

# All learn All teach



# Your Team

- Start with people who are interested
- Include people on the frontline
- Multidisciplinary / diverse
- Recruit managers and leaders
- Mobility and flexibility



“Huddles”



Formal Meetings

# The Surgical Site Infection Bundle

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1. Antimicrobial coverage peri-operatively:
  - a) Appropriate use of prophylactic antibiotics
  - b) Antiseptic prophylaxis
2. Appropriate hair removal
3. Maintenance of perioperative glucose control
4. Perioperative normothermia



# The CLABSI Bundle

1. Hand Hygiene
2. Maximal Barrier Precautions
3. Chlorhexidine alcohol skin antisepsis
4. Optimal catheter site selection (with avoidance of the femoral vein)
5. Daily review of line necessity with prompt removal of unnecessary lines



# Process measures

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- Overall compliance with the whole bundle
- Compliance with individual bundle elements

# Measuring individual bundle elements

## VENTILATOR BUNDLE CHECKLIST (SAMPLE)

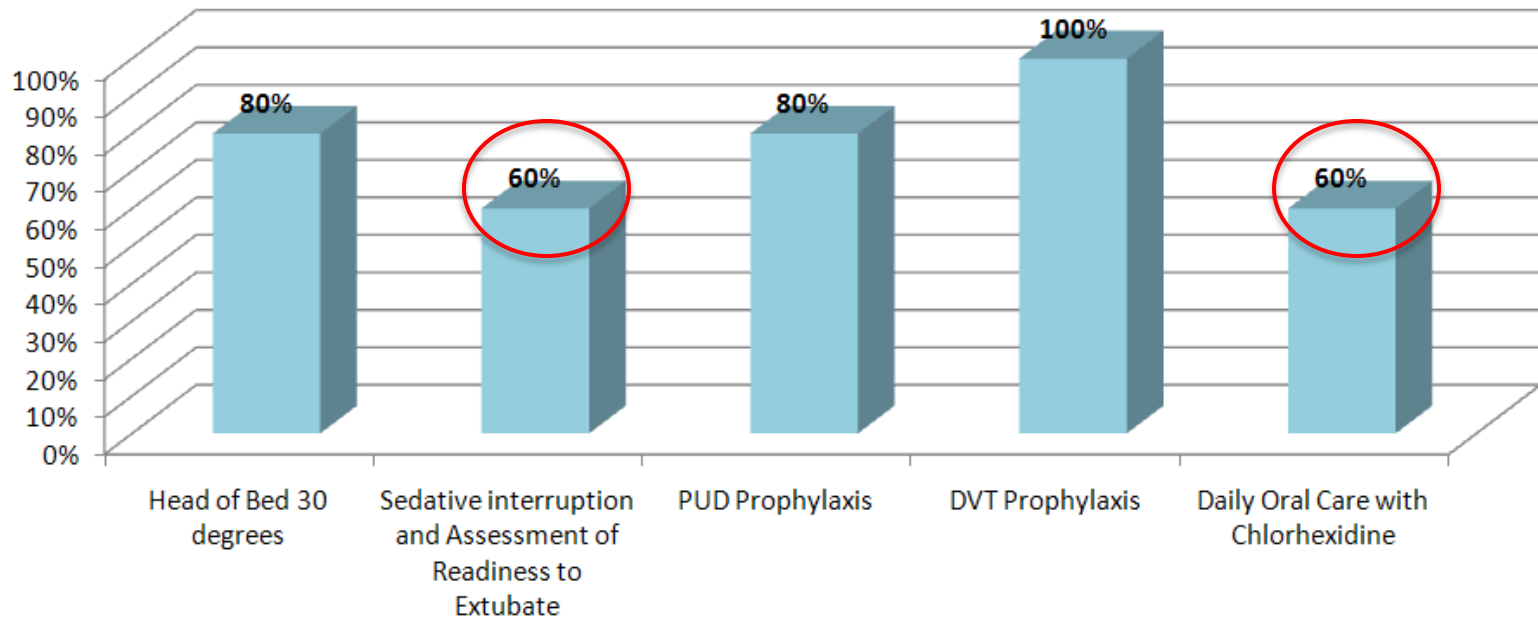
Date	Bed/Pt Initials	Head of Bed 30°	Sedative interruption and Assessment of Readiness to Extubate	PUD Prophylaxis	DVT Prophylaxis	Daily Oral Care with Chlorhexidine
9/25	1206 D. O.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	1208 M. H.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	1214 M. K.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9/26	1206 D. O.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	1208 M. H.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Adapted from a tool created by Dominical Hospital (Santa Cruz, CA) (IHI VAP HowtoGuide V6)

