AI in **Medicine:**
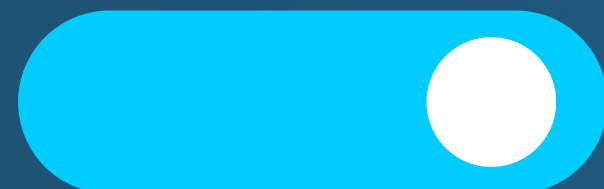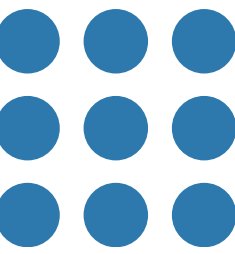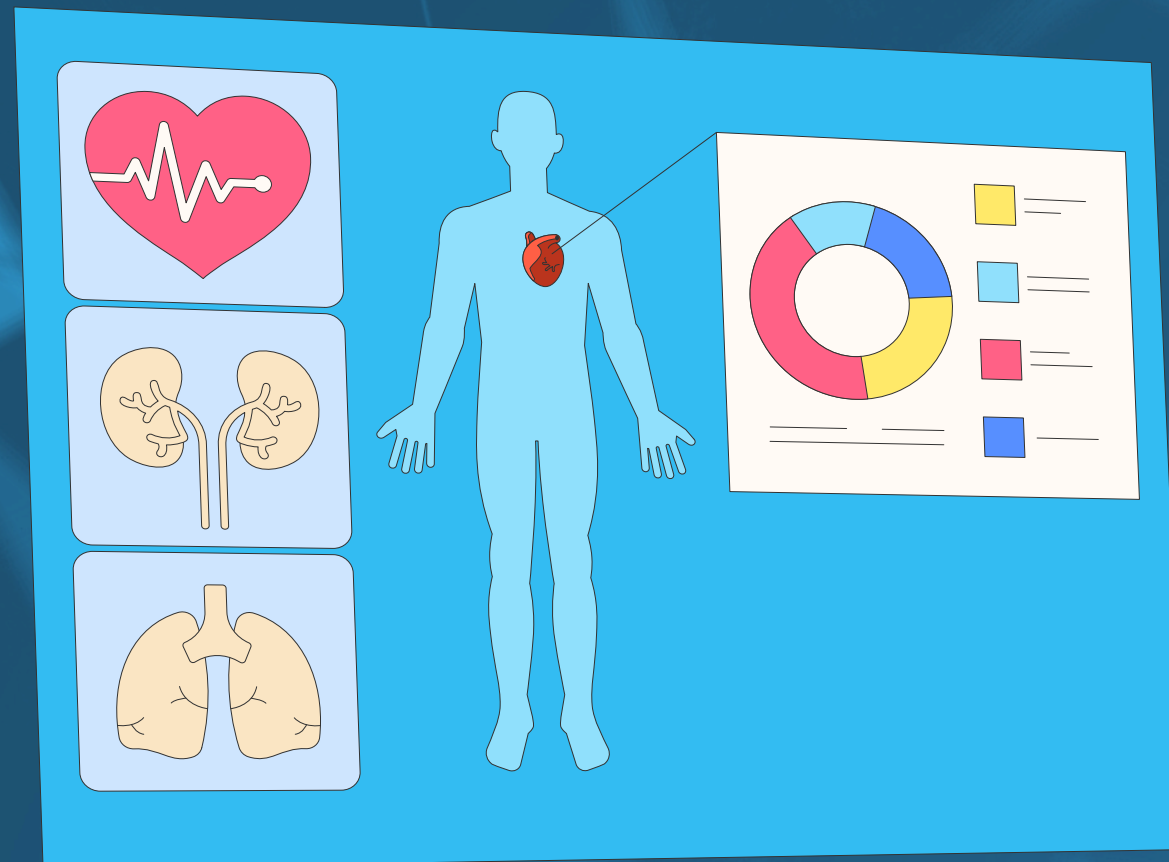
Transforming Healthcare Subtitle:

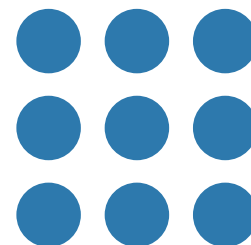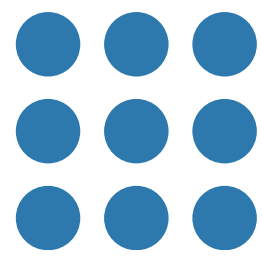The Role of Artificial Intelligence in Modern Medicine Image Suggestion
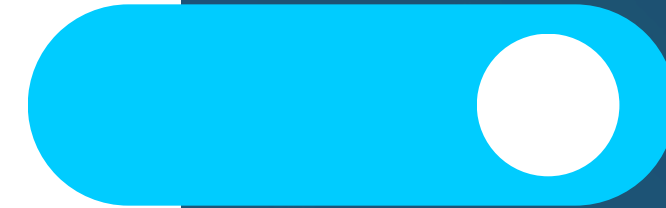
What is AI in Medicine?

