

# L'ecografia Morfologica tardiva

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# Malformazioni fetale

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- Quadro mutevole ed in evoluzione
  - Malformazione del I trimestre
    - Acrania-anencefalia
  - Malformazioni transitorie
    - Ascite
  - Malformazioni che si manifestano tra il II e il III trimestre
    - Idrocefalia, Cuore sx ipoplasico
  - Malformazioni che si manifestano dopo la nascita
    - Stenosi aortica, Miopatie



# Morfologica tardiva

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- Continuazione indagine strutturale del II trimestre
  - Organi principali
- Malformazioni evolutive
- Errori diagnostici
- Limiti del III trimestre
  - Ossificazione
  - Ecogenicità
  - Liquido amniotico

# Morfologica tardiva

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## □ Indagine sistematica

### ■ Cranio → Caudale

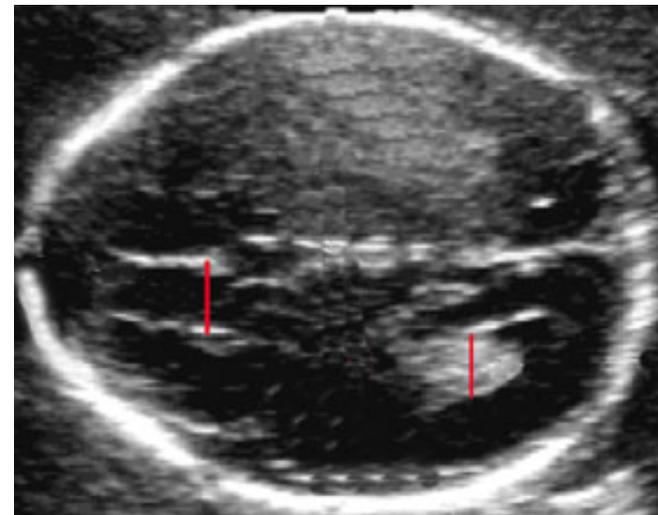
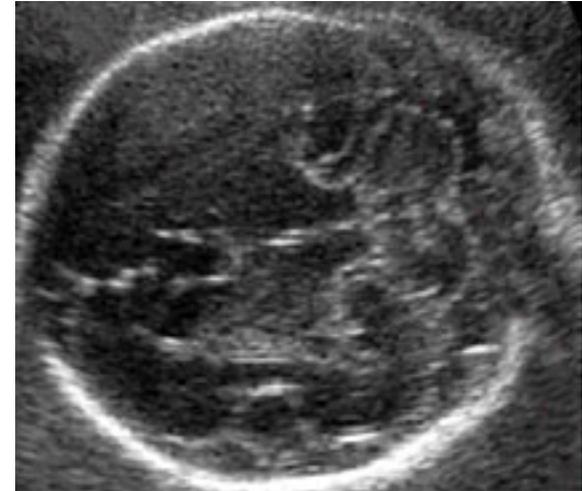
- Estremo cefalico
- Faccia
- Torace
- Cuore
- Diaframma
- Addome
- Arti
- Placenta
- Liquido amniotico



# SNC

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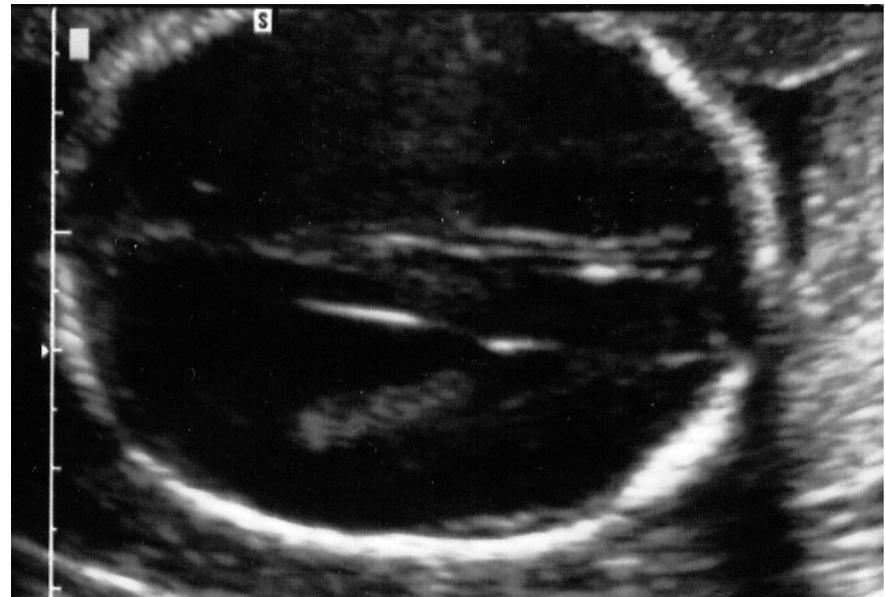
- Linea mediana
- Cavo del setto pellucido
- Talami
- Cervelletto
- Ventricoli cerebrali
  - Posteriore



