

## Malattie delle vie bilio-pancreatiche

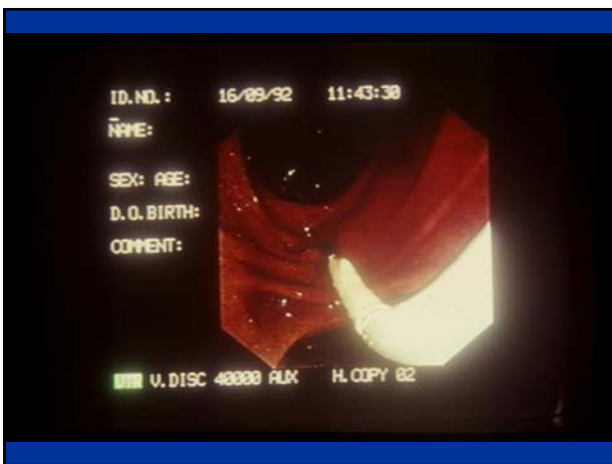
Malformazioni e anomalie  
Colelitiasi  
Infiammatorie (epatiti, additi, colangiti)  
Neoplastiche  
Iatrogene (clips)  
Parassitarie (echinococco)

## CHIRURGIA ENDOSCOPICA DIGESTIVA

- ITTERO OSTRUTTIVO EXTRAEPATICO
- Litiasi coledocica
- Stenosi benigne/maligne
- Compressione estrinseca
- Colangite









## TECNICHE

- Ecografia
- TC RMN
- Colangiorisonanza
- ERCP (manometria)
- CTP
- Colangioscopia
- Ecoendoscopia

## Colangiografia in RM

**Sequenze veloci in RM (sequenze in turbo spin)**  
**Ponderazione in T2 molto elevata**  
**Sottrazione dei tessuti parenchimali**  
**Rappresentazione tridimensionale molto fine delle VBP**  
**Tempo di acquisizione basso**  
**Sensibilità 83-91%**



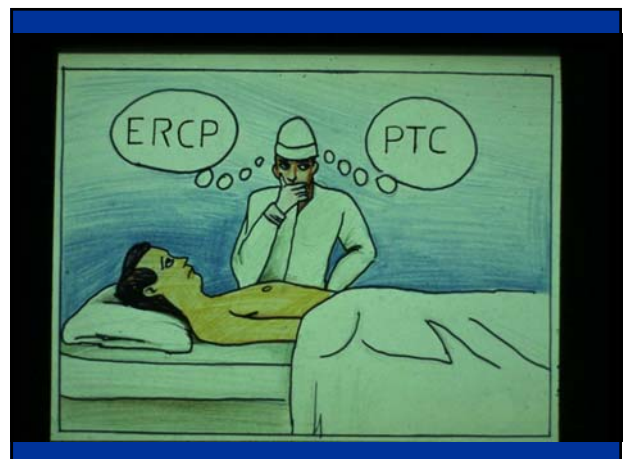
## ERCP

Metodica endoscopico-radiologica operativa

## PTC

Percutaneous transepatic colangiography

Metodica radiologica operativa



## COLEDOSCOPIA

Intraoperatoria

Percutanea

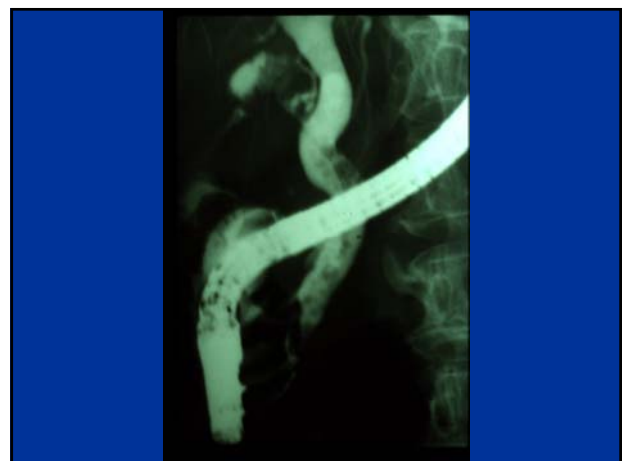
Perendoscopica (mother-baby)

