



# *Clinical Case*

*Dott.ssa Benedetta Masci*

*10.09.2021*

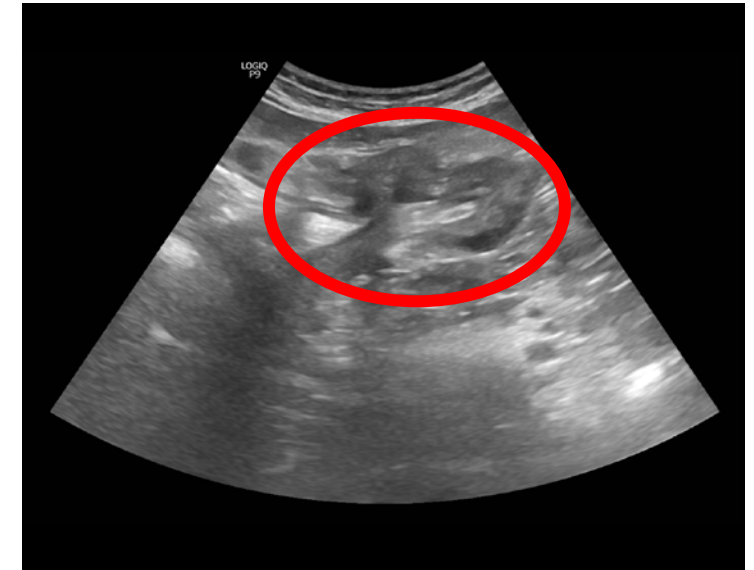
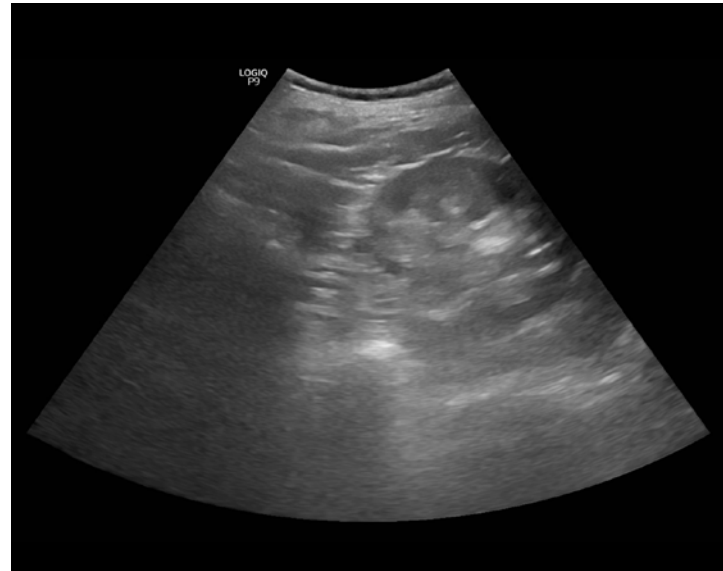


## ANAMNESI

- Uomo, 63 anni
- Giunge in PS per forte astenia, **calo ponderale (circa 6 kg in un mese)**, disfagia.
- In anamnesi: abitudine tabagica, non precedenti chirurgici
- Alla valutazione clinica: lieve dolore addominale alla palpazione in ipocondrio destro, alvo aperto a feci e gas.

