Talal ALI M.D. MSc.
Jan TOMKA M.D. PhD MPH
Ilkin BAKIRLI M.D.

WILKIE'S SYNDROME

VASCULAR SURGICAL APPROACH

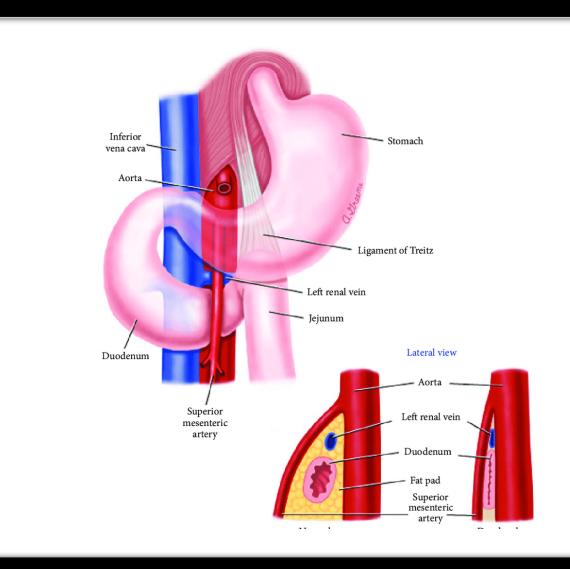


National institute of cardiovascular diseases Bratislava – Slovakia

DEFINITION

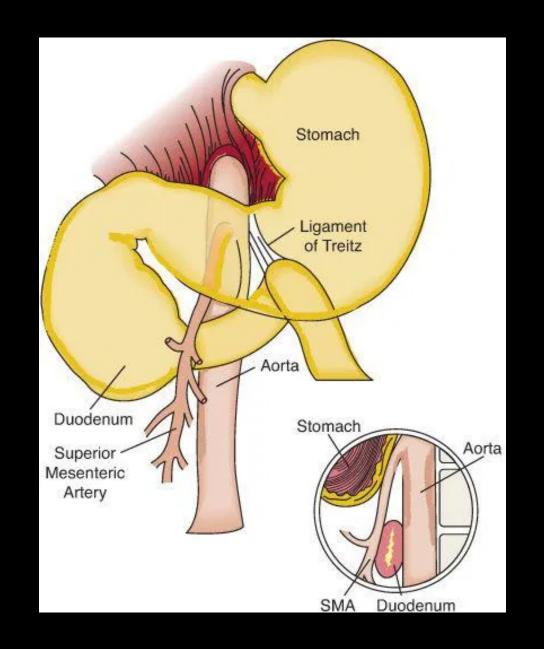
- Abdominal Aorta –AMS
 Angulation < 25 degree
- 3rd part of duodenum
 Compression-Obstruction

Nausea - pain - vomit Weight loss — satiety anorexia



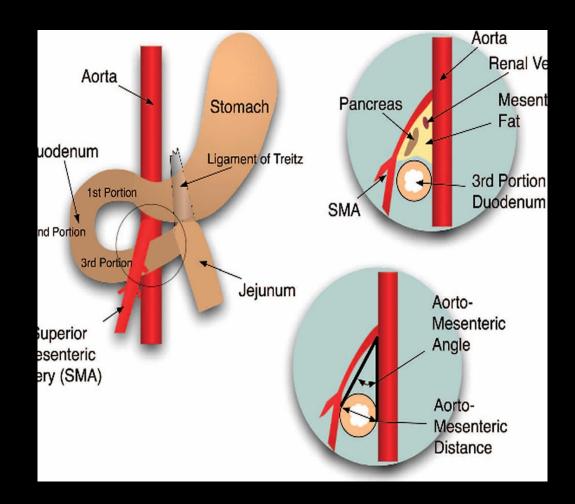
EPIDEMIOLOGY

0.01% to 0.3%.Female> Male10-39 y.o.



RISK FACTORS

- Significant weight loss
- A short Treitz ligament
- Abnormal origin of SMA
- Surgical correction of scoliosis or esophagectomy



