

# FAQ FOR RADIOLOGISTS: NEW FEDERAL LEGISLATION IMPACTING RADIOLOGY PRACTICES USING AI

This FAQ offers information regarding the use of clinical algorithms and artificial intelligence (AI) in radiology, in light of the ACA Section 1557 final rule on "Nondiscrimination in Health Programs and Activities." Disclaimer: The information provided here is intended as general guidance and should not be considered legal advice. Radiologists should consult with legal counsel for specific questions regarding their obligations under the rule.

#### Q: Why is ACA Section 1557 important to radiologists?

ACA Section 1557 mandates that all covered entities, including radiologists and radiology practices, be accountable for preventing discrimination, including any bias arising from the use of algorithms or AI.

#### Q: What is ACA Section 1557?

- The U.S. Department of Health and Human Services (HHS) conducts rulemaking and enforcement of Section 1557 of the 2010 Affordable Care Act (ACA), which "prohibits discrimination on the basis of race, color, national origin, age, disability, or sex (including pregnancy, sexual orientation, gender identity, and sex characteristics) in covered health programs or activities." 1
- On April 26, 2024, HHS issued a final rule regarding Section 1557 of the ACA, which was published in the Federal Register on May 6, 2024.<sup>2</sup>

#### Q: Does this rule affect how I use clinical algorithms and AI in my radiology practice?

• Yes, the rule directly addresses the use of all "patient care decision support tools," which encompasses all clinical algorithms in electronic health records as well as all AI technologies used in healthcare. It emphasizes that using these tools must not result in discrimination based on race, color, national origin, sex, age, or disability.

## Q: What are some examples of patient care decision support tools in radiology that might raise discrimination concerns?

- The rule defines these tools to encompass any automated or non-automated tool, mechanism, method, technology, or combination used for clinical decision-making. In radiology, this could include:
  - All algorithms used for image analysis and interpretation that might produce varying results based on a patient's race or ethnicity.
  - Al-based tools for prioritizing patients for imaging studies or interpreting results that might disadvantage certain demographic groups.
  - · Risk assessment tools that use race, age, or sex as factors in ways that could lead to biased outcomes.

#### Q: I use AI software developed by a third party. Am I still responsible for ensuring it doesn't result in discrimination?

• Yes, even if you are not the developer of the AI tool or algorithm, you are still obligated to make reasonable efforts to ensure its use doesn't result in discriminatory practices. The rule places the responsibility for nondiscriminatory use on the covered entity, which includes healthcare providers like radiologists who receive federal funding (e.g. CMS reimbursement for provided services).

## Q: The rule mentions "reasonable efforts" to identify and mitigate bias. What does this mean practically for radiologists?

- While the rule doesn't specify exact steps, here's what "reasonable efforts" might entail:
- Governance process
  - Establish and document a governance process for AI deployment and monitoring in your practice, incorporating consistent policies and procedures. Create a process for end users to report their concerns about potential discrimination in clinically deployed AI algorithms.
- Identifying Potential Bias:
  - Stay informed about known biases in AI and algorithms used in your field. For example, be aware of research highlighting racial discrepancies in AI models of devices like pulse oximeters.
  - When considering new software or tools, inquire about the data used for training, if bias was assessed, and if bias mitigation strategies were employed.
  - Review publicly available resources or consult with developers to understand if your tools utilize race, color, national origin, sex (including sexual orientation and gender identity), age, or disability as input variables.
  - Lack of information will likely not be considered "reasonable"

#### · Mitigating Discrimination:

Ensure all radiologists in your practice know they cannot solely rely on algorithmic outputs. They must combine them with their professional judgment and consider patient-specific factors.

Educate all users about the potential bias inherent to AI tools during training.

Develop convenient processes to document potential bias in practice. If you or any radiologist in your practice becomes aware of potential bias, ensure it is recorded and addressed. This oversight may include adjusting AI model thresholds, exploring alternative tools, or reporting the issue to the developer or relevant authorities.

