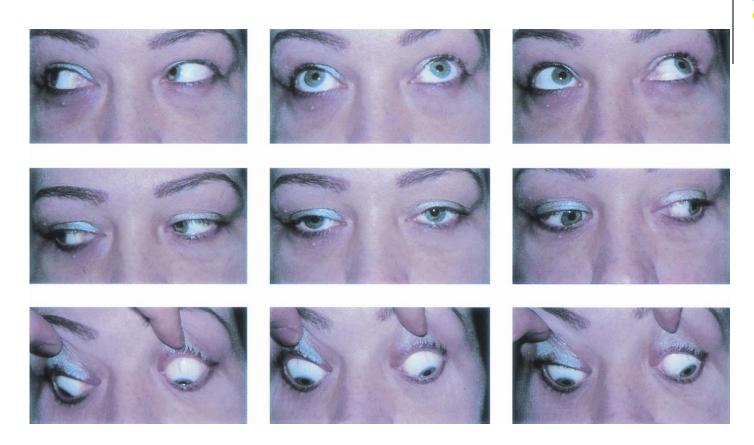


• An A or V pattern strabismus is simply one that

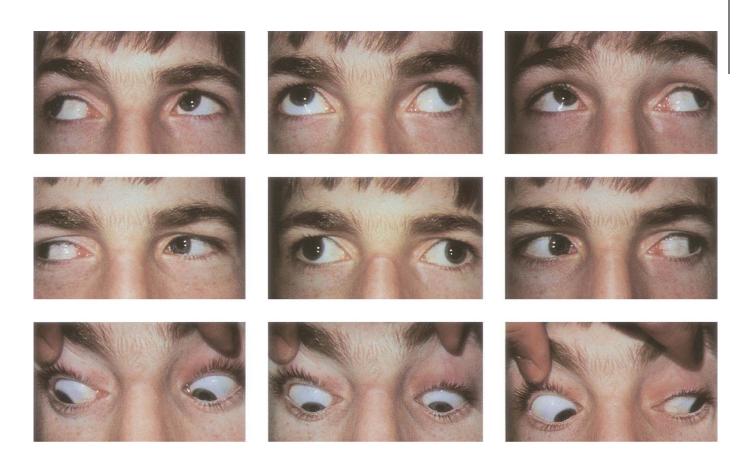
 An A or V pattern strabismus is simply one that changes magnitude in up- and downgaze





A-pattern exotropia





V-pattern exotropia

- An A or V pattern strabismus is simply one that changes magnitude in up- and downgaze
  - Occurs in about of strabismus cases

- An A or V pattern strabismus is simply one that changes magnitude in up- and downgaze
  - Occurs in about 20% of strabismus cases

Q

- An A or V pattern strabismus is simply one that changes magnitude in up- and downgaze
  - Occurs in about 20% of strabismus cases
- Can be secondary to:
  - 1) EOM dysfunction
  - 2) a different EOM problem dysfunction
  - serious congenital problem w/ secondary EOM effects

- An A or V pattern strabismus is simply one that changes magnitude in up- and downgaze
  - Occurs in about 20% of strabismus cases
- Can be secondary to:
  - 1) Oblique dysfunction
  - 2) Horizontal or vertical rectus dysfunction
  - 3) Craniosynostosis

Q



Which pattern (A vs V) is associated with which oblique overaction?

- --SO overaction causes...
- --IO overaction causes...
- Can be secondary to:
  - 1) Oblique dysfunction
  - 2) Horizontal or vertical rectus dysfunction
  - 3) Craniosynostosis



A



Which pattern (A vs V) is associated with which oblique overaction?

- --SO overaction causes... A pattern strabismus (A's are 'superior')
- --IO overaction causes... V pattern strabismus
- Can be secondary to:
  - 1) Oblique dysfunction
  - 2) Horizontal or vertical rectus dysfunction
  - 3) Craniosynostosis



Q

- An A or V pattern strabismus is simply one that changes magnitude in up- and downgaze
  - OCCU
     To what does the term craniosynostosis refer?
- Can be
  - 1) Oblig
  - 2) Horiz
  - 3) Craniosynostosis



- An A or V pattern strabismus is simply one that changes magnitude in up- and downgaze
  - To what does the term craniosynostosis refer?

