CHRONIC PANCREATITIS

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Introduction

CP is a continuing inflammatory disease of the pancreas, characterized by:
 progressive and irreversible morphological changes of the gland



permanent impairment of exocrine and endocrine function

CP is a very rare disease
The incidence rate is around:
4 – 10 cases/100.000 people/years
Recent data support an increasing incidence
Indonesia?

Etiology:

Alcohol (major etiologic factor – Western countries)
Tropical pancreatitis
Rare hereditary pancreatitis
Unknown etiology

Acute vs Chronic Pancreatitis

 clinical syndrome of acute attack can be seen in both acute and chronic pancreatitis



clinical classification of acute vs chronic have no diagnostic value

 From the point of view of etiology and pathology AP and CP are entirely different entities.

Pathophysiology

Stone theory:

primary abnormality is formation of protein plug due to congenital lack of lithostatine

Necrosis-fibrosis theory: fibrosis and ductal stricture due to local inflammation and necrosis

Diagnosis

The diagnosis of primary chronic pancreas:

- Specific clinical feature
- calcification of the pancreas
- ductal changes

Clinical finding

Typical pancreatic pain is the major symptom

- Spontaneous and post-prandial pain may reflect neuropatic pain disorders
- Location of pain usually epigastric radiating to the back
- frequency increase with year until almost persistent

Nausea and vomiting

- quite frequent
- sometimes associated with duodenal stenosis

Ascites and left side pleural effusion

- from leak of pancreatic secretion
- high protein concentration

Slight jaundice

 obstructive jaundice due to compression or stricture

Insufficiency of pancreatic exocrine and endocrine Function.

- Diabetes mellitus
- Malabsorption, steatorrhea
- Malnutrition

Imaging study

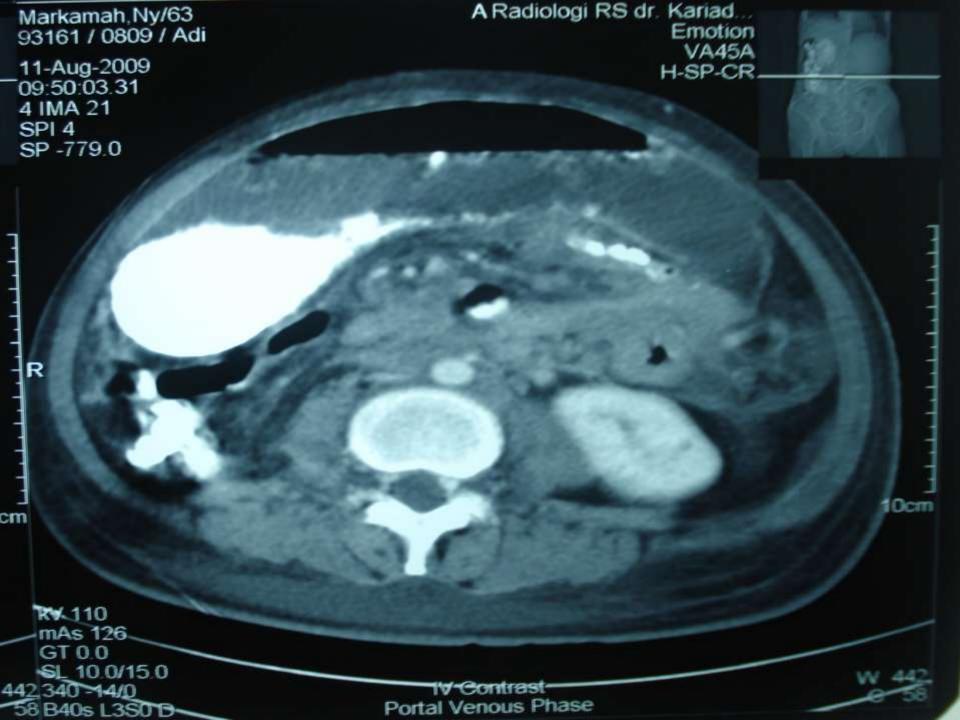
detecting: pancreatic calcification pancreatic ductal changes

