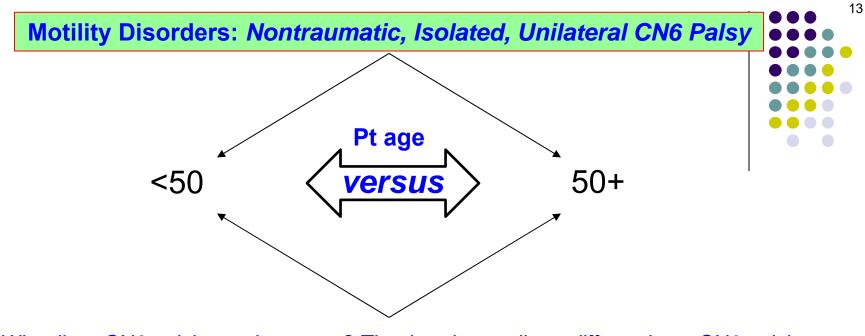
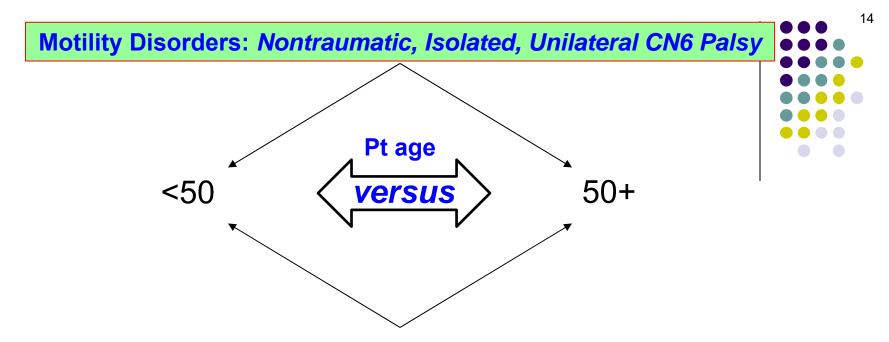


Why divvy CN6 palsies up by pt age? That is, what attribute differentiates CN6 palsies in under-50 folk vs 50+ folk?



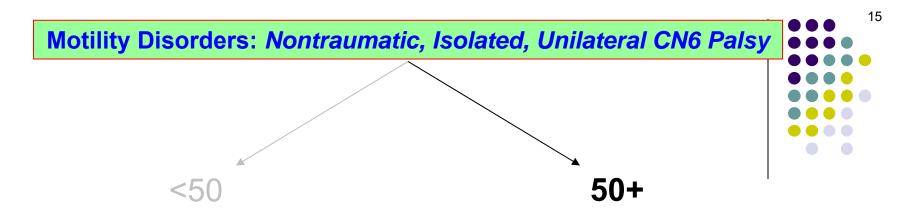
Why divvy CN6 palsies up by pt age? That is, what attribute differentiates CN6 palsies in under-50 folk vs 50+ folk?

The attribute is etiology. In folks 50+, the vast majority of CN6 palsies are word , whereas those in folks <50 are **not** same word

