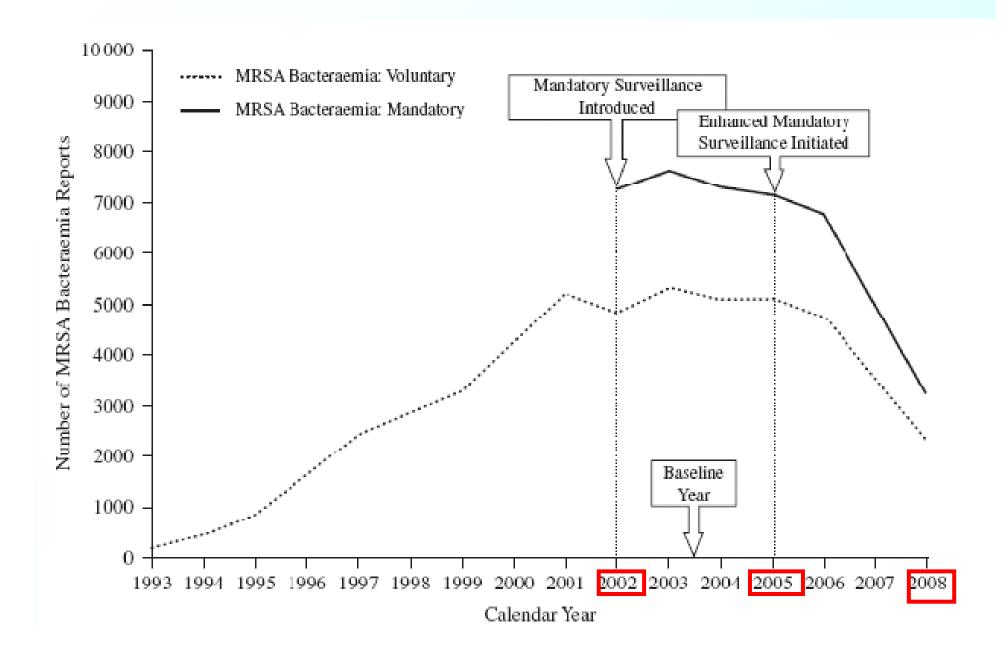
MRSA Screening and Decolonisation UK Experience

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MRSA bacteraemia reports : England 1993-2008



"microbiological screening must include all elective admissions to an acute trust irrespective of length of stay (but excluding a few patient categories as listed below)....MRSA colonised or infected patients should have effective decontamination and inpatients must be promptly identified and nursed in an appropriate isolation facility eg a side room or cohort bay."

Source:

DH Screening for MRSA colonisation – a strategy for NHS Trusts: a summary of best practice (July 2008 and DH Gateway Refs 10324 and 11123)

East of England Strategic Health Authority Operational Guidance (2008)

MRSA screening in UK

- On selected patients/areas based upon local risk assessment
- Those at high risk for MRSA carriage on admission (exception: direct isolation with no plan for clearance)
- Screen before elective admission
- Regular (e.g. weekly) screening of all patients on high-risk units
- At least 3 screens at weekly intervals before considered to be at low risk
- Subjected to regular audit & review, made available to management

Source: Guidelines for the control and prevention of MRSA in healthcare facilities – JHI 2006

Exclusions for screening

- Minor dermatological procedures
- Day case
 - Ophthalmology / dental / endoscopy / colonoscopy / sigmoidoscopy / radiological procedures
 - Hysteroscopy / termination of pregnancy/
- Maternity/obstetrics (except elective caesareans and any high risk cases)
- Children/paediatrics (unless in a high risk group)
- Repeat attenders (not every admission)

Sites to be screened

- Multi-site MRSA screening swabs
 - Nose, throat and perineum / groin (plus, umbilicus of neonates)
 - Any wounds, ulcers, pressure sores and intravenous or dialysis access sites +/- catheter urine (CSU)
 - The sites should be swabbed using separate swabs

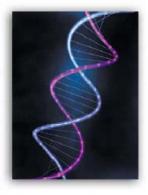
MRSA screening





Conventional culture
Take days







Molecular testing

Take hours

MRSA decolonization therapy (5-7 days)

- Usually commenced immediately to eradicate the organism or, at least, reduce the patient's load of MRSA, to reduce the risk of transmission
- If acute MRSA infection is present, start decolonization therapy only after:
 - 1. Completion of antimicrobial therapy and
 - 2. Removal of infected source if present, e.g. indwelling catheters (urinary, vascular), tracheostomy tubes, implants or other foreign devices