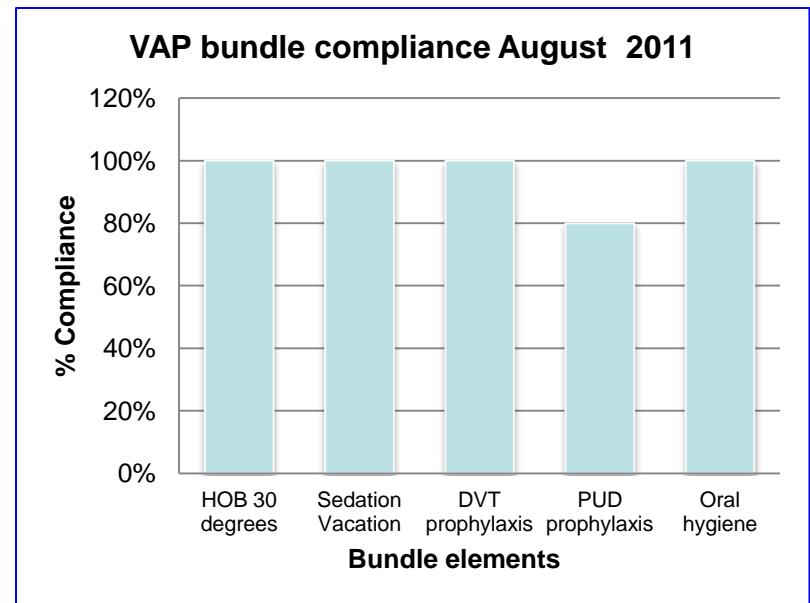
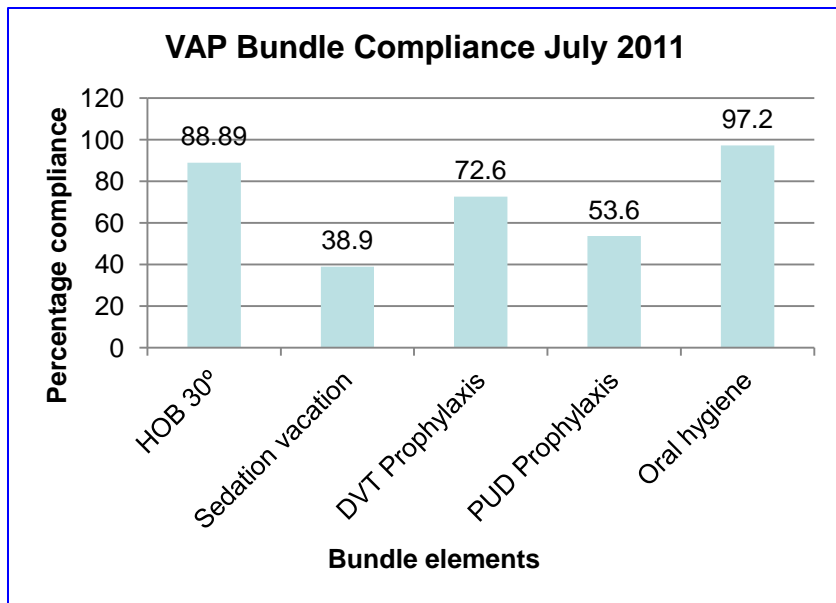
# Individual bundle elements

