

ALAJ

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Referral note

- 6₂ P₁ (5714 jaar na sectio)
- grote uterus myoma AT 3/9/24
- lichte zw diabetes.
(insulin)

echopopok (29wk)

- grote mycna
 - fleu anten
 - P₂ hou
 - ± geen vruchtwater
 - CTG ~~paroxys~~
- Δ: fractuur / scope

Prenatally

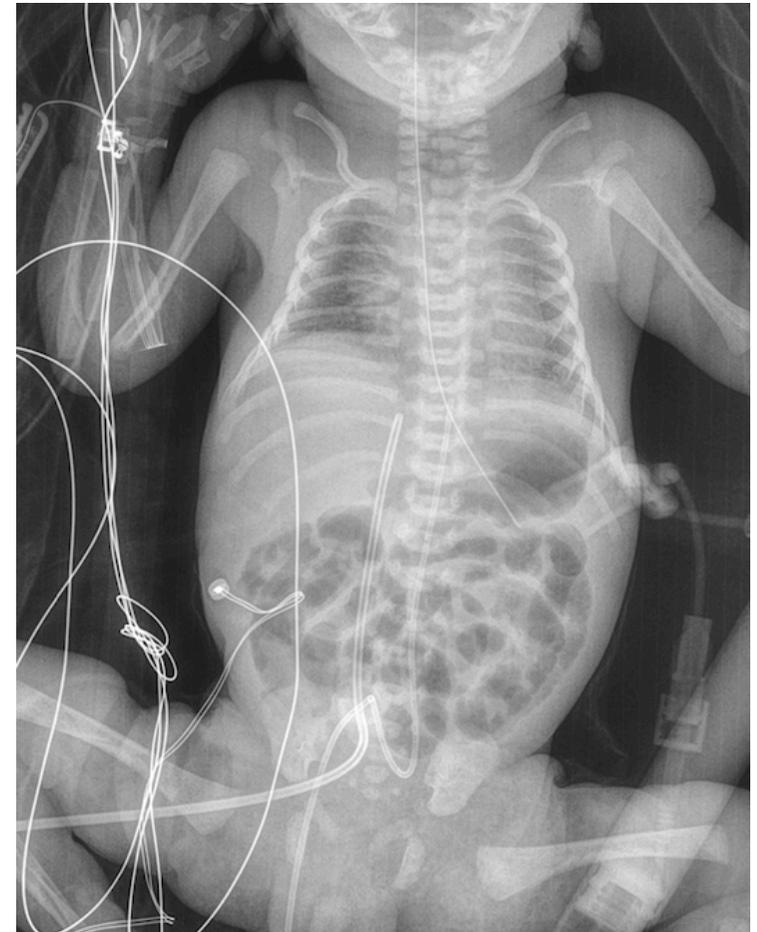
- Mother 43 years old – Pakistani origin
 - Gestational diabetes requiring insulin
 - Uterus myomatosus

 - Referral to Genk at PML 29w2d
 - Anhydramnion
- Urgent caesarean because of decelerative CTG

Resuscitation

- Difficult extraction
- PML 29w2d – birth weight 1050 grams (P30)
- Apgar 5-6-7

	Value	Normal values
Hemoglobin	12.2 g/dL	13.3 - 19.8 g/dL
Leukocyte	10.800 /mm ³	6 - 17.500 /mm ³
Thrombocyte	174.000/mm ³	150-400.000/mm ³
CRP	1 mg/L	< 5 mg/L
Natrium	138mmol/L	132-145mmol/L
Kalium	4.20mmol/L	3.4-4.5 mmol/L
Creatinin	1.16 mg/dL	0.24 – 0.85 mg/dL
Albumine	32 g/L	28-44g/L