# SNC

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- Idrocefalia
- Emorragie cerebrali
- Tumori cerebrali
- Microcefalia
- Infezioni



# SNC

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## □ Idrocefalia

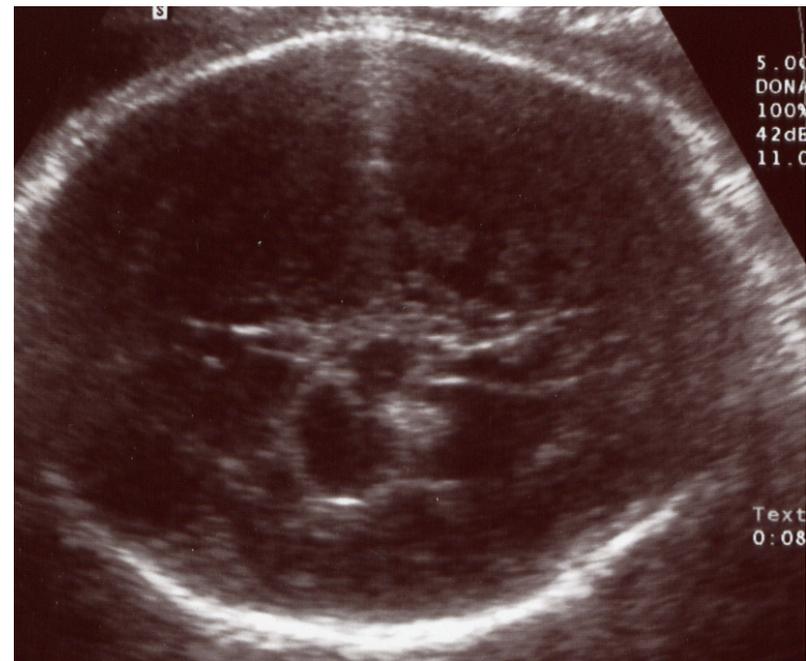
- Borderline → 10-15 mm
- Vera → > 15 mm



# SNC

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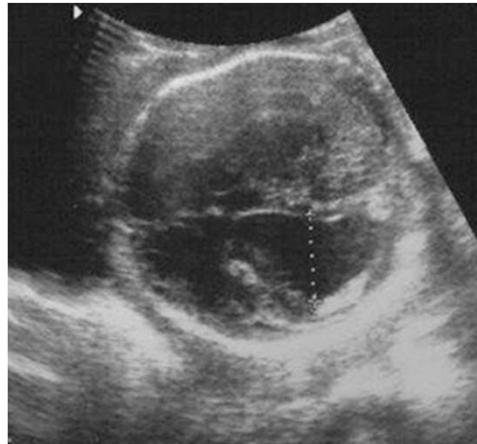
- Emorragie cerebrali
  - Accidenti vascolari



# SNC

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- Infezioni fetali
  - Toxoplasmosi
    - Calcificazioni / Emorragie
  - Cytomegalovirus
    - Microcefalia