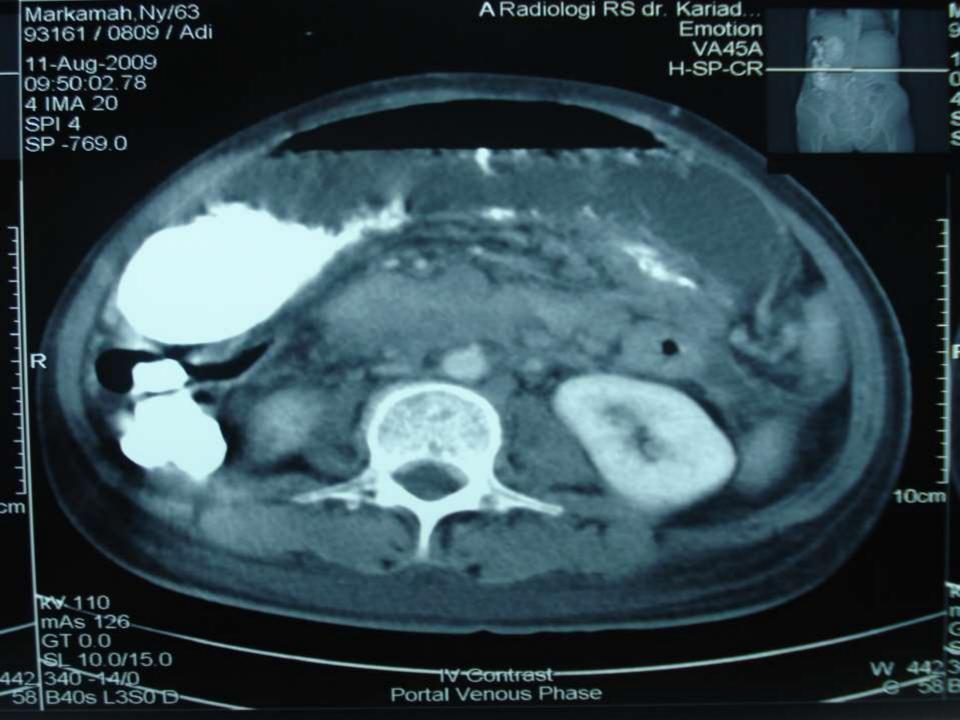


Plain foto AP and lateral view USG CT scan MRI / MRCP

ERCP







ERCP

- The most sensitive and specific test available for primary CP
- ERCP is an invasive procedure,
 its indication is primarily endoscopic therapy

EUS

- Sensitive in detecting the typical patterns of CP
- Enables trans duodenal biopsies

Specific clinical feature plus

Pancreatic calcification on Plain foto / USG



Sufficient for diagnosis and treatment

Specific clinical feature

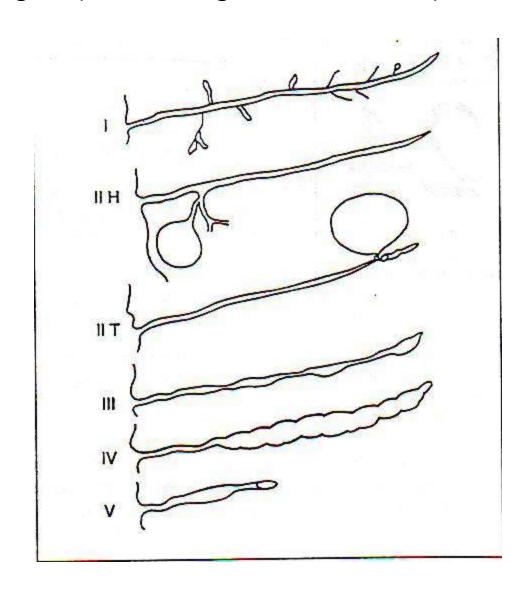
Plus

Pancreatic Ductal changes on CT scan/MRI/ERCP



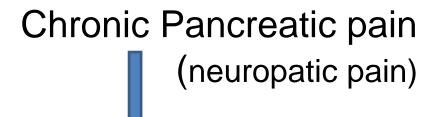
Sufficient for diagnosis and treatment

Ductal changes (Cambridge clasification) seen by CT Scan



Management

- General measures
- Medical treatment
 Pain control
 complication
- Endoscopic therapy and Surgical treatment



Medical treatment

Simple analgesic
Gabapentin
Tricyclic antidepressant
Tramadol / narcotic analgesic

Surgical or endoscopic treatment

Surgical / endoscopic therapy

- Symptomatic CP with pancreatic duct obstruction, surgical or endoscopic drainage should be done
- Depending on patient preference, both are approach of choice to relief pain, although surgical drainage was more effective.

Treatment conclusion

- Do not leave patients on narcotic analgesics
- Do not wait for burn- out of the pancreas
- Endoscopic or surgical treatment are the definite approach for symptomatic CP with pancreatic duct obstruction
- To control diabetes Mellitus, insulin substitution are almost always needed.

Thank you

