THE INNOVATION

- Leaders in patient safety continuously draw from successes in high-risk industries outside of healthcare to envision new ways to enable multidisciplinary teams to provide safe care.
- The healthcare librarian can apply select concepts from the high-risk aviation and aerospace sector—design safety into their practice.
- The healthcare librarian can enhance their value to the patient safety team by building on core Evidence, Information and Knowledge (EIK) sharing competencies as an innovation framework.

Example: Annotated C182T Checklist

THE APPLICATION OF LIBRARIAN SKILLS TO EMBED AVIATION SAFETY STRATEGIES IN EIK SERVICES

<table>
<thead>
<tr>
<th>Key aviation concepts</th>
<th>Evidence element</th>
<th>Information element</th>
<th>Knowledge element</th>
<th>InfoPro competencies that bridge EIK gaps</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organizational Level</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>High Reliability</td>
<td></td>
<td></td>
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<tr>
<td>Organization</td>
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</tr>
</tbody>
</table>
| (Weick & Sutcliff, 2015) |   • Ensure evidence compiled is unbiased both in selection and development  
|                        |   • Repeat literature reviews, as appropriate, to ensure complete results  
|                        |   • Make available credible organizational information on a timely basis (LaPorte 2002)  
|                        |   • Commit to recognizing failure given tacit understanding of what should be  
|                        |   • Identify and recognize gaps (Dervin 2003)  
|                        |   • Understand connections (Klein et al 2004)  
|                        | MLA #1  
|                        | MLA #5  
|                        | SLA #4  |
| Unit Level            |                  |                     |                   |                                         |
| Crew resource         |                  |                     |                   |                                         |
| management / team     |                  |                     |                   |                                         |
| (Klein et al 2004)    |   • Use research-based instructional design (Helmreich & Merritt 2006)  
|                        |   • Review appropriate and best practice to enhance safety. (Siroh-Martinez 2015)  
|                        |   • Build psychological safety and trust through the experience of work together (Edmondson 2003)  
|                        |   • Recognize and its application to the task at hand as communicated to the team  
|                        |   • Know who is on the team, their roles and immediate tasks and goals  
|                        |   • Recognize tacit knowledge as a valued and shared asset for an interdisciplinary team  
|                        |   • Base interaction on experience of working together on previous tasks  
|                        | MLA #5  
|                        | MLA #6  
|                        | SLA #1  |
| Individual Level      |                  |                     |                   |                                         |
| Checklists            |                  |                     |                   |                                         |
| (Gawande 2009)        |   • Review the evidence to identify credibility of the specificity of the actions (Klein et al. 2009)  
|                        |   • Translate evidence into actionable, relevant and specific process points  
|                        |   • Apply knowledge to enable the generic checklist to work in situ given local norms  
|                        | MLA #5  |

THE TAKE-AWAYS

- Methods of improving safety in aviation and aerospace have application to evidence, information and knowledge sharing in the healthcare environment.
- Elements of high reliability show promise for improving the effectiveness of EIK in the care environment.
- Aviation concepts could be leveraged by healthcare librarians and information pros to better support the clinical team and inform strategic efforts to enhance the safety.

Acknowledgements, Contact Information


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