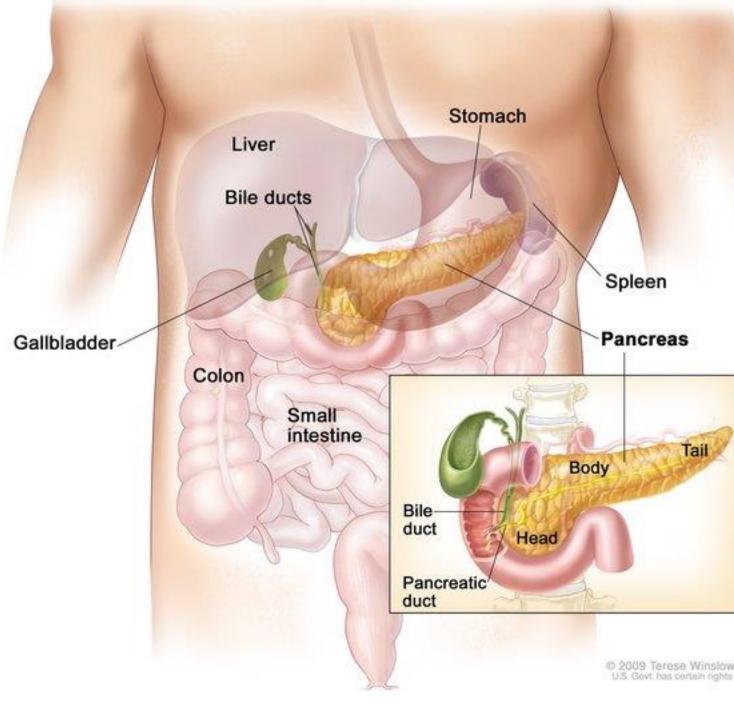
# **CASE REPORT OF CORTISOL-INDUCED PANCREATITIS**

# Background

- Acute Pancreatitis is an inflammatory process that affects the pancreas
- Annual Incidence of acute pancreatitis is 4.9-35 per 100,000 population
- Mortality rate: 5%
- A case of sixty-three-year-old Hispanic male admitted for acute pancreatitis and found to have hypercortisolism with an adrenal adenoma

# Objective

- Diagnosis is made when two of three criteria's are met:
  - 1. Characteristic abdominal pain (sudden onset, epigastric pain, radiation to the back, associated with Nausea and Vomiting)
  - 2. Elevation of serum lipase/amylase 3x upper limit of normal
  - 3. Findings on imaging
- Managed with IVF, pain control, bowel rest with early feedings as tolerated



Pancreatitis National Institute of Health Image Gallery - Flickr

# **Case Presentation**

- Sixty-three-year-old Hispanic male presented with sudden onset, diffuse abdominal pain of 2 hours duration.
- Never experienced this pain before
- Past medical history of seizures secondary to brain trauma 30 plus year prior to admission
- Currently taking Carbamazepine and Topiramate
- Denies history of alcohol abuse

