

1 **Point-of-Care Data: An Integral Element to Improving Clinical Practice and Advancing the Profession**

Kenny Lam, ScD, ATC, FNATA

Professor of Clinical Research, A.T. Still University

Director, Athletic Training Practice-Based Research Network (AT-PBRN)

2 **Important Notes:**

- No conflicts of interests to report

3 **Objectives**

- Why should I care about data?
 - The importance
 - Use cases
- How should I collect data?
 - Electronic medical records
 - Computers, tablets, mobile devices
- What are the benefits?
 - Professional level
 - Local level

4 **Why should I care about data?**

- We live in a data-driven world
 - An expectation of the contemporary healthcare provider
- Essential to the advancement of the athletic training profession
- Local benefits
 - Enhance quality
 - Improve performance
 - Inform decisions: patient care and organizational

5 **How should I collect data?**

- The tools to collect data
 - Electronic medical records
 - Computers, mobile devices, tablets
 - Spreadsheet software
 - A simple counting system
- The type of data to collect
 - Start simply: answer a simple clinical question
 - Will depend on what (specifically) you are trying to do

6 **Electronic Medical Records**

- Patient documentation = excellent source for data!
- If used effectively, can be a 2-for-1
 - Comprehensive clinical documentation of patient care
 - Analysis of clinical practice characteristics
- Should incorporate and capture all practice characteristic variables
 - eg, sport, injury, ICD codes, CPT codes, fee schedules

7 **Some Basic Clinical Questions We Should All Be Able to Answer with Point-of-Care Data**

- Can you demonstrate that “prevention” is a primary component of your routine practice?
- Can you estimate the costs related to the services you provide to your patient panel?
- Can you demonstrate the impact of your care on your patient?

8 **Athletic Training Practice-Based Research Network**

- CORE-AT Electronic Medical Record
 - Web-based, HIPAA-compliant EMR

- FREE for ATs to use
- Learn more at → atpbrn.org

- The importance of characterizing clinical practice
 1. Patient characteristics
 2. Treatment characteristics
 3. Value characteristics
 - Includes cost and quality
 - Perception of value will change based on the party/role
 - Eg, patient, clinician, administrator, human resources, legal

9 **Quality of Care: The Six Dimensions of Care**

- Safe
- Timely
- Efficient
- Effective
- Equitable
- Patient-centered

10 **Other Tools: Spreadsheet Software**

- Devices
 - Computers, laptops
 - Mobile devices: tablets, smartphones
- Examples
 - Excel
 - Google Sheets
- Major benefits
 - Software is readily available
 - Plenty of resources to learn from
 - YouTube
 - Chat GPT

11 **A Simple Counting Exercise**

- What you need to do...

1. Identify a practice component to characterize
2. Identify variables needed to characterize the practice component
3. Create a system and process by which to collect the needed data
4. Aggregate data and create a report

12 **Basic Functions: Collecting Data**

- Data validation
 - Drop-down menus for stock variables
 - eg, sex: male, female, etc.
 - eg, sport: soccer, volleyball, etc.
 - eg, treatment: CPT code
 - eg, body part: ankle, knee, etc.

13 **Basic Functions: Collecting Data**

- Data validation
 - Drop-down menus for stock variables
 - eg, sex: male, female, etc.
 - eg, sport: soccer, volleyball, etc.
 - eg, treatment: CPT code
 - eg, body part: ankle, knee, etc.
- VLOOKUP
 - Auto-populates an entry in one column based on the entry in another column
 - eg, based on CPT code, enter cost

14 **Basic Functions: Analyzing Data**

- Pivot table
 - Aggregates data to produce basic reports
- Mathematical functions
 - Frequency counts (sum)
 - Averages (avg)
 - Calculations between columns (eg, multiplication)

15 **Potential Benefits**

- Essential to the advancement of the athletic training profession
- Local benefits
 - Enhance quality
 - Improve performance
 - Inform decisions: patient care and organizational

16 **Potential Benefits**

- An example: Southeast Missouri State University
 - Use of foot traffic data to inform staffing decisions
 - Use of diagnostic code to determine if more healthcare providers are needed to provide comprehensive care to patients
 - Eg, need for dietitians and mental health professionals for patients at risk of eating disorders and mental health conditions

17 **Take Home Points**

- We live in a data-driven world
 - We collect a lot of point-of-care data that can be used to improve clinical practice and enhance patient care
- Use the tools that fit well into your natural workflow
 - EMRs, spreadsheet software, or marbles!
- Simple data can led to meaningful changes and improvements
 - Better work-life balance, better care for patients

18 **Contact Me**

Kenny Lam, ScD, ATC, FNATA
Professor of Clinical Research, A.T. Still University
Director, Athletic Training Practice-Based Research Network (AT-PBRN)
klam@atsu.edu
@KennyLam_
atpbrn.org