Digestive System **Dr. Nihal APAYDIN**

<u>Outline</u>

- Oral Cavity
- Esophagus
- Stomach
- Small intestine
- Large intestine
- Liver, gallbladder, pancreas
 - o Hepatopancreatic duct system

- " intake
- " digestion
- "absorption
- " elimination

"Proteins

"Fat

"Carbs

"Essential elements

"Vitamines & minerals

Water

MOUTH

What happens to the passenger?

Broke down (mastication, mechanic!) teeth, tongue, muscles of mastication

Digested

insalivation; digestion of polysaccharides by the action of salivary amylase

• Next step?

osephagus

How did it reach here? Why did not it pass through airway?

Swallowing mechanism !!!

ESOPHAGUS

- Approx. 12" long
- C6-T11
- Posterior to trachea
- Stratified squamous
- Upper 1/3rd Skeletal
- Middle 1/3rd Skeletal → Smooth
- Lower 1/3rd Smooth

Jejenum and Ileum

"6-7 m long

"jejenum: 8qlong

"ileum: 12qlong

"intraperitoneal

"main site of absortion

<u>Characteristic Jejenum Ileum</u>

Color Deep red Paler pink

Caliber 2-4 cm 2-3 cm

Wall Thick & heavy Thin & light

Vascularity Greater Less

Vasa recta Long Short

Arcades A few large loops Many short loops

Fat in mesentery Less More

Circular folds Large, tall & Low and sparse;

(plicae circulares) closely packed absent in distal part

Lymphoid nodules

(Peyer's patches) Few Many

LARGE INTESTINE

- Caecum anus
- ~1.5-2 m
- Inverted U
- Na and water absorption
- Transmission and storage...