HISTORY

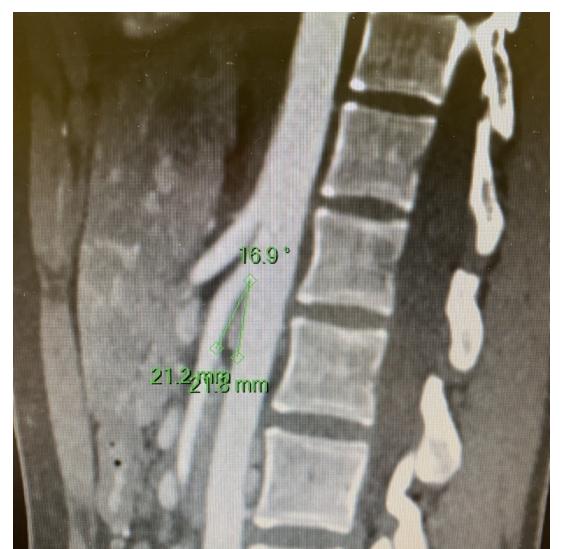
- 1842 : 1st described by Austrian Professor Carl Von Rokitanski

- 1927 : sir David WILKIE published 75 study cases .(DJ)

DIAGNOSIS

- GI radiography
- -Dilated stomach and duodenum
- -D3 abrupt cut-off or narrowing
- CTAG
- ---> Sagittal view
- Ao-AMS angulation < 25,
- → AA-SMA Distance < 8 mm









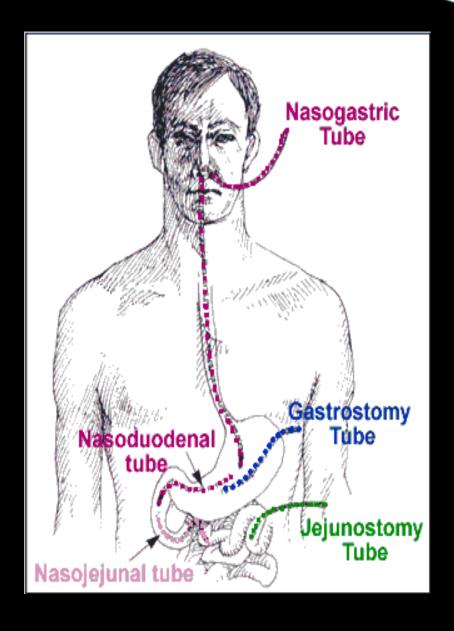




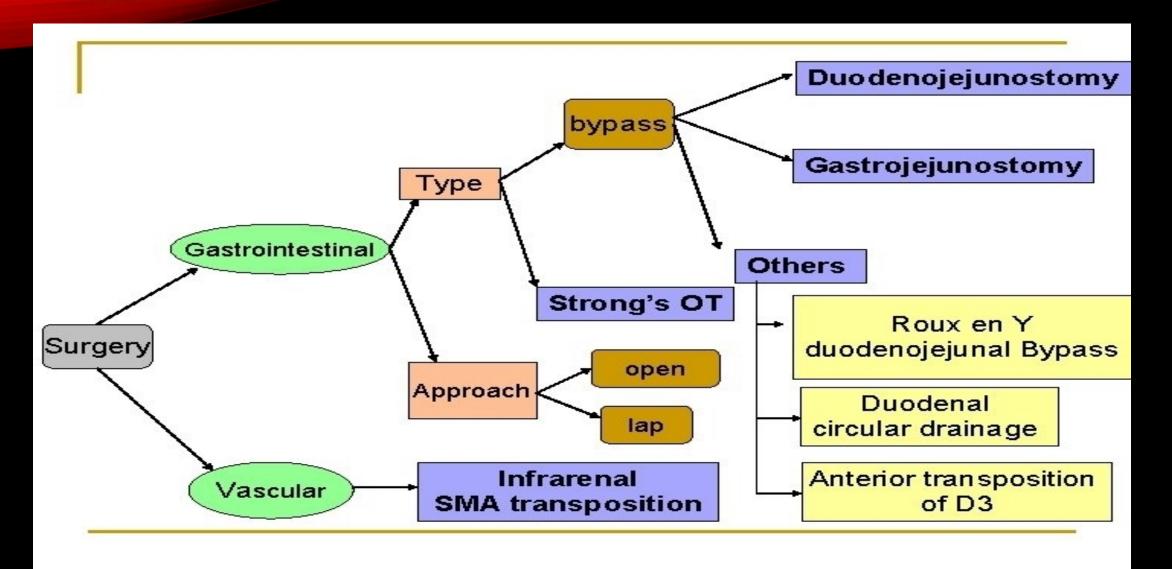
MANAGEMENT

Conservative therapy:

- >-Gastroduodenal decompression,
- >-Correction of fluid and electrolyte
- >-Nutritional support by:
- -high caloric eneteral N. via feeding tube
- -parenteral N.



