

Awardee of The Office of the National Coordinator for Health Information Technology

Component 10 – Fundamentals of Workflow Process Analysis and Redesign

Unit 10.5-1 - Process Analysis

This reserve was developed by Done University, funded by she Daga meets of Health and Jumes Services. Office of the National Cool Inselfs information Technology under Avesat National (USAC SURVICE).

Objectives

- · Describe the purpose of Process Analysis
- Describe skills and knowledge necessary for Process Analysis
- Perform a process analysis for a given clinic scenario
- Given results of a process analysis, draft a summary report
- Given results of a process analysis identify desired electronic medical record functionality

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Topics - Unit 10.5

- · Objectives of Process Analysis
- Process Analysis skills and knowledge
- Steps for Process Analysis
- Clinical Practice Processes
- · Process Variations and Exceptions
- Identifying EHR functionality from Process Analysis

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"You can only elevate individual performance by elevating that of the entire system."

- W. Edwards Deming



Public domain photograph of W. Edwards Deming obtained from http://commons.wikimedia.org/

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Definitions

Definitions:

- Process²
- Process Analysis
- Process Improvement

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Process

- Series of actions or operations conducing to an end
- Continuous operation or treatment

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Process Analysis

- Understanding process elements and the relationships between them
- As well as identification of opportunities for improvement

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Process Improvement

Making changes to a process to make it better in some way

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Process Analysis Skills

- At ease with data and data system concepts
- At ease with clinical workflow concepts
- Able to communicate such concepts
- Able to identify problem areas

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Framework for Process Analysis

- Form an objective picture of the process, process variations and exceptions
- Translate this information into a list of Electronic Medical Record functions needed at a clinic

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Steps for Process Analysis

- · Start with process inventory and diagrams
 - Context diagram showing clinic functions
 - Flowchart for each process
- · For each process, list
 - Variations applicable to the clinic
 - Exceptions
- · Report findings
 - Major observations
 - EHR functionality necessary to support clinic functions
 - Opportunities for improvement

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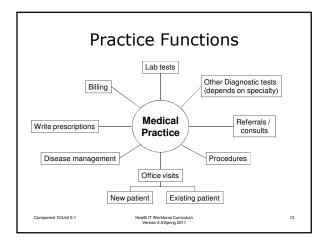
Process Inventory

- · Identification of main clinic processes
- Analyst works with clinic leadership to identify high priority processes
- · Select processes are analyzed
 - Some can't be improved
 - Some the gain is too small
 - Some can be improved, but by means other than use of health IT

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Practice Process List

- · Patient check-in
- · Patient visit
- Prescriptions
- · Assimilating received documentation
- Labs
- Other Diagnostic Tests
- · Referral / consult
- · Disease Management
- Billing

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Process Inventory

- List of the main processes used by a practice
- Specifies common variations and exceptions

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Process Variations and Exceptions

Variations: processes used by the clinic

Exceptions: errors or common odd things that occur during the process

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Conclusion

This concludes the first of two lectures for the Process Analysis Unit.

You may go on to the second lecture or stop and return to the second lecture at a later time.

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References

- Deming, W. Edwards. *Out of Crisis.* MIT Press, Cambridge, Massachusetts 1982. *Merriam-Webster Online Dictionary*, July 17, 2010, Available from http://www.merriam-webster.com/dictionary/process. American Society of Quality Glossary, Available from http://asq.org/glossary/p.html.

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