**Hb 7.9 g/dl**, RBC  $3.0 \cdot 10^6/\mu\text{L}$ , WBC e PCR normal

**23.06.2021:  
ECOGRAFIA ADDOME**



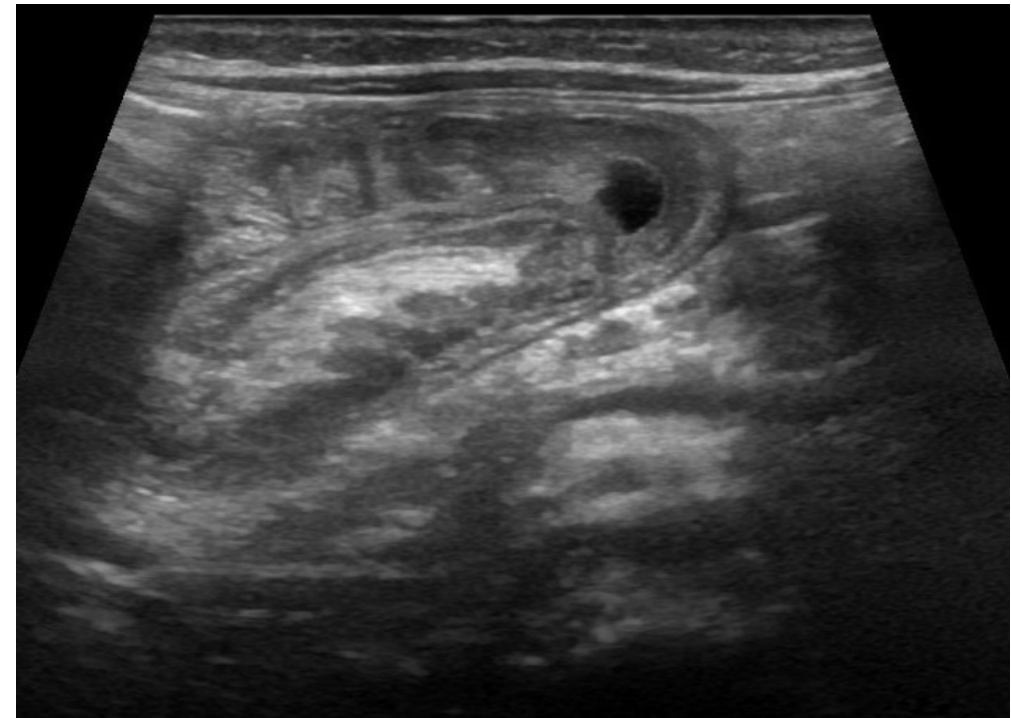
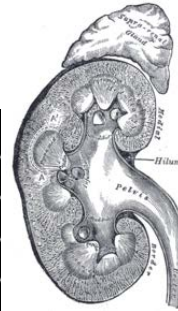
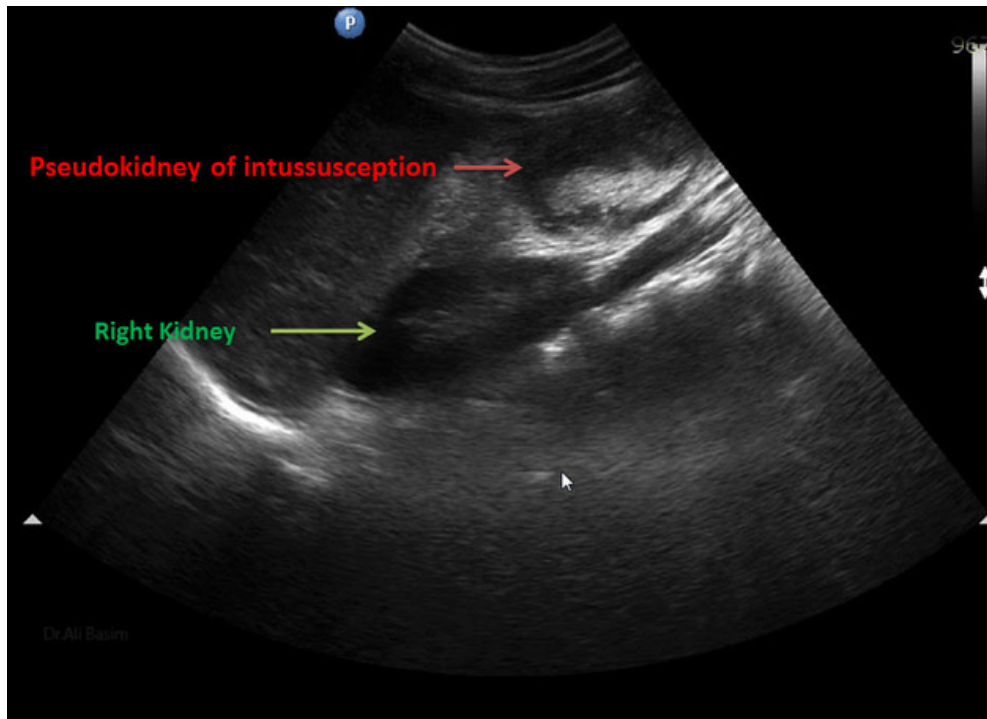
«Immagine a pseudokidney localizzata in corrispondenza del trasverso/flessura colica destra di pertinenza intestinale. Il quadro è meritevole di approfondimento diagnostico»

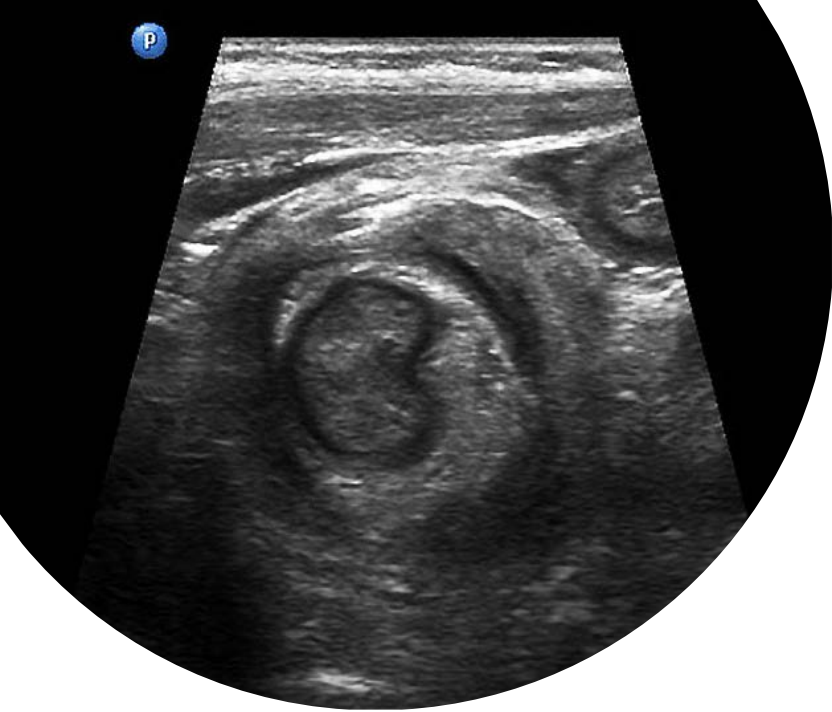
## PSEUDOKIDNEY

### SCANSIONE LONGITUDINALE

Segmento invaginato: **IPOECOGENO** (simil rene)

Mesentere e vasi: **IPERECOGENI** (ilo renale)