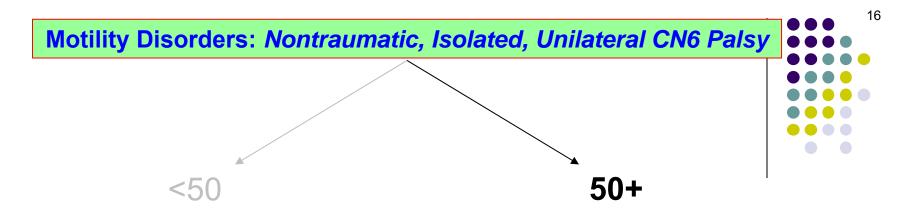


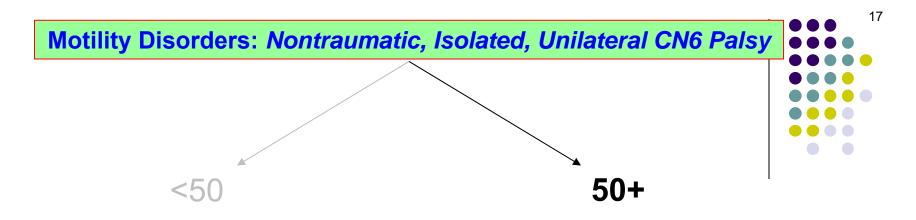
Why divvy CN6 palsies up by pt age? That is, what attribute differentiates CN6 palsies in under-50 folk vs 50+ folk?

The attribute is etiology. In folks 50+, the vast majority of CN6 palsies are ischemic , whereas those in folks <50 are **not** ischemic

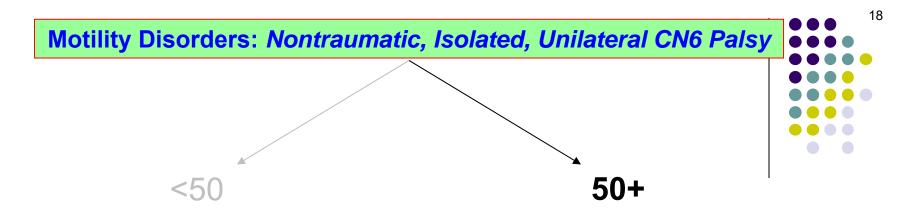


What are the risk factors for a CN6 ischemic mononeuropathy?

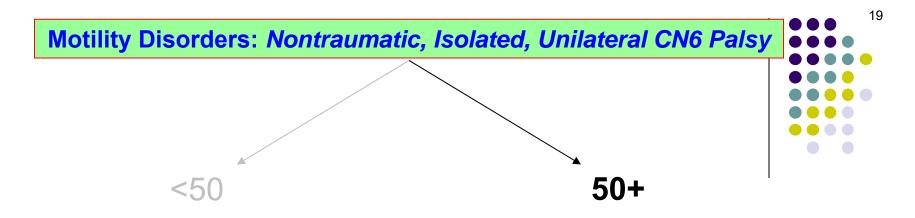




If a vasculopathic 50+ year old presents with an isolated CN6 palsy, what workup is indicated?

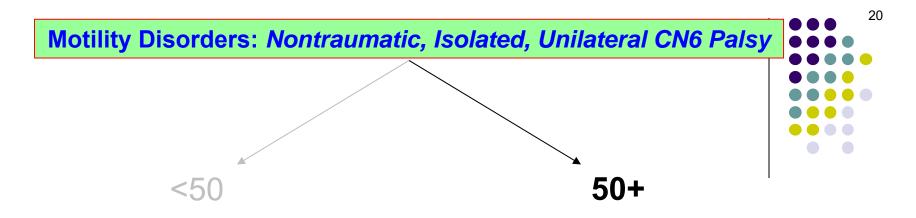


If a vasculopathic 50+ year old presents with an isolated CN6 palsy, what workup is indicated? Other than a complete eye exam and general medical assessment (ie, BP, BS and lipid evals), nothing



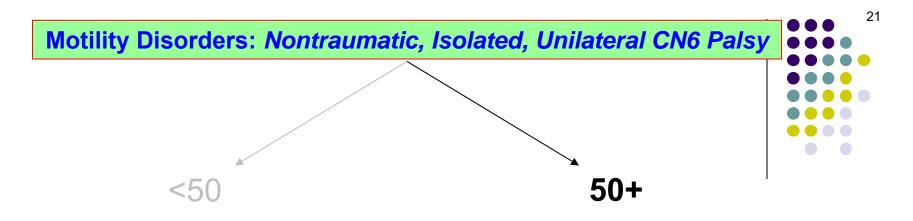
If a vasculopathic 50+ year old presents with an isolated CN6 palsy, what workup is indicated? Other than a complete eye exam and general medical assessment (ie, BP, BS and lipid evals), nothing

What about imaging?



