



Cholangio 101

Cholangiocarcinoma

Patient Perspective

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Cholangiocarcinoma is a
Heterogeneous Cancer
A Mutation of 'several Origins'



The Patient Collective

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01

Pronunciation

Cholangio + carcinoma
Chol – angio + car -cinoma

02

'**Chol'e**' means Bile:
'**angio**' means vessel: Duct
'**carcinoma**' - cancer of skin or tissue

03

Type of Mutation

Cholangiocarcinoma is an
Adenocarcinoma

04

Primary Origin (1)

Intrahepatic

Begins in the bile ducts within
the Liver

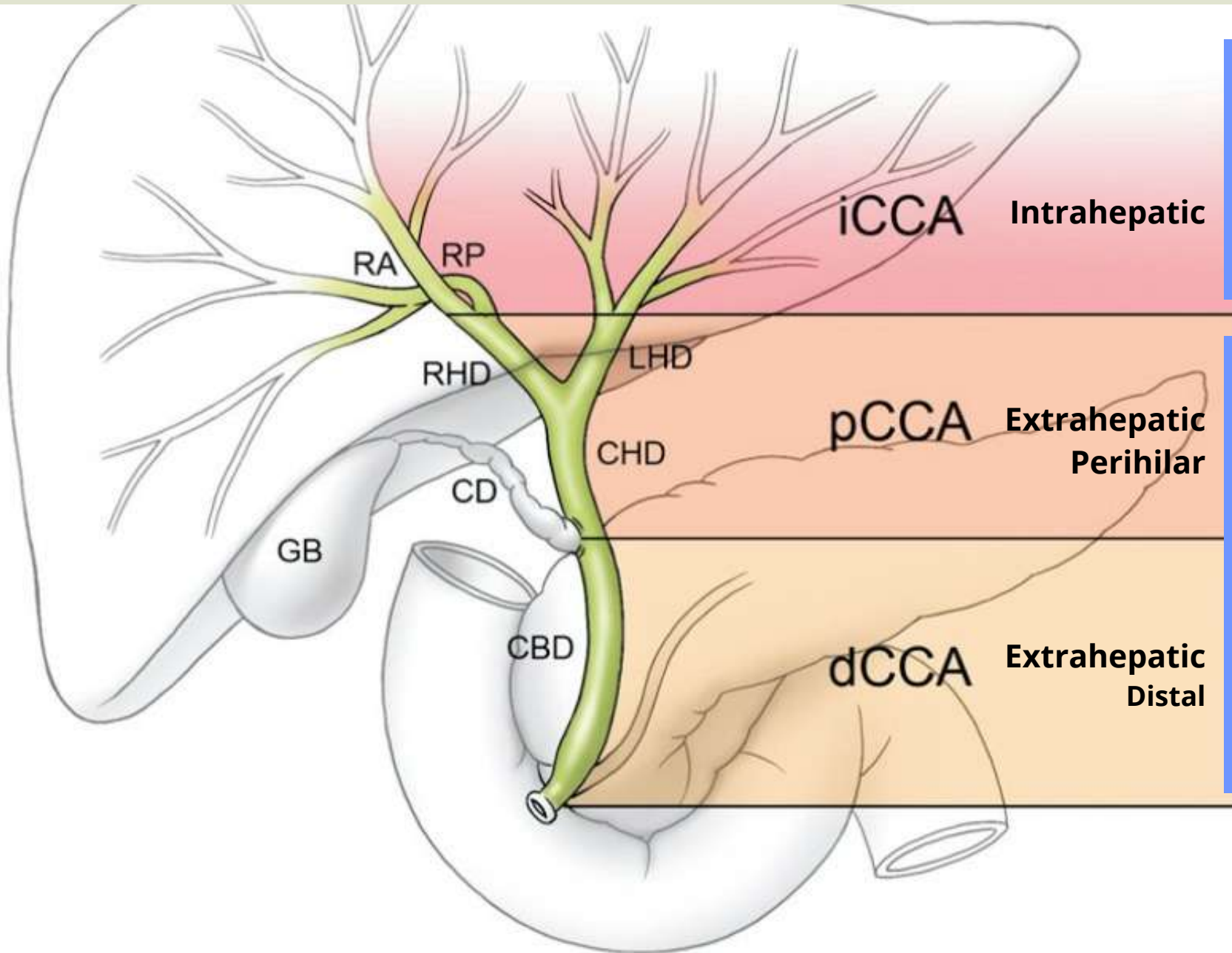
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Primary Origin (2) Extrahepatic