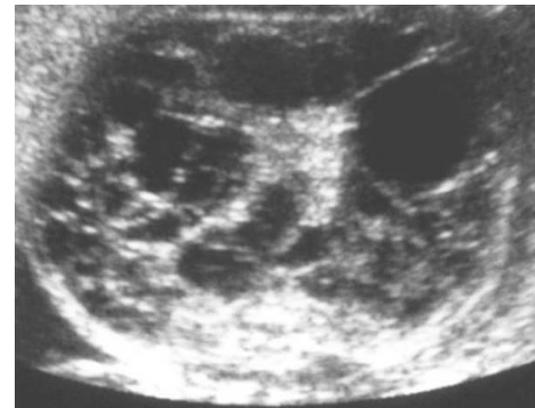
# SNC

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## □ Tumori cerebrali



Amartoma



Linfagioma



Teratoma



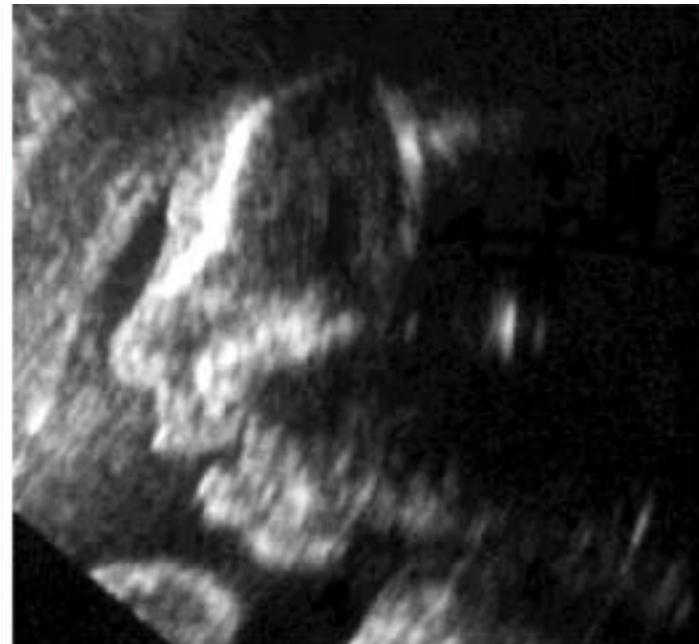
Papilloma

# SNC

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## □ Microcefalia

- Eziologia
- Anomalie cromosomiche
- Anomalie genetiche
- Ipossia
- Infezioni congenite
- Radiazioni
- Agenti teratogeni



# Torace

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- Cuore
  - 4 camere
  - Ev. incroci grossi vasi
- Campi polmonari
  - Polmoni



# Torace

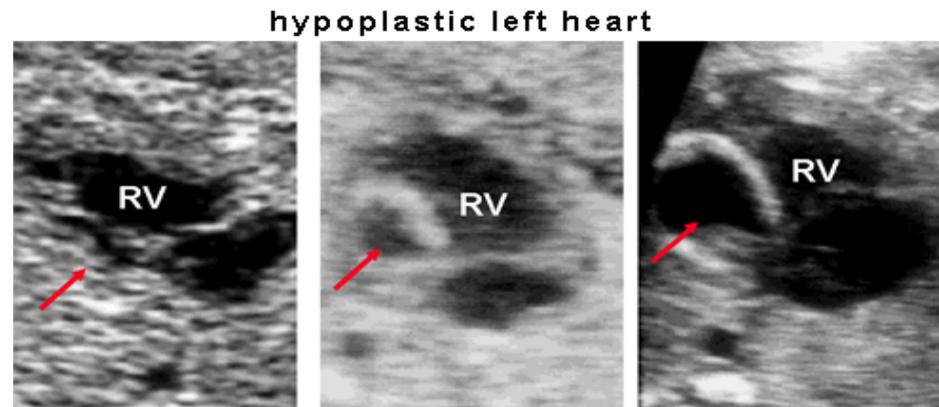
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- Cuore
  - Ipoplasie ventricolari
  - Coartazione aortica
  - DIV

