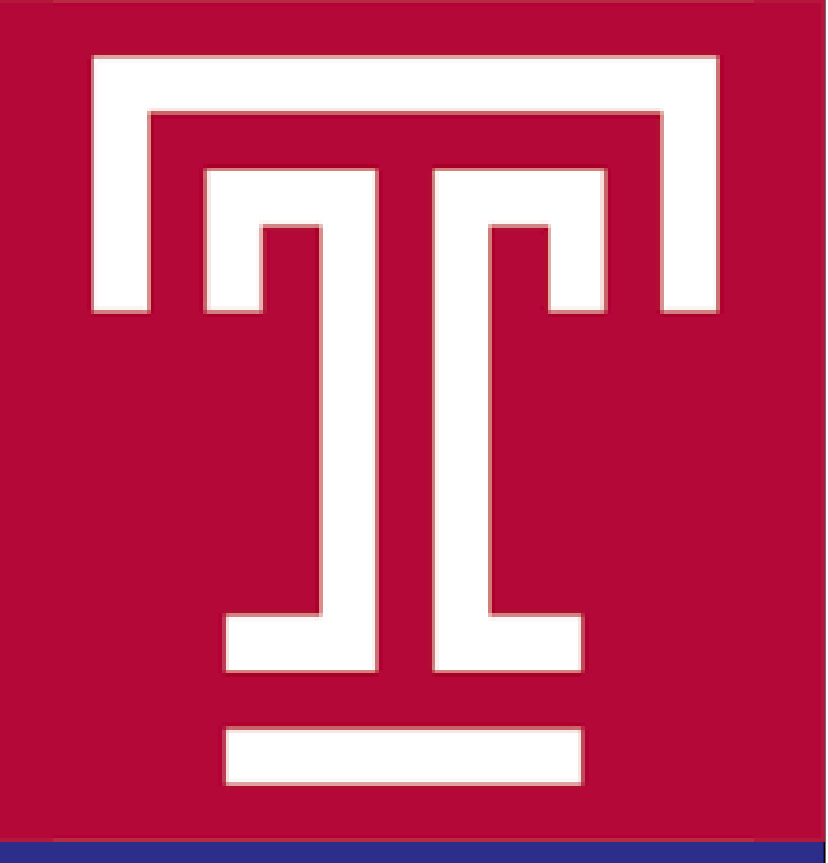


“Bigger Fish to Fry”: A Review of the Ishikawa Fishbone Diagram Utilizing “3D Fish Models” to Review Problems and Solutions in Radiology

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PURPOSE

-The Ishikawa Fishbone Diagram, also known as the Cause-and-Effect Diagram, is a visual tool used in quality improvement and problem-solving processes.