Begins in the bile ducts outside the Liver
Extrahepatic also has 2 subgroups

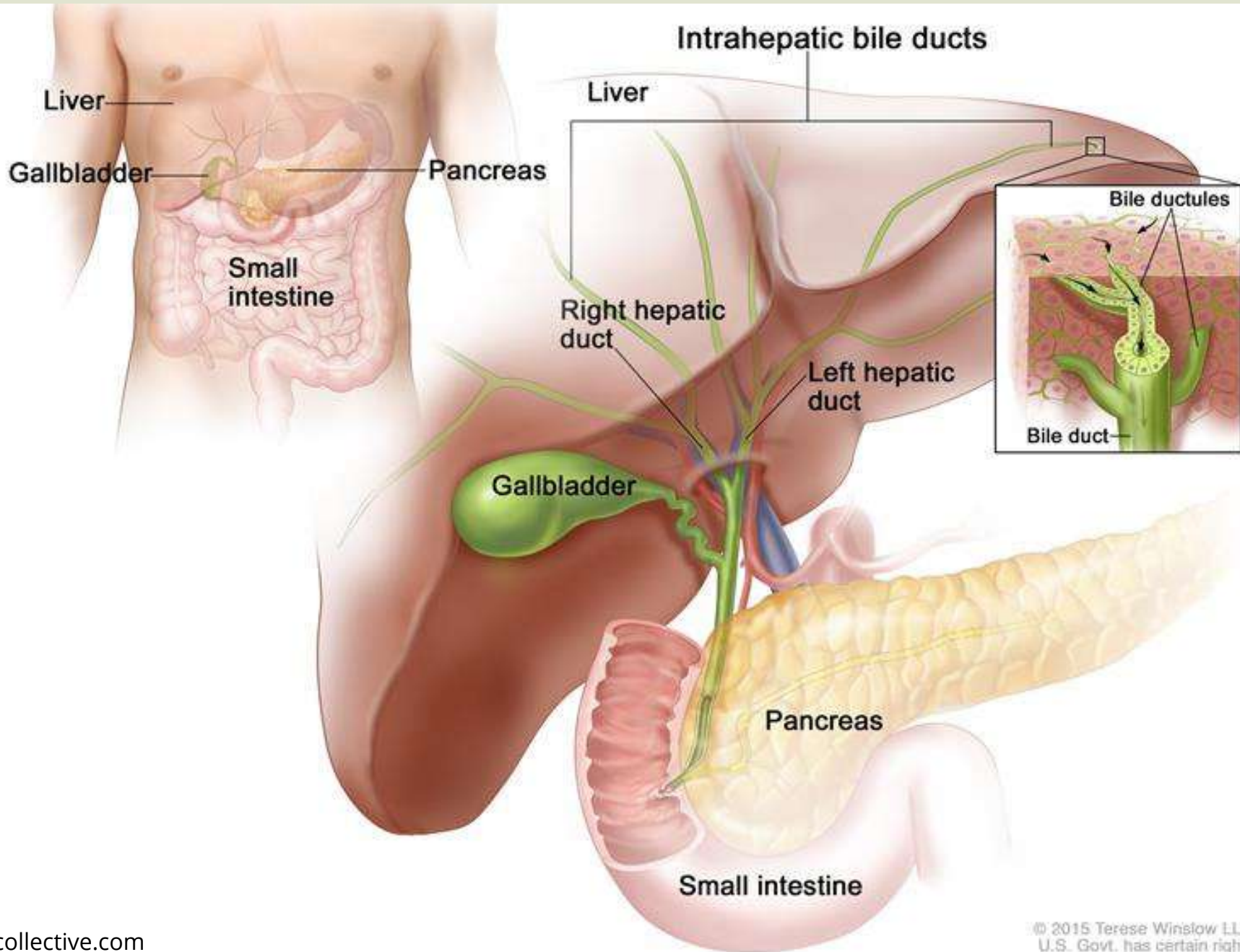


Origin 1 Overview



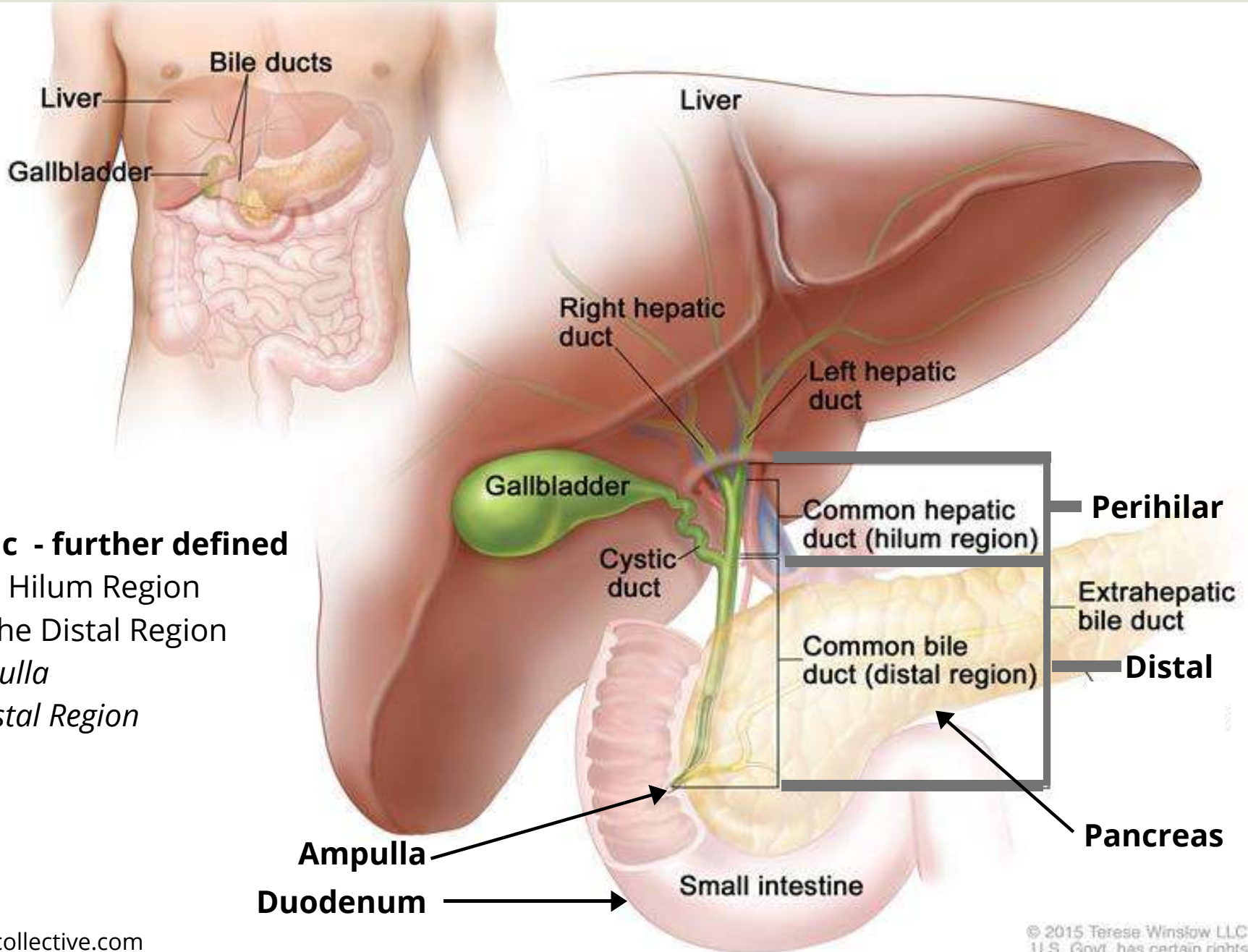


Origin 1 - Intrahepatic





Origin 2 - Extrahepatic



Extrahepatic - further defined

- Perihilar - Hilum Region
- Distal in the Distal Region

*Also see Ampulla
bottom of Distal Region*





CHOLANGIO 101

Cholangiocarcinoma is an Adenocarcinoma

1

Adenocarcinoma is a mutation that forms in the Mucus Secreting Glands of the Mucus Membrane

2

The Mucus Membrane is the layer of protection around our bodies digestive tract and organs

3

The Mucus Membrane also has its own protective layer called Epithelium - A Skin Layer that protects the mucus membrane.