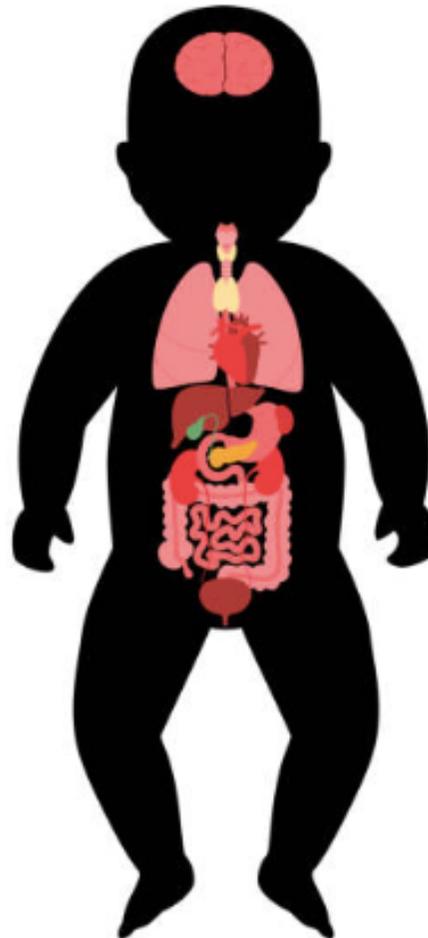
Evolution

Respiratory

- Lunghypoplasia
- HFO
- Surfactant

Renal

- Anuria
- Increasing creatinin



Skeletal:

- Widely split cranial sutures
- Giant fontanel (craniotabes?)

Cardio-circulatory

- Open ductus arteriosus
- Hypotension

Etiology?
Further diagnostics?

Etiology?
Further diagnostics?

Ultrasound

Etiology?

Further diagnostics?