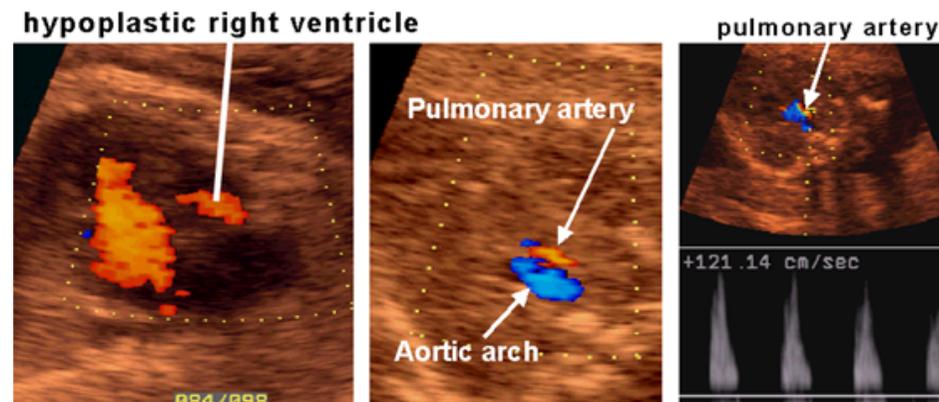


# Cuore

## □ Ipoplasia ventricolo sinistro



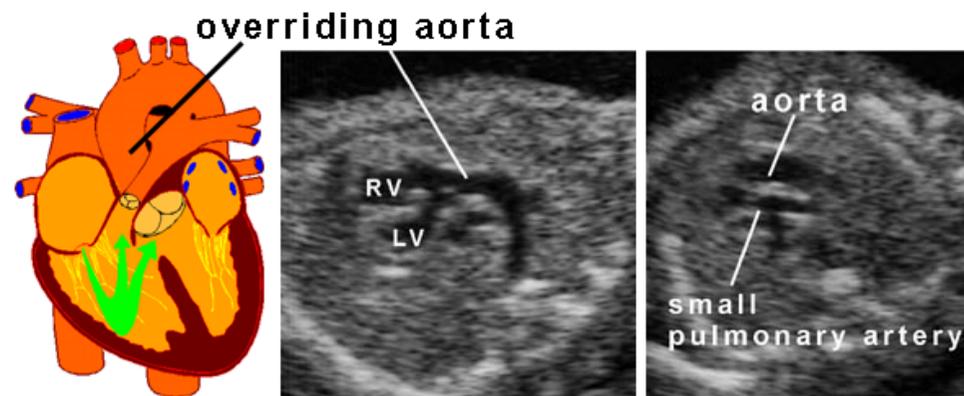
## □ Stenosi polmonare



# Cuore

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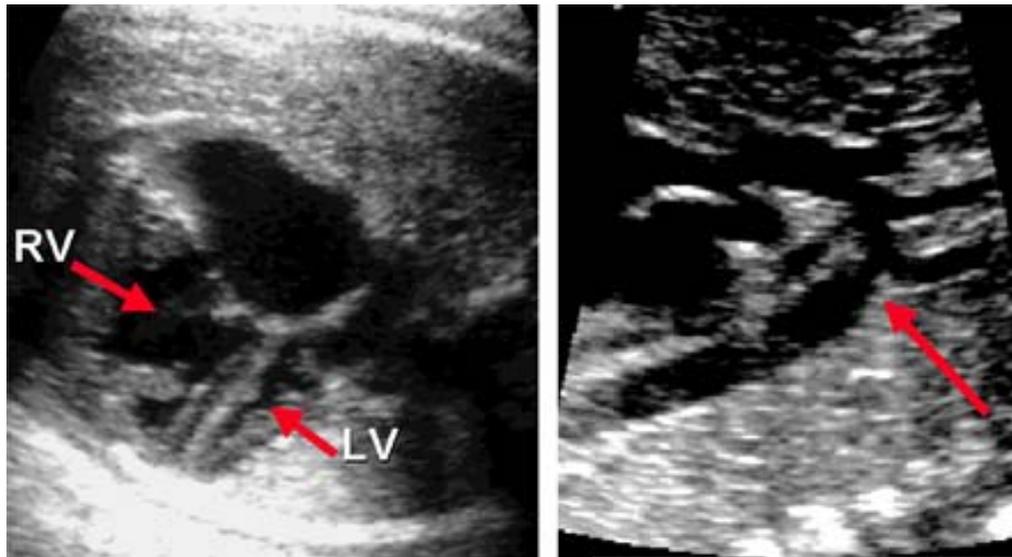
- Tetralogia di Fallot
  - Difetto setto interventricolare
  - Stenosi polmonare
  - Aorta a cavaliere
  - Iperplasia ventricolo dx (dopo la nascita)



