%
CLM = 8% of all skin pbs



Sentinel

Leder K et al. Ann Intern Med 2013; 158: 456-468

Top diagnoses in 1586 travellers /Brazil Geosentinel – 7/1997-05/2013



Wilson ME et Geosentinel. Clin Inf Dis 2014; 58: 1347-56


Merci pour votre attent