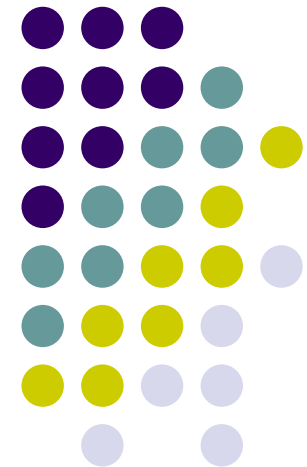


Reversing the Trend

a. Changing services and practice

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There are two main issues

- Acquisition of MRSA
 - Preventing transmission leading to colonisation
 - Occurs in Hospital and Community
- Acquisition of bacteraemia
 - Not all MRSA patients experience bacteraemia
 - MRSA does not spontaneously generate in the bloodstream
- What is the trigger event that facilitates bacteraemia?



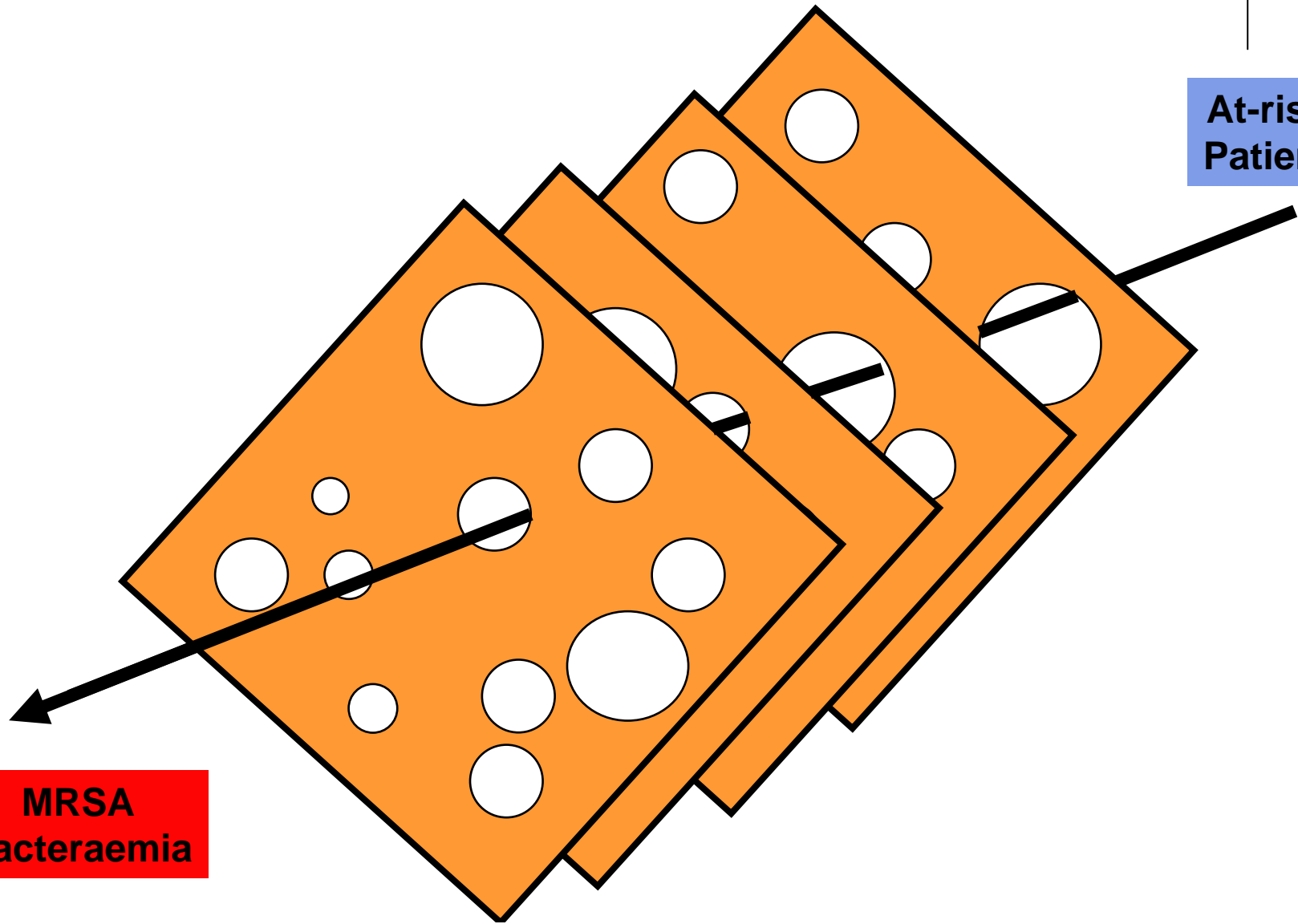
How does RCA Help?