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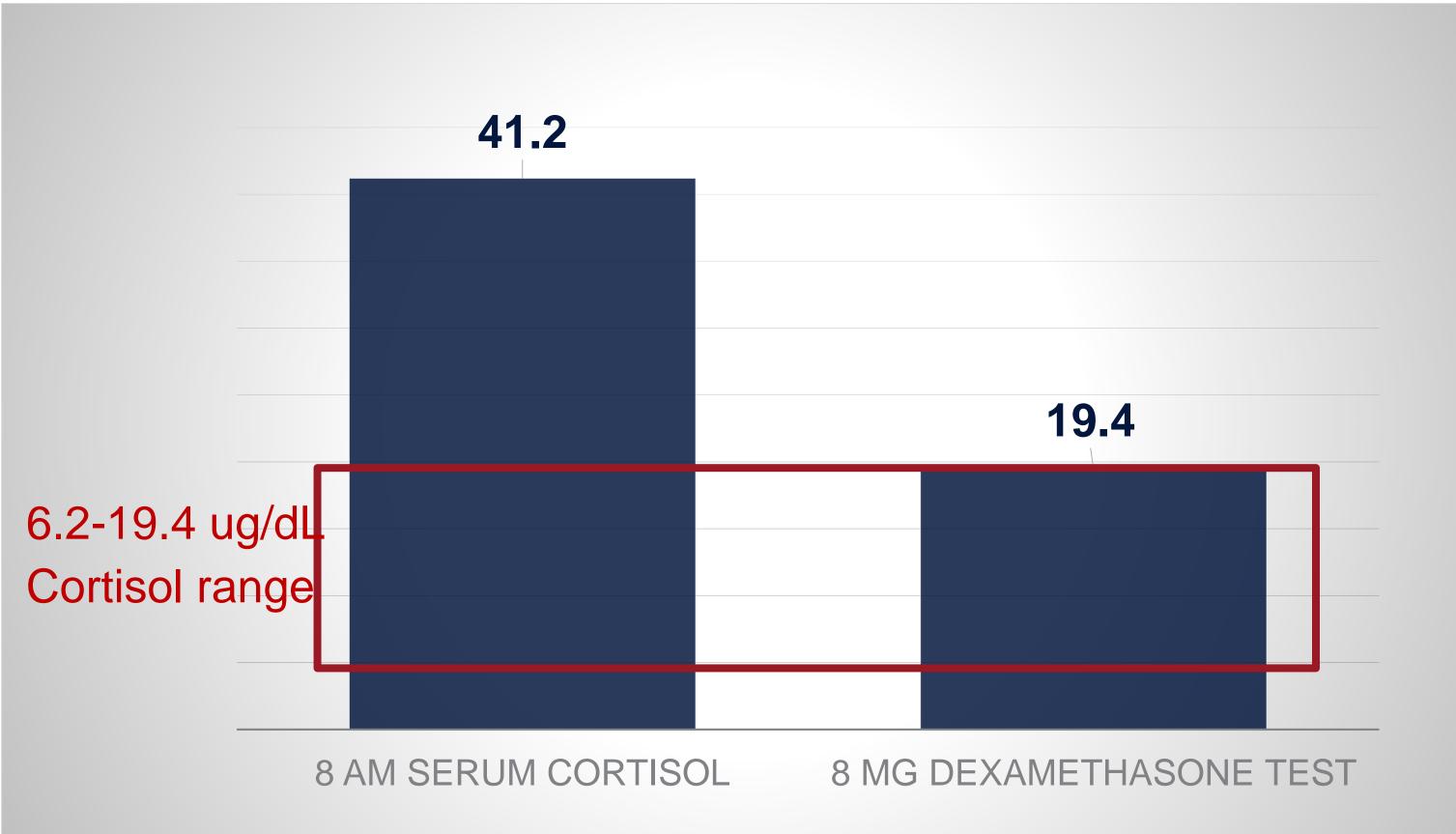


- Afebrile, hemodynamically stable
- Diffuse abdominal pain with guarding, 8/10, no radiation
- Associated with one episode of nausea and vomiting
- Initial Labs: WBC 18.2, lactic acid 3. 61, Lipase >3500
- Remaining labs were unremarkable
- Abdomen and pelvis CTA showed mild inflammation surrounding the pancreas, left adrenal adenoma 6.6 cm (Figure 1)
- Abdominal US was negative for gallstones
- Carbamazepine level was normal 10.6
- Topiramate level was low at 1.8

### Table 1. Lipid profile

	LIPID PROF
Triglycerides	51 mg/
Cholesterol	151 mg
LDL	68 mg/
VLDL	10 mg/
HDL	73 mg/