MRSA decolonization

- Around 50-60% effective for long term clearance
- Normally only two attempts of decolonisation to be undertaken to prevent risk of resistance
- Beware of skin irritation. The use of emollients may be useful.
- Bed linen, towels and night wear should be changed daily throughout the treatment period
- Repeat MRSA screening swabs 48 hours after completion of treatment

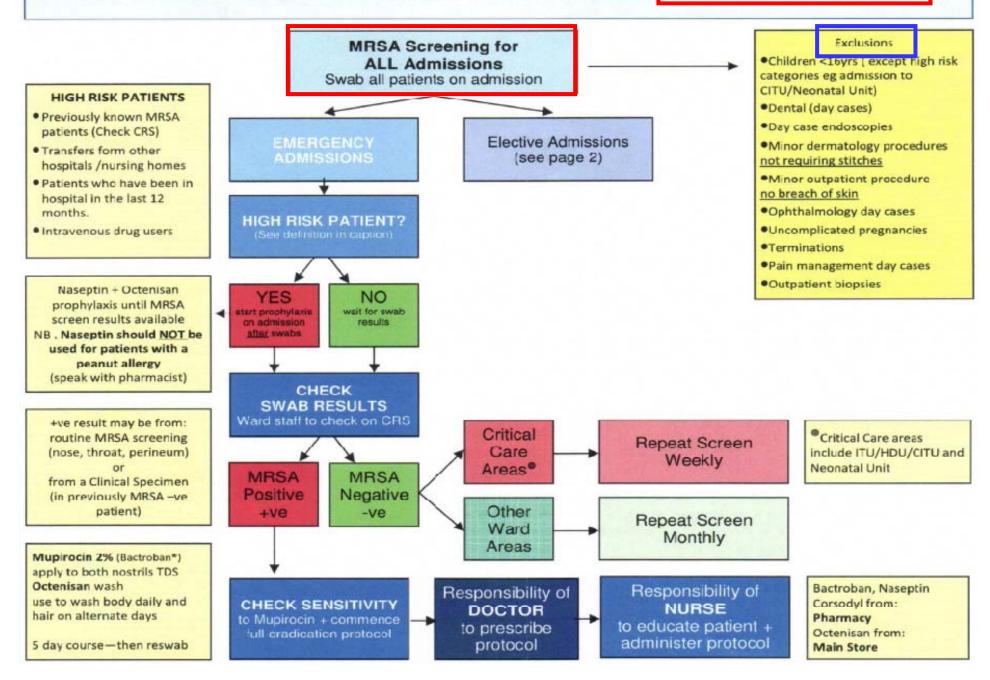
Decolonization



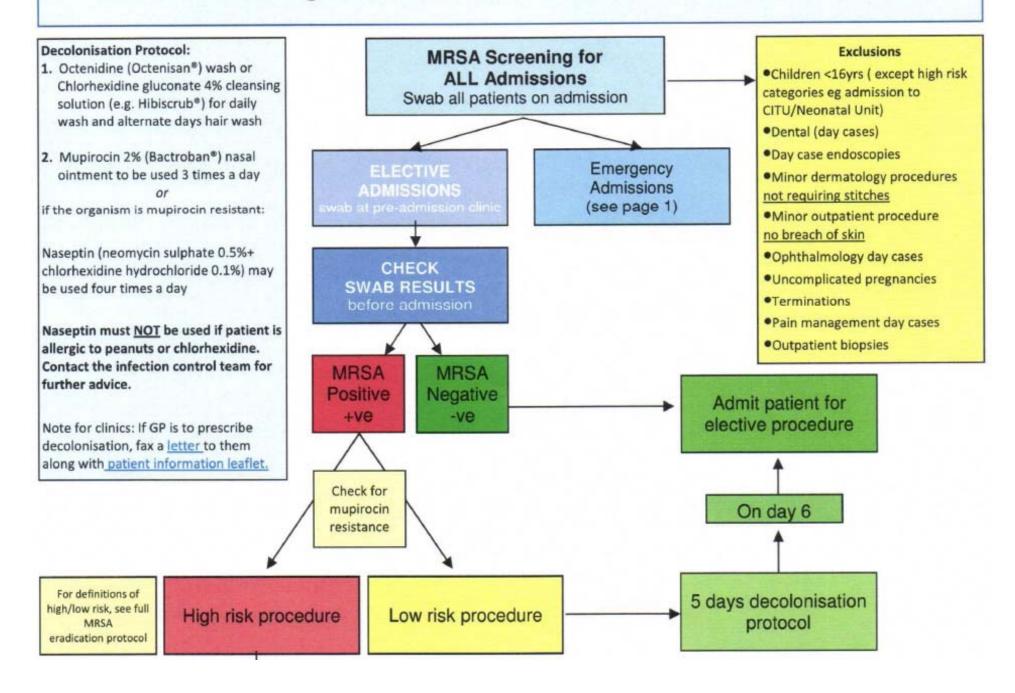
- Nasal decolonization (mupirocin 2%)
 - Taste mupirocin at the back of the throat after application
 - Not for >2 courses (risk of resistance)
- Skin decolonization
 - 4% chlorhexidine body wash/shampoo, 7.5% povidone iodine or 2% triclosan
- Systemic treatment
 - In conjunction with nasal mupirocin and skin decolonization
 - Seek advice from microbiologist, appropriate monitoring [e.g. LFTs], restricted to 1 course

