TOOL 12

Cause and Effect Diagram



Figure 1: Example of a Cause and Effect Diagram: Reasons why patients are not on a standardised anticoagulation pathway.

How to create a Cause and Effect Diagram	 Identify the problem you are trying to solve, describe it in detail (who is involved, when and where it occurs), write the problem in a box and draw an arrow pointing towards it. Decide on five or six categories of causes for the problem or effect. You can develop your own or use the following traditional categories: Materials Methods Equipment Environment People Draw diagonal lines above and below the horizontal line to create 'fishbones', and label each line at the end with one of the categories you have chosen. Draw a box around each label. 	 4. For each category, generate a list of the causes that contribute to the effect. List the causes by drawing 'branch bones'. Draw additional branch bones from the causes to show sub-causes as needed. Tip: Develop the causes by asking 'Why?' until you have reached a useful level of detail — that is, when the cause is specific enough to be able to test a change and measure its effects Remember: It's unlikely that a single individual has a clear view of an entire complex system. When developing a Cause and Effect Diagram, enlist the help of team members who are familiar with the problem and different aspects of the system under review.
Template	To help get you started with developing a Cause and Effect Diagram, you can find a basic template on the <u>SCV Quality Improvement Toolkit</u> . This has not been designed for complex projects. It is recommended that project teams initially draft Cause and Effect Diagrams collaboratively, using whiteboards or wall pads and post-its. The diagram can then be transcribed electronically.	
Additional resources	 To learn more about Quality Improvement <u>SCV Quality Improvement Toolkit</u> <u>Institute for Healthcare Improvement w</u> <u>NSW Clinical Excellence Commission Q</u> Content adapted with permission from the (IHI) and the Clinical Excellence Commission 	t you can access the following resources: <u>rebsite</u> <u>uality Improvement Tools</u> te Institute for Healthcare Improvement ion (CEC)