    To the premature closing of cranial suture(s)
- Can be
  - 1) Oblig
  - 2) Horiz
  - 3) Craniosynostosis

Q

- An A or V pattern strabismus is simply one that changes magnitude in up- and downgaze
  - To what does the term craniosynostosis refer?

    To the premature closing of cranial suture(s)
- Can be What results from premature suture closing?
  - 2) Horiz
  - 3) Craniosynostosis



- An A or V pattern strabismus is simply one that changes magnitude in up- and downgaze
  - To what does the term craniosynostosis refer?

    To the premature closing of cranial suture(s)
- Can be
  - What results from premature suture closing?
  - Premature closure produces abnormal growth patterns of the skull and face. Depending upon which suture(s) closes prematurely, specific
  - 2) Horiz and well-recognized patterns of craniofacial malformation may result.
  - 3) Craniosynostosis

Q

 An A or V pattern strabismus is simply one that changes magnitude in up- and downgaze

OCCU

To what does the term craniosynostosis refer?

To the premature closing of cranial suture(s)

- Can be
  - What results from premature suture closing?
  - 1) Obliq Premature closure produces abnormal growth patterns of the skull
  - 2) Horiz and face. Depending upon which suture(s) closes prematurely, specific and well-recognized patterns of craniofacial malformation may result.
  - 3) Craniosynostosis

Two
categories of
craniofacial syndrome

Craniosynostoses

What is the other broad category of craniofacial syndrome?

A

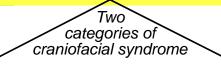
 An A or V pattern strabismus is simply one that changes magnitude in up- and downgaze

OCCU

To what does the term craniosynostosis refer?

To the premature closing of cranial suture(s)

- Can be
  - What results from premature suture closing?
  - 1) Oblic Premature closure produces abnormal growth patterns of the skull and face. Depending upon which suture(s) closes prematurely, specific
  - 2) Horiz and well-recognized patterns of craniofacial malformation may result.
  - 3) Craniosynostosis



Craniosynostoses

Not craniosynostoses

What is the other broad category of craniofacial syndrome?

Q

- An A or V pattern strabismus is simply one that changes magnitude in up- and downgaze
  - OCCU

    To what does the term craniosynostosis refer?

    To the premature closing of cranial suture(s)
- Can be
- What results from premature suture closing?
- 1) Obliq Premature closure produces abnormal growth patterns of the skull
- 2) Horiz and face. Depending upon which suture(s) closes prematurely, specific and well-recognized patterns of craniofacial malformation may result.
- 3) Craniosynostosis



Craniosynostoses

Not craniosynostoses

Which not-craniosynostosis craniofacial malformations are addressed in the Peds book?

--? --?

-?



 An A or V pattern strabismus is simply one that changes magnitude in up- and downgaze

OCCU

To what does the term craniosynostosis refer?

To the premature closing of cranial suture(s)

- Can be
  - What results from premature suture closing?
  - 1) Oblic Premature closure produces abnormal growth patterns of the skull and face. Depending upon which suture(s) closes prematurely, specific
  - 2) Horiz and well-recognized patterns of craniofacial malformation may result.
  - 3) Craniosynostosis

Two categories of craniofacial syndrome

Craniosynostoses

Not craniosynostoses

Which not-craniosynostosis craniofacial malformations are addressed in the Peds book?

--Goldenhar

--Treacher Collins

--Pierre Robin sequence

--Fetal alcohol

• An A or V pattern strabismus is simply one that changes magnitude in up- and downgaze

OCCU To what does the term craniosynostosis refer? To the premature closing of cranial suture(s)

- - What results from premature suture closing?
  - Premature closure produces abnormal growth patterns of the skull
  - and face. Depending upon which suture(s) closes prematurely, specific ONZ and well-recognized patterns of craniofacial malformation may result.
  - 3) Craniosynostosis



### Craniosynostoses

Which craniosynostosis syndromes are addressed in the Peds book?

Not craniosynostoses

- -Goldenhar
- -Treacher Collins
- --Pierre Robin sequence
- --Fetal alcohol



- An A or V pattern strabismus is simply one that changes magnitude in up- and downgaze
  - OCCU

    To what does the term craniosynostosis refer?