- Improvement is impossible without it
- Target actions must be aimed at something
- Needs 'buy-in' from the whole team
 - Sometimes more difficult in non-acute hospital settings

RCA helps to look for the holes

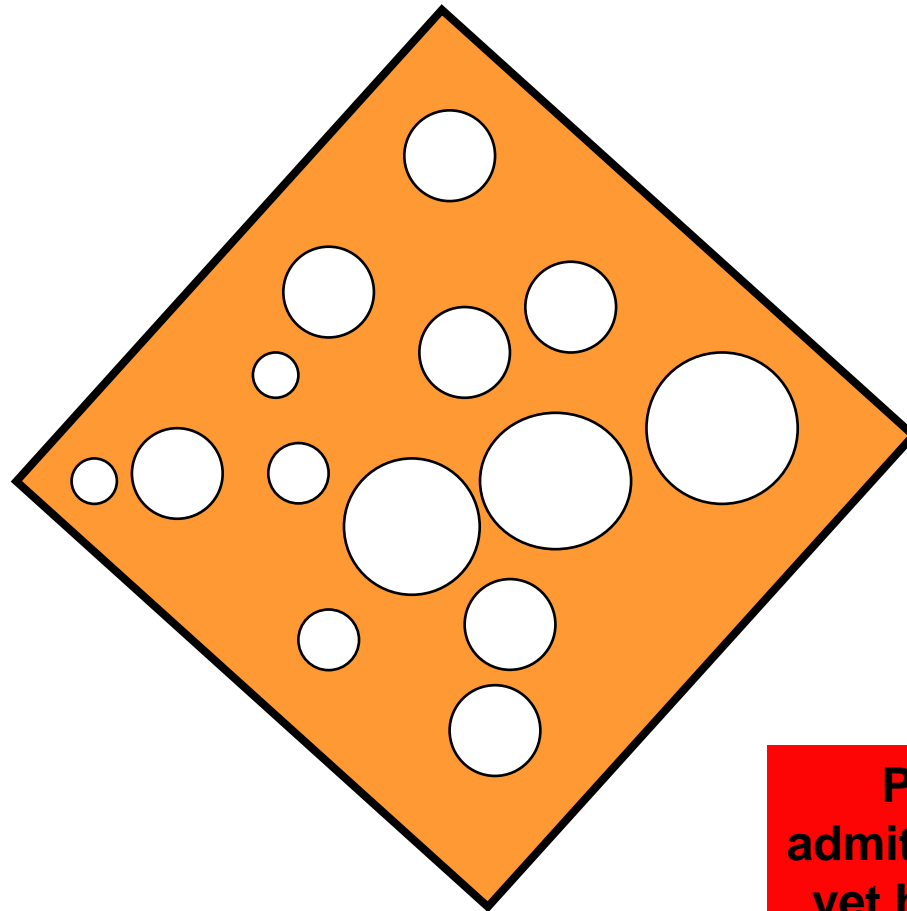
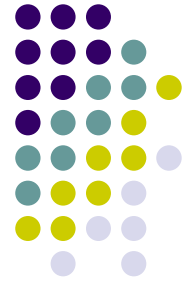