TAI refers to the use of machine learning, deep learning, and other computational techniques to enhance medical processes.

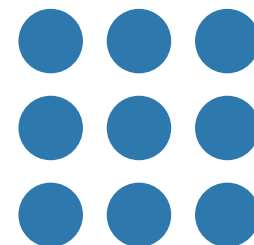It improves diagnosis, treatment, drug discovery, and patient care.

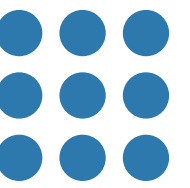# AI in Diagnosis

Enhancing Diagnostic Accuracy Content

✳ AI-powered imaging tools detect diseases like cancer, fractures, and neurological disorders.

✳ AI assists in analyzing medical records to identify potential health risks.
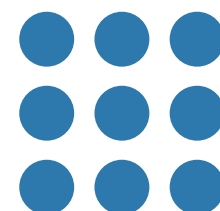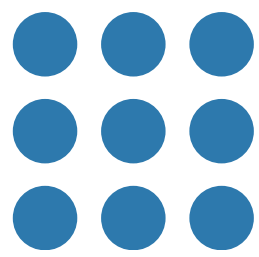
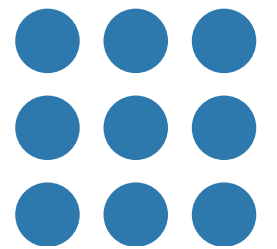# AI in Treatment Planning

Personalized Treatment Approaches

AI helps design customized treatment plans based on patient history and genetic data. ✳

Predictive analytics improve patient outcomes and reduce side effects. ✳
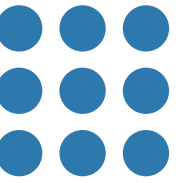
AI in Drug Discovery

Revolutionizing Drug Development

* AI accelerates drug discovery by identifying potential compounds faster than traditional methods.

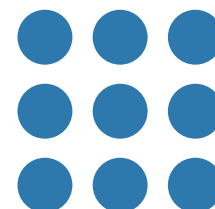* Reduces costs and time required to bring new drugs to market.

AI in Surgery:

Robotic Assistance in Surgery

AI-powered robots assist surgeons with precision and minimally invasive procedures.

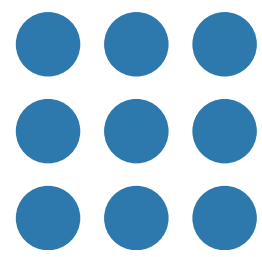Reduces human error and enhances surgical success rates.