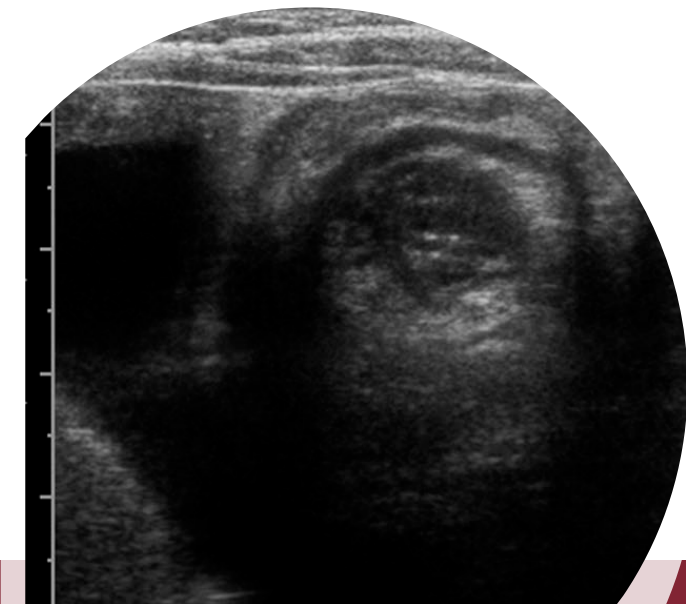
## TARGET SIGN (bull's eye sign)