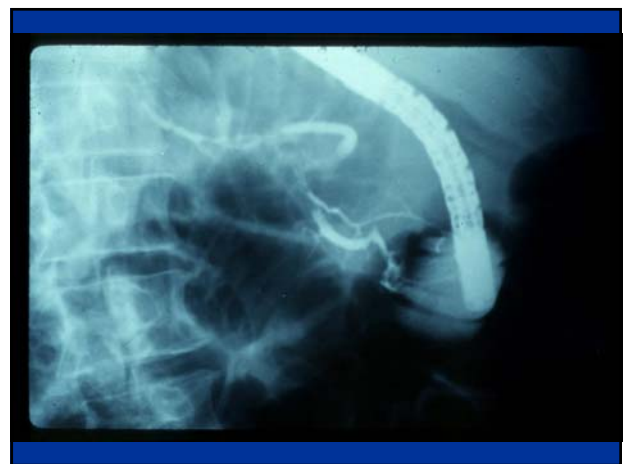
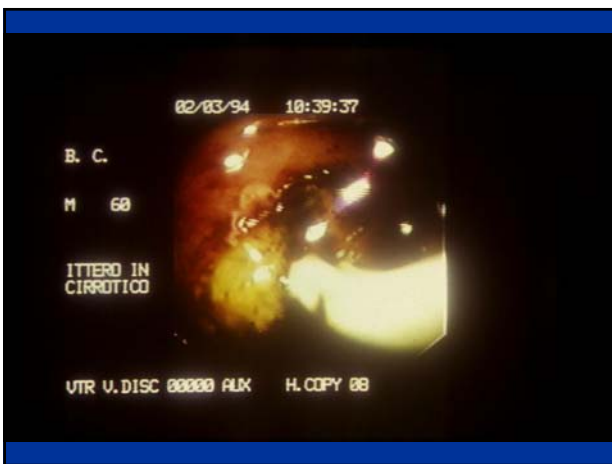
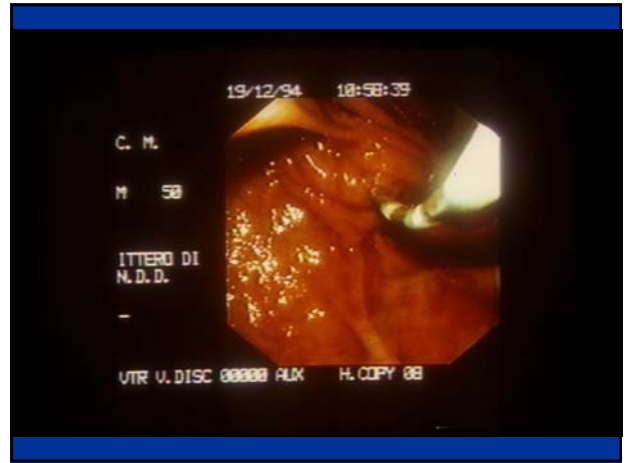
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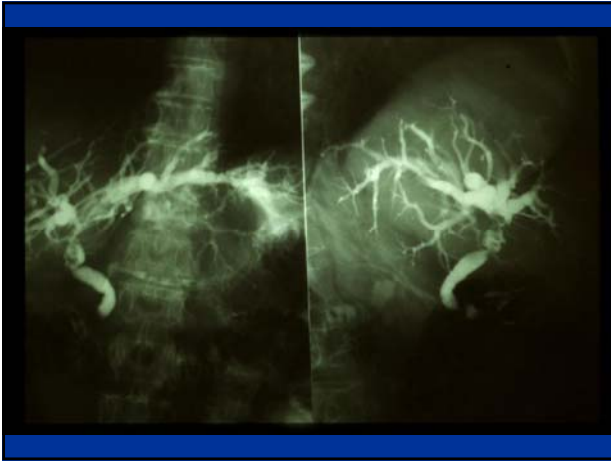
### INDICAZIONI