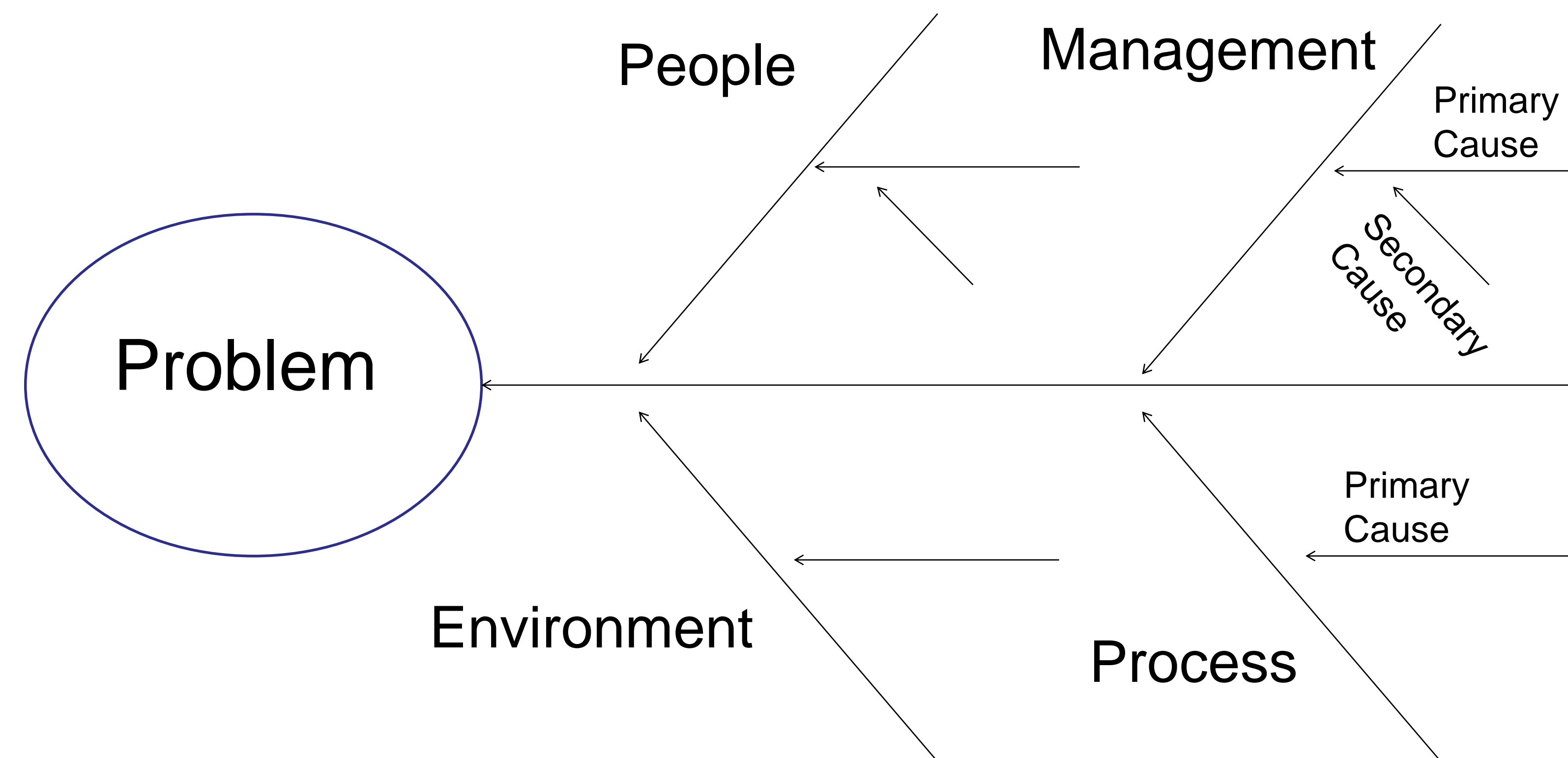
-It is particularly helpful for identifying and analyzing the root causes of problems including healthcare and radiology.

-We demonstrate the Ishikawa Diagram utilizing a 3D Fish model to create a more realistic environment and better understanding of concepts.

METHODS

The Ishikawa diagram is one of the seven tools of quality and helps to determine the root causes of a problem and uses group participation with an orderly easy to read diagram using cause and effect relationships. Using a 3D fish diagram helps the team better understand the graphic display and relationship of causes and effect and helps identify areas of improvement. To help identify problems and identify possible causes and solutions, the 3D model is incorporated with labels of each bone of the fish showing the problem, analyzing the diagram and eliminate issues in radiology.