At-risk Patient



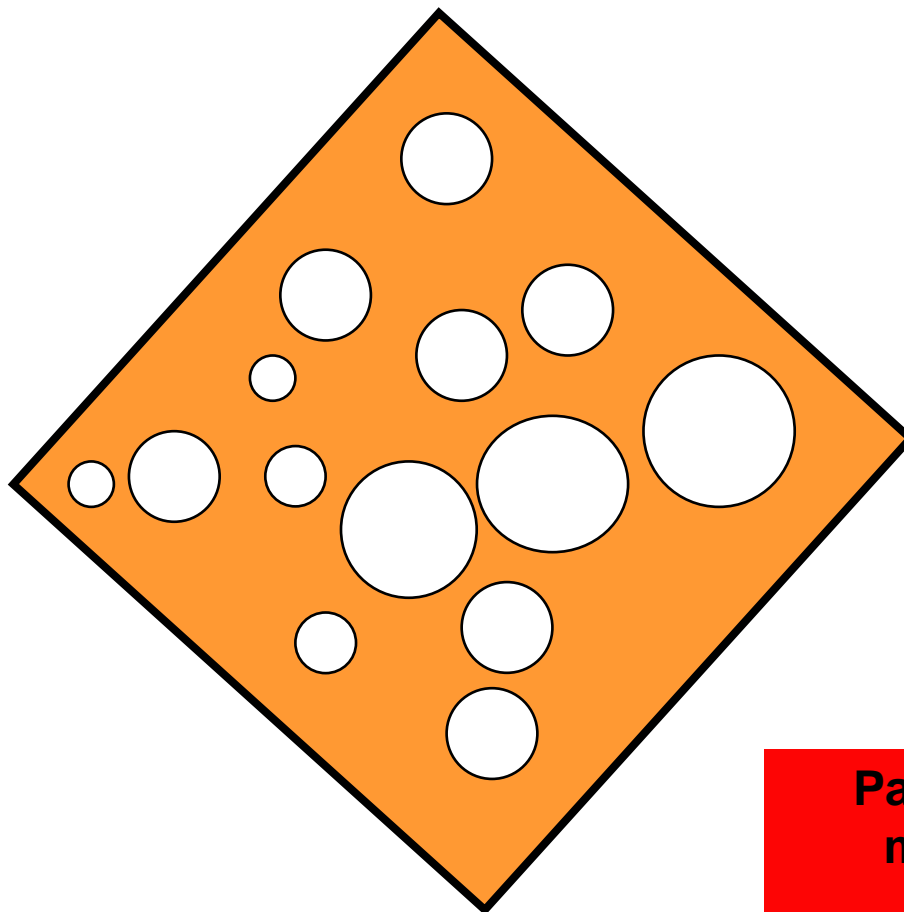
MRSA Bacteraemia

Screening of all Patients admitted from Nursing Homes



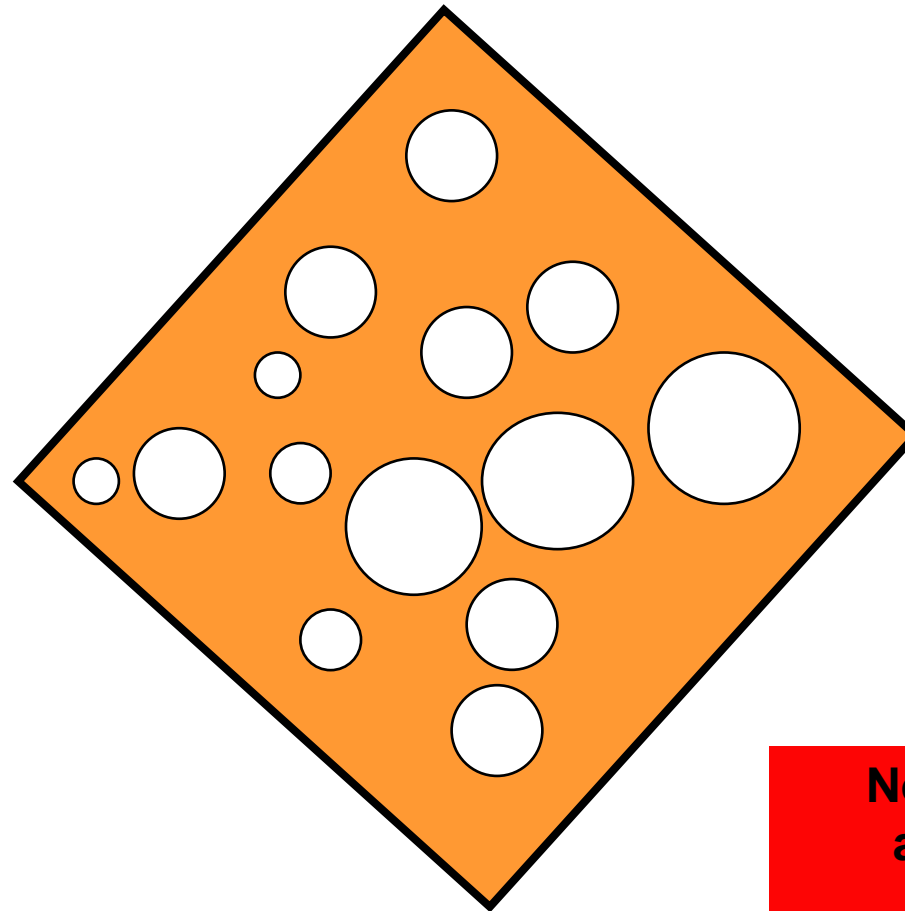
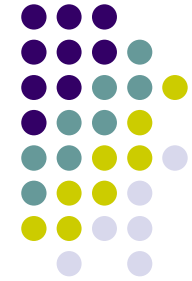
