Patient-Centered Outcomes Research in Cancer Care: Leveraging Insights Derived from Big Data

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LEARNING OBJECTIVES:

1. Identify four trends, opportunities, or challenges posed by big data science.
2. Discuss two measurement systems or research resources that oncology nurses can employ to derive new knowledge and improve patient-centered outcomes in cancer care.
3. Describe three implications of big data for infrastructure development, analytics, and capacity building in oncology nursing.

PRESENTATION SUMMARY:

This presentation examines the trends, opportunities and challenges of big data science to improve outcomes and care quality for patients during and following cancer treatment. Selected measurement systems and data resources relevant to patient-centered outcomes research using big data will be reviewed. The use of selected research resources to generate new data-driven insights about patient-centered outcomes important to the delivery of cancer care will be illustrated. The implications of the growing importance of big data for infrastructure development, analytics, capacity building, training, and career development are highlighted.