4

The Mucus Secreting Glands specialise in secreting mucus (a clear fluid) that provides protection to the epithelial layers

5

The cancer spreads undetected to other parts of the body within these secretions





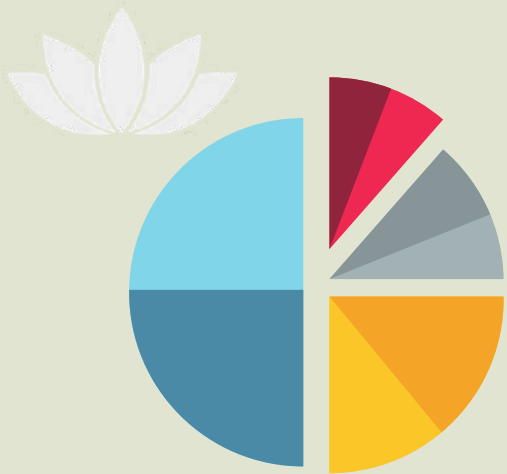
Adenocarcinoma's are **Common**

BILE DUCT
PANCREAS
COLON
PROSTATE
LUNG
BREAST
ESOPHAGUS

WHY IS ADENOCARCINOMA MORE AGGRESSIVE IN CHOLANGIOCARCINOMA

Cholangiocarcinoma is so lethal because during the early stages, when the tumor would be most treatable with surgery there are usually no symptoms. It tends to be discovered at advanced (Metastatic) stages when pain or jaundice occur





CHOLANGIOCARCINOMA STATISTICS

- NO CURE
- NO EARLY DETECTION
- SURGERY IS THE ONLY POTENTIALLY CURATIVE OPTION



RARE
1 - 3 CASES
PER 100,000

SURVIVAL
UNTREATED
1 YR - 50%
2 YR - 20 %
5 YR - 0%

SURVIVAL
TREATED
5 YEAR
ALL
8 - 10%



SURVIVAL
TREATED
5 YEAR
METASTATIC
LESS < 1%

AUSTRALIA
NEWLY
DIAGNOSED
PER YEAR
900 +



USA
NEWLY
DIAGNOSED
PER YEAR
8000 - 9000



CHOLANGIO 101

Cholangiocarcinoma Staging

A circular inset showing a microscopic view of cells, likely representing cancer cells, with a blue and purple color scheme. The cells are clustered and have a textured, irregular appearance.

!

This is a generalised indication of stages. There are many different interpretations, such as T2a T2 b M1 etc

1

The cancer has grown into the bile duct wall but it has not grown all the way through the wall. It has not spread to lymph nodes or distant sites.

2

The tumor has grown into a blood vessel or there are multiple tumors. It has not spread to nearby lymph nodes or distant sites.

3

Cancer has spread to nearby lymph nodes, or tissues

4

The cancer has spread (metastasised) to other organs such as the Pancreas, Liver or Lungs, away from the original primary site.



CHOLANGIO 101

Cholangiocarcinoma Treatment Options



This is the standard order in which your medical team will assess.

1

Surgery

Potentially Curative

- Liver resection
- Liver transplant
- Whipple Operation

2

Chemotherapy

First line Option is Gem/Cis

3

Radiation

Targeted Therapy and other options available

4

Immunotherapy

Potentially Curative

New option that is used after other options have failed



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Terminologies

Primary

THIS IS WHERE THE CANCER STARTED IN THE BILE DUCT

- INTRAHEPATIC: INSIDE THE LIVER OR
- EXTRAHEPATIC: OUTSIDE THE LIVER

Mutation

CAUSED BY MISTAKES DURING CELL DIVISION, OR THEY MAY BE CAUSED BY EXPOSURE TO DNA-DAMAGING AGENTS IN THE ENVIRONMENT.

Metastasis

THE CANCER HAS SPREAD AWAY FROM ITS PRIMARY LOCATION

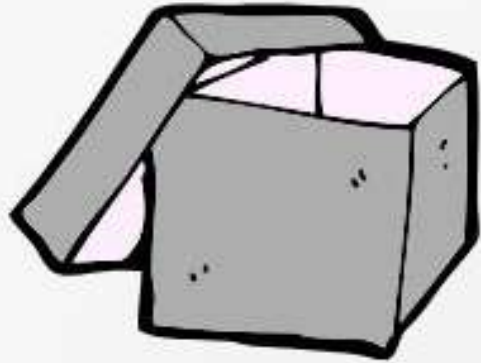
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A MEASURE IN A BLOOD TEST (CARBOHYDRATE ANTIGEN) A TUMOR MARKER THAT IS OBSERVES ELEVATIONS ON SERUMS. NOT ALWAYS AN ACCURATE MEASUREMENT.

Whipple

SURGICAL, A SIGNIFICANT OPERATION TYPICALLY REMOVING ALL OR PART OF MULTIPLE SITES SUCH AS GALLBLADDER, HEAD OF THE PANCREAS AND STOMACH





THE CANCER TOOL KIT

PATIENT TO PATIENT WISDOM



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Wisdoms

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