**Patient Listed as
admitted from own home
yet had been in respite
for 3 weeks**

Screening all admissions to Trauma Ward



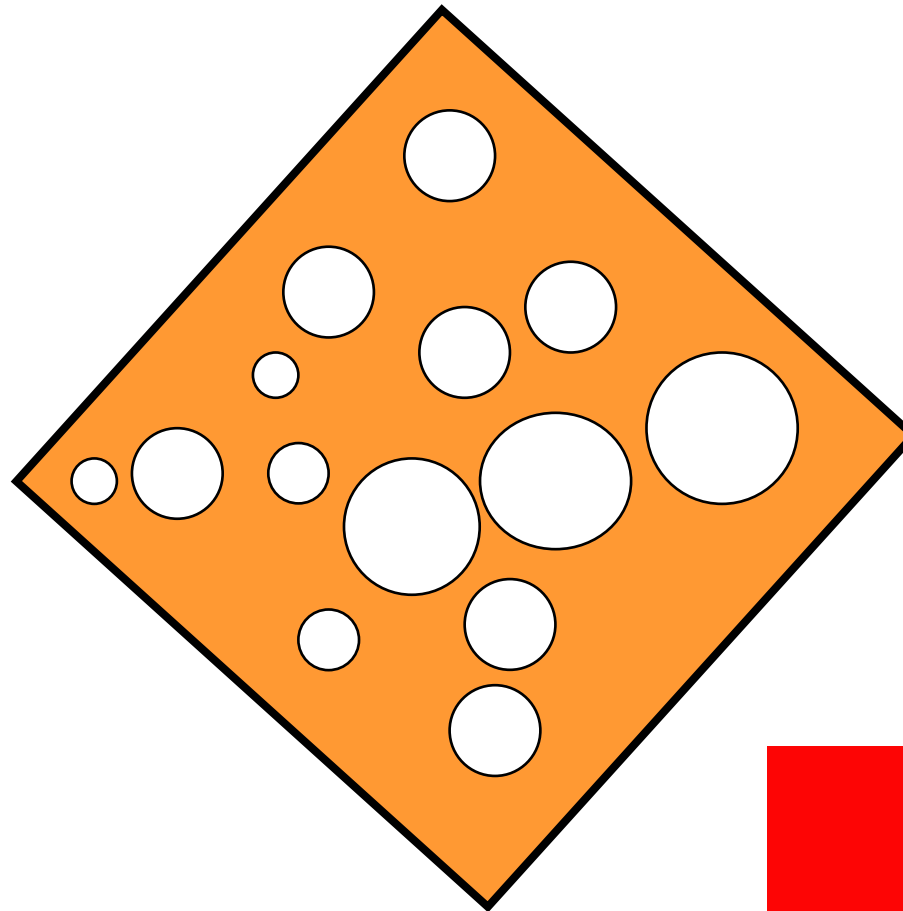
Patient admitted to medical ward as “off her legs”