Patologie biliari

Patologie pancreatiche







## ERCP

### APPLICAZIONI TERAPEUTICHE

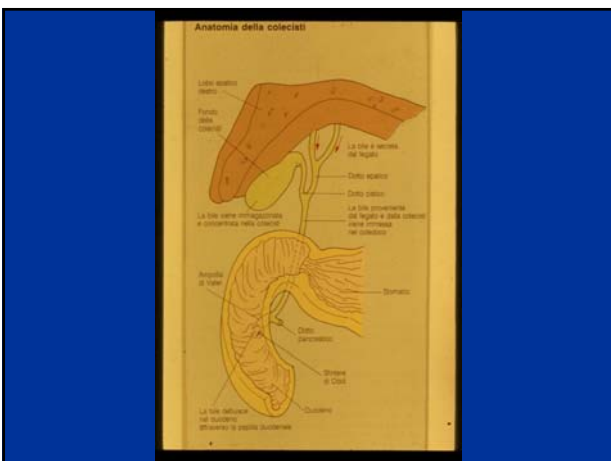
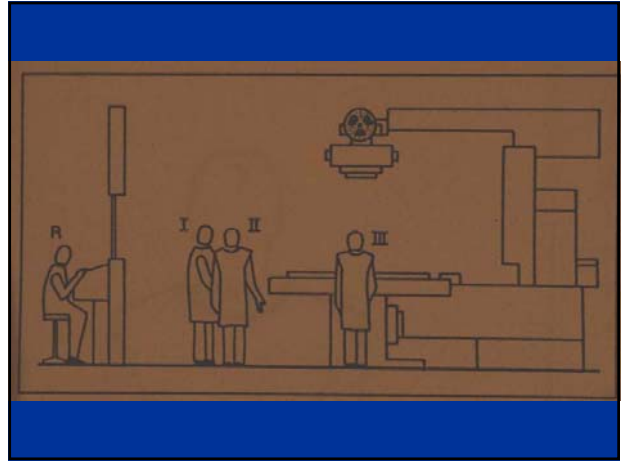
Litiasi biliare

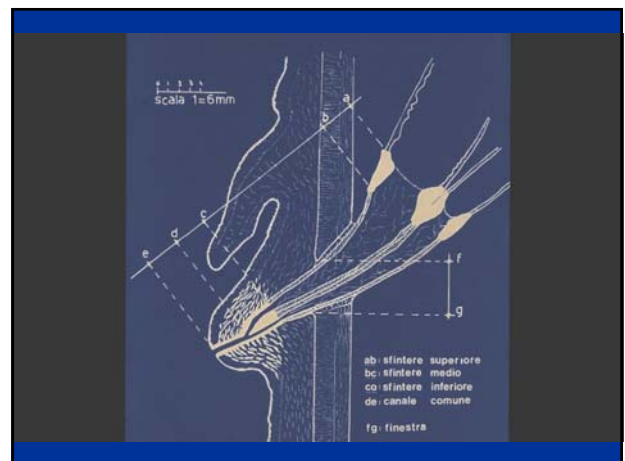
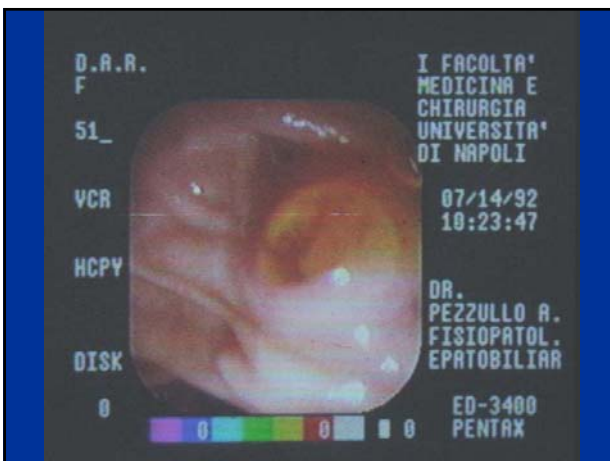
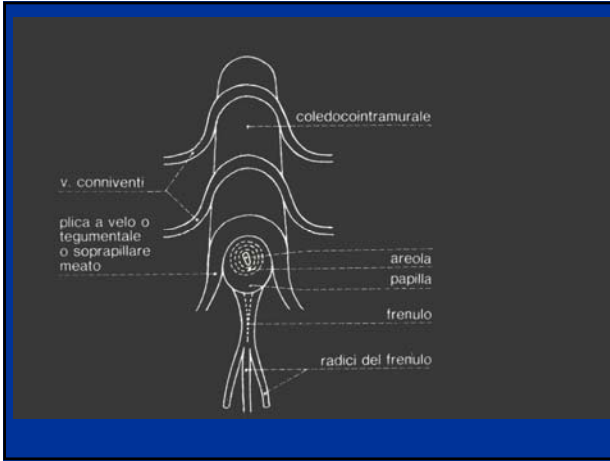
Neoplasie bilio-pancreatiche

