# Research, EBP, and QI

<table>
<thead>
<tr>
<th>The question</th>
<th>Research (Utilizing)</th>
<th>EBP (Implementing)</th>
<th>QI (Conducting)</th>
</tr>
</thead>
<tbody>
<tr>
<td>“What is the best thing to do”?</td>
<td>“Are we doing the best thing”?</td>
<td>“Are we doing the best thing... right, and continuously”?</td>
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</tbody>
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**Process**
- Search the literature to determine the gap
- Ask a research question or
- Test a hypothesis
- Generate new knowledge
- Disseminate findings

- Search/appraise internal and external evidence
- Implement practice change based on best evidence
- Measure outcomes of practice change
- Disseminate findings

- Monitor evidence-based practice change and outcomes continuously
- Modify practice based on results
- Generate internal evidence
- Improve care

**Purpose**
- Research is focused on... *discovering new knowledge* that can be generalized to large groups of people.
- EBP is focused on... *implementing knowledge* through practice change in a narrow population and measuring outcomes.
- QI is focused on... *generating internal evidence* about process and outcomes in the setting/environment that generated it.

**Techniques and Models used**
- Quantitative Research Methodologies
- Qualitative Research Methodologies
- PICOT, ARCC, PARIHS, Stetler, Rosswurm & Larabbee, Iowa, Hopkins
- PDCA, DMAIC, Six Sigma, TQM, Lean process, dashboards and scorecards

**IRB**
- Yes (for protection of human subjects)
- Yes (for protection of data and publication)
- Yes (for publication)

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<table>
<thead>
<tr>
<th>Research is :</th>
<th>EBP questions are:</th>
<th>QI/PI process is:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Directional</td>
<td>Not directional</td>
<td>About fixing problems</td>
</tr>
<tr>
<td>Based on theory</td>
<td>Based on clinical inquiry</td>
<td>Based on internal data</td>
</tr>
<tr>
<td>Generalizable</td>
<td>Outcomes focus</td>
<td>Process focus</td>
</tr>
<tr>
<td>High reliability</td>
<td>Not generalizable</td>
<td>Not generalizable</td>
</tr>
<tr>
<td></td>
<td>Varied reliability</td>
<td>Limited reliability</td>
</tr>
</tbody>
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*“What is the best thing to do”*?  
*“Are we doing the best thing”*?  
*“Are we doing the best thing right and continuously”*?