#### Q: I'm part of a small practice with limited resources. Am I still required to comply with this new legislation?

Although the legislation doesn't include a specific "hardship clause" to exempt smaller practices, there is an understanding that
larger practices will face closer scrutiny. When assessing a covered entity's compliance with the "reasonable efforts to identify
and mitigate bias" requirement, HHS may consider the entity's size and available resources. This means that larger,
well-resourced entities will be expected to demonstrate greater diligence in meeting this provision.

#### Q: Are resources available to help me navigate these requirements and ensure that I use AI responsibly and equitably?

- Yes, the rule encourages the HHS Office of Civil Rights (OCR) to provide technical assistance to covered entities. The OCR website provides up-to-date resources and guidance.<sup>3</sup> Additionally:
  - The FDA provides information on its role in regulating medical devices, including Al-based tools.4
  - Professional organizations like the American Medical Association (AMA) and the American College of Radiology (ACR) often
    provide resources and best practice guidelines for the ethical and equitable use of AI in radiology. These include tools like,
    AI Central, which serves as a resource for evaluating imaging AI solutions and the ARCH-AI certification, which recognizes
    sites that use AI safely and effectively.<sup>5</sup>
  - Stay informed about research in medical journal publications highlighting potential biases in Al and algorithms.

#### Q: What is the effective date for the regulation

• The effective date of the final regulation is July 5, 2024. Note that there are multiple compliance dates by which covered entities must comply with different Section 1557 requirements and provisions. The final rule includes a table that summarizes these compliance dates<sup>6</sup>. Several of the compliance requirements are presented below.

Compliance Requirement	Compliance Date
Assign a Section 1557 Coordinator  Provide a Notice of Nondiscrimination to patients and the public	November 2, 2024
Train staff on new policies and procedures Ensure decision support tools are non-discriminatory	May 1, 2025
Develop and implement non-discrimination policies and procedures  Provide notice about available language assistance services and auxiliary aids	May 1, 2025

### Q: What questions should I ask vendors to determine their compliance with Section 1557?

- Does the AI software fall under the jurisdiction of Section 1557 or any state-based non-discrimination laws?
- Does the software consider any input variables protected under Section 1557 or state non-discrminiation laws, such as race, color, national origin, sex, age, or disability? If yes, please state which variables and how they are used in the tool's decision-making process.
- · What steps does the vendor take to mitigate potential harm to patients in protected groups?
- Does the vendor audit software performance to ensure it does not inadvertently discriminate against protected groups?
   If yes, what are the frequency and criteria of such audits?
- How does the vendor ensure transparency around non-discrimination compliance?
- Does the vendor provide training to its staff and clients on non-discrimination and best practices in healthcare software?

## Q: What are the consequences of non-compliance with this rule?

- While the rule itself doesn't specify penalties, non-compliance with Section 1557 can have serious consequences, including:
  - · OCR investigations and potential enforcement actions
  - · Legal action from patients who believe they have been discriminated against
  - · Reputational damage to your practice

<sup>1</sup>HHS website: https://www.hhs.gov/civil-rights/for-individuals/section-1557/index.html <sup>2</sup>Federal Register, 5/6/24: https://www.federalregister.gov/documents/2024/05/06/2024-08711/nondiscrimination-in-health-programs-and-activities <sup>3</sup>HHS Office for Civil Rights: https://www.hhs.gov/ocr/index.html <sup>4</sup>FDA Medical Devices: https://www.fda.gov/medical-device <sup>5</sup>ARCH-Al: https://www.acrdsi.org/DSI-Services/AI-Central/Transparent-AI <sup>6</sup> Compliance date table: https://www.federalregister.gov/documents/2024/05/06/2024-08711/nondiscrimination-in-health-programs-and-activities#:~:text=under%20%C2%A7%E2%80%8992.1(b).-,SUMMARY%200F%20REGULATORY%20CHANG-ES,-For%20the%20reasons