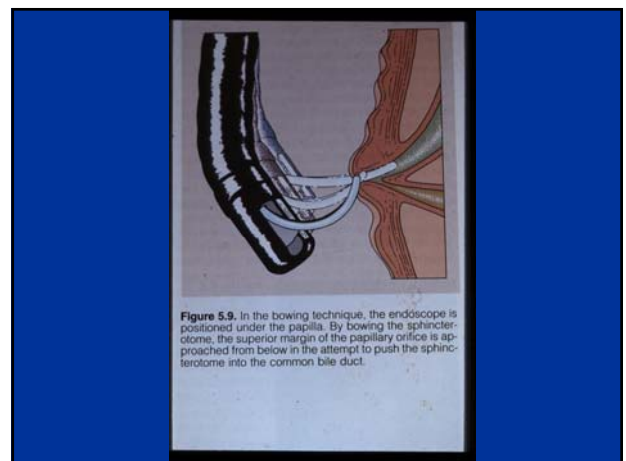
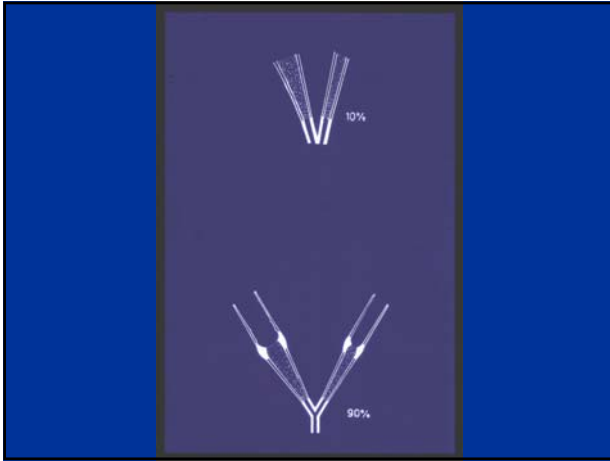
## ERCP

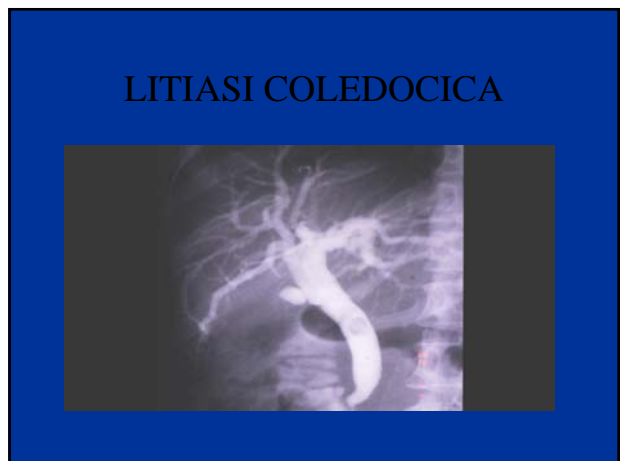
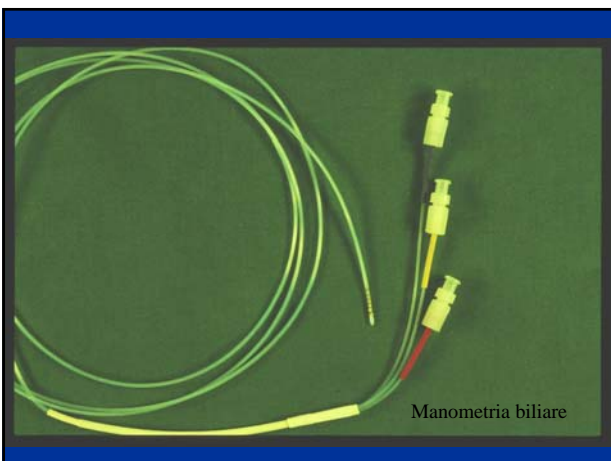
### TECNICA