SURGERY



-1995 : 1st laparoscopic treatment performed by **Dr.Massoud**dividing the ligament of Treitz

-1908: 1st operative treatment by **Stavely**. (DJA)

-1998: 1st laparoscopic DJA performed by **Dr.Gersin** and **Dr.Heniford**

GIBYPASSES

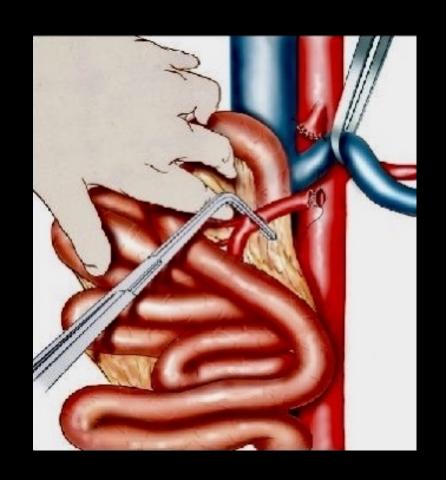
Complications

- o-Anastomotic or staple line leak,
- o-Postoperative hemorrhage,
- o-Bowel obstruction and incorrect Roux limb reconstructions.
- o-Dumping syndrome, (diarrhea, nausea or vomiting)
- o-Anastomotic stricture,
- o-Marginal ulceration and perforation,
- o-Fistula formation and nutritional deficiencies

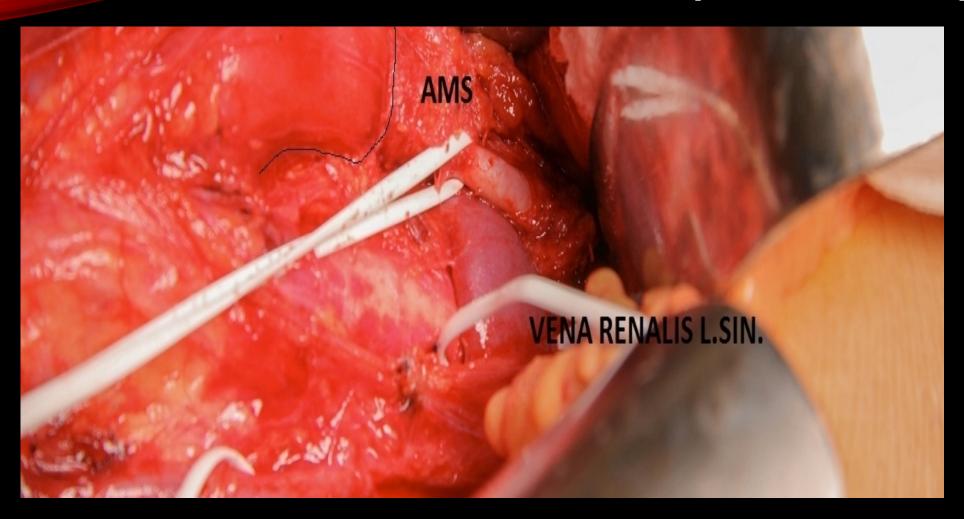
VASCULAR SURGICAL APPROACH

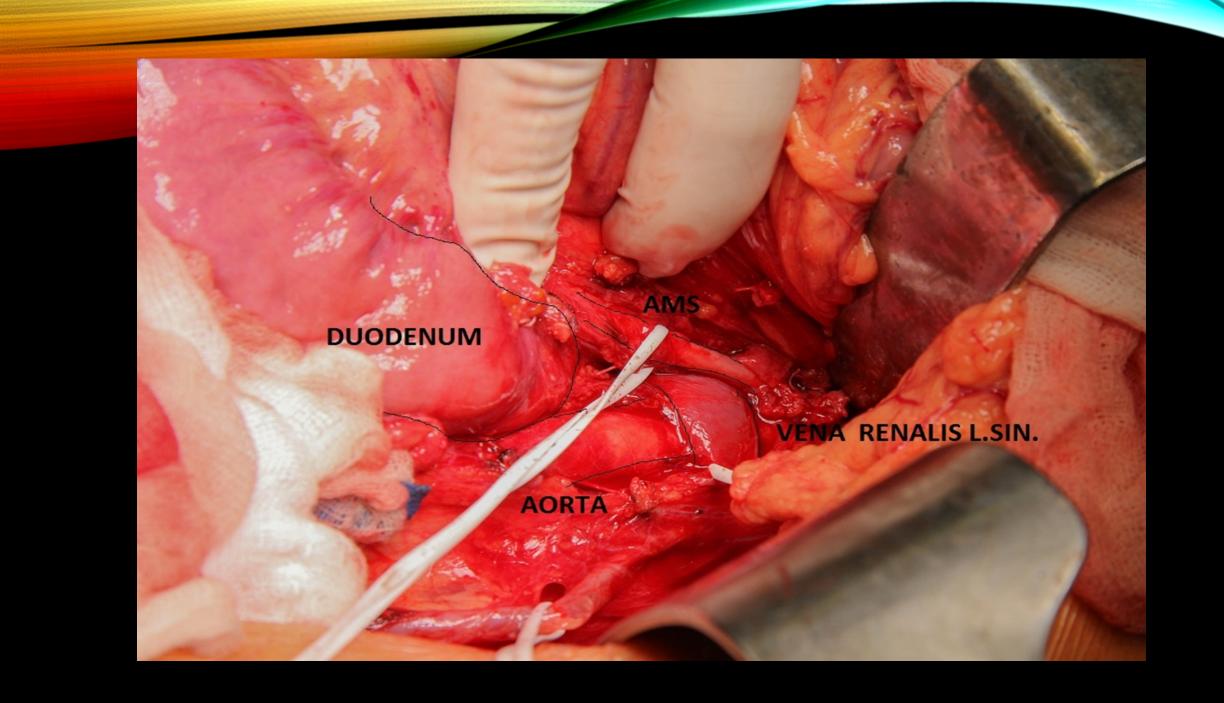
Transposition of SMA to infrarenal part of the aorta