    To the premature closing of cranial suture(s)
- Can be
  - What results from premature suture closing?
  - 1) Obliq Premature closure produces abnormal growth patterns of the skull and face. Depending upon which suture(s) closes prematurely, specific
  - 2) Horiz and well-recognized patterns of craniofacial malformation may result.
  - 3) Craniosynostosis

Two categories of craniofacial syndrome

### Craniosynostoses

Which craniosynostosis syndromes are addressed in the Peds book?

--Crouzon

--Apert

--Pfeiffer

--Saethre-Chotzen

#### Not craniosynostoses

--Goldenhar

--Treacher Collins

--Pierre Robin sequence

--Fetal alcohol

Q

- An A or V pattern strabismus is simply one that changes magnitude in up- and downgaze
  - Occurs in about 20% of strabismus cases
- Can be secondary to:
  - 1) Oblique dysfunction
  - 2) Horizontal or vertical rectus dysfunction
  - 3) Craniosynostosis

What strabismus pattern are craniosynostoses usually associated with?



- An A or V pattern strabismus is simply one that changes magnitude in up- and downgaze
  - Occurs in about 20% of strabismus cases
- Can be secondary to:
  - 1) Oblique dysfunction
  - 2) Horizontal or vertical rectus dysfunction
  - 3) Craniosynostosis

What strabismus pattern are craniosynostoses usually associated with? V-pattern XT

- An A or V pattern strabismus is simply one that changes magnitude in up- and downgaze
  - Occurs in about 20% of strabismus cases
- Can be secondary to:
  - 1) Oblique dysfunction
  - 2) Horizontal or vertical rectus dysfunction
  - 3) Craniosynostosis

What strabismus pattern are craniosynostoses usually associated with?

V-pattern XT

- -- ?
- --?
- --?



- An A or V pattern strabismus is simply one that changes magnitude in up- and downgaze
  - Occurs in about 20% of strabismus cases
- Can be secondary to:
  - 1) Oblique dysfunction
  - 2) Horizontal or vertical rectus dysfunction
  - 3) Craniosynostosis

What strabismus pattern are craniosynostoses usually associated with? V-pattern XT

- -- Crouzon syndrome
- --Apert syndrome
- --Pfeiffer syndrome



All three craniosynostoses have similar facies. How can they be differentiated?

- An A chat ch
  - Occurs in about 20% of strabismus cases
- Can be secondary to:
  - 1) Oblique dysfunction
  - 2) Horizontal or vertical rectus dysfunction
  - 3) Craniosynostosis

What strabismus pattern are craniosynostoses usually associated with? **V-pattern XT** 

- -- Crouzon syndrome
- --Apert syndrome
- --Pfeiffer syndrome

that



- All three craniosynostoses have similar facies. How can they be differentiated?
   Crouzon syndrome: Characteristic facies only
  - Occurs in about 20% of strabismus cases
- Can be secondary to:
  - 1) Oblique dysfunction
  - 2) Horizontal or vertical rectus dysfunction
  - 3) Craniosynostosis

What strabismus pattern are craniosynostoses usually associated with?

V-pattern XT

- -- Crouzon syndrome
- --Apert syndrome
- --Pfeiffer syndrome





Crouzon syndrome: Characteristic facies



- An A co
- All three craniosynostoses have similar facies. How can they be differentiated?
- **Crouzon syndrome**: Characteristic facies only **Apert syndrome**: Facies + ?
- Occurs in about 20% of strabismus cases
- Can be secondary to:
  - 1) Oblique dysfunction
  - 2) Horizontal or vertical rectus dysfunction
  - 3) Craniosynostosis

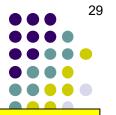
What strabismus pattern are craniosynostoses usually associated with? V-pattern XT

Which three craniosynostoses are associated with V-pattern XT?

Crouzon syndrome

- --Apert syndrome
- --Pteiffer syndrome

A



- An A c
   that ch

  All three craniosynostoses have similar facies. How can they be differentiated?
  Crouzon syndrome: Characteristic facies only
  Apert syndrome: Facies + syndactyly of hands and feet
  - Occurs in about 20% of strabismus cases
- Can be secondary to:
  - 1) Oblique dysfunction
  - 2) Horizontal or vertical rectus dysfunction
  - 3) Craniosynostosis

What strabismus pattern are craniosynostoses usually associated with? **V-pattern XT** 