Ethical and Regulatory Challenges:
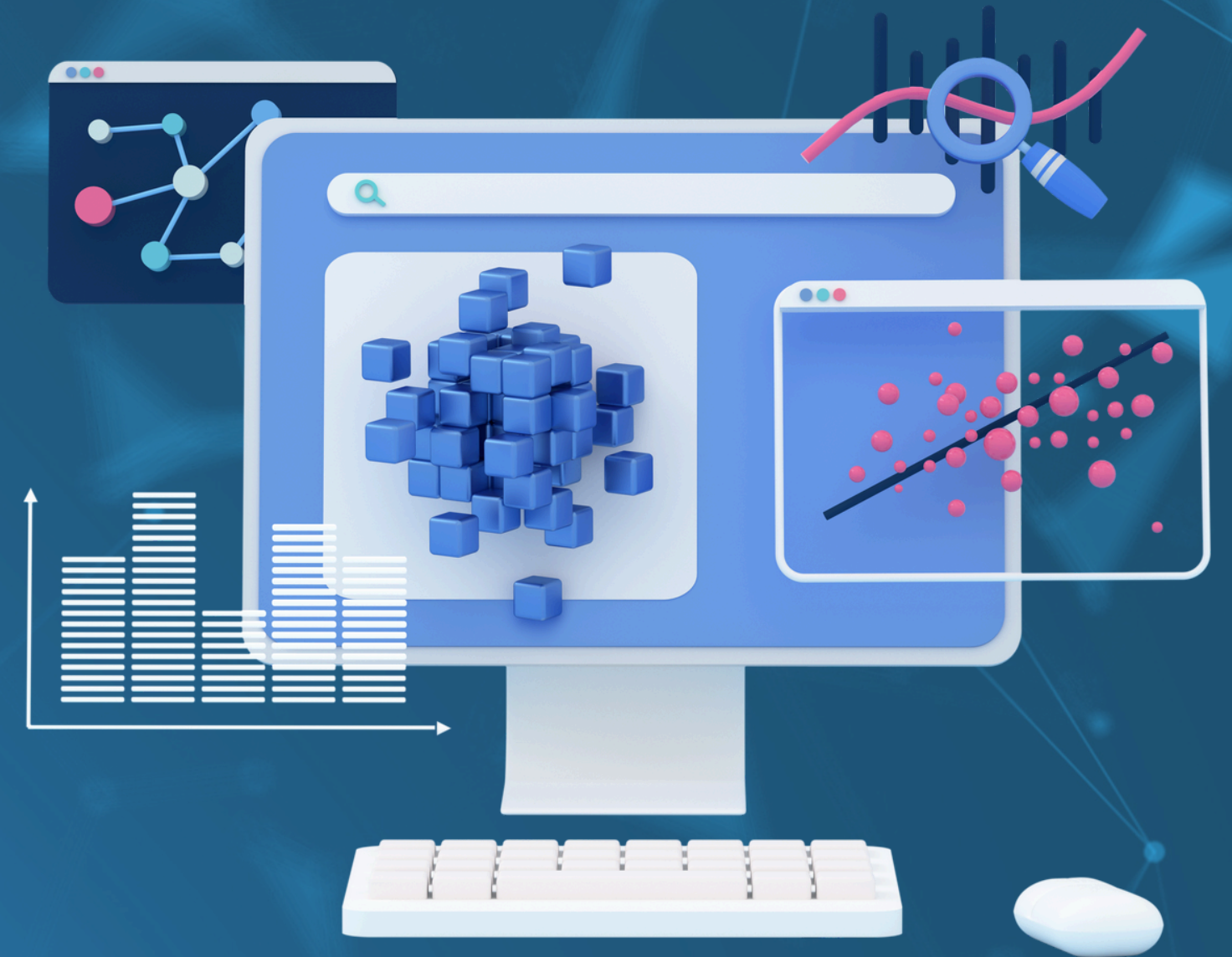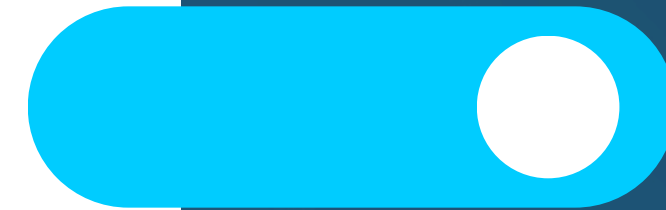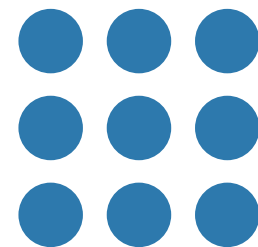
Addressing AI Concerns in Medicine

Privacy and data security issues. ✶

Need for transparent and unbiased AI models. ✶

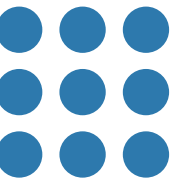Regulatory approval and ethical considerations. ✶

AI in Patient Monitoring:

Real-Time Health Monitoring

✳ AI-driven wearable devices track vitals and detect abnormalities.

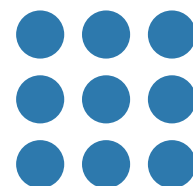✳ Early warning systems help prevent critical health events.
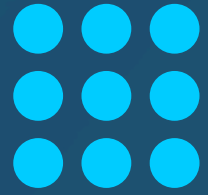
The Future of AI in Medicine:

What Lies Ahead?

Expansion of AI applications in precision medicine. ❋

Integration with telemedicine and remote healthcare. ❋

Continuous improvements in AI-driven diagnostics and treatments. ❋

Conclusion:
AI's Impact on Healthcare

* AI is revolutionizing medicine by improving accuracy, efficiency, and accessibility.

* Ethical and regulatory frameworks are crucial for responsible AI deployment.

* The future of healthcare will be shaped by continuous AI advancements.