Duodenoscopi





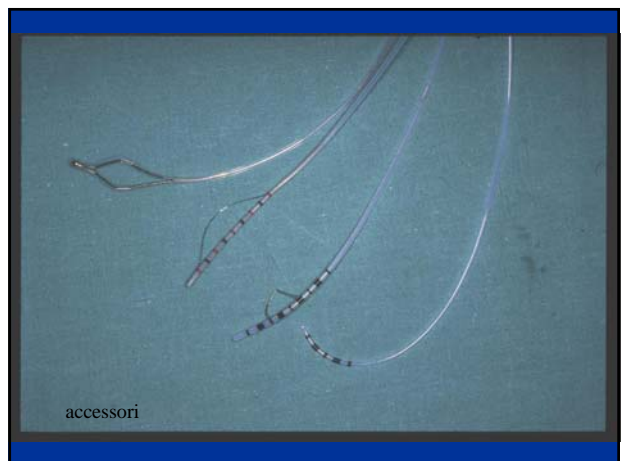


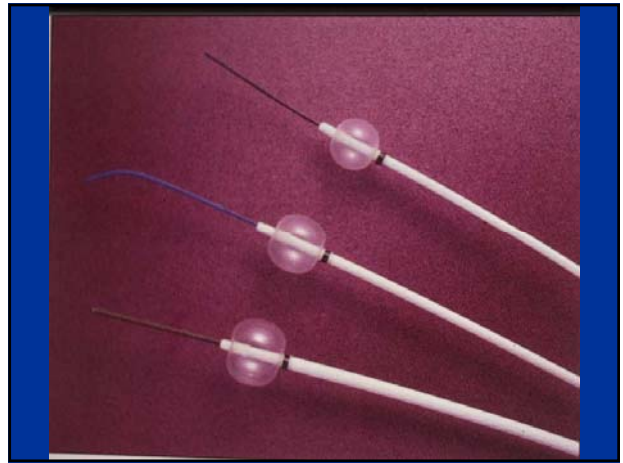
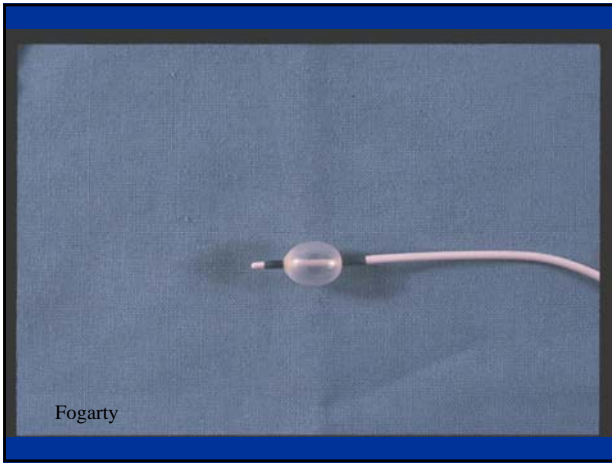




**CHIRURGIA ENDOSCOPICA**  
litotomia

- cestelli di Dormia
- Fogarty





**CHIRURGIA ENDOSCOPICA DIGESTIVA**  
litiasi coledocica

- sfinterotomia
- litotrissia

**5.4 ENDOSCOPIC SPHINCTEROTOMY**

### **sfinterotomia**

#### Indicazioni

- litiasi biliare
- stenosi biliari
- colangiti
- pancreatiti
- corpi estranei
- parassiti