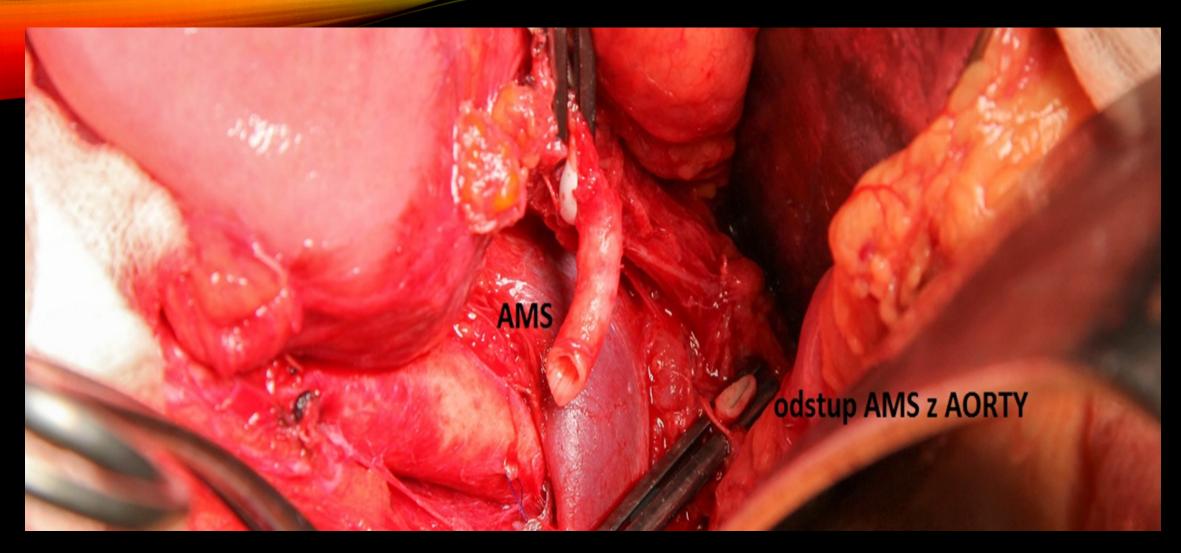
- 2007 1st AMS transposition to infrarenal part of AA perforemd in U.H. Düsseldorf, Germany
- 2012 1st AMS trasposition to infrarenal part of AA
 Performed by Dr.Tomka (Bratislava Slovakia)



DUODENAL MOBILIZATION - TREITZII LIGAMENT (CRURA DUODENI)