### SCANSIONE TRASVERSALE

Sottomucosa: **IPOECOGENA**

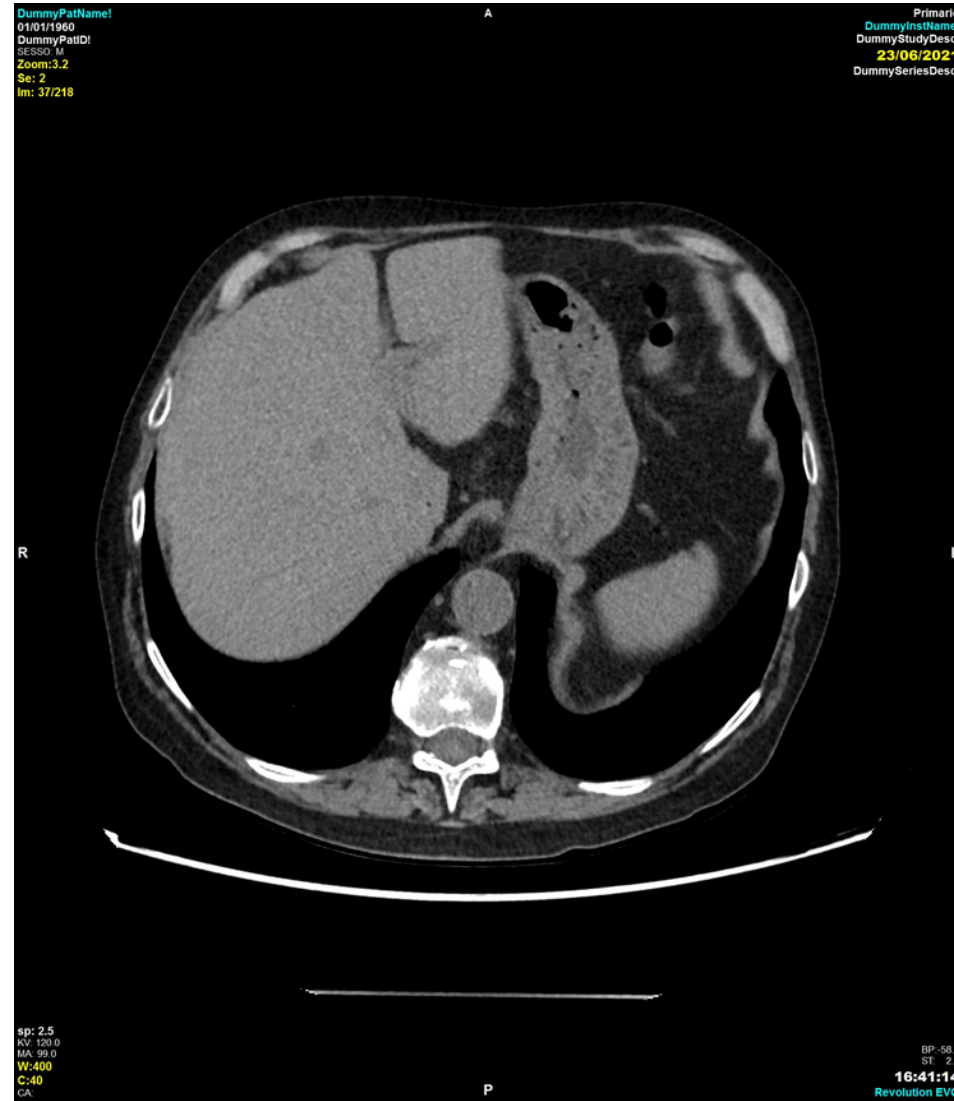
Mucosa-muscolare: **IPERECOGENA**





# 23.06.2021 TC con mdc

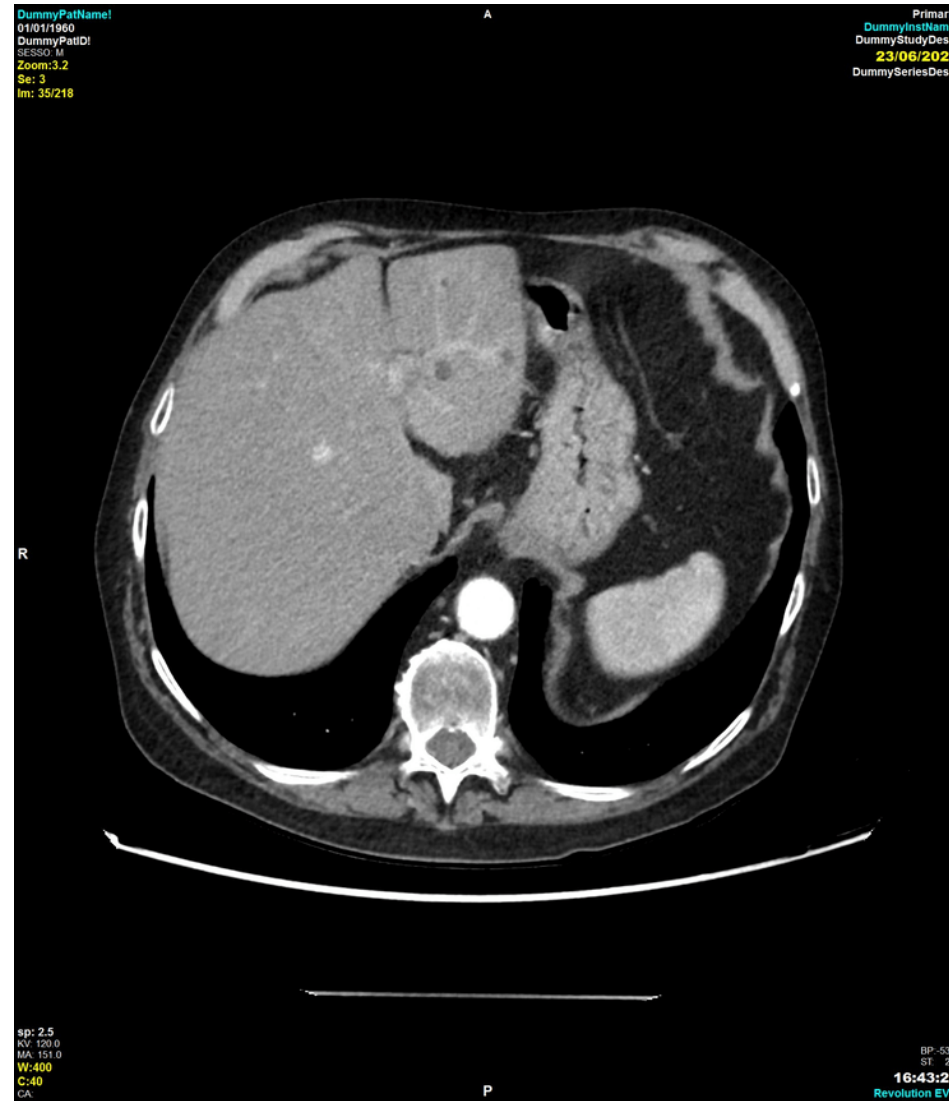
**BASALE**





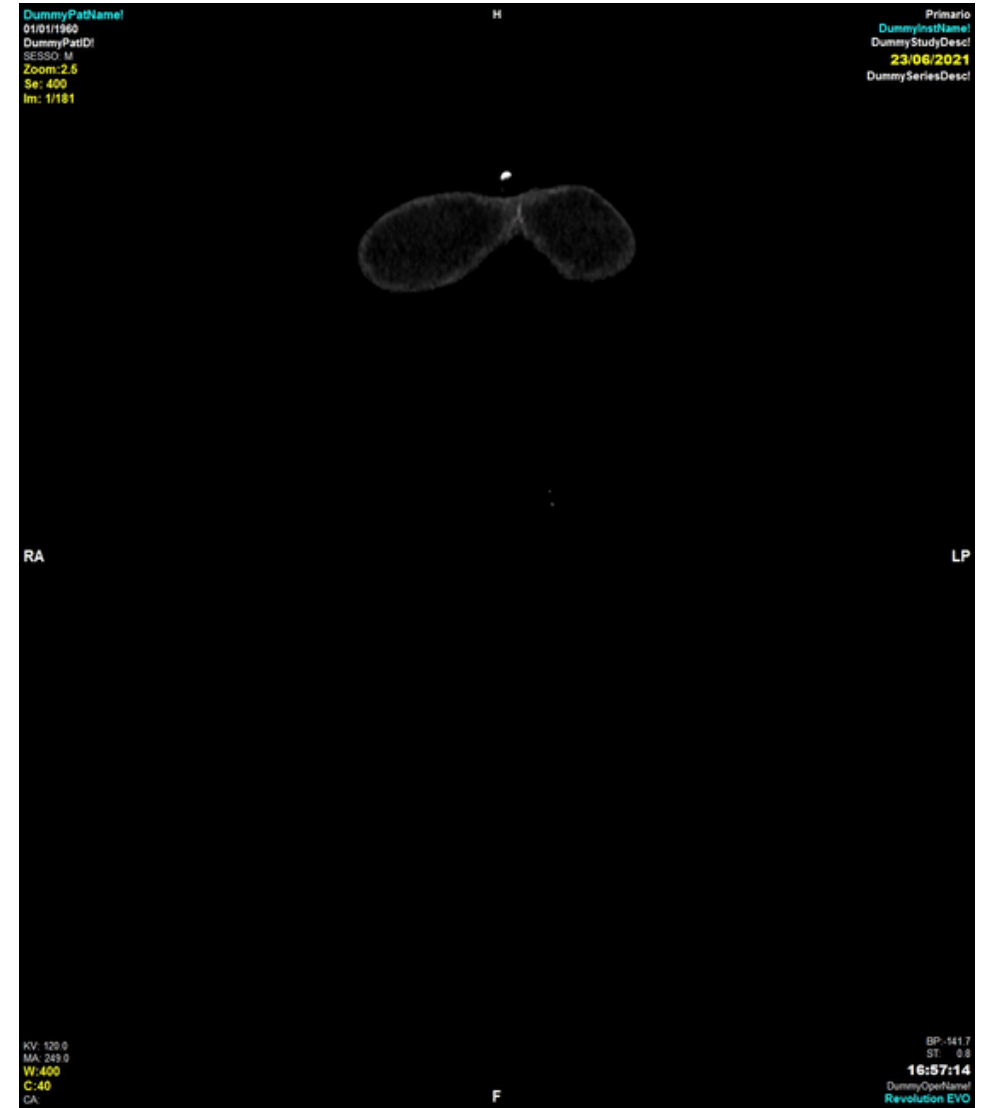
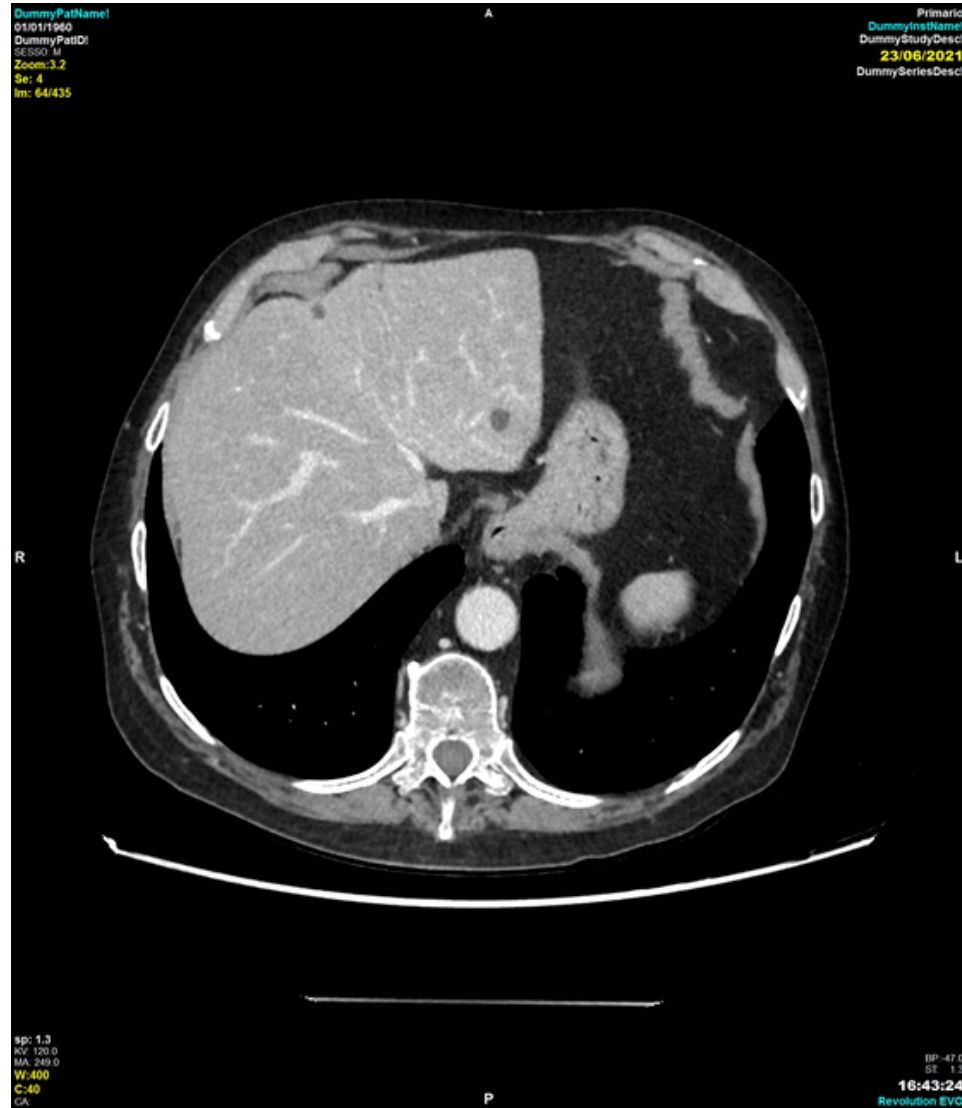


**ARTERIOSA**





# PORTALE







## INVAGINAZIONE

Rara nell'adulto (<5% delle invaginazioni, <1% delle cause di occlusione intestinale)

Mean age: 50 YO (M=F)

- Localizzazione (**enteroenteric**, appendiceal, appendiceal-ileocolic, ileocolic, colocolic, rectoanal)