MRSA Decolonisation



**No decolonisation
as MRSA status
unknown**

Intraoperative Prophylaxis

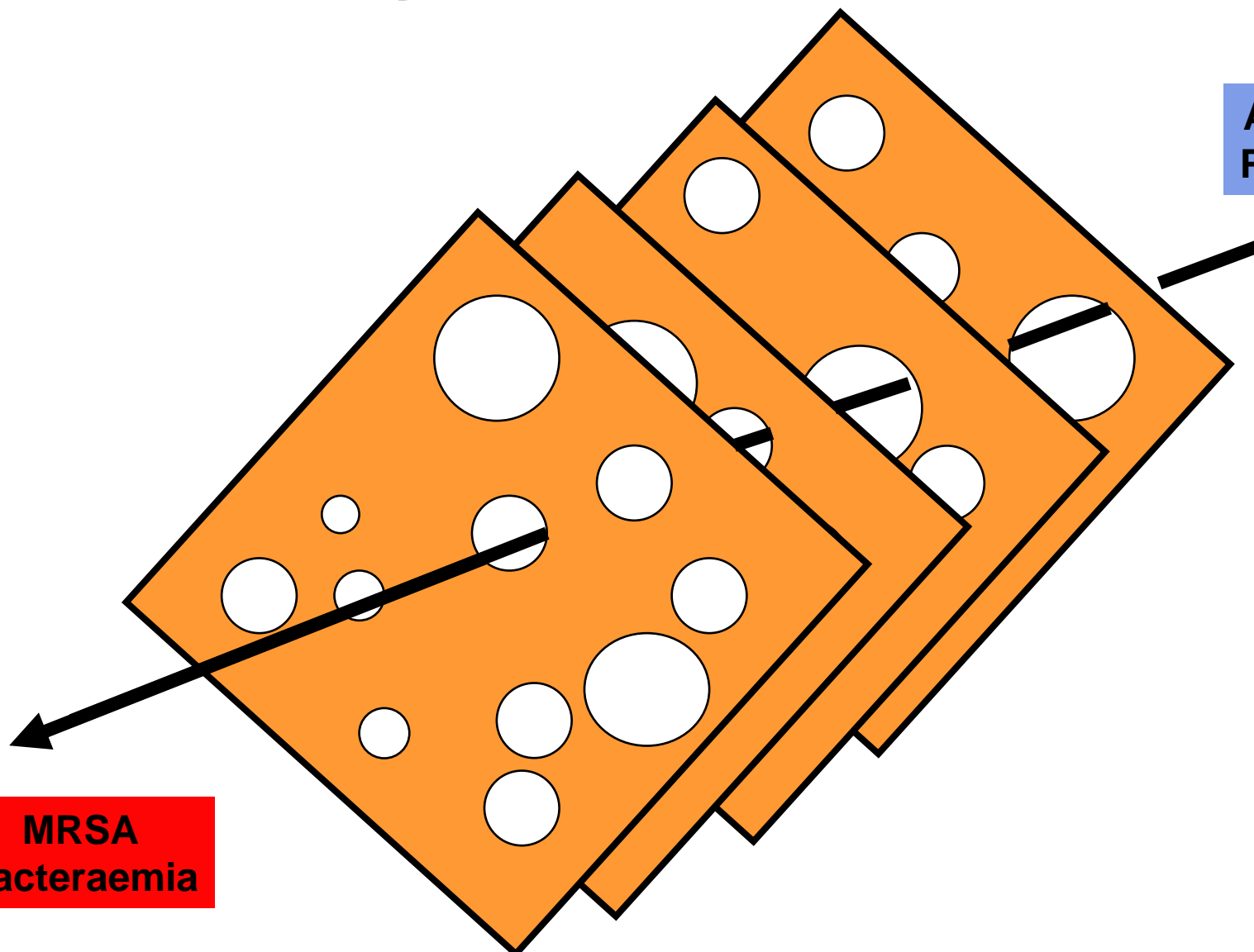


**Inappropriate
prophylaxis
given**

RCA helps to ensure it doesn't happen again



At-risk
Patient



MRSA
Bacteraemia



Sustainable Change

- Introduction of new care plan with compulsory removal or replacement at 72 hrs

Peripheral Cannulae Site checked								
Day 1 Date			Day 2 Date			Day 3 Date CANNULAE TO BE REMOVED		
E / L / N	E / L / N	E / L / N	E / L / N	E / L / N	E / L / N	E / L / N	E / L / N	E / L / N
In use Y / N	In use Y / N	In Use Y / N	In use Y / N	In use Y / N	In Use Y / N	In use Y / N	In use Y / N	In Use Y / N
Score	Score	Score	Score	Score	Score	Score	Score	Score
Flush Y / N	Flush Y / N	Flush Y / N	Flush Y / N	Flush Y / N	Flush Y / N	Flush Y / N	Flush Y / N	Flush Y / N
Initials	Initials	Initials	Initials	Initials	Initials	Initials	Initials	Initials

