How Artificial Intelligence can support Value-Based Healthcare
(Summary)

Artificial intelligence (AI) is transforming healthcare, particularly in the transition to a value-based care system. This care system. This presentation explores how AI can help deliver better outcomes at a lower cost, ultimately ultimately improving the patient experience.

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VaiLNova

Accelerating value through digital co-workers

Quote

"The human touch in medicine is irreplaceable, but when used responsibly, AI can be an invaluable tool to augment human capabilities and improve patient outcomes"

Professor Shafi Ahmed

(https://www.profshafi.com/)

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Defining Value-Based Healthcare (VBHC)

Patient-Centric

Focuses on improving patient outcomes, prioritising their health and well-being.

Cost-Effective

Aims to reduce healthcare costs while maintaining quality of care.

Data-Driven

Relies on data analysis and timely insights to measure performance and identify areas for improvement.

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Challenges in Implementing Value-Based Care

❌ **Data Silos and Data Quality**

Lack of interoperability and data quality between healthcare systems hampers data aggregation and analysis.
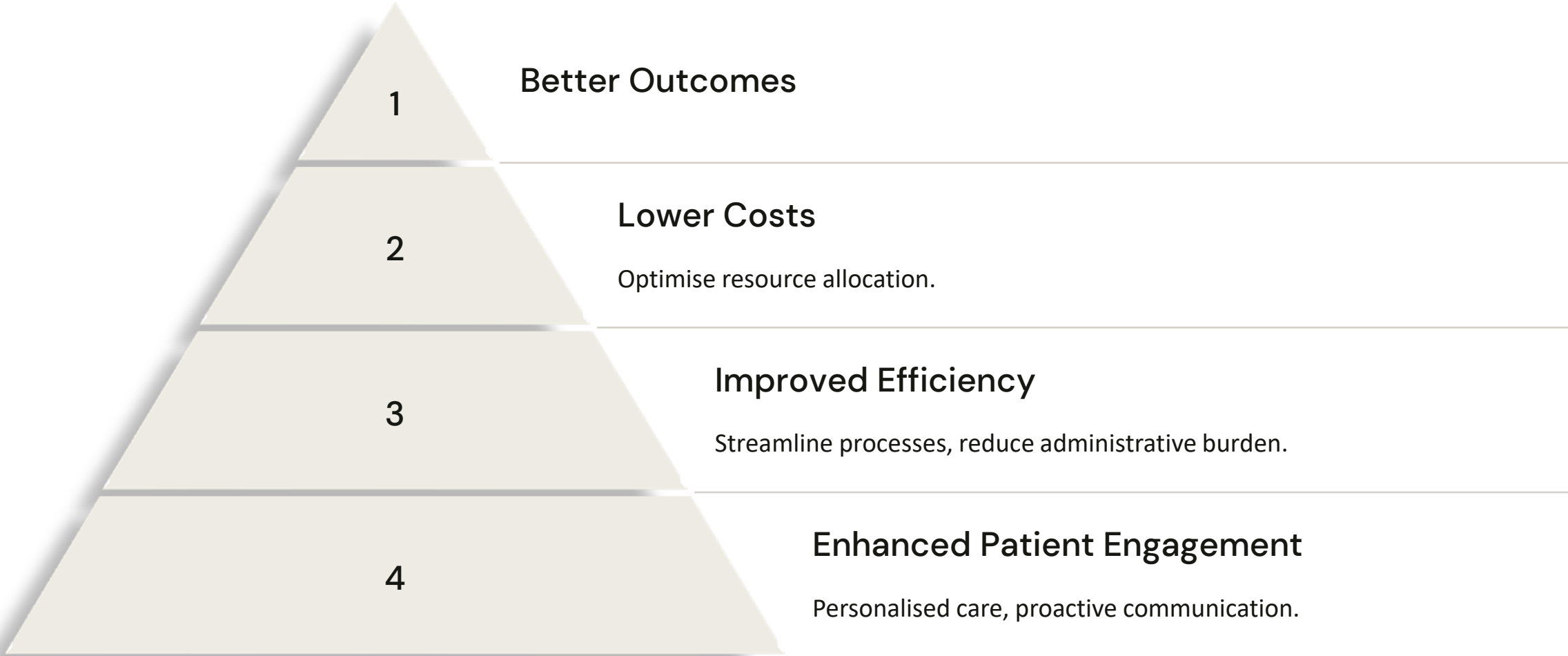
❌ **Physician Resistance**

Some healthcare providers are hesitant hesitant to adopt new technologies technologies and workflows.

❌ **Complexity of Value-Based Metrics**

Measuring and tracking complex value-value-based metrics can be challenging.

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Potential of AI in Value-Based Healthcare

1 Better Outcomes

2 Lower Costs

Optimise resource allocation.

3 Improved Efficiency

Streamline processes, reduce administrative burden.

4 Enhanced Patient Engagement

Personalised care, proactive communication.

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AI in Clinical Decision Support

Predictive Analytics

AI algorithms can predict patient risks and outcomes, enabling early intervention.

Diagnostic Assistance

AI can help interpret medical images and and laboratory results, leading to faster faster and more accurate diagnoses.

Treatment Optimisation

AI can help identify the most effective effective treatment plans based on patient patient data and clinical guidelines.