# Cuore

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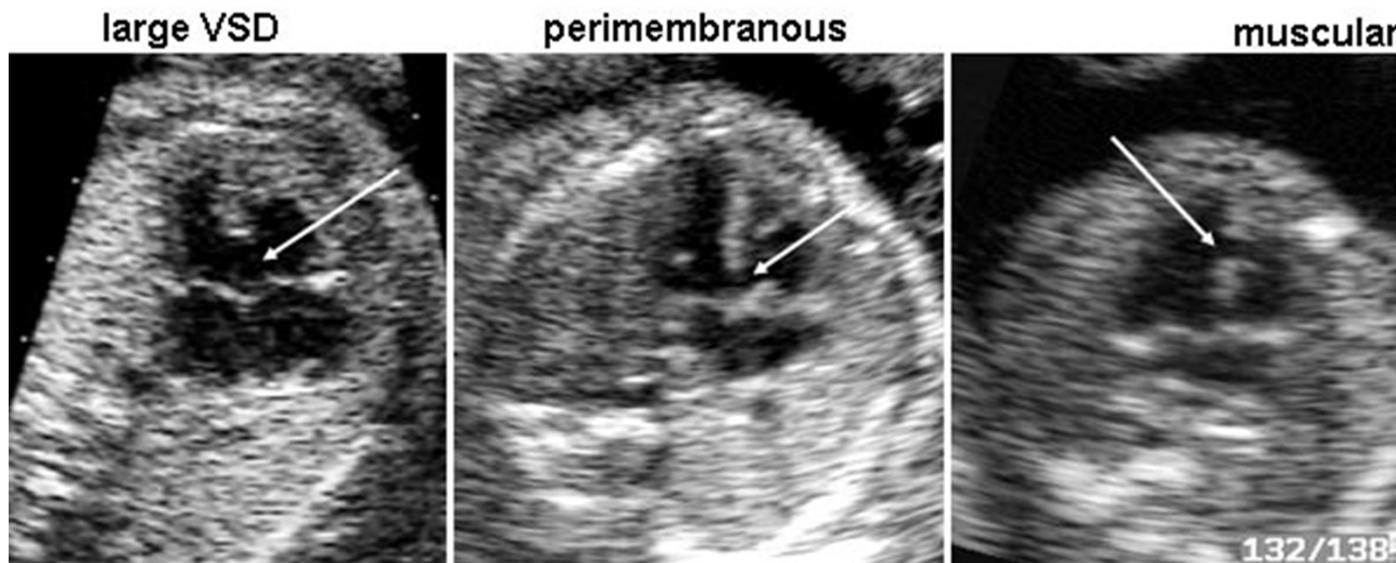
- Quartazione aortica
  - Forma postnatale
  - Forma fetale
    - Ventricolo destro largo