Know where your problem areas are

### Individual Bundle Element Compliance



# Process measure: Individual bundle element compliance





# Measuring total bundle compliance

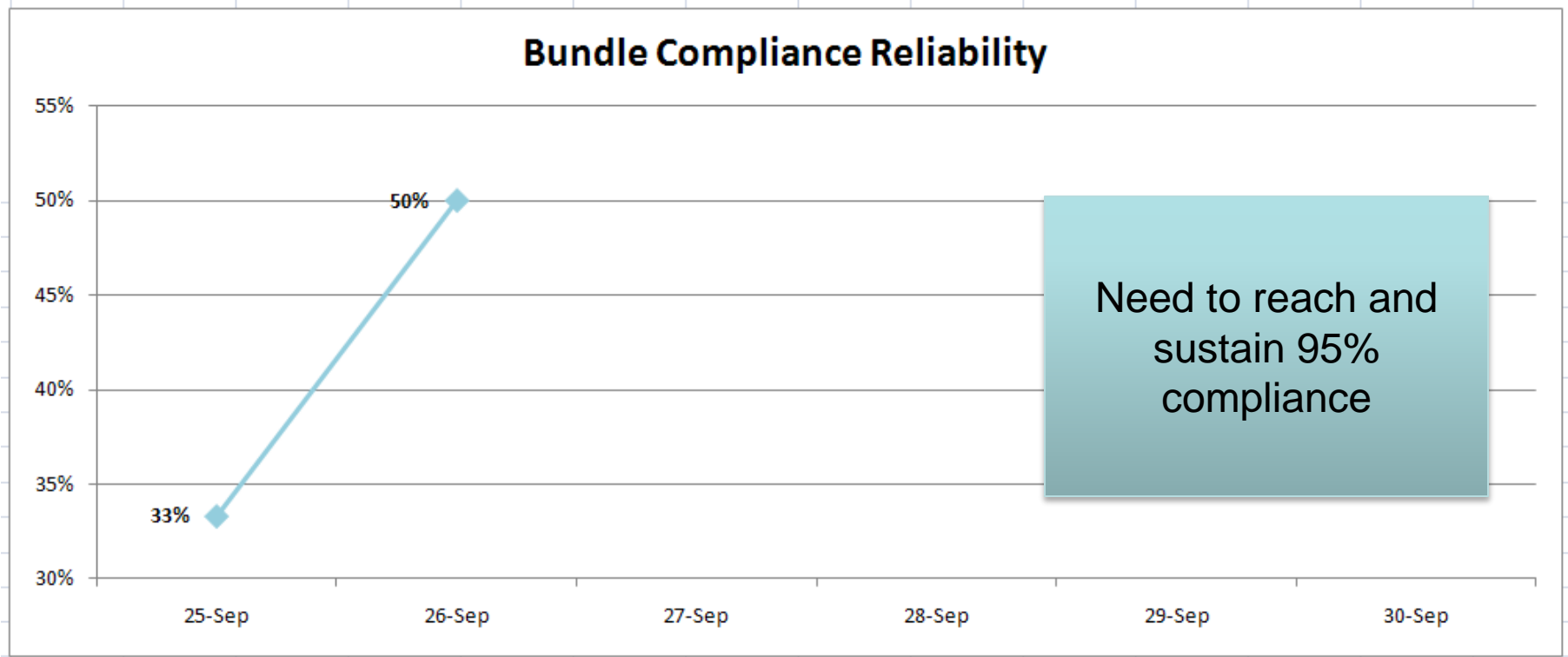
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	1208 M. H.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

No. receiving ALL 5 components of vent bundle  
 No. on ventilators for the day of the sample

= *reliability of bundle compliance*

# Total bundle compliance



Knowing if you are becoming more reliable



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# Checklists in Healthcare

## **Clinical review: Checklists – translating evidence into practice**

Bradford D Winters<sup>1</sup>, Ayse P Gurses<sup>2</sup>, Harold Lehmann<sup>3</sup>, J Bryan Sexton<sup>2,4</sup>,

Carlyle Jai Rampersad<sup>5</sup> and Peter J Pronovost<sup>2,4</sup>

*Critical Care* 2009, 13:210

The science of developing checklists in health care is new



When are checklists most useful?