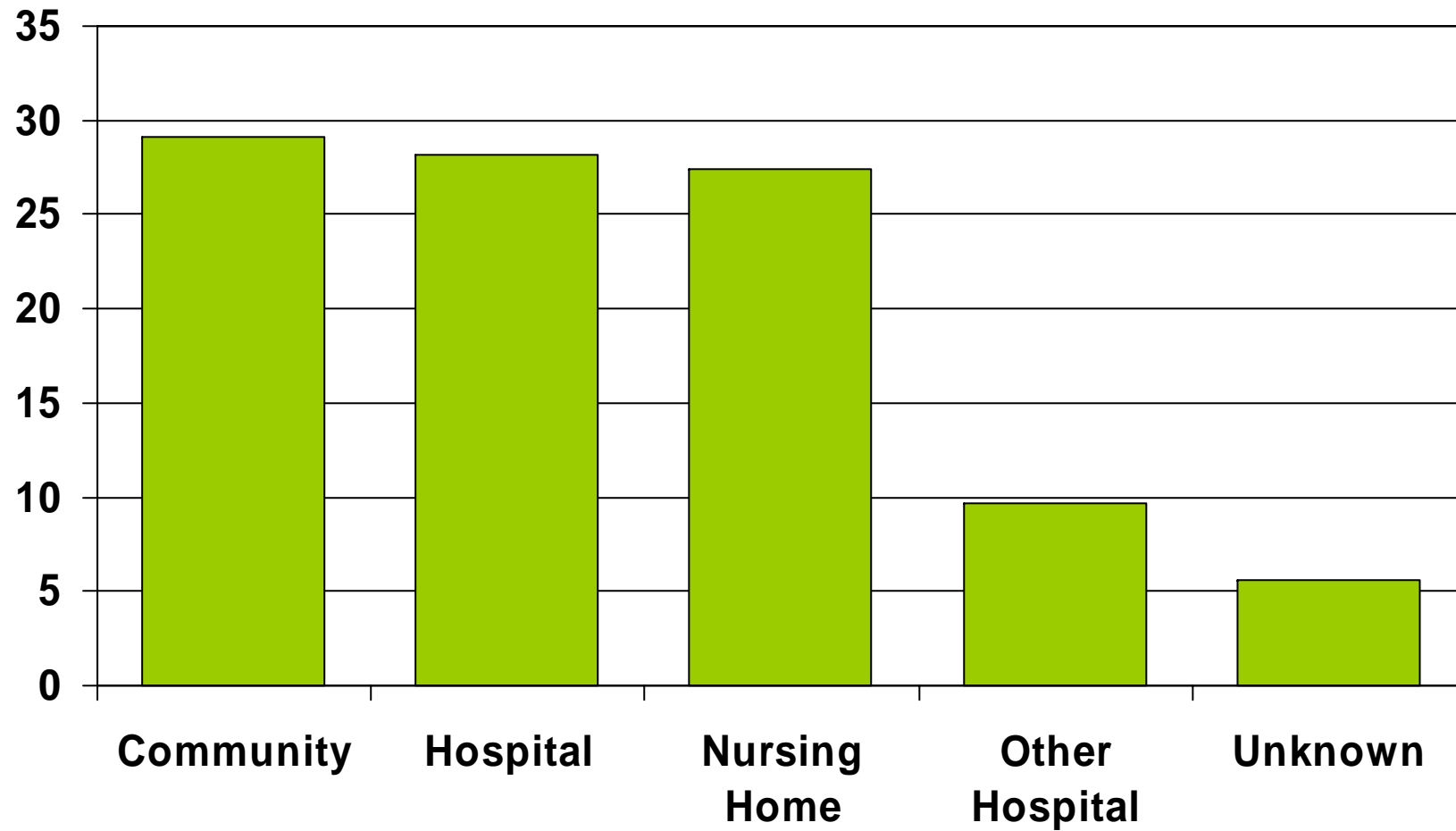
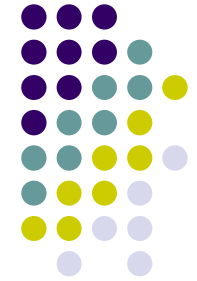
<p>Has a Doctor been asked to review the Cannulae Site?</p> <p>Y <input type="checkbox"/> N <input type="checkbox"/></p>	<p>Has Cannulae been removed? If less than 72hrs, Why?</p> <p>At 72 hours Y <input type="checkbox"/> N <input type="checkbox"/> Not required <input type="checkbox"/></p> <p>Less than 72 hours Y <input type="checkbox"/> N <input type="checkbox"/> Medication stopped <input type="checkbox"/></p> <p