- **80% intestino tenue. 20-25% colon-retto**
- **90% dei casi causa identificabile**, 10% idiopatica
- **LEAD POINT- NON LEAD POINT intussusception**

Feature	Intussusception without Lead Point	Intussusception with Lead Point
Duration	Transient, spontaneously resolving	Persistent or recurrent
Prevalence	Rare	Rare
Bowel obstruction	Often not present	Often present
Treatment	Unnecessary	Surgery required



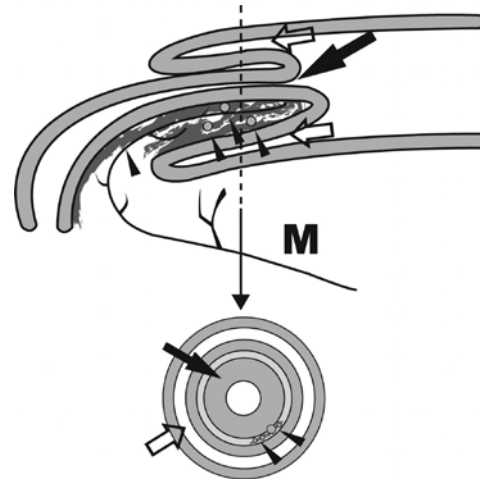
## INTUSSUSCEPTION WITHOUT LEAD POINT

- Small bowel
- US: target sign
- TC: target/sausage like mass
- Distinct anatomic features

