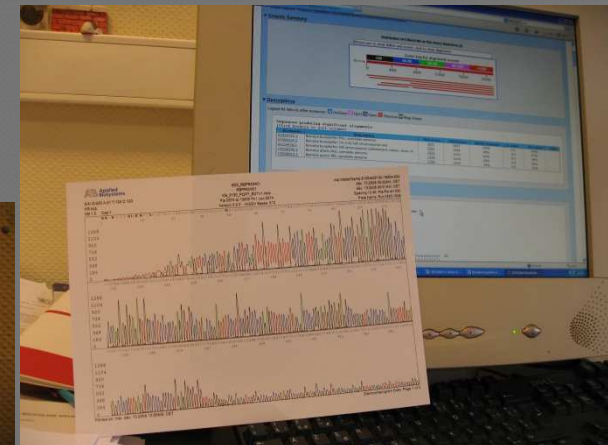
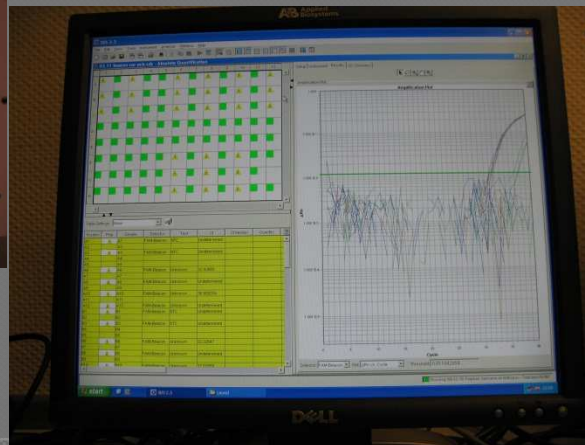


Molecular analysis

- In case of non growing pathogens (recent AB)
- In clinically inapparent infection

PCR amplification



COST EFFECTIVE:2 SITUATIONS

○ *SYNOVECTOMY*

Hospitalisation:21 days
Cost:3500 euros

Vancomycine

15mg/kg every 8-12h
→2,4g/day for a pat.80kgs
→35 euros/day.

○ *Two Stages Exchange*

Hospitalisation:26 days
Cost:3200 euros

9000 euros

12200 euros

Revision Prosthesis

5000 euros



No retention of the implant: two stages exchange

- Recurrent infection of two stages revision
Haddad, Br JBJS 2000 : 9%
Bose WJ, Cl Orthop 1995 : 20%
Segawa, A JBJS, 1999 : 5 to 15%
Co-morbidity factors !
- But lack of randomized clinical trials (with two and one stages)
- Medium term follow up (reinfection risk, ...)

Algorithm: is the patient a candidate for an operation?

- NO: Suppressive treatment (arthroscopy)
- YES: hematogenous infection or joint implanted < 2 months, symptoms present < 3 weeks → Open debridement with retention and antibiotherapy.

≥ 2 months → aspiration (white blood cells, cultures,) and (one) or two stages exchange and antibiotherapy.

Prevention of Infection

- Draining
- Soft tissue coverage
- Change the blade after the skin incision
- Change the gloves after draping
- Avoid excessive anti-coagulation
- A-B Prophylaxy(Cefazoline=first choice)
- Determining pre-operative carrier MRSA
- Intraoperative measures:negative pressure,traffic in the op.room.....

Prevention of Infection



Prevention of Infection



Prevention of infection



Care of the MRSA-Colonized Patient

- Economic challenge
- Pre-surgical S.aureus screening !nursing homes, farmers,.....

Nasal carriers are high risk of Nosocomial Infection(3-6 times more than non carriers)

- Home Decontamination
- Choice of preoperative A-B prophylaxie (Vancomycine 1g 60min before inc...)
- Special cleaning to avoid cross contamination.....

Future Perspectives

- Molecular diagnostic techniques(type 1) and refinement of labo studies.
- Research towards the prevention of biofilm formation(Antibiotic-coated implants) and sonication on removed implants...
- Decrease length of stay(preventing oxacilline resistant infection).
- 2-stage vs 1-stage studies.
- Centralization of the informations.

Unresolved issues



- Cement with AB!
- AB 6 vs 12 weeks for early infection
- 2 stages vs one stage for chronic Infection
- Spacer 6 weeks?
- Prophylaxis for dental or o.proced.

QUELQUES MINUTES DE NOTRE TEMPS PEUVENT
COÛTER DES MOIS OU DES ANNEES AU PATIENT.....



Car **peu de défense locale**, car on place **un corps étranger**, et... que notre **chirurgie** est **fonctionnelle**, non vitale. Au genou, il y a peu de protection tissulaire entre l'implant et la peau, donc.....