Navigating the AI Frontier:
Regulatory Challenges and Opportunities for State Licensing Boards

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At the Federation of State Medical Boards (FSMB), we proudly support state medical boards within the United States, its territories, and the District of Columbia. We serve our member boards as they fulfill their mandate of protecting the public’s health, safety, and welfare through proper medical regulation, licensing, and disciplining of physicians, physician assistants/associates (PAs), and other healthcare professionals.

FSMB’s top priority is supporting state medical boards in their critical mission of public protection. Our support is vast and diverse and includes:
- Advocacy, Policy, and Communications
- Technology and Information Services
- Educational Programming
- Assessment Services
- Licensing and Disciplinary Data

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What are the Learning Objectives?

- Defining AI
- Regulating AI
- Uses of AI
- Future of AI

What is AI?

- Artificial Intelligence
- Augmented Intelligence
- Machine Learning
- Generative AI
- Natural Language Processing (NLP)
- Large Language Models (LLM)
- Multi-Modal
- Fine-Tuning
- Digital Twins
- Agents
Previously, AI models would analyze the sentence sequentially, processing the word "the" before moving onto "cat" and so on. This took time, and the software would often forget its earlier learning as it read new sentences.
Where is the data coming from?
How is the data "verified"?
What role do humans play?

Uses of AI

Google’s medical AI chatbot is already being tested in hospitals. The Mayo Clinic has reportedly been testing the system since April.

Automatically document care with the Dragon Ambient eXperience. Enhance quality of care, add the patient experience, increase provider efficiency, and satisfaction, and improve financial outcomes with the Dragon Ambient Experience (DAX), an ambulatory clinical intelligence solution that automatically documents patient encounters accurately and efficiently at the point of care.
Introducing GPUs

- Improved efficiency and scalability
- Enhanced data processing capabilities
- Support for deep learning and AI applications

Regulating AI

- Ethics and accountability
- Data privacy and protection
- Algorithmic transparency
- Liability and liability

AI Will Increase Vulnerability of Most Educated Workforce

- Higher education
- Academic degrees
- Professional certifications
- Higher certification
- Employment levels

Claude's Constitution

- Responsible Use Guide
- Ethics and guidelines
- Legal and ethical considerations

Weighing the Risks and Benefits

- Cost-effectiveness
- Efficiency
- Stability and robustness
- Security and privacy

Regulatory Framework

- Compliance with standards
- Monitoring and enforcement
- Public awareness and education

AI and the Future of Work

- Job displacement
- Skill requirements
- Economic impact
- Social implications

Image Analysis

- Computer vision
- Object recognition
- Scene understanding
- Video analytics

Interactive Learning

- Reinforcement learning
- Supervised learning
- Unsupervised learning
- Transfer learning

The Future of AI

- Human-AI collaboration
- Autonomous systems
- Intelligent agents
- Cognitive computing

Education is critical.

Physicians remain accountable.

Informed consent and data privacy are paramount.

Proactively address bias and access.

Anchor AI governance in ethics.

Collaboration is key.
Future of AI

What makes the Empathic Voice Interface (EVI) special?
Questions & Answers

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