## INTUSSUSCEPTION WITH LEAD POINT

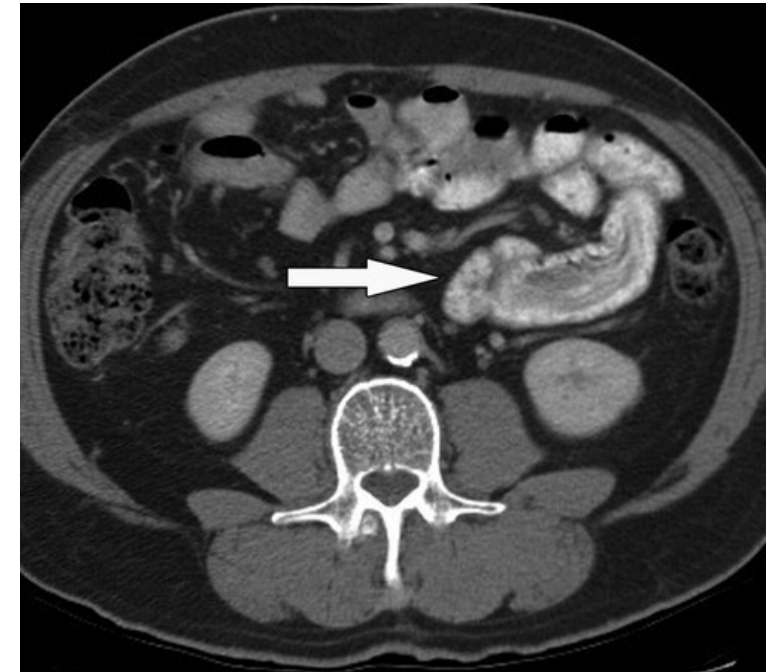
- Large bowel
- US: target/pseudokidney sign
- TC: abnormal target like mass  
Cross sectional diameter > normal  
bowel
- Proximal bowel obstruction

### Target like mass



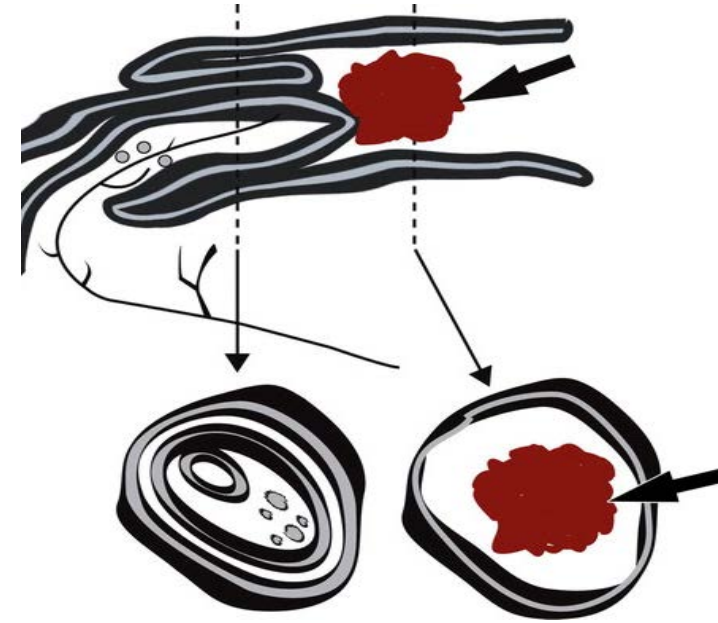
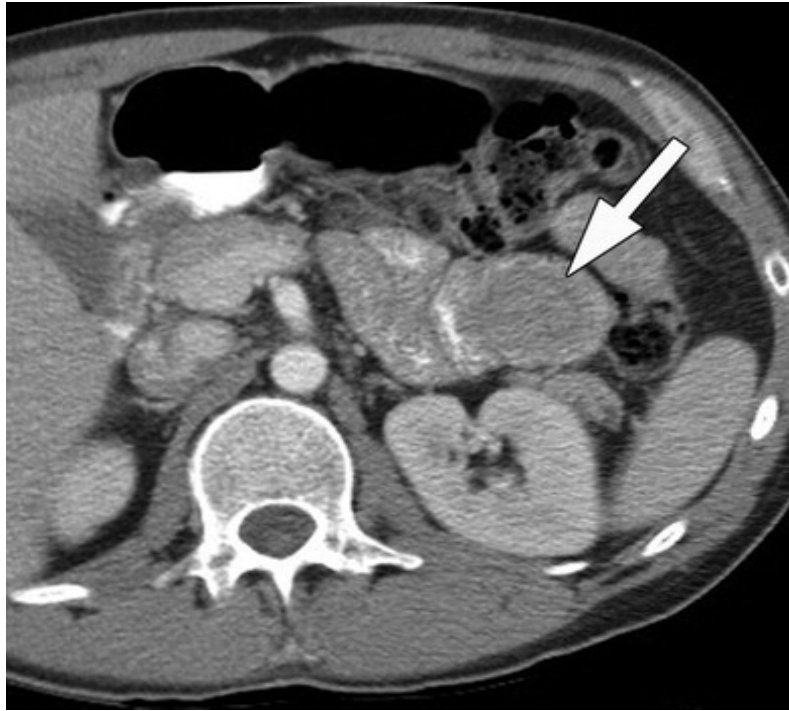
Contrast enhanced CT scan of small bowel intussusception in a 51-YO man with recurrent left lower quadrant pain.

### Sausage like mass



Contrast enhanced CT scan of a transient type small bowel intussusception in a 54-year-old woman. Mesenteric fat and blood vessels are barely visible.

