Notion as an Effective Free Simple Tool to Author and Publish a Resident Reference and Education Website on MRI Safety

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Purpose

MRI safety is a frequent challenge for residents on call, with existing guidelines difficult to access in urgent clinical scenarios.

Residents are often required to make critical decisions on device and implant safety.

Objective

To develop a practical, free website using Notion that allows radiology residents to interactively and rapidly access MRI safety guidelines and to evaluate its effectiveness through follow-up surveys to promote efficiency and optimize use.

Methods

1. Common MRI safety questions posed to residents on call were collected and distilled into decision trees by subject-matter experts.
2. Using Notion's free education plan, an R2 resident with no prior web-authoring experience translated the decision trees — along with imaging examples and references (including the ACR Manual on MR Safety) — into an internal website over the course of 9 months.
3. The website was introduced to 43 radiology residents during a scheduled lecture.
4. Pre- and 6-week post-intervention surveys using a 5-point Likert scale (1 = Strongly Disagree, 5 = Strongly Agree) were administered.
5. Responses were stratified by resident year (R1-R4) and assessed for MRI safety knowledge, decision-making confidence, and workflow efficiency.

Figure 1. The Notion.so MRI safety website. (A) shows the main page and several example clinical scenarios. (B) shows an example subpage entitled "Orbital Foreign Bodies/Metal Occupational Exposure" with decision making guidance and representative image examples.

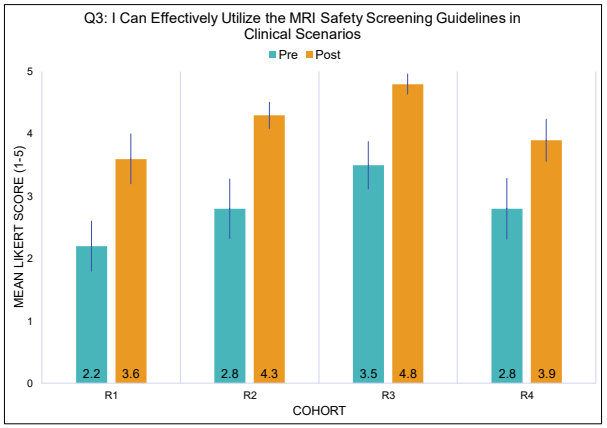

Figure 2. Resident response averages to pre- and post- intervention surveys using a 5-point Likert scale (1 = Strongly Disagree, 5 = Strongly Agree). The grouped bar chart demonstrates improvements in MRI safety knowledge in response to the statement "I can effectively utilize the MR Safety Screening guidelines in clinical scenarios".

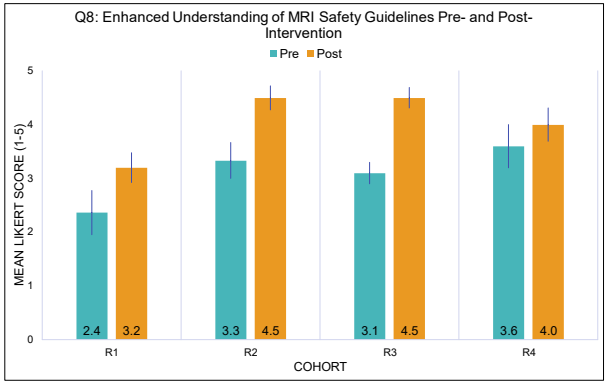

Figure 3. Resident response averages to pre- and post- intervention surveys using a 5-point Likert scale (1 = Strongly Disagree, 5 = Strongly Agree). The grouped bar chart demonstrates improvements in MRI safety knowledge in response to the statement "the educational materials provided have enhanced my understanding of MRI safety".

Results

An internal website was created and launched within nine months by an R2 resident.

Survey results demonstrated overall improvement and positive reception. The statement "The educational materials provided have enhanced my understanding of MR safety" showed benefit across R1-R3 residents.

Survey highlights:

"The educational materials enhanced my understanding of MR safety"

- **R1:** 2.4 ± 0.4 → 3.2 ± 0.3
- **R2:** 3.3 ± 0.4 → 4.5 ± 0.2
- **R3:** 3.1 ± 0.2 → 4.5 ± 0.4
- **R4:** 3.6 ± 0.4 → 4.0 ± 0.3

"The QI project positively influenced our department's safety culture"

All years: 3.3 ± 0.2 → 4.6 ± 0.1

3.3 → 4.6

Average change after this intervention across all years

Conclusions

Notion is a powerful, easy-to-learn web application that enables cost-free educational website creation.

By aggregating existing guidelines in an interactive accessible format, we helped residents make evidence-based clinical decisions more efficiently.

Beyond MRI safety, this approach can be adapted to address other resident educational needs across specialties.

Disclosures and References

The authors have no relevant financial or non-financial disclosures to report.

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