- --Crouzon syndrome
  --Apert syndrome
- --Pteiffer syndrome

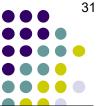




Apert syndrome: Characteristic facies and marked syndactyly



that



All three craniosynostoses have similar facies. How can they be differentiated? An A Crouzon syndrome: Characteristic facies only

Apert syndrome: Facies + syndactyly of hands and feet

- surs in about 20% of strabismus cases
  - Mnemonics:
- 'Patients with Apert syndrome can't get their fingers and toes apert' (apart)

  - 2) Horizontal or vertical rectus dysfunction
  - 3) Craniosynostosis

What strabismus pattern are craniosynostoses usually associated with? V-pattern XT

- Crouzon syndrome
- --Apert syndrome
- --Pteiffer syndrome



All three craniosynostoses have similar facies. How can they be differentiated? Crouzon syndrome: Characteristic facies only **Apert syndrome**: Facies + syndactyly of hands and feet that Pfeiffer syndrome: Facies + ?

Occurs in about 20% of strabismus cases

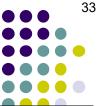
#### Mnemonics:

- Can be 'Patients with Apert syndrome can't get their fingers and toes apert' (apart)

  - 2) Horizontal or vertical rectus dysfunction
  - 3) Craniosynostosis

What strabismus pattern are craniosynostoses usually associated with? V-pattern XT

- -- Crouzon syndrome
- -Apert syndrome
- -Pfeiffer syndrome



- All three craniosynostoses have similar facies. How can they be differentiated? Crouzon syndrome: Characteristic facies only Apert syndrome: Facies + syndactyly of hands and feet that Pfeiffer syndrome: Facies + broad thumbs and broad big toes
  - Occurs in about 20% of strabismus cases

Mnemonics:

- Can be 'Patients with Apert syndrome can't get their fingers and toes apert' (apart)

  - 2) Horizontal or vertical rectus dysfunction
  - 3) Craniosynostosis

What strabismus pattern are craniosynostoses usually associated with? V-pattern XT

- -- Crouzon syndrome
- -<del>Apert syndrome</del>
- -Pfeiffer syndrome



Pfeiffer syndrome: Characteristic facies, broad thumbs/great toes





- All three craniosynostoses have similar facies. How can they be differentiated? An A Crouzon syndrome: Characteristic facies only
  - Apert syndrome: Facies + syndactyly of hands and feet
  - that Pfeiffer syndrome: Facies + broad thumbs and broad big toes
  - curs in about 20% of strabismus cases

#### Mnemonics:

- Can 'Patients with Apert syndrome can't get their fingers and toes apert' (apart)
  - 'Michelle Pfeiffer has huge thumbs and toes' (not really)
  - 2) Horizontal or vertical rectus dysfunction
  - 3) Craniosynostosis

What strabismus pattern are craniosynostoses usually associated with? V-pattern XT

- -- Crouzon syndrome
- -A<del>pert syndroms</del>
- -Pfeiffer syndrome

Q

Gerentiated?

• An A c

All three craniosynostoses have similar facies. How can they be differentiated?

Crouzon syndrome: Characteristic facies

Apert syndrome: Facies + syndactyly of hands and feet

Pfeiffer syndrome: Facies + broad thumbs and broad big toes

# 3) Craniosynostosis

What strabismus pattern are craniosynostoses usually associated with? V-pattern XT

- --Crouzon syndrome
- --Apert syndrome
- --Pfeiffer syndrome

37

that

All three craniosynostoses have similar facies. How can they be differentiated: Crouzon syndrome: Characteristic facies Apert syndrome: Facies + syndactyly of hands and feet

Pfeiffer syndrome: Facies + broad thumbs and broad big toes

In addition to V-pattern XT, what other ocular abnormalities Cases are often present in pts with craniosynostosis?

- --hypertelorism
- --telecanthus
- --shallow orbits
- --extorsion of the orbits
- --papilledema

gers and toes apert' (apart)

# 3) Craniosynostosis

What strabismus pattern are craniosynostoses usually associated with? V-pattern XT

- -- Crouzon syndrome
- --Apert syndrome
- --Pfeiffer syndrome

Q

An A cthat ch

All three craniosynostoses have similar facies. How can they be differentiated:
Crouzon syndrome: Characteristic facies
Apert syndrome: Facies + syndactyly of hands and feet
Pfeiffer syndrome: Facies + broad thumbs and broad big toes

In addition to V-patte are often present in

- --hypertelorism
- --telecanthus
- --shallow orbits
- --extorsion of the ork
- --papilledema

What is the difference between hypertelorism and telecanthus?

rt)

# 3) Craniosynostosis

What strabismus pattern are craniosynostoses usually associated with?