## Abnormal Target like mass



Contrast-enhanced CT scan of a transient type small bowel intussusception in 49 YO man



## CAUSE

### ➤ BENIGNE (50-75%)

Lipoma, Leiomioma  
Polipo adenomatoso  
Diverticolo di Meckel

### ➤ MALIGNI (30-35%)

Lesione metastatica  
Linfoma  
Adenocarcinoma

### ➤ IDIOPATICHE

Sindrome aderenziale  
Disturbi della motilità

Celiachia

**SMALL BOWEL**





## CAUSE

➤ MALIGNI (>60%)

ADENOCARCINOMA

Linfoma

Lesione metastatica

**LARGE BOWEL** →

➤ BENIGNE

Lipoma (inv.colocolica benigna nell'adulto)

Polipo adenomatoso

IBD

➤ IDIOPATICHE

Sindrome aderenziale

Disturbi della motilità

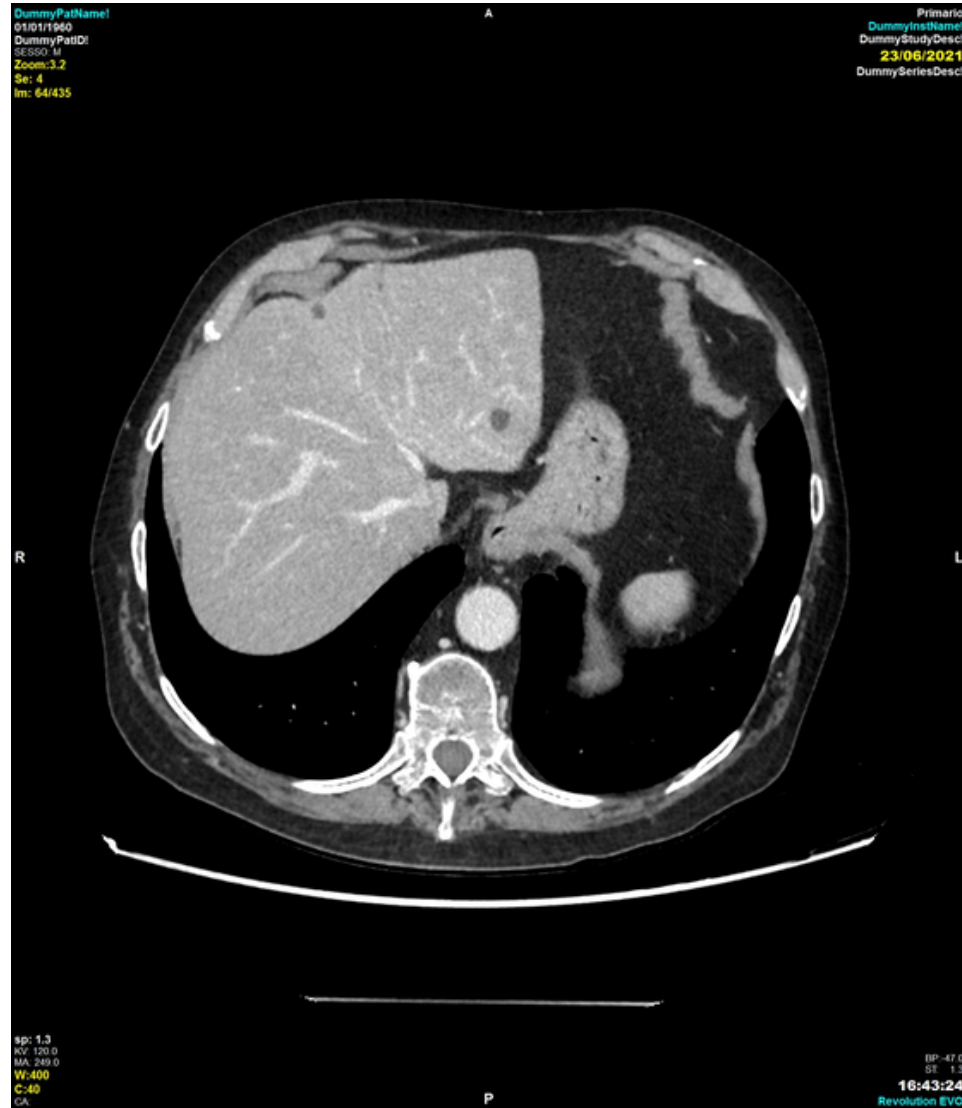
**ILEO-CECALE** →

>50% causa maligna (adc ceco con interessamento della valvola ileo cecale)