# **Cortisol Levels**

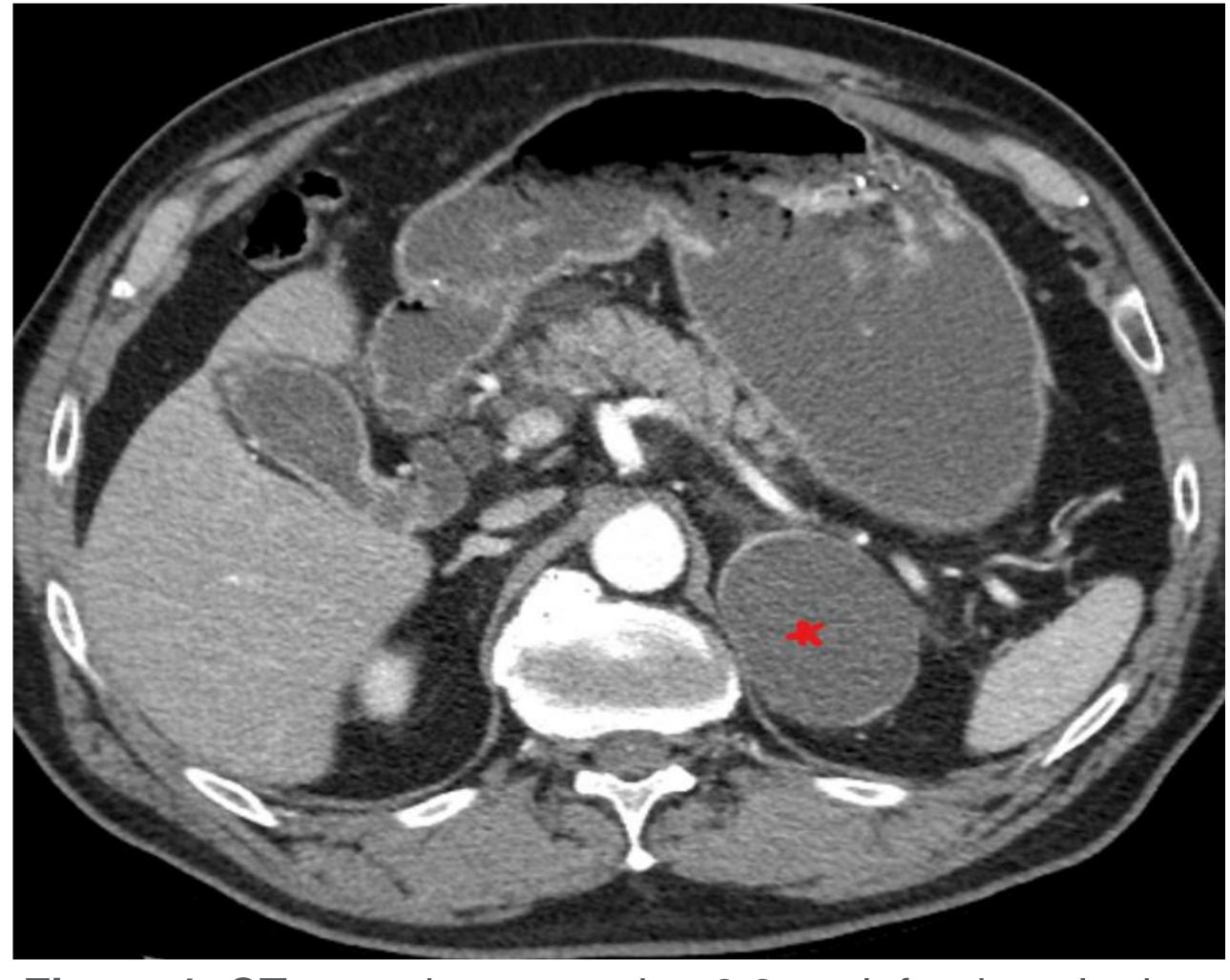


Graph 1. Cortisol level before and after 8mg dexamethasone test

# Examination

### ILE

- /dL (0-150)
- ng/dL (0-199)
- g/dL (90-200)
- /dL (8-30)
- /dL (35-60)



- hospitalization
- Main etiologies
- Gallstone 40-70%
- Alcohol 25-35 %
- Hypertriglyceridemia 1-14%
- valproic acid, glucocorticoids

- levels and pancreatitis

Pancreatitis. National Institutes of Health Image Gallery- Flicker. Retrieved March 5, 2024. https://www.flickr.com/photos/nihgov/



### Imaging

Figure 1. CT scan demonstrating 6.6 cm left adrenal adenoma.

# Discussion

Acute pancreatitis is a common gastrointestinal disorder that requires

• Post-ERCP, genetic risk, medications such as Carbamazepine,

Management is through pain control, intravenous hydration, bowel rest with evidence of early feedings as tolerated

# Conclusion

Patient was discharged with a diagnosis of cortisol-induced pancreatitis and a follow up with Endocrinologist

Provides awareness to health care providers regarding high cortisol

# References

- Vege S. (year). Etiology of acute pancreatitis. UpToDate. Retrieved January 27, 2024 from https://www.uptodate.com/contents/etiology-of-acute-pancreatitis.
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