V-pattern XT

- --Crouzon syndrome
- --Apert syndrome
- --Pfeiffer syndrome

that

All three craniosynostoses have similar facies. How can they be differentiated Crouzon syndrome: Characteristic facies

Apert syndrome: Facies + syndactyly of hands and feet Pfeiffer syndrome: Facies + broad thumbs and broad big toes

In addition to V-patte are often present in

- --hypertelorism
- --telecanthus
- --shallow orbits
- --extorsion of the ork
- --papilledema

What is the difference between hypertelorism and telecanthus? Hypertelorism refers to an abnormally increased distance between the medial orbital walls; telecanthus refers to an abnormally increased distance between the medial canthi.

# 3) Craniosynostosis

What strabismus pattern are craniosynostoses usually associated with? V-pattern XT

- -- Crouzon syndrome
- --Apert syndrome
- --Pfeiffer syndrome

that

All three craniosynostoses have similar facies. How can they be differentiated Crouzon syndrome: Characteristic facies Apert syndrome: Facies + syndactyly of hands and feet

Pfeiffer syndrome: Facies + broad thumbs and broad big toes

In addition to V-patte are often present in

- --hypertelorism
- --telecanthus
- --shallow orbits
- --extorsion of the ork --papilledema

What is the difference between hypertelorism and telecanthus? Hypertelorism refers to an abnormally increased distance between the medial orbital walls; telecanthus refers to an abnormally increased distance between the medial canthi.

Which manifests as an increased interpupillary distance?

# 3) Craniosynostosis

What strabismus pattern are craniosynostoses usually associated with? V-pattern XT

- -- Crouzon syndrome
- --Apert syndrome
- --Pfeiffer syndrome

that

All three craniosynostoses have similar facies. How can they be differentiated Crouzon syndrome: Characteristic facies

Apert syndrome: Facies + syndactyly of hands and feet Pfeiffer syndrome: Facies + broad thumbs and broad big toes

In addition to V-patte are often present in

- --hypertelorism
- --telecanthus
- --shallow orbits
- --extorsion of the ork
- --papilledema

What is the difference between hypertelorism and telecanthus? Hypertelorism refers to an abnormally increased distance between the medial orbital walls; telecanthus refers to an abnormally increased distance between the medial canthi.

Which manifests as an increased interpupillary distance? **Hypertelorism** 

# 3) Craniosynostosis

What strabismus pattern are craniosynostoses usually associated with? V-pattern XT

- -- Crouzon syndrome
- --Apert syndrome
- --Pfeiffer syndrome

that

All three craniosynostoses have similar facies. How can they be differentiated's Crouzon syndrome: Characteristic facies Apert syndrome: Facies + syndactyly of hands and feet Pfeiffer syndrome: Facies + broad thumbs and broad big toes

In addition to V-pattern XT, what other ocular abnormalities Cases are often present in pts with craniosynostosis?

- --hypertelorism
- --telecanthus
- --shallow orbits
- --extorsion of the orbit
- --papilledema

ners and toes anert' (apart)

What serious sequelae can result from shallow orbits?

# 3) Craniosynostosis

What strabismus pattern are craniosynostoses usually associated with? V-pattern XT

- -- Crouzon syndrome
- --Apert syndrome
- --Pfeiffer syndrome

43

that

All three craniosynostoses have similar facies. How can they be differentiated: Crouzon syndrome: Characteristic facies

What serious sequelae can result from shallow orbits?

Apert syndrome: Facies + syndactyly of hands and feet Pfeiffer syndrome: Facies + broad thumbs and broad big toes

In addition to V-pattern XT, what other ocular abnormalities Cases are often present in pts with craniosynostosis?