style="padding-left: 100px;">Dislodged/out <input type="checkbox"/></p> <p style="padding-left: 100px;">Phlebitis <input type="checkbox"/></p> <p style="padding-left: 100px;">Extravasation <input type="checkbox"/></p>	<p>Cannulae Re-sited Y <input type="checkbox"/> N <input type="checkbox"/></p> <p>Date Time</p> <p>Place of Insertion</p> <p>Name</p> <p>By Whom Signature</p>
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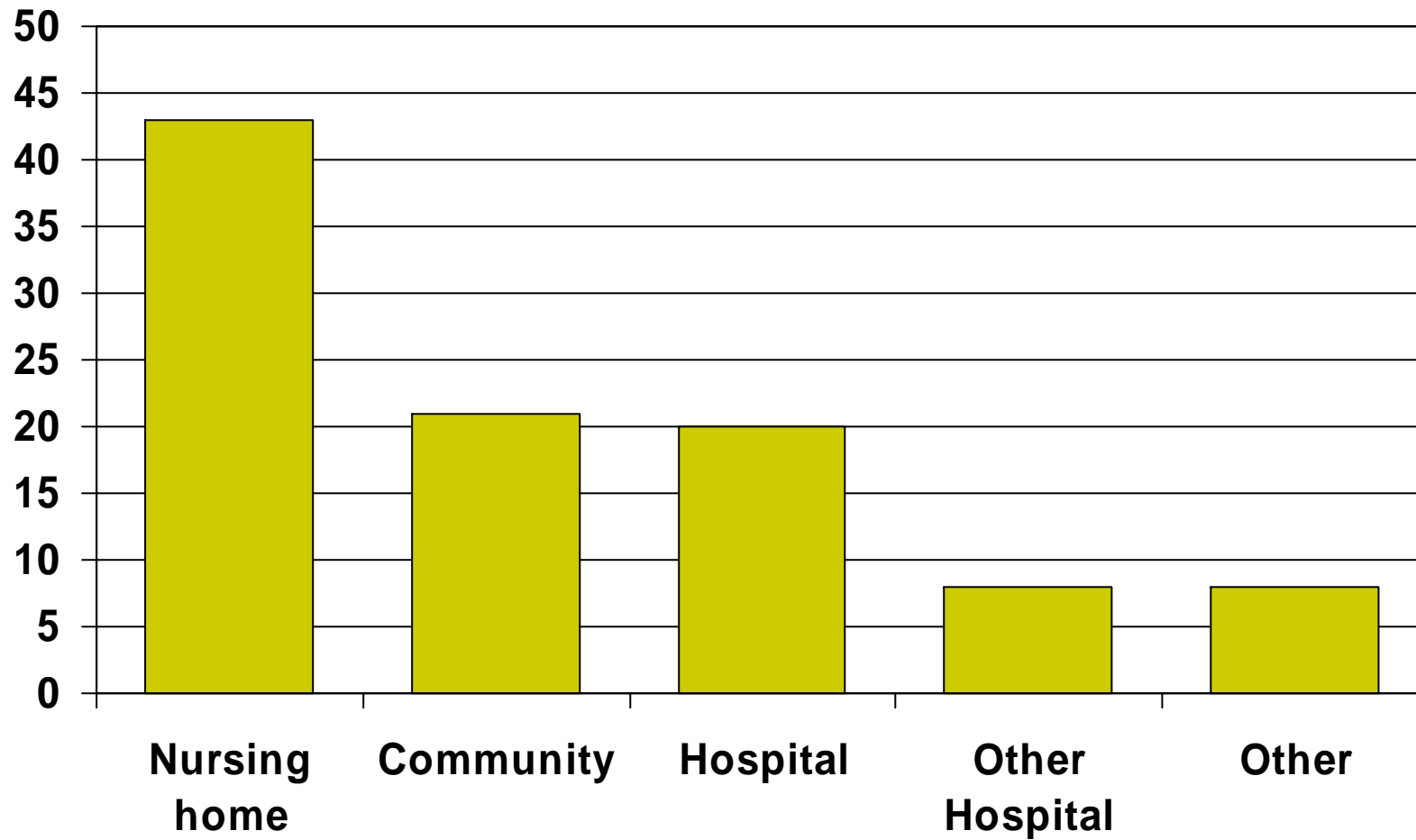
What do we do?