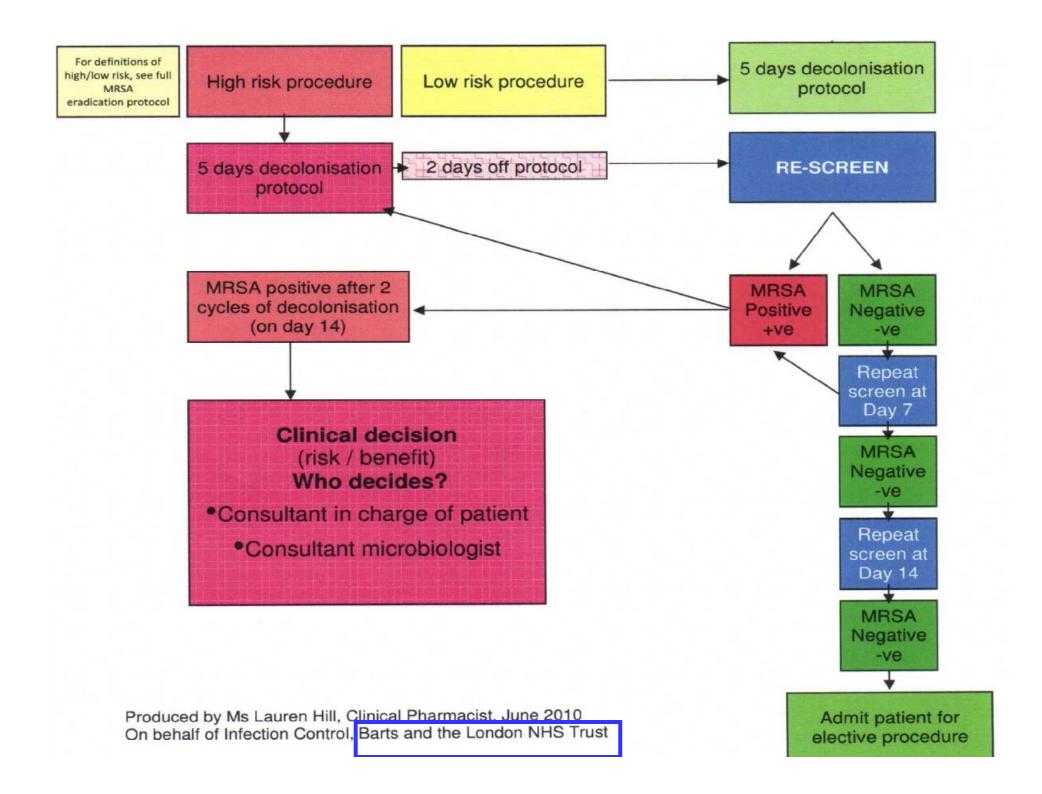
Source: Guidelines for the control and prevention of MRSA in healthcare facilities – JHI 2006

MRSA Screening and Eradication Protocol For Emergency Patients



MRSA Screening and Eradication Protocol For Elective Patients





Summary of MRSA control strategies in UK

- Commitment from government & hospital management
- Target for action (Number of HAI MRSA B'emia)
- Additional resources
- Appoint director for prevention and control of infection
- Attention to environmental hygiene
- Infection control dash reports, regular audit meetings attended by all dept heads and management
- Hand hygiene audit (target at 95%)
- RCA & action plans for MRSA B'emia cases
- Financial penalty, hospital pull down or re-organisation

Thank You