Telepathology
rapid turnaround time &
meeting personnel needs

Disclosure of Relevant
Financial Relationships

USCAP requires that all planners (Education Committee) in a position to influence or control the content of CME disclose any relevant financial relationship WITH COMMERCIAL INTERESTS which they or their spouse/partner have, or have had, within the past 12 months, which relates to the content of this educational activity and creates a conflict of interest.

650,000
Cancer cases
510,000
Cancer related deaths

Year 2030
1.28 M
Cancer cases
970,000
Cancer related deaths

300,000
women die each year
from cervical cancer
Large abdominal wall mass... What do you do?

Biopsy?
- Large lesion... non-diagnostic?
- Have to do additional surgery?
- Benign or malignant?
- Patient’s desires?

Resection?
- Large lesion... repair of wall?
- Definitive diagnosis
- Patient’s desires?

Case courtesy of Dr. Brian Camazine and Dr. Dan Milner.
**Final Anatomical Diagnosis**

Monophasic Synovial Sarcoma (malignant)

IHC* + for TLE-1 and EMA, - for keratin/CD34

Margins of resection are clear

Had adjuvant radiotherapy due to location

Patient disease free at 2 years with minimal abdominal wall scar

**Important Features for a Successful Outcome in This Case...**

- Clinical photographs
- Wide resection margins
- Gross photo of tumor
- Tissue placed in appropriate amount of formalin
- Wide sampling of tumor
- Access to immunohistochemistry

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**Cancers where we could make an impact**

*(not all-inclusive list)*

- **Diseases amenable to risk reduction**
  - Tobacco related – lung, head and neck, bladder
  - HPV – cervical, head and neck
  - Hepatitis, alcohol - hepatocellular

- **Diseases curable with early detection and treatment including surgery**
  - Breast cancer
  - Cervical cancer

- **Diseases curable with affordable chemotherapy**
  - Non-Hodgkin’s Lymphoma (Burkitt’s/Large cell)
  - Hodgkin’s Lymphoma, Testicular cancer
  - Sarcoma in children, Acute Lymphoblastic Leukemia in children

- **Diseases palliated with systemic treatment**
  - Chronic Myelogenous Leukemia
  - Kaposi’s sarcoma

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**Number of People Served By Each Pathologist in Sub-Saharan Africa**

- No Active Pathologist
- >5.0 million
- 2.5-5.0 million
- 1.0-2.5 million
- 500,000-1 million
- 200,000-500,000
- Data Not Available

Number of People Per Pathologist:

- UK*: 25,308
- US*: 19,232

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**The Continuum of Care and Services**

- Education
- Screening
- Early Detection Care
- Prevention
- Diagnostics
- Treatment
- Survivorship
- Palliative Care

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**Patient Care Work Flow**

- Repeat Biopsy
- Special Stains (IHC, immuno)
- Pathologist Cytologist
- Laboratory
- Internist Oncologist
- Surgeon

- Sample
- Surgery Dermatology GYN
- Pathologist

- Clinical Stage
- Inadequate Insufficient Correlation

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**Visual College of Pathologists, 2013**

*Anatomic and Clinical Pathologists, AAMC, 2007
Without an intact system, healthcare is inferior and non-functional

The Cogs of the Wheel

Clinicians without pathology labs can not:
- Predict recurrence
- Plan additional surgery
- Inform patient of results

Pathology labs without clinicians:
- Are not held to turn around time
- Are reporting results to the air
- Do not contribute to outcomes

Delays in diagnosis:
- Invalidate results (good or bad)
- Cause apathy among surgeons and clinicians
- Decrease the quality of care for all patients

NCDs In LMICs
2015-2035
$21.3 Trillion

Telepathology as a solution...

Static image
Transfer of still images from MD to MD
Dynamic image
Transfer of live images from slide to MD
Whole Slide image
Transfer of whole image from server to MD
Automated Histology
Computer-assisted/directed slide review

$150 Million

Partners for Cancer Diagnosis and Treatment in Africa
Leapfrog Histopathology / Telepathology Process

8000 academic pathologist members
91,000 laboratory professional members
1. Haiti  
2. Mali  
3. Liberia  
4. Ivory Coast  
5. Ghana  
6. Ethiopia  
7. Kenya  
8. Uganda  
9. Rwanda  
10. Tanzania  
11. Congo  
12. Zambia  
13. Malawi  
14. Mozambique  
15. Swaziland  
16. Lesotho  
17. South Africa  
18. Botswana  

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Thank You