How many checklists are too many?

When are we overloading the checklist users?

# The Central Line Insertion Checklist

Mean rate per 1,000 catheter-days decreased from **7.7** at baseline to **1.4** at 16 to 18 months of follow-up ( $P < 0.002$ )

*NEJM*. 2006. 355(26):2725-32

- Static sequential checklist with verification
- Suitable for when 2 operators are involved
- Follows a challenge/response format
- A reminder of best practice



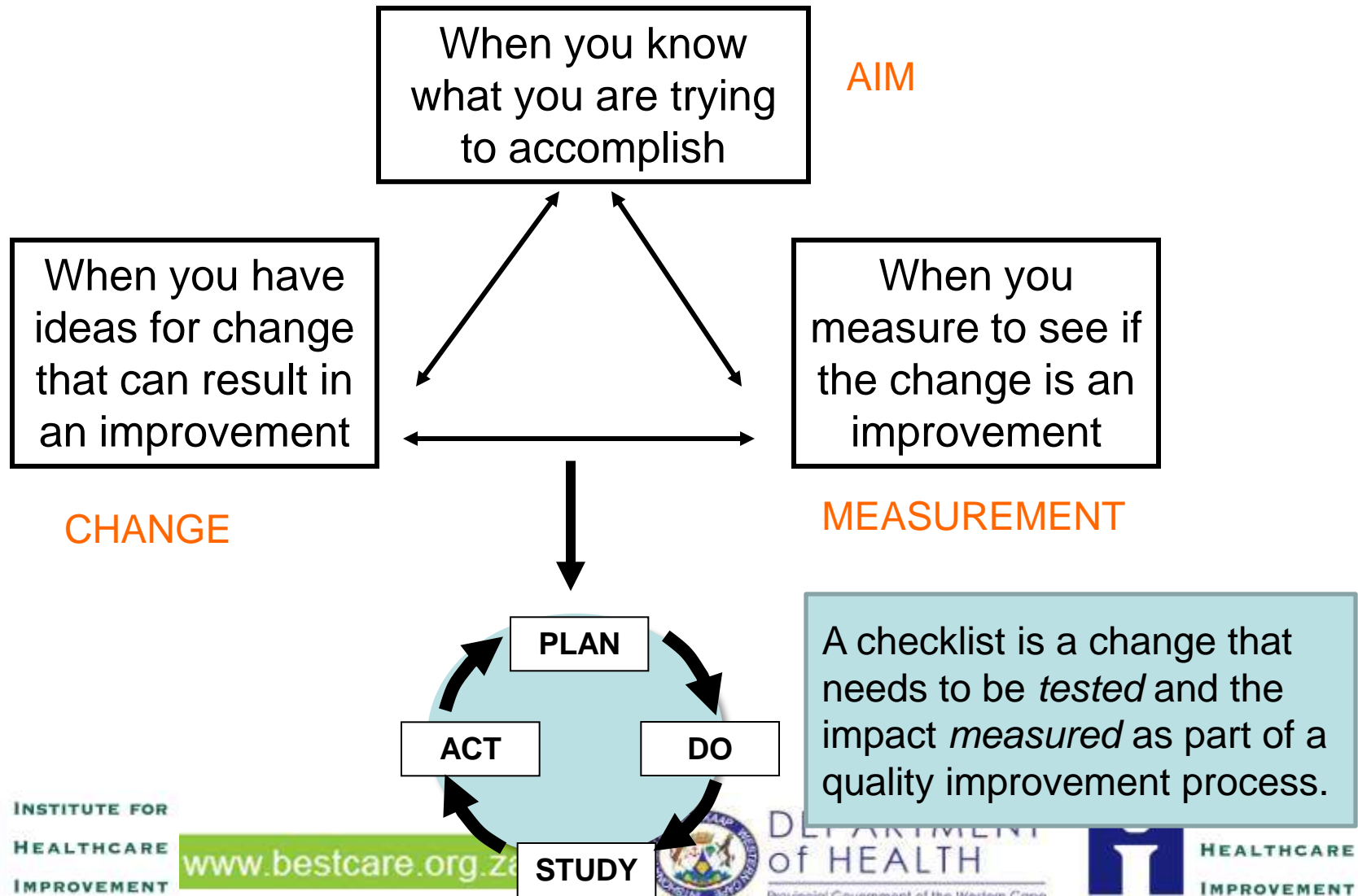
# The Urine catheter Insertion Checklist