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Leveraging AI for Population Health Management

1

Risk Stratification

Identify high-risk individuals for targeted interventions.

2

Disease Management

Develop and implement personalised care plans for chronic conditions.

3

Health Promotion

Provide personalised health recommendations based on lifestyle lifestyle and risk factors.

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Enhancing Patient Engagement with AI

1 Personalised Communication

Provide tailored messages and information based on patient preferences.
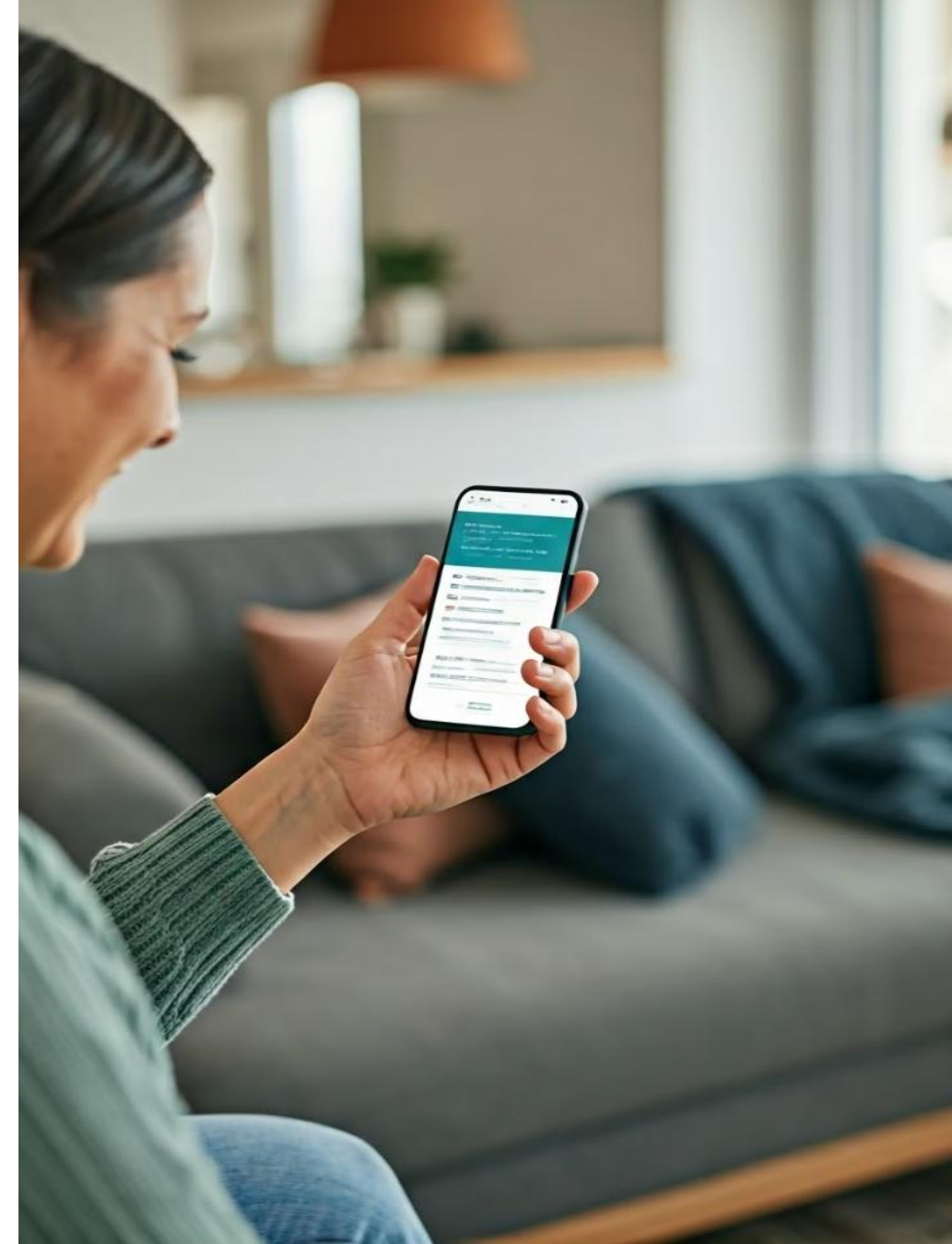
2 Remote Monitoring

Track vital signs and other health metrics, enabling proactive interventions.

3 Virtual and Community Assistants

Answer patient questions, schedule appointments, and provide provide medication reminders.

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Driving Operational Efficiency through AI

Automated Processes

Streamline administrative tasks like tasks like scheduling, billing, and and claims processing.

Resource Allocation

Optimise staffing levels and resource utilisation based on demand forecasting.

Fraud Detection

Identify potential fraudulent activities and prevent unnecessary expenses.

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Conclusion:
The AI-Powered Future of Healthcare

AI is poised to transform healthcare, supporting a value-based care system that delivers better outcomes, lower costs, and improved patient experiences. By embracing AI, we can create a more efficient, effective, and equitable healthcare system for all.

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Quote

"AI in healthcare is not about replacing doctors, but about augmenting their capabilities and improving patient outcomes."

Dr Eric Topol

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Accelerating value using Intelligent automation

Thank you

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