# Cuore

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## □ DIV



# Torace

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## □ Polmoni

- Ipoplasia polmonare
- CAM
- Idrotorace

## □ Diaframma

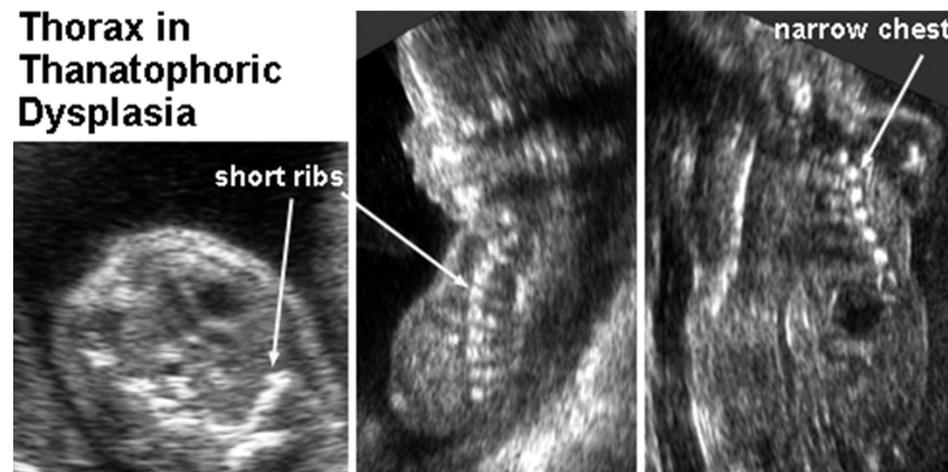
- Ernia diaframmatica



# Torace

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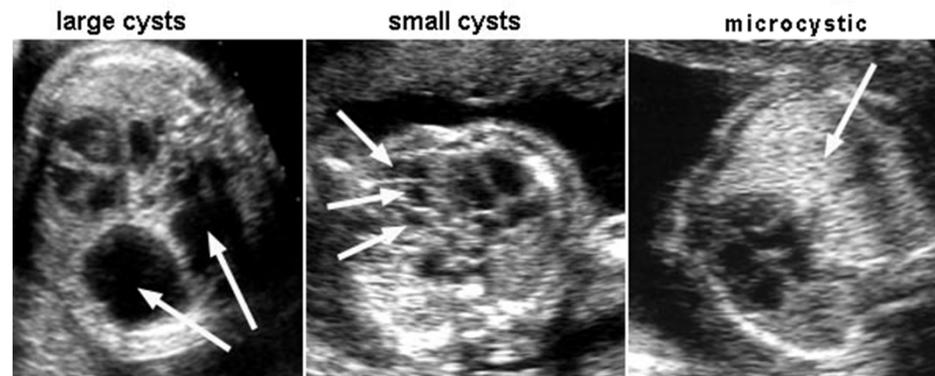
- Ipoplasia toracica/polmonare
  - pPROM
  - Displasia scheletrica