# PORTALE





## **IPOTESI DIAGNOSTICHE?**

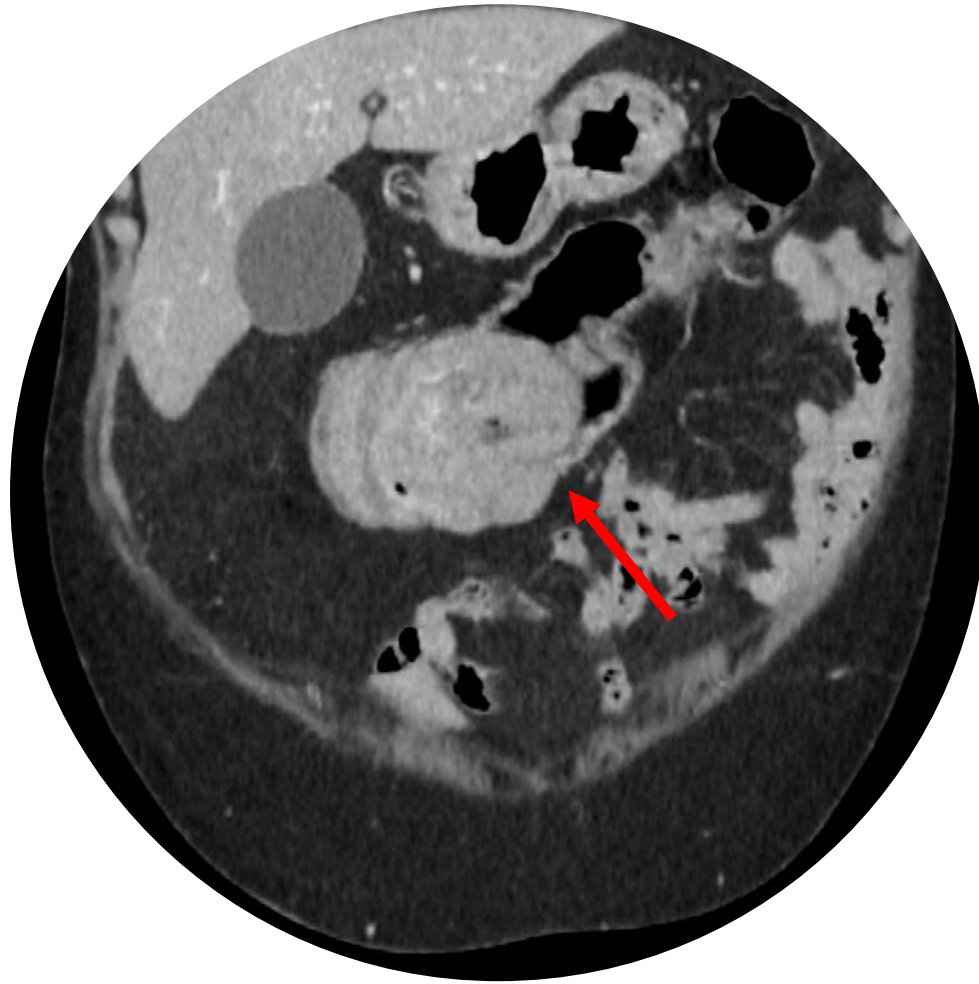
**A) Sindrome aderenziale**

**B) Malformazione congenita**

**C) Neoplasia**

**D) IBD**

**E) Disturbo della motilità**





## IPOTESI DIAGNOSTICHE?

A) **Sindrome aderenziale**

B) **Malformazione congenita**

C) **Neoplasia**

D) **IBD**

E) **Disturbo della motilità**

### 28.06.2021: COLONSCOPIA CON BIOPSIA

«..al trasverso medio si reperta voluminosa lesione polipoide occludente il lume. Distalmente alla lesione area di eritema con multiple ulcerazioni lineari che si estende distalmente per circa 10 cm.. »

### 5.07.2021: EMICOLECTOMIA DESTRA



**ESAME ISTOLOGICO:** « Adenocarcinoma del colon di alto grado sec.WHO2019, ulcerato, che infiltra la parete intestinale fino alla sottosierosa (pT3). Immagini di angioinvasione neoplastica (LVI). Due linfonodi locoregionali sono sede di ripetizione neoplastica (pN1b). Margini di resezione ileale e colico indenni (R0).

**Alto grado, pT3 pN1b (Stadio IIIB, sec. AJCC 2017)**



## LEARNING POINTS

- **Invaginazioni coliche rare nell'adulto**
- **Sospettare sempre una causa maligna**
- **Imaging: target/ sausage like mass-pseudokidney**
- **TC mdc per diagnosi causale, localizzazione, estensione di malattia**



# Bibliografia

## Adult Intestinal Intussusception: CT Appearances and Identification of a Causative Lead Point<sup>1</sup>

**CME FEATURE**

See accompanying test at <http://www.rsna.org>

*Young H. Kim, MD • Michael A. Blake, FFR(RCSI), FRCR • Mukesh G. Harisinghani, MD • Krystal Archer-Arroyo, MD • Peter F. Hahn, MD, PhD • Martha B. Pitman, MD • Peter R. Mueller, MD*

## Differentiation Between Surgical and Nonsurgical Intussusception: A Diagnostic Model Using Multi-Detector Computed Tomography

[Vo Tan Duc](#),<sup>1, 2</sup> [Phan Cong Chien](#),<sup>1</sup> [Le Duy Mai Huyen](#),<sup>1</sup> [Pham Ngoc Minh Triet](#),<sup>1</sup> [Pham Thai Hung](#),<sup>1, 3</sup> [Tran-Thi Mai Thuy](#),<sup>1, 2</sup> [Thieu-Thi Tra My](#),<sup>4</sup> and [Nguyen Minh Duc](#)<sup>5, 6</sup>

## Intussusception in Adults: The Role of MDCT in the Identification of the Site and Cause of Obstruction

[Viola Valentini](#),<sup>1</sup> [Grazia Loretta Buquicchio](#),<sup>1</sup> [Michele Galluzzo](#),<sup>1</sup> [Stefania Ianniello](#),<sup>1</sup> [Graziella Di Grezia](#),<sup>2</sup> [Rosa Ambrosio](#),<sup>2</sup> [Margherita Trinci](#),<sup>1</sup> and [Vittorio Miele](#)<sup>1, \*</sup>

[Lipoma of the colon as an unusual cause of recurring partial intestinal occlusion. Clinical case and review of the literature]

[Article in Italian]

D Cossavella<sup>1</sup>, G Clerico, L Rosato, P V Galetto, O Paino, M Trompetto, A R Luc, M Pozzo

## Intussusception in Adults: From Stomach to Rectum

Seung Hong Choi<sup>1</sup>, Joon Koo Han, Se Hyung Kim, Jeong Min Lee, Kyoung Ho Lee, Young Jun Kim, Su Kyung An, Byung Ihn Choi



*Grazie dell'attenzione!*

