Slide 1

Digital Mammography and PACS

Issues to consider
Impact on existing PACS
Vendor Capabilities
Network Requirements
Data Storage
Short and Long term

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Slide 2

Digital Mammography and PACS

Issues to consider
Impact on existing PACS
Vendor Capabilities
Network Requirements
Data Storage
Short and Long term

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Slide 3

Digital Mammography and PACS

Issues to consider
Impact on existing PACS
Vendor Capabilities
Network Requirements
Data Storage
Short and Long term

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Slide 4

Digital Mammography and PACS

Vendor Capabilities
What field sizes are available?

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Slide 5

Digital Mammography and PACS

Vendor Capabilities
What are the implications of a
large field size detector?

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Slide 6

Digital Mammography and PACS

Vendor Capabilities
What networking protocols are
available?

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Slide 7

Digital Mammography and PACS

Vendor Capabilities
**How will technologists
workflow change?**

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Slide 8

Digital Mammography and PACS

Vendor Capabilities
**Will workflow changes affect
network requirements?**

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Slide 9

Digital Mammography and PACS

Vendor Capabilities
**How will radiologist
interpretation be changed?**

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Slide 10

Digital Mammography and PACS

Vendor Capabilities
How will images be distributed without film?

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Slide 11

Digital Mammography and PACS

Vendor Capabilities
How will hard copy image quality be affected?

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Slide 12

Digital Mammography and PACS

Issues to consider
Impact on existing PACS
Network Requirements
Data volumes short and long term
        Storage
        Retrieval
        Redundancy

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Slide 13

Digital Mammography and PACS

Network Requirements
What configurations are
available?

Slide 14

Digital Mammography and PACS

Network Requirements
What network speed is
available?

Slide 15

Digital Mammography and PACS

Network Requirements
What speeds and architecture
does the vendor support?

Slide 16

Digital Mammography and PACS

Network Requirements
What physical network media is
available and what is required?

Slide 17

Digital Mammography and PACS

Network Requirements
What hardware is required for
the communication closets?

Slide 18

Digital Mammography and PACS

Network Requirements
Where will network runs and
drops be needed?

Slide 19

Digital Mammography and PACS

Network Requirements
How much will required upgrades cosat?

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Slide 20

Digital Mammography and PACS

Issues to consider
Impact on existing PACS
Network traffic
Data volumes short and long term
    Storage
    Retrieval
    Redundancy

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Slide 21

Digital Mammography and PACS

Data Volume
How many images are currently being produced?

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Slide 22

Digital Mammography and PACS

Data Volume
Will the image number change
after converting to digital?

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Slide 23

Digital Mammography and PACS

Data Volume
Will exam efficiency, lead to
increased throughput?

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Slide 24

Digital Mammography and PACS

Data Volume
What impact will large or small
field sizes have on data
volume?

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Slide 25

Digital Mammography and PACS

Data Volume
Will the absence of a large field size result in additional images?

Slide 26

Digital Mammography and PACS

Data Volume
Will Computer Aided Diagnosis (CAD) result in increased data volume?

Slide 27

Digital Mammography and PACS

Data Storage – Long Term
How much data is generated per machine?

Slide 28

Digital Mammography and PACS

Data Storage – Long Term
What is the total amount of data generated each year?

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Slide 29

Digital Mammography and PACS

Data Storage – Long Term
What compression is available?

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Slide 30

Digital Mammography and PACS

Data Storage – Long Term
What are the storage time requirements?

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Slide 31

Digital Mammography and PACS

Data Storage – Long Term
**Can the existing archive handle
the additional data volume?**

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Slide 32

Digital Mammography and PACS

Data Storage – Long Term
What are the I/O requirements?

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Slide 33

Digital Mammography and PACS

Data Storage – Long Term
**Can the existing archive handle
the I/O requirements?**

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Slide 34

Digital Mammography and PACS

Data Storage – Long Term
How much will required
upgrades cost?

Slide 35

Digital Mammography and PACS

Data Storage – Short Term
What configurations are
available?

Slide 36

Digital Mammography and PACS

Data Storage – Short Term
How long are images needed in
fast storage?

Slide 37

Digital Mammography and PACS

Data Storage – Short Term
What are the I/O requirements?

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Slide 38

Digital Mammography and PACS

Data Storage – Short Term
How much storage is required?

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Slide 39

Digital Mammography and PACS

Data Storage – Short Term
What redundancy is required?

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Slide 40

Digital Mammography and PACS

Data Storage – Short Term

**Which vendors supply
appropriate boxes?**

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Slide 41

Digital Mammography and PACS

Data Storage – Short Term

**Will the sizing affect the long
term archival requirements?**

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Slide 42

Digital Mammography and PACS

Data Storage – Short Term

**Will the sizing affect network
requirements?**

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Slide 43

Digital Mammography and PACS

Issues to consider

Impact on existing PACS
Network traffic
Data volumes short and long term
    Storage
    Retrieval
    Redundancy