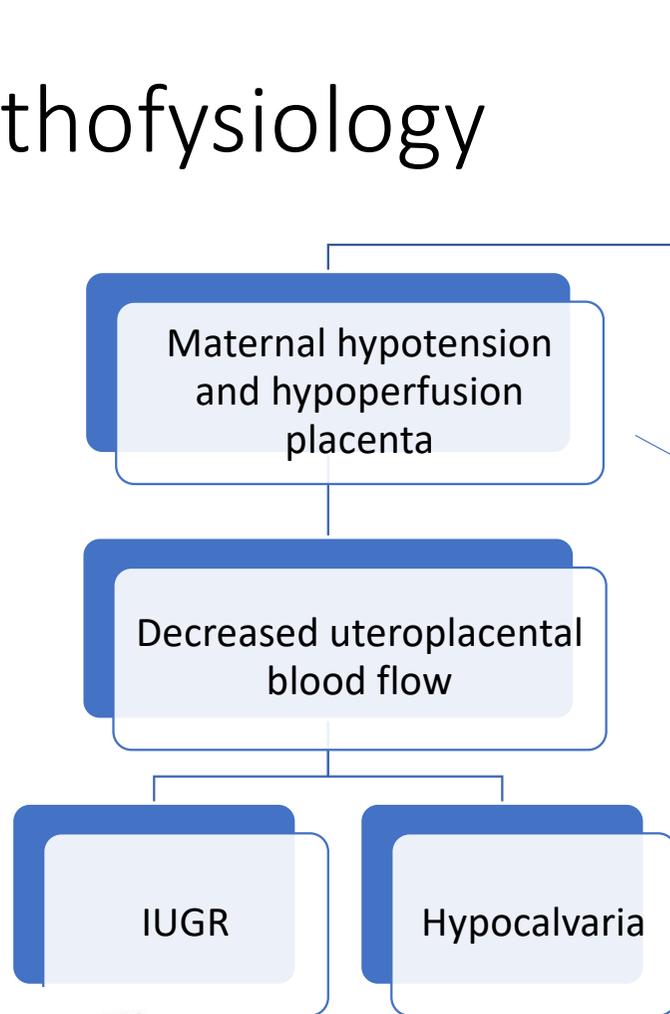
Sevikar

- Olmesarten medoxomil
- Amlodipine
- Hydrochloorthiazide

Fetal RAS blockade syndrome

1. Kidney failure
2. Hypocalvaria
3. IUGR
4. Persistent ductus arteriosus
5. Lung hypoplasia

Pathophysiology



RAS blockade

Maternal hypotension and hypoperfusion placenta

Decreased uteroplacental blood flow

IUGR

Hypocalvaria

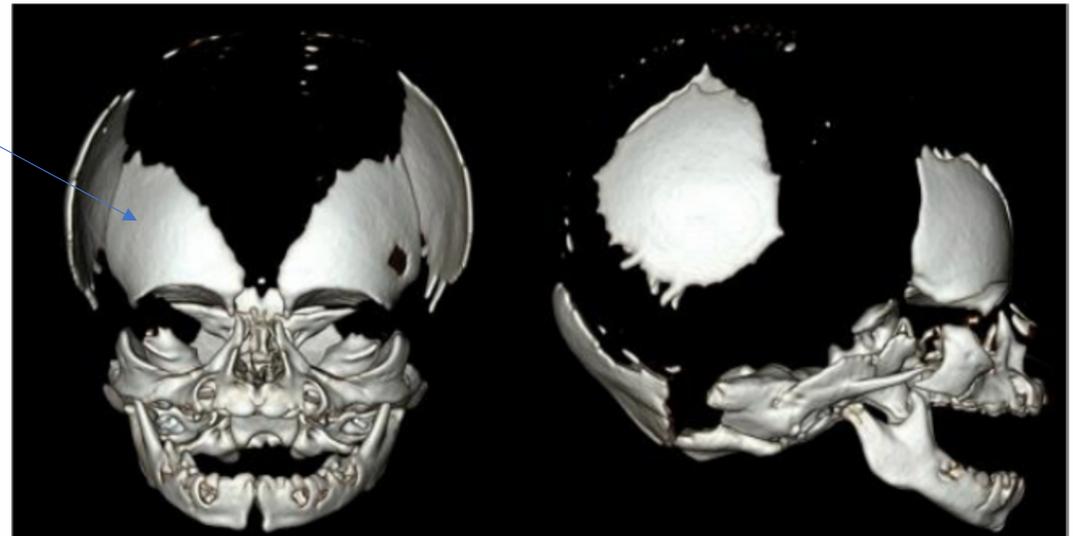
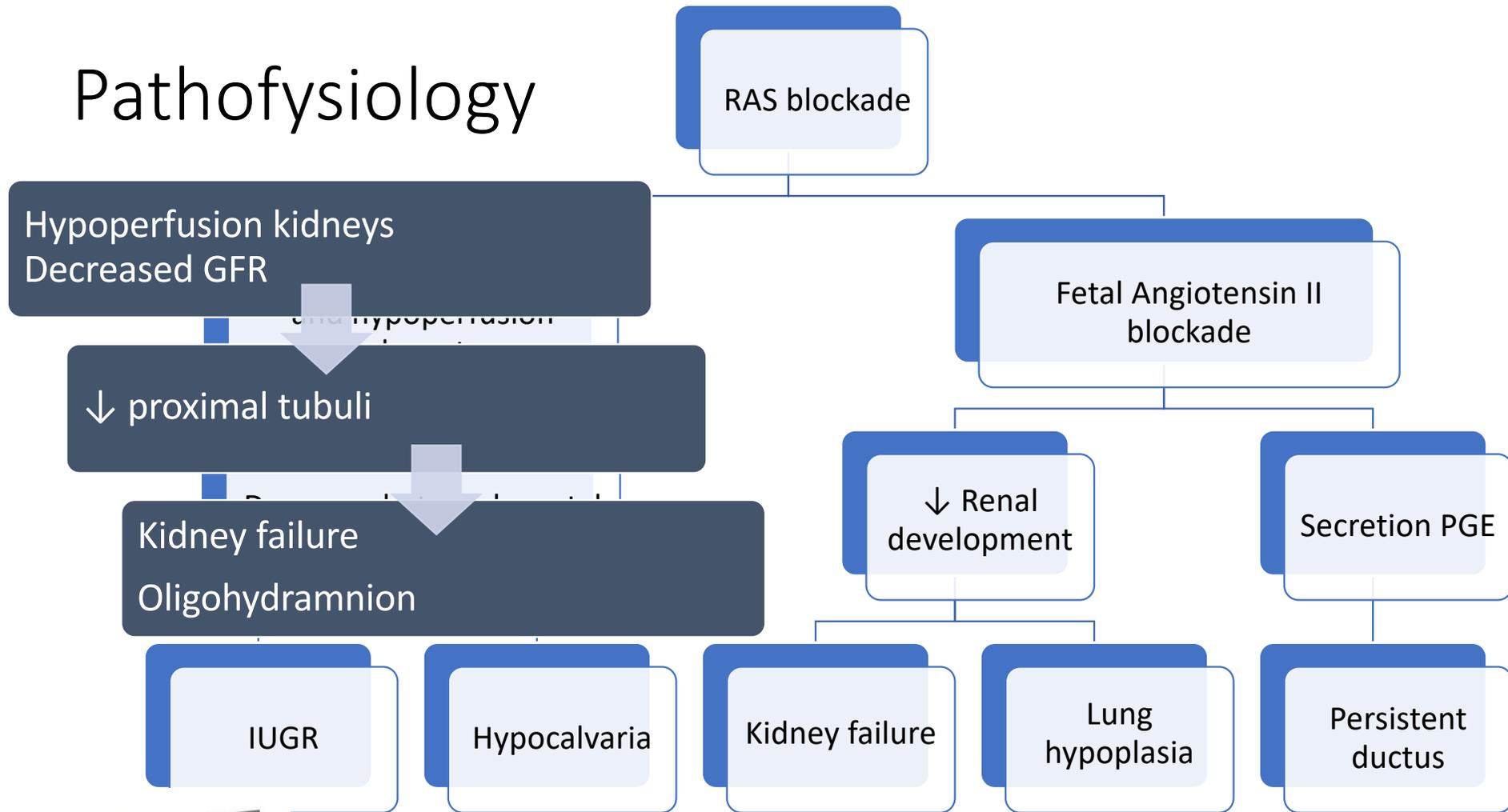


