

# AUDIT TO EVALUATE IMAGING OF ACUTE PANCREATITIS

Ashfaq Ahmad, Ummara Siddique, Muhammad Abdullah, Mohsin Khan, Nosheen zahir, Rehman Medical Institute. Peshawar, Pakistan

## Objective:

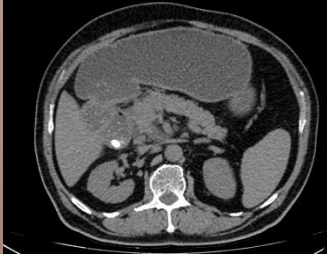
To evaluate CT pancreatic dynamic within 72-96 hours of initial symptoms for detection and staging of severity of acute pancreatitis.

## Methodology:

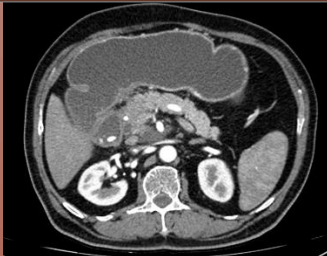
Descriptive prospective study was conducted over a span of 06 months from January 2022 till July 2022 in Radiology department of Rehman Medical Institute. Twenty-two successive patients presenting to the ED (emergency department) with suspicion of acute pancreatitis based on clinical and lab findings were taken. CT pancreatic dynamic were then suggested to them. We collected the data of these patients from HMIS (Health Management Information System) and noted down in a digital spread sheet. This data was then analyzed.

## CT Pancreatic Dynamic Protocol

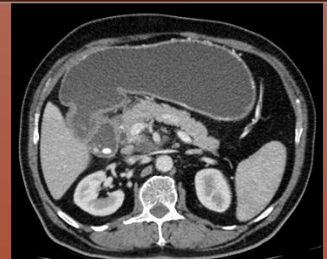
### Non contrast phase



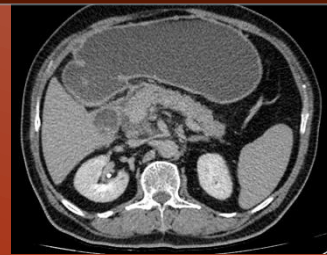
### Arterial phase



### Arterial phase



### Arterial phase



## Results:

The target of this audit was to do CT pancreatic dynamic in 95% of the patients with suspicion of pancreatitis within 72-96 hours of initial presentation. Out of 22 patients, 16 (72%) of our patients had CT pancreatic dynamic within this range. Rest of the scans were conducted later due to various reasons.

## Cases

### Case:1



CT Pancreatic dynamic of a 32-year-old female showing diffuse bulky pancreas with peripancreatic fat stranding. Other image showing its etiology i.e gall stones.

### Case: 2



CT scan of a 45-year-old male patient showing diffuse peripancreatic fluid collections and fat stranding, suggestive of acute pancreatitis.

## Conclusion:

The target of 95% for all standards was not achieved in the current study. Re audit should be done in 12 months along with collaboration from general surgeons.

## References:

1. Cook AE, Jalavu TP, Zemlin AE. Audit of amylase and lipase requests in suspected acute pancreatitis and cost implications, South Africa. Afr J Lab Med. 2022 Sep 26; 11(1):1834.2. Busireddy KK, AlObaidy M, Ramalho M, Kalubowila J, Baodong L, Santagostino I, Semelka RC. Pancreatitis-imaging approach. World J Gastrointest Pathophysiol. 2014 Aug 15; 5(3):252-70.