- Seek and destroy
 - Screening
 - All NH patients
 - All admissions to
 - ITU/CCU/HDU
 - Trauma/orthopaedic/vascular wards
 - All planned surgery
 - Isolation of all MRSA carriers

Acquisition of MRSA 2006



Source of MRSA 2007 (%)





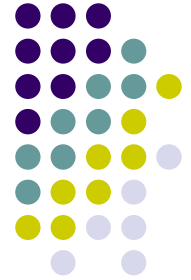
IT can help

- PAS/Pathology system flagged to spot readmitted positives
 - 96% correctly isolated on admission, 100% the next day
- Information dept tell us daily
 - Known positives who are in
 - Planned admissions
 - Patients attending OPD
 - Readmitted patients
 - And monthly the numbers in each nursing home



Isolation

- Challenging!
- Wards have min 4 single rooms
 - 2 wards have 8 ensuite rooms
 - Effective loss of Ormskirk Isolation facilities
- Impact of increased screening for MRSA
- Need for close liaison with bed managers
 - Strain on IC on-call service
- Need for side room assessed 2x daily
- Use of Trust intranet



Current situation

- Only case since 18th July was a patient who acquired MRSA in a nursing home and had infected chronic wounds
 - 106 days since last Hospital-acquired case

MRSA

- Local publicity does not always meet the highest journalistic standards
 - 'Target' 3, cases 6
- Do the public recognise this?

■ Southport and Ormskirk Hospital NHS Trust is currently 233% above its target for the first three months of the 07/08 financial year and has already recorded enough MRSA cases to exceed its annual expected level;
■ Mersey Hospitals NHS Trust





Conclusion

- Pool of colonised is increasing
 - Spread in the community in families, etc
- The acute Trust is challenged to prevent patients admitted with MRSA from acquiring bacteraemia
- Better to prevent people acquiring MRSA in the first place

My 3 Tips

- Screening
- Treatment
- Detection