If a vasculopathic 50+ year old presents with an isolated CN6 palsy, what workup is indicated? Other than a complete eye exam and general medical assessment (ie, BP, BS and lipid evals), nothing

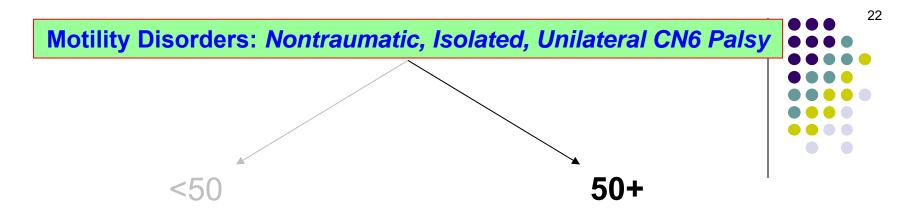
What about imaging? It is not indicated



If a vasculopathic 50+ year old presents with an isolated CN6 palsy, what workup is indicated? Other than a complete eye exam and general medical assessment (ie, BP, BS and lipid evals), nothing

What about imaging? It is not indicated

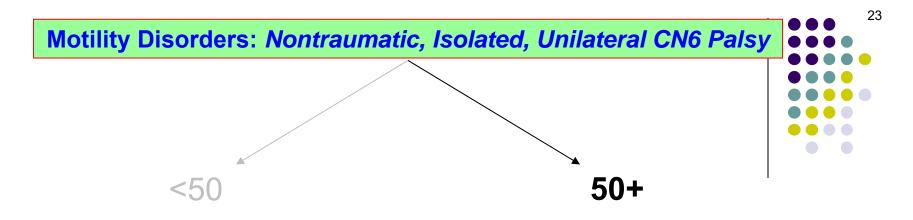
What is the natural course of an ischemic 6<sup>th</sup>?



If a vasculopathic 50+ year old presents with an isolated CN6 palsy, what workup is indicated? Other than a complete eye exam and general medical assessment (ie, BP, BS and lipid evals), nothing

What about imaging? It is not indicated

What is the natural course of an ischemic 6<sup>th</sup>? It will resolve by 3 months

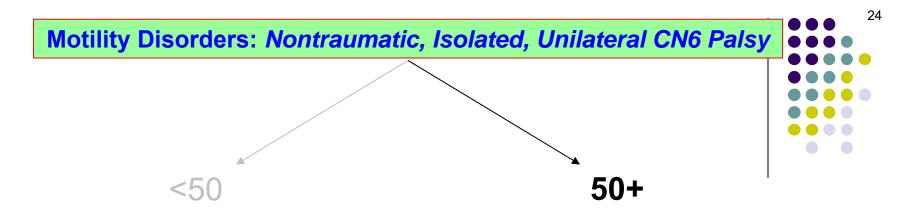


If a vasculopathic 50+ year old presents with an isolated CN6 palsy, what workup is indicated? Other than a complete eye exam and general medical assessment (ie, BP, BS and lipid evals), nothing

What about imaging? It is not indicated

What is the natural course of an ischemic 6<sup>th</sup>? It will resolve by 3 months

How should one proceed if a presumed ischemic 6<sup>th</sup> fails to largely resolve by 3 months?