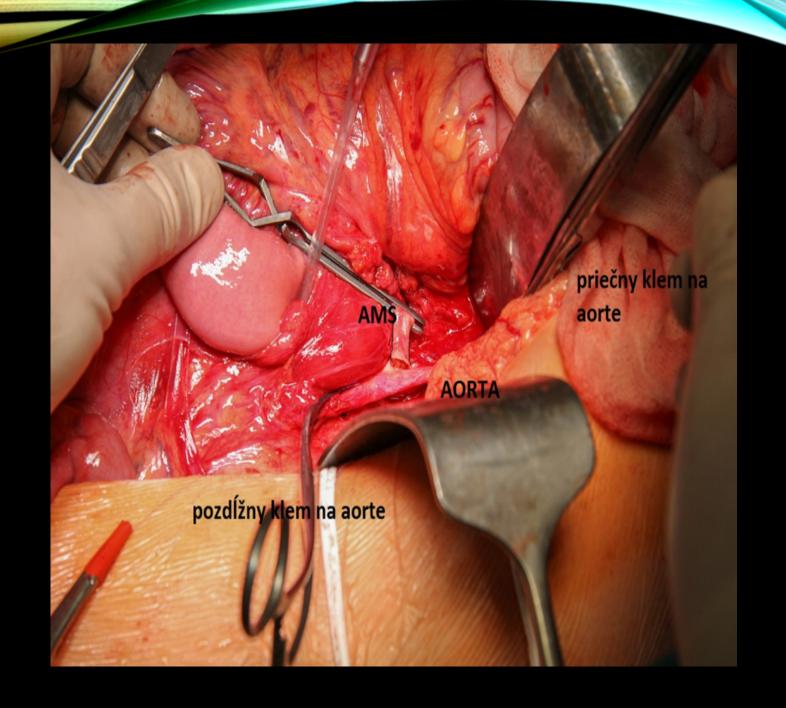


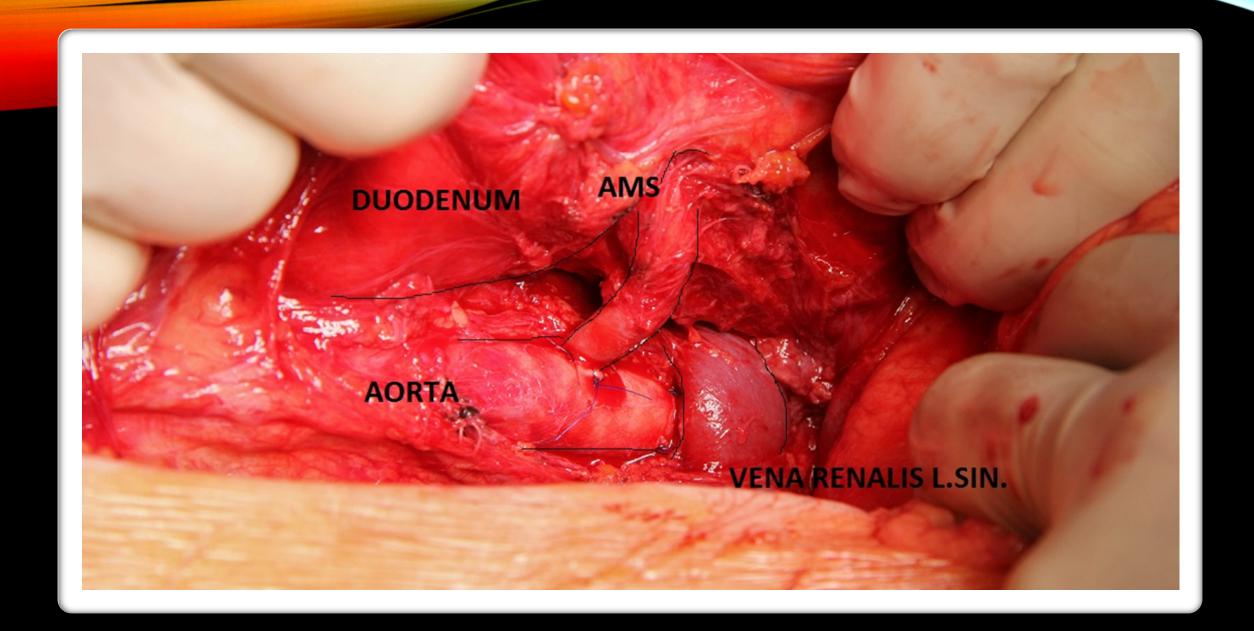




SMA DISCUSSION

TRANSPOSITION AND REINVERSION OF SMA INTO INFRARENAL PART OF AORTA END TO SIDE





BENEFITS

-more safe surgical option
-more physiological with favorable outcomes.
-NO disrupting the GI continuity

Complications (hemorrage-ischemia-lymphocele)

TRANSPOSITION WHEN



 Completely gastroenterological investigation

· Significant clinical symptomatology, cachectization

TRANSPOSITION



WHY

Definitive treatment of **ETIOLOGY**

Decompression of the duodenum and also of the left renal vein (Nutcracker, PVC)

The physiological continuity of the intestines remains intact

Good quality of life without persistent symptoms (weight gain, no pain, fear of eating)

THANK YOU...

