

History and Future of Endoscopic Ultrasound (EUS)

History and Future of EUS

- ▶ 1966
- ▶ PDL's 2nd year medicine

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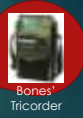
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Leonard
"Bones" McCoy
Father of Modern Medicine

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Bones'
Tricorder

Father of Modern Medicine

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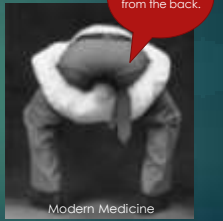
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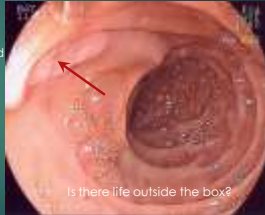
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Is there life outside the box?

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Is there life outside the box?

- ▶ Issues
- safety (radiation), cost, resolution (accuracy), specificity

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Creation of life outside the box

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Creation of life outside the box
Let there be life, light, and sound!

▶ EUS

- ▶ 1980 – Eugene DiMugno
Lancet: "Ultrasonic Endoscope"

History and Future of EUS

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- ▶ 1995 – linear ultrasonography (EUS – guided biopsies)

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- ▶ EUS
- ▶ 2015 - esophagus/mediastinum



Esophageal wall cyst

History and Future of EUS

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Metastatic lung CA

History and Future of EUS

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Esophageal cancer

History and Future of EUS

- ▶ EUS
- ▶ 2015 - esophagus/mediastinum
- stomach



Metastatic breast CA

History and Future of EUS

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- ▶ 2015 - esophagus/mediastinum
- stomach



Lipoma

History and Future of EUS

- ▶ EUS
- ▶ 2015 - esophagus/mediastinum
- stomach
- biliary



Primary sclerosing cholangitis

History and Future of EUS

- ▶ EUS
- ▶ 2015 - esophagus/mediastinum
- stomach
- biliary



Cholangiocarcinoma

History and Future of EUS

- ▶ EUS
- ▶ 2015 - esophagus/mediastinum
- stomach
- biliary
- liver



Metastatic pancreas CA

History and Future of EUS

- ▶ EUS
- ▶ 2015 - esophagus/mediastinum
- stomach
- biliary
- liver
- pancreas



Pancreas adenocarcinoma

History and Future of EUS

- ▶ EUS
- ▶ 2015 - esophagus/mediastinum
- stomach
- biliary
- liver
- pancreas



Pancreas mass

History and Future of EUS

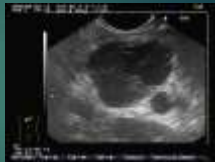
- ▶ EUS
- ▶ 2015 - esophagus/mediastinum
- stomach
- biliary
- liver
- pancreas



Pancreas neuroendocrine tumor

History and Future of EUS

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- biliary
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Mucinous cystadenoma

History and Future of EUS

- ▶ EUS
- ▶ 2015 - esophagus/mediastinum
- stomach
- biliary
- liver
- pancreas
- other



Adrenal metastasis - lung CA

History and Future of EUS

- ▶ EUS
- ▶ 2015 - esophagus/mediastinum
- stomach
- biliary
- liver
- pancreas
- other
- rectal



Gastrointestinal stromal tumor

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- ▶ EUS - present
- ▶ 2015 -

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 - ▶ 2015 - any orifice for superior staging and definitive diagnoses

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 - stents - bile duct and gallbladder ("PTC")

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 - elastography to assess lesion "stiffness" (infiltration)

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 - contrast agents to enhance images

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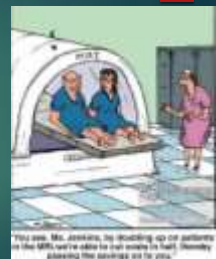
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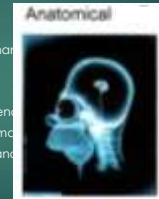
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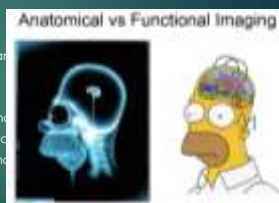
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