Fig. 2. Three dimensional computed tomography volume rendering images of the skull showing poor ossification of the frontal, temporal, parietal, and occipital bones. Wide cranial sutures are noted.

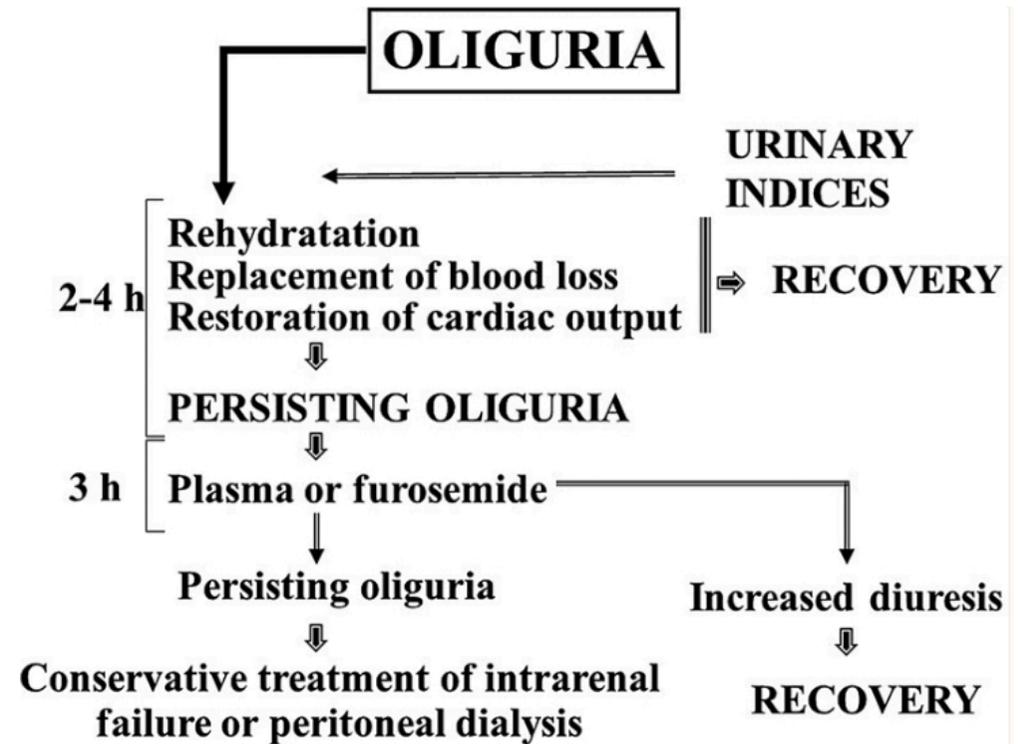
Barr M Jr et al. 1991. *Teratology*.
Ri, Soohyun & Shin. 2017. *Perinatology*.
Quan et al. 2006. *Early human development*.

Pathofysiology



Treatment

- Symptomatic treatment
- Long term follow-up
- High morbidity and mortality!



- *Hyaluronidase (experimental study)*
- *Vasopressin and fludrocortisone (in renal tubular dysgenesis)*

Outcome

- Palliative setting



Take home messages



- High morbidity and mortality
- Long term effects (and follow-up needed)
- Prescribe carefully
- Communication

Alaj = ادويه = medicatie

Questions?

Thank you
for
listening!



Sources

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- A Bullo, Marina %A Tschumi, Sibylle %A Bucher, Barbara S. %A Bianchetti, Mario G. %A Simonetti, Giacomo D. %T Pregnancy Outcome Following Exposure to Angiotensin-Converting Enzyme Inhibitors or Angiotensin Receptor Antagonists %P 444-450 %V 60 %N 2 %R doi:10.1161/HYPERTENSIONAHA.112.196352