Does a checklist for urine catheter insertion work as well as the insertion checklist for central lines?

- The normal workflow does not usually include a second person (for challenge/response)
- For this type of checklist to work, you would need to alter the process (to include a second person) to do this verification



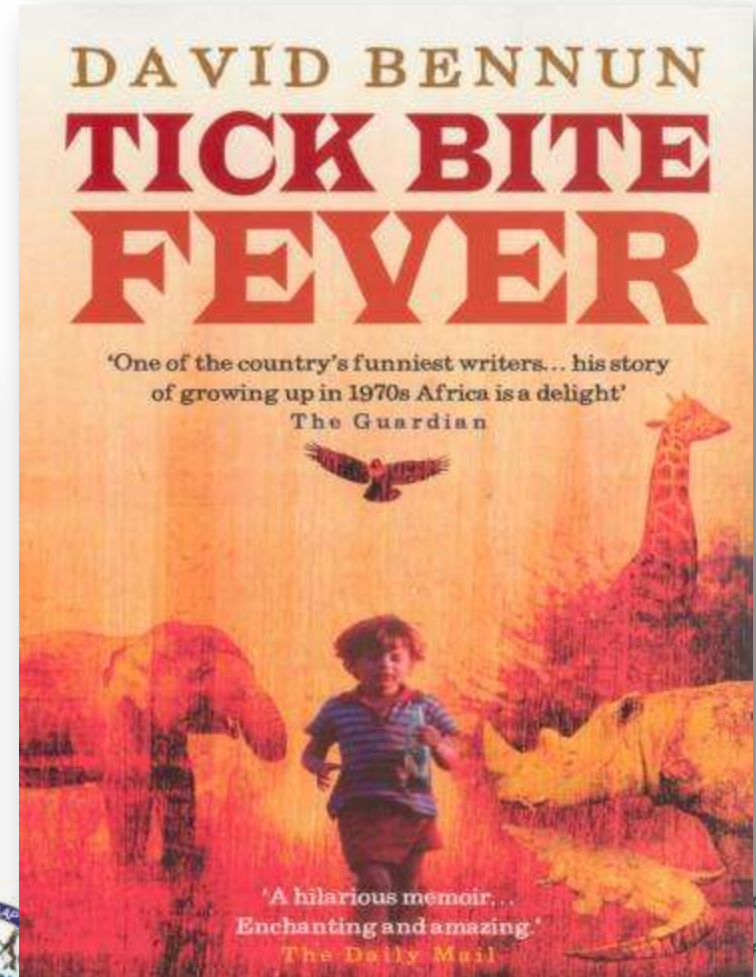
# When do checklists work?



# Checklists are not *tick*lists

## Tick-borne parasite infecting blood supply: CDC

(Reuters) - A tick-borne infection known as Babesiosis, which can cause severe disease and even death, is becoming a growing threat to the U.S. blood supply, government researchers said on Monday.