--hypertelorism

ners and toes anert' (apart)

--telecanthus

--shallow orbits

--extorsion of the orbit --papilledema

Shallow orbits produce proptosis, which may lead to

exposure keratopathy

# 3) Craniosynostosis

What strabismus pattern are craniosynostoses usually associated with? V-pattern XT

- -- Crouzon syndrome
- --Apert syndrome
- --Pfeiffer syndrome

that

All three craniosynostoses have similar facies. How can they be differentiated: Crouzon syndrome: Characteristic facies

Apert syndrome: Facies + syndactyly of hands and feet Pfeiffer syndrome: Facies + broad thumbs and broad big toes

In addition to V-pattern XT, what other ocular abnormalities Cases are often present in pts with craniosynostosis?

ers and toes anert' (anart)

--hypertelorism

- --telecanthus
- --shallow orbits
- --extorsion of the orbits
- --papilledema

What are the sequelae of orbital extorsion?

# 3) Craniosynosto

What strabismus pattern are craniosynostoses usually associated with? V-pattern XT

- -- Crouzon syndrome
- --Apert syndrome
- --Pfeiffer syndrome

45

that

All three craniosynostoses have similar facies. How can they be differentiated: Crouzon syndrome: Characteristic facies

Apert syndrome: Facies + syndactyly of hands and feet Pfeiffer syndrome: Facies + broad thumbs and broad big toes

In addition to V-pattern XT, what other ocular abnormalities CaSeS are often present in pts with craniosynostosis?

ers and toes anert' (anart)

--hypertelorism

- --telecanthus
- --shallow orbits
- --extorsion of the orbits
- --papilledema

What are the sequelae of orbital extorsion?

The location of the rectus muscles are extorted as well. For example, the medial recti are located in the superonasal orbit.

# 3) Craniosynosto

What strabismus pattern are craniosynostoses usually associated with? V-pattern XT

- -- Crouzon syndrome
- --Apert syndrome
- --Pfeiffer syndrome

46

that

All three craniosynostoses have similar facies. How can they be differentiated Crouzon syndrome: Characteristic facies Apert syndrome: Facies + syndactyly of hands and feet

Pfeiffer syndrome: Facies + broad thumbs and broad big toes

In addition to V-pattern XT, what other ocular abnormalities Cases are often present in pts with craniosynostosis?

ers and toes anert' (anart)

--hypertelorism

--telecanthus

- --shallow orbits
- --extorsion of the orbits
- --papilledema

What are the sequelae of orbital extorsion?

The location of the rectus muscles are extorted as well. For example, the medial recti are located in the superonasal orbit.

Thus, when the eyes adduct they also elevate, giving the impression of IO overaction (called pseudo-IO overaction). Orbital extorsion contributes to the overall V-pattern XT.

3) Craniosynosto

What strabismus pattern are craniosynostoses usually associated with? V-pattern XT

- -- Crouzon syndrome
- --Apert syndrome
- --Pfeiffer syndrome

47

that

All three craniosynostoses have similar facies. How can they be differentiated: Crouzon syndrome: Characteristic facies Apert syndrome: Facies + syndactyly of hands and feet

Pfeiffer syndrome: Facies + broad thumbs and broad big toes

In addition to V-pattern XT, what other ocular abnormalities Cases are often present in pts with craniosynostosis?

- --hypertelorism
- --telecanthus
- --shallow orbits
- --papilledema

gers and toes apert' (apart)

--extorsion of the ort Why do craniosynostosis patients get papilledema?

# 3) Craniosyriusiusis

What strabismus pattern are craniosynostoses usually associated with? V-pattern XT

- -- Crouzon syndrome
- --Apert syndrome
- --Pfeiffer syndrome

48

gers and toes apert' (apart)

that

All three craniosynostoses have similar facies. How can they be differentiated Crouzon syndrome: Characteristic facies

Apert syndrome: Facies + syndactyly of hands and feet Pfeiffer syndrome: Facies + broad thumbs and broad big toes

In addition to V-pattern XT, what other ocular abnormalities Cases are often present in pts with craniosynostosis?

- --hypertelorism
- --telecanthus
- --shallow orbits
- --papilledema

--extorsion of the orl Why do craniosynostosis patients get papilledema?

Premature suture closure leads to elevated ICP,

thereby producing papilledema

3) Craniosyriusiusis

What strabismus pattern are craniosynostoses usually associated with? V-pattern XT

- -- Crouzon syndrome
- --Apert syndrome
- --Pfeiffer syndrome

Q

49

t' (apart)

An A cthat ch

All three craniosynostoses have similar facies. How can they be differentiated Crouzon syndrome: Characteristic facies

Apert syndrome: Facies + syndactyly of hands and feet

Pfeiffer syndrome: Facies + broad thumbs and broad big toes

In addition to V-pattern XT, what other ocular abnormalities Cases are often present in pts with craniosynostosis?