# Torace

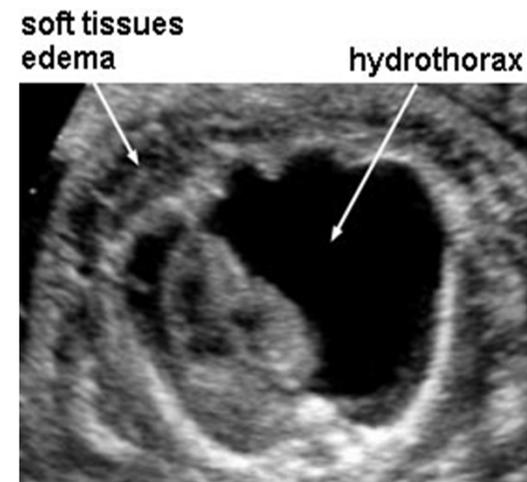
## □ CAM

- I
- II
- III



## □ Idrotorace

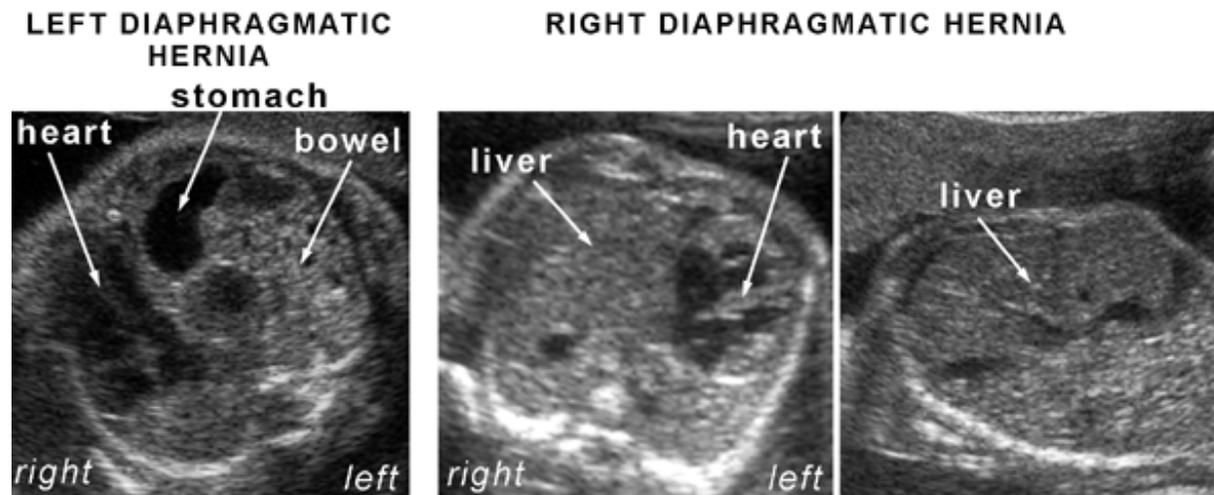
- Malformazioni cardiache
- Infezioni
- Anemia



# Torace

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- Ernia diaframmatica
  - Sinistra
  - Destra



# Addome

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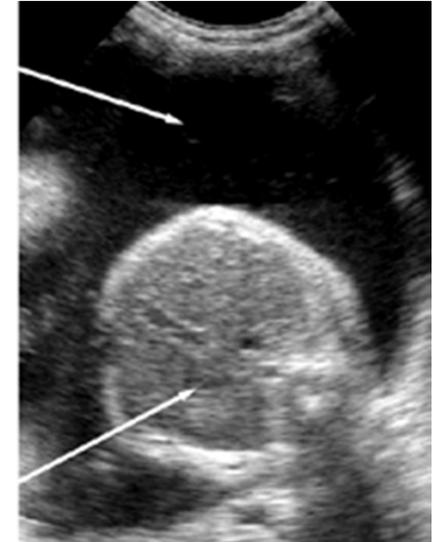
- Parete anteriore
- Stomaco
- Intestino
- Reni
- Vescica



# Addome

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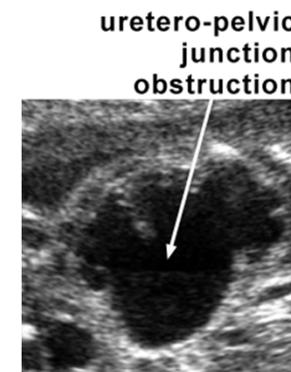
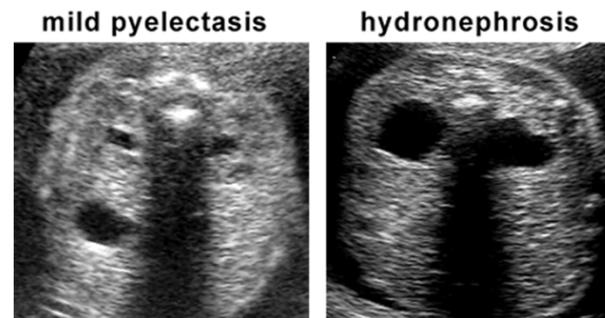
- Atresia esofagea
- Atresia duodeno-digiunale
- Atresia intestinale