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IMPROVEMENT

# Developing a Checklist

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- Have a clear outcome/aim
- Form a multidisciplinary team
- Review the existing literature/evidence
- Understand the needs and work of users (system barriers)
- Use an iterative approach (test, test and re-test)

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- Fundamental attribution error



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# Bundle specific breakouts

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CAUTI – Marilyn Leadsom

VAP – Fiona Pieterse

SSI – Gary Kantor

CLABSI – Yolanda



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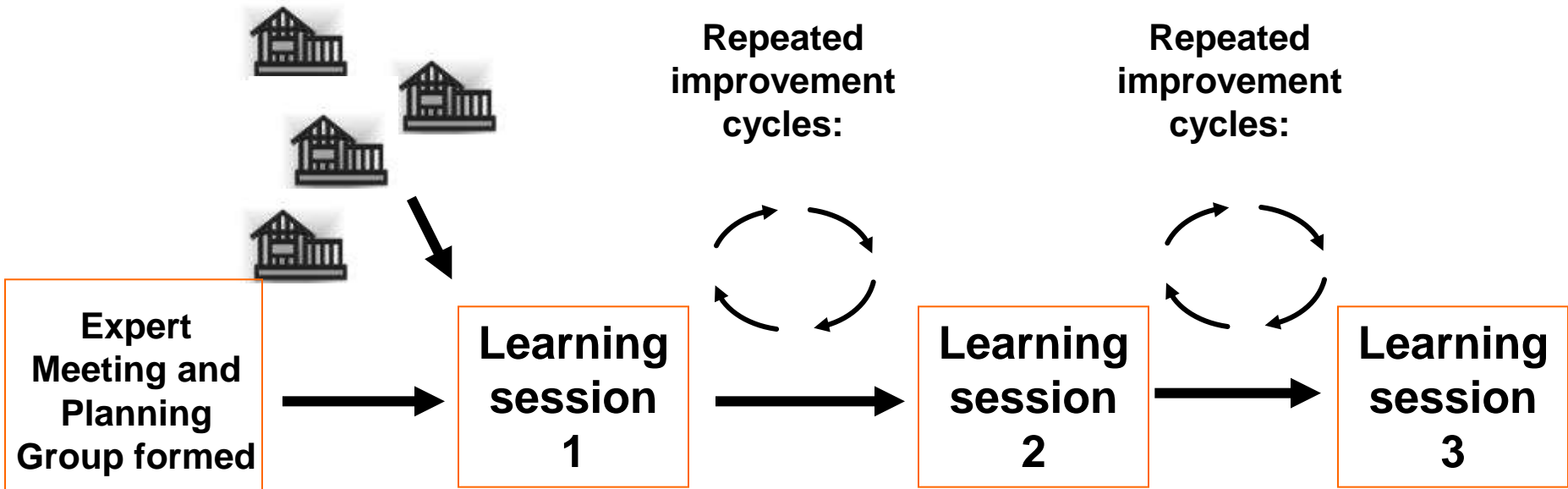
# Changes or Additional bundles?

Hospital	VAP	CLABSI	Peripheral Lines	CAUTI	SSI
George	ICU				
GSH		All ICUs			
Mowbray Maternity			Neonatal HC		Theatre
New Somerset	ICU		ICU		
Paarl				Maternity & Gynae	
Red Cross	ICU				
Tygerberg	Med ICU	Surgical ICU			
WCRC				3 Spinal Wards	
Worcester	ICU				

*Amway*

# Accelerating change and improvement through networking and collaboration.

18 - 24 months



# Next activity phase

- Continue testing and measuring current bundle
  - small pilot to the whole unit
  - measure bundle compliance
- Add a bundle
- Focus on Hand hygiene (HH)
  - develop and report monthly process measures for HH
- Extranet reporting of outcome and process measures

*Ali*

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# Feedback forms please



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