RESULTS



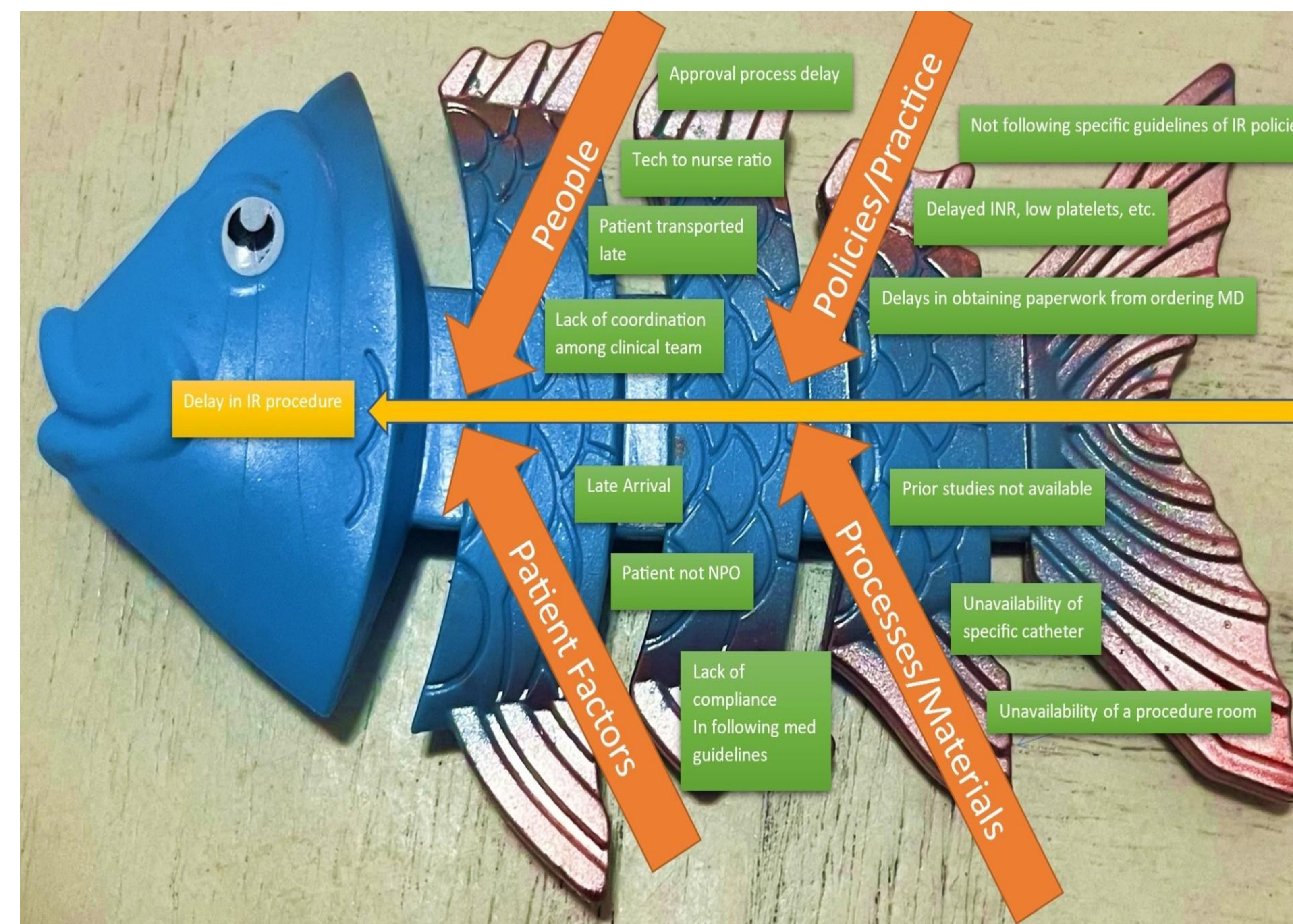
Above is an outline of the Ishikawa fishbone diagram highlighting the essential components used to help identify the many possible causes for an effect or problem.

RESULTS CONTINUED

With the help of the 3D Ishikawa diagram, we will demonstrate several issues in radiology and help identify and solve the issues with this diagram. The 3D model is unique in that it helps stimulate and immerse the group in a more virtual environment and increases analysis and understanding of problems, rather than just drawing on a piece of paper. This model can help in brainstorming new strategies and action plans.

CONCLUSIONS

The Ishikawa 3D Fishbone Diagram we developed is a valuable tool for promoting a systematic and collaborative approach to problem-solving in radiology. The 3D models helps teams visualize the complex relationships between potential causes and facilitates the identification of effective solutions to improve processes, quality, and patient care in the radiology workplace.



This is a 3D version of the Ishikawa fishbone diagram with detailed components in answering a quality issue. The above example helps address the factors in play for a delay in an interventional radiology procedure.

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