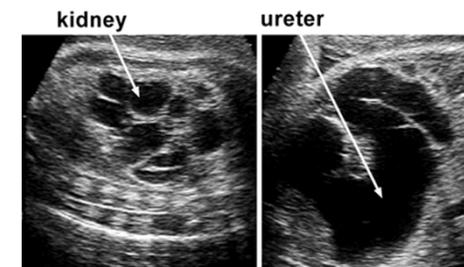
# Apparato urogenitale

## □ Uropatie ostruttive

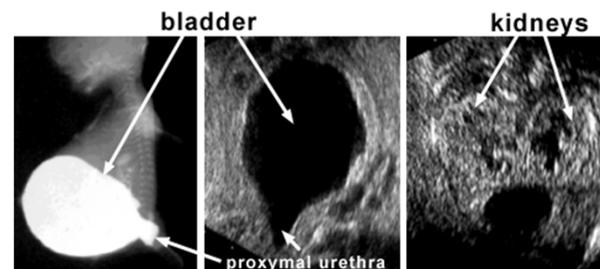
### ■ Giunto uretero-pelvico



### ■ Giunto uretero-vescicale

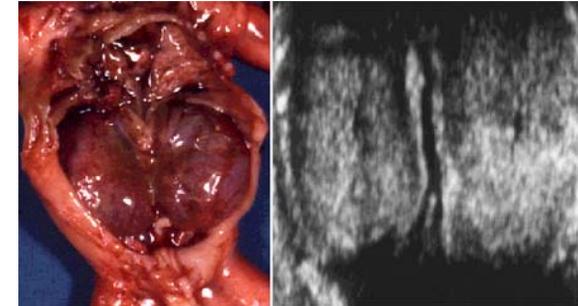


### ■ Stenosi uretrale



# Apparato urogenitale

- Displasia renale
  - Potter
    - I → Policistico infantile



- II → Displastico



- III → Policistico adulto



# Apparato urogenitale

## □ Genitali

### ■ Genitali ambigui

### ■ Conferma del sesso



# Arti

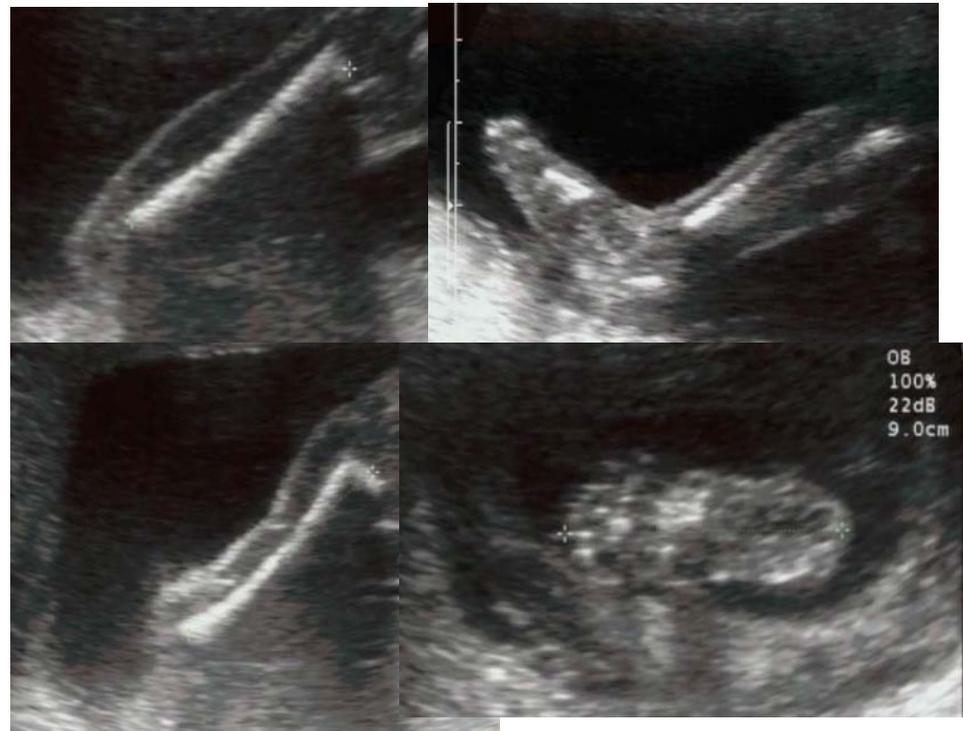
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## □ Arti superiori

- Omero
- Radio e ulna
- Mano

## □ Arti inferiori

- Femore
- Tibia e Fibula
- Piede



# Arti

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- Displasie scheletriche
  - Osteocondrodisplasie
    - Acondrodisplasia
  
- Amputazione
  - Incidente vascolare
  - Briglia maniotica



# Conclusioni

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- Indagine morfologia tardiva
  - Indispensabile
  - Difficoltosa
  - Incompleta
  
- Numero parametri
  - Benessere fetale
  - Ritmo di crescita





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