### **CHIRURGIA ENDOSCOPICA**

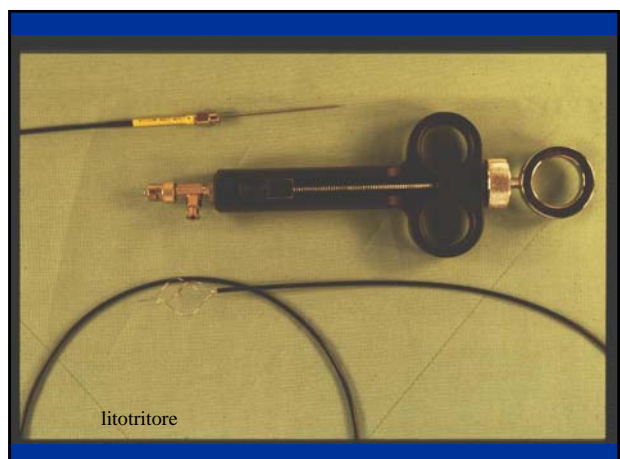
#### litotrissia

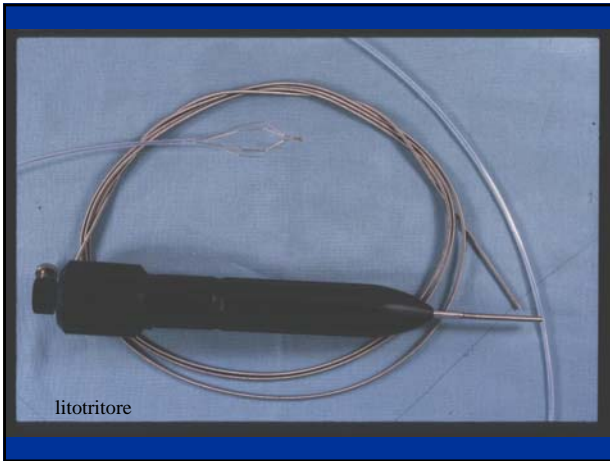
- meccanica
- elettroidraulica
- laser
- chimica
- extracorporea

### **CHIRURGIA ENDOSCOPICA**

#### litotrissia meccanica

### **- litotritore tipo Dormia**





### CHIRURGIA ENDOSCOPICA

litotrissia elettroidraulica

Onde d'urto secondarie  
a carica ad alta tensione  
tra due elettrodi.

### CHIRURGIA ENDOSCOPICA

litotrissia laser

Energia luminosa generante  
onde d'urto (colangioscopio)

### **sfinterotomia**

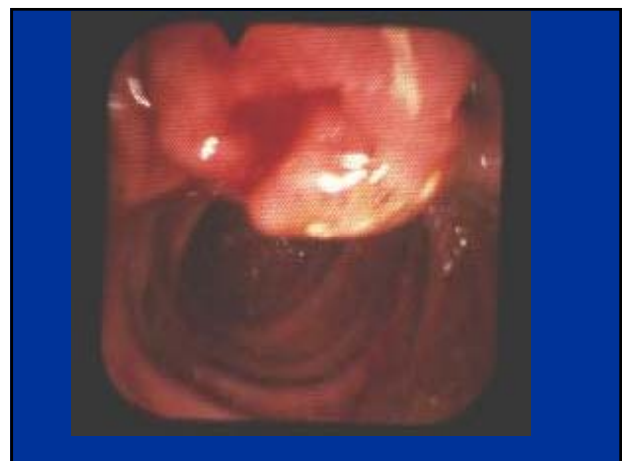
#### **strumentario**

- duodenoscopio laterale
- sfinterotomo
- fonte diatermica

### **sfinterotomia**

#### **tecnica (Demling-Classen)**

- contrastografia retrograda
- posizionamento sfinterotomo
- controllo radiologico
- elettroresezione



## **sfinterotomia**

### controindicazioni

- deficit emocoagulativo
- stenosi lunghe coledoco distale
- stenosi vie biliari prossimali



