Improvement Methodology for PBC

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Improving health care through PBC

How can we do this? What is known to work? What approaches are based on good evidence?





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Change & Improvement

- "If you always do what you have always done, you will always get what you always got"
- "All Improvement involves change, not all change is an improvement"





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PBC & Improvement

- An evidence-based approach
- Used by Institute for Healthcare
 Improvement in USA
- Used by various Modernisation Agency programmes in NHS
- Founded on experience with TQM and related approaches over more than 50 years in many different environments





Improvement journey

- Define the problem
- What are we trying to achieve?
- How does it fit into the big picture?
- What changes can we make?
- Make changes
- Check the changes
- Spread...encourage others to change





The Model for Improvement

- Focus on health care systems and processes
- Standard approach that has been shown to work in NHS
- 3 questions and a tool for trying out changes
 - Based on experiential learning theories





Three Questions

- What are we trying to accomplish?
- How will we know that a change is an improvement?
- What changes can we make that will result in an improvement?



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Where to start?

- Methods for defining the problem
 - PBC Practice plan (DES)
 - Look at your PBC data!
 - LDP priorities
 - Brainstorming
 - Nominal Group Technique / Multivoting
 - Pareto Chart





Pareto analysis

- Based on 'Pareto Principle' (Juran)
 - 80% of income in Italy received by 20% of population (economist Vilfredo Pareto)
 - 80% of the consequences stem from 20% of the causes
 - Helps to concentrate efforts on factors having greatest impact





Pareto chart





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Where to focus attention

- Having identified areas that will have greatest impact
- What needs improving?
- Importance of seeing health care as a system
 - understanding systems and processes





Understanding Systems

"Every system is perfectly designed to get the results it gets.

- If we want better outcomes, we must change something in the system.
- To do this we need to understand our systems."

Don Berwick





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What Is A System?

- A System is
 - A collection of structures, processes & patterns
 - Organised around a purpose









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Structures, Processes & Patterns







What Are Processes?

- Processes
 - Are the components of a system
 - Are a series of connected steps or actions to achieve an outcome
 - Have purposes and functions of their own but cannot work entirely by themselves





Characteristics Of A Process

- Start point
- End point
- Achieves outcome that has purpose or aim
- Standard or quality of inputs throughout process is governed by rules
- Is usually linked to other processes
- Simple and short, or complex and long





Examples Of Processes

- From first developing symptoms to being healthy again
- From the decision to refer to being seen in out-patients
- From requesting an X-ray to knowing the results





Process Maps Principles of Redesign





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Example Process Map

THE ANTICOAGULANT BLOOD TESTING PROCESS



18 Week Target & PBC

- "By 2008, no one will have to wait longer than 18 weeks from GP referral to hospital treatment"
 - NHS Improvement Plan, June 2004
 - Which conditions?
 - When does clock start and stop?
 - Guidance to follow
 - http://www.18weeks.nhs.uk for more information





A Referral To Treatment Process Map



Pathway Step 1



Pathway Step 2







How To Process Map

- Do it as a group
- Get all stakeholders present
- Take a sheet of wall paper and attach to wall
- Process map each step using post-it notes
- Remember to stick them on with sellotape at the end
- The debate is as important as the result





The Scope Must Be Clearly Defined



where does it end?



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WARNING ! WARNING !

- Ensure you keep thinking of the current process as it really happens
 - How it really is, not how it should be, or how you'd like it to be!
- Focus on what happens to 80% of the patients 80% of the time
 - Don't worry too much about the exceptions that we all remember most easily!





Having Mapped The Process

Analyse It.....





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For Each Step Ask:

- Can it be eliminated?
- Can it be done in some other way?
- Can it be done in a different order?
- Can it be done somewhere else?
- Can it be done in parallel?
- Can any "Bottlenecks" be removed?
- Is it being done by the most appropriate person?





Analysing your process map

- How many steps in your process?
- How many hand-offs?
- How many steps do not "add value" for patient?
- Where are possible delays?
- Where are major bottlenecks?





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Share experiences

Of process mapping







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It's the easiest thing in the world..

To redraw boundaries and roles on a piece of paper ...

Not so easy to make the changes happen!



This Is Where We Need

The Improvement Model





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Using the Findings

- Select a specific problem area from your map
- Generate some ideas for improvement
- Select one idea
- Identify what you would like to achieve with that particular idea
- Identify how you will know the change is an improvement – a measure
- Generate some specific actions that would be required to make this happen





Three Questions

- (1) What are we trying to accomplish?
- (2) How will we know that a change is an improvement?
- (3) What changes can we make that will result in an improvement?







The Improvement Model





How to explicitly test a small change



What you have planned to do

The outcomes, expected and unexpected, of the test

....on the results to modify and improve

and then move on to the next cycle



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Developing Practice Improvement



Developing Practice Improvement – what really happens!!



What Should a PDSA Look Like?

Objective	Define the problem	•
-	What are you trying to achieve?	
Plan	Who, what, where, when?	
	Measurement	Write
Do	Just do it!	It Downl
Study	What worked? What didn't	?
Act	Next steps	

Tips for Successful PDSA

- Don't think too big
 - size matters; make it manageable and realistic, break down big changes into less-than-elephant sized pieces
- Don't be too vague
 - need some detail, although to a practical, not obsessive, level
- Don't forget to measure
 - qualitative data is important, but best if complemented by quantitative
- ACT on the results
- In practice more than 1 PDSA can be run at a time as long as they are small and simple







PDSA (Please Do Something, Anything!)



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Further resources

- The Improvement Leaders' Guides
 - Available for download/order at
 - http://www.institute.nhs.uk/Products/
 ImprovementLeadersGuidesGeneralImprovementSkills.htm
 ImprovementLeadersGuidesProcessandSystemsThinking.htm
- http://www.ihi.org/IHI/Topics/Improvement/ ImprovementMethods/

Links checked June 2006!



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