--hype
--teleo
--teleo
--shall
A-pattern strabismus is associated with another congenital condition
involving abnormal closure of the skeleton housing the CNS—what is
that condition?

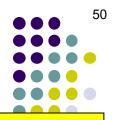
--extol --papiliedema

Premature suture closure leads to elevated ICP, thereby producing papilledema

3) Craniosyriusiusis

What strabismus pattern are craniosynostoses usually associated with? V-pattern XT

- --Crouzon syndrome
- --Apert syndrome
- --Pfeiffer syndrome



t' (apart)

An A cthat ch

All three craniosynostoses have similar facies. How can they be differentiated? Crouzon syndrome: Characteristic facies

Apert syndrome: Facies + syndactyly of hands and feet
Pfeiffer syndrome: Facies + broad thumbs and broad big toes

In addition to V-pattern XT, what other ocular abnormalities Cases are often present in pts with craniosynostosis?

A-pattern strabismus is associated with another congenital condition involving abnormal closure of the skeleton housing the CNS—what is

--shall that condition?

--exto Spina bifida

--papiliedema

Premature suture closure leads to elevated ICP, thereby producing papilledema

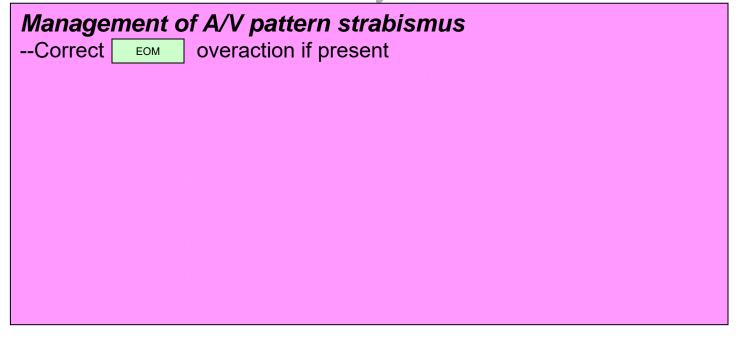
3) Craniosyriusiusis

What strabismus pattern are craniosynostoses usually associated with? **V-pattern XT** 

- -- Crouzon syndrome
- --Apert syndrome
- --Pfeiffer syndrome

Q

- An A or V pattern strabismus is simply one that changes magnitude in up- and downgaze
  - Occurs in about 20% of strabismus cases
- Can be secondary to:





- An A or V pattern strabismus is simply one that changes magnitude in up- and downgaze
  - Occurs in about 20% of strabismus cases
- Can be secondary to:

# Management of A/V pattern strabismus

--Correct oblique overaction if present

Q

- An A or V pattern strabismus is simply one that changes magnitude in up- and downgaze
  - Occurs in about 20% of strabismus cases
- Can be secondary to:

# Management of A/V pattern strabismus --Correct oblique overaction if present --Rule of thumb: Large A/V deviations usually involve same EOM overaction



- An A or V pattern strabismus is simply one that changes magnitude in up- and downgaze
  - Occurs in about 20% of strabismus cases
- Can be secondary to:

# Management of A/V pattern strabismus

- --Correct oblique overaction if present
  - --Rule of thumb: Large A/V deviations usually involve oblique overaction

Q

- An A or V pattern strabismus is simply one that changes magnitude in up- and downgaze
  - Occurs in about 20% of strabismus cases
- Can be secondary to:

# --Correct oblique overaction if present --Rule of thumb: Large A/V deviations usually involve oblique overaction --Focus on positions



- An A or V pattern strabismus is simply one that changes magnitude in up- and downgaze
  - Occurs in about 20% of strabismus cases
- Can be secondary to:

# Management of A/V pattern strabismus

- --Correct oblique overaction if present
  - --Rule of thumb: Large A/V deviations usually involve oblique overaction
- --Focus on primary and reading positions

Q

- An A or V pattern strabismus is simply one that changes magnitude in up- and downgaze
  - Occurs in about 20% of strabismus cases
- Can be secondary to:

# Management of A/V pattern strabismus --Correct oblique overaction if present --Rule of thumb: Large A/V deviations usually involve oblique overaction --Focus on primary and reading positions --If no oblique overaction, correct by displacing the according to the mnemonic



- An A or V pattern strabismus is simply one that changes magnitude in up- and downgaze
  - Occurs in about 20% of strabismus cases
- Can be secondary to:

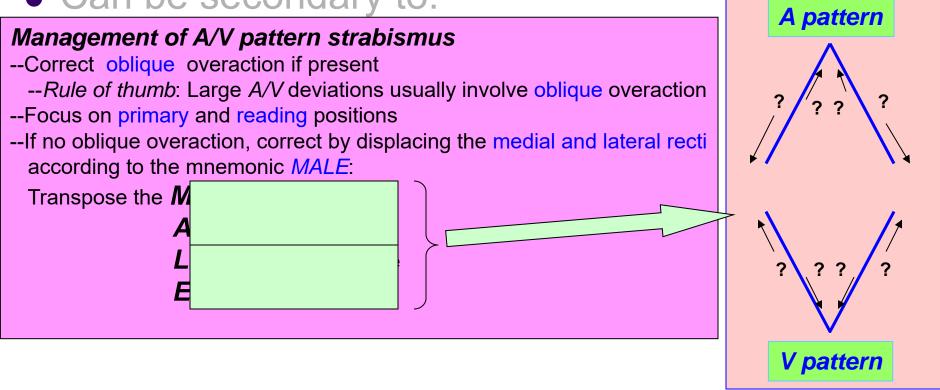
# Management of A/V pattern strabismus

- --Correct oblique overaction if present
  - --Rule of thumb: Large A/V deviations usually involve oblique overaction
- --Focus on primary and reading positions
- --If no oblique overaction, correct by displacing the medial and lateral recti according to the mnemonic *MALE*:

59

- An A or V pattern strabismus is simply one that changes magnitude in up- and downgaze
  - Occurs in about 20% of strabismus cases

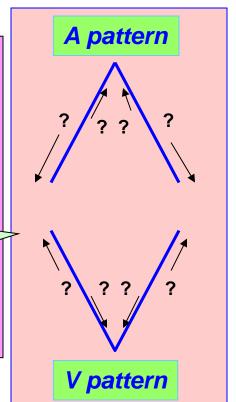
Can be secondary to:



- An A or V pattern strabismus is simply one that changes magnitude in up- and downgaze
  - Occurs in about 20% of strabismus cases

Can be secondary to:

# Management of A/V pattern strabismus --Correct oblique overaction if present --Rule of thumb: Large A/V deviations usually involve oblique overaction --Focus on primary and reading positions --If no oblique overaction, correct by displacing the medial and lateral recti according to the mnemonic MALE: Transpose the Medial recti toward the Lateral recti toward the



60



- An A or V pattern strabismus is simply one that changes magnitude in up- and downgaze
  - Occurs in about 20% of strabismus cases

Can be secondary to:

# Management of A/V pattern strabismus

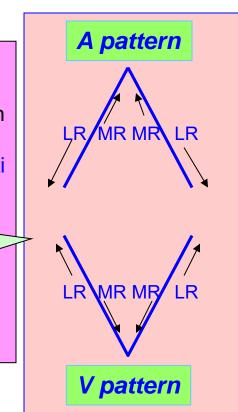
- --Correct oblique overaction if present
  - --Rule of thumb: Large A/V deviations usually involve oblique overaction
- --Focus on primary and reading positions
- --If no oblique overaction, correct by displacing the medial and lateral recti according to the mnemonic *MALE*:

Transpose the **M**edial recti toward the

Apex, and the

Lateral recti toward the

**E**mpty space





- An A or V pattern strabismus is simply one that changes magnitude in up- and downgaze
  - Occurs in about 20% of strabismus cases

Can be secondary to:

# Management of A/V pattern strabismus

- --Correct oblique overaction if present
  - --Rule of thumb: Large A/V deviations usually involve oblique overaction
- --Focus on primary and reading positions
- --If no oblique overaction, correct by displacing the medial and lateral recti according to the mnemonic *MALE*:

Transpose the **M**edial recti toward the

Apex, and the

Lateral recti toward the

Empty space

--Plan and correct the horizontal deviation independently