## **sfinterotomia**

### precut

- impossibile incannulamento

## **sfinterotomia**

### complicanze

- emorragia
- perforazione
- pancreatite
- colangite

### Drenaggi naso-biliari

#### Indicazioni

- colangiti
- pancreatite
- stenosi

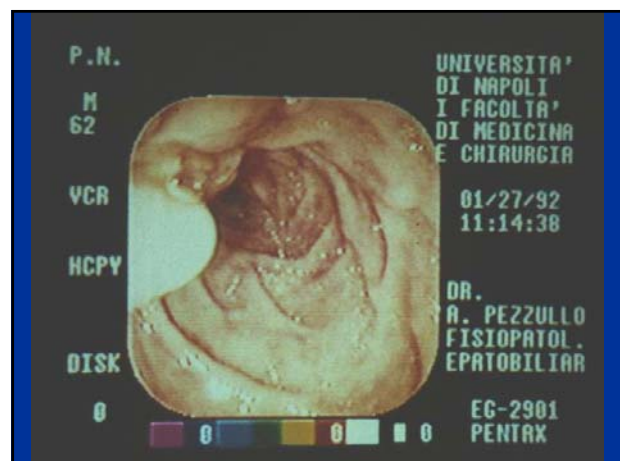
### DRENAGGIO NASO-BILIARE

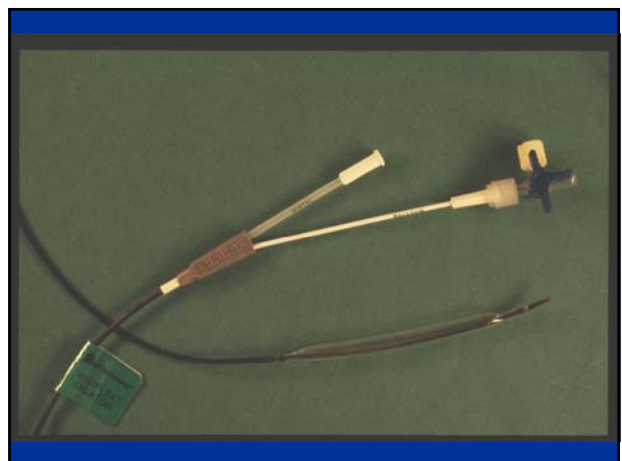
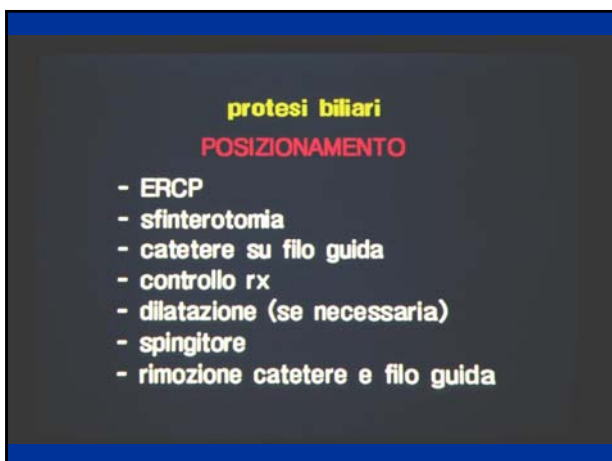
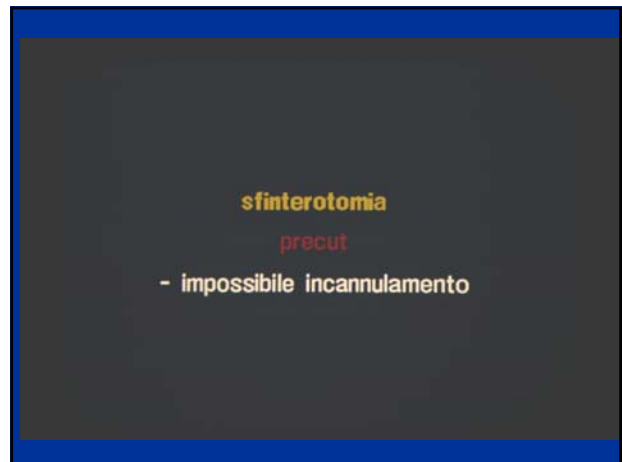
#### per prevenire:

- colangite
- perforazione
- pancreatite acuta

#### per favorire:

- diminuzione dell'ittero
- controlli colangiografici

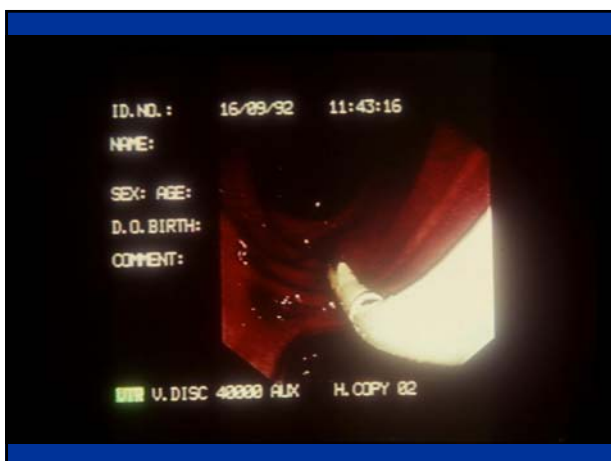




**protesi biliari**

**CARATTERISTICHE**

- diametro 5-14 fr
- lunghezza 5-20 cm
- forma variabile (pig tail)
- alette antidislocazione
- metalliche autoespansibili



## CHIRURGIA ENDOSCOPICA DIGESTIVA

stenosi

- sfinterotomia
- dilatazione
- drenaggio
- protesi

## CHIRURGIA ENDOSCOPICA DIGESTIVA

stenosi bilio-pancreatiche

- drenaggi
- endoprotesi

## CHIRURGIA ENDOSCOPICA DIGESTIVA

colangite

- sfinterotomia
- drenaggio

## CHIRURGIA ENDOSCOPICA DIGESTIVA

fistole biliari

- sfinterotomia
- drenaggio
- protesi