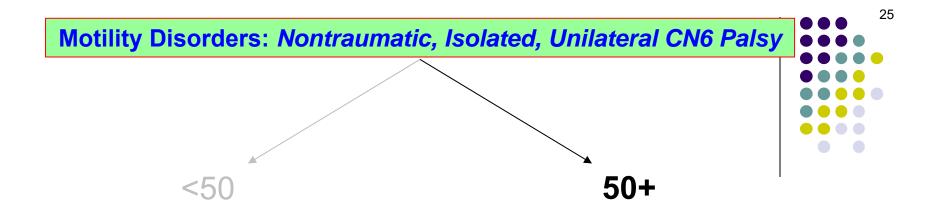


If a vasculopathic 50+ year old presents with an isolated CN6 palsy, what workup is indicated? Other than a complete eye exam and general medical assessment (ie, BP, BS and lipid evals), nothing

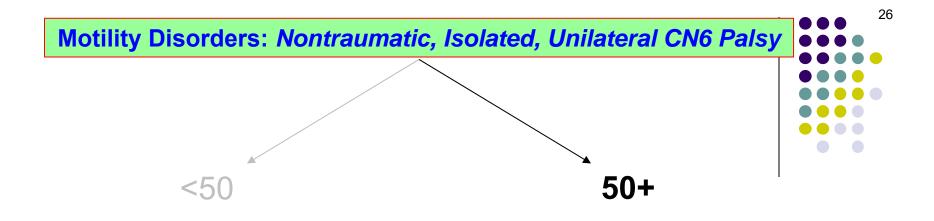
What about imaging? It is not indicated (unless it fails to resolve by 3 months)

What is the natural course of an ischemic 6<sup>th</sup>? It will resolve by 3 months

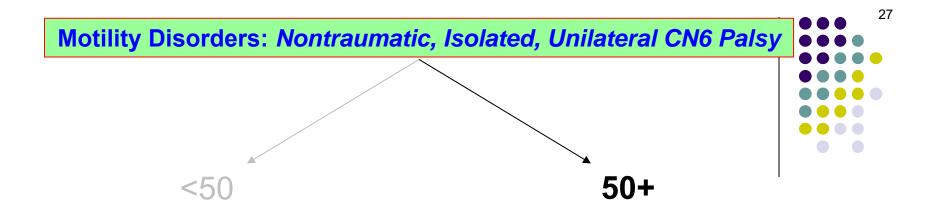
How should one proceed if a presumed ischemic 6<sup>th</sup> fails to largely resolve by 3 months? By obtaining expedited imaging for what apparently is **not** an ischemic 6<sup>th</sup>



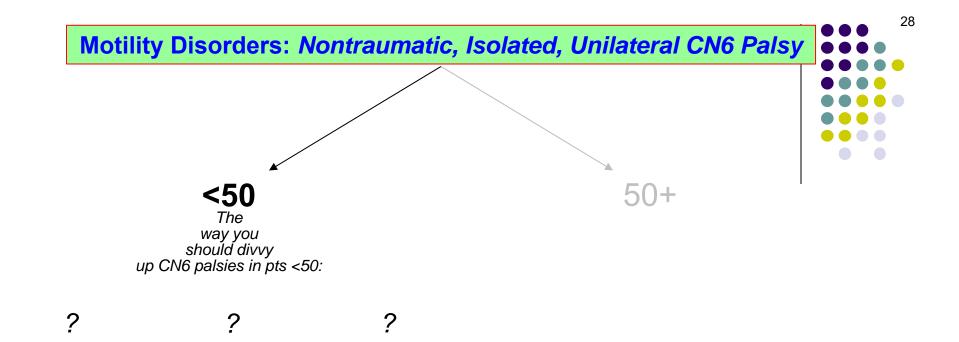
Finally: Two questions must be addressed before you assume a CN6 palsy in a 50+ vasculopath is 'merely' ischemic, and therefore nothing to be concerned about:



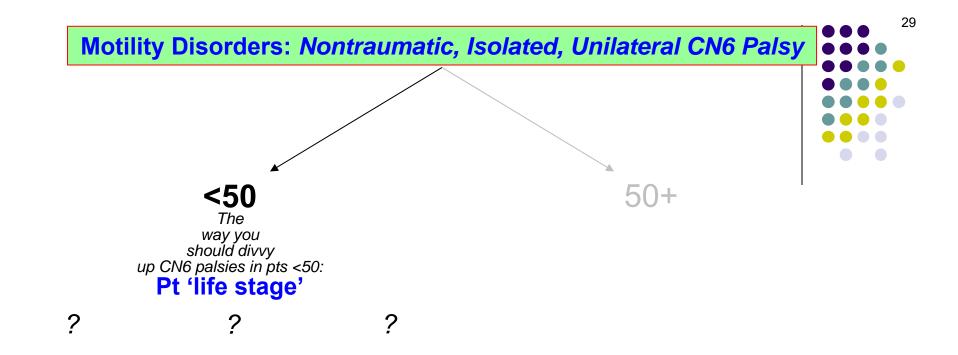
Finally: Two questions must be addressed before you assume a CN6 palsy in a 50+ vasculopath is 'merely' ischemic, and therefore nothing to be concerned about: --Does the pt has a hx of one word ? --Are signs/symptoms suggestive of abb. present?



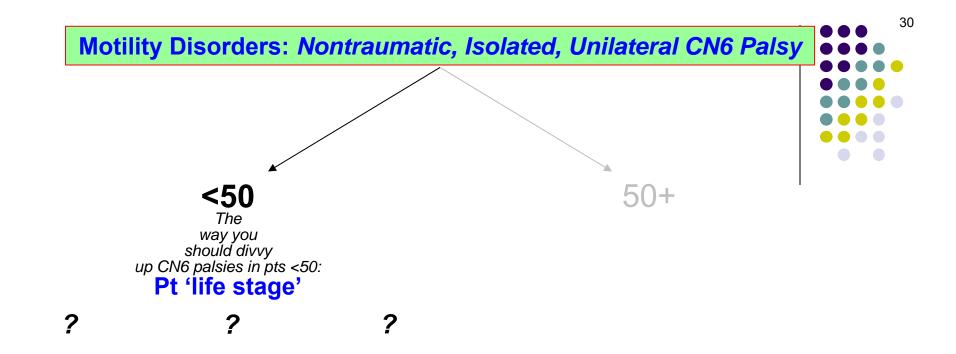
Finally: Two questions must be addressed before you assume a CN6 palsy in a 50+ vasculopath is 'merely' ischemic, and therefore nothing to be concerned about: --Does the pt has a hx of cancer ? --Are signs/symptoms suggestive of GCA present?



When thinking about CN6 palsies in individuals <50, you should consider them as falling into one of three categories. On what basis are these divisions made?

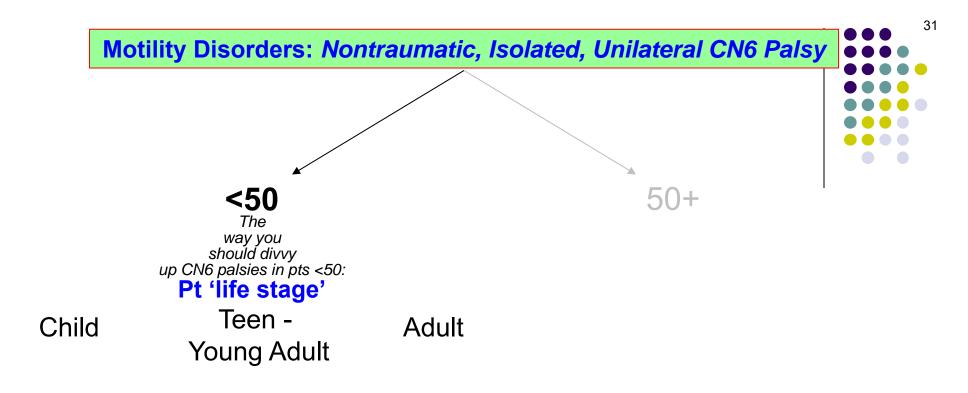


When thinking about CN6 palsies in individuals <50, you should consider them as falling into one of three categories. On what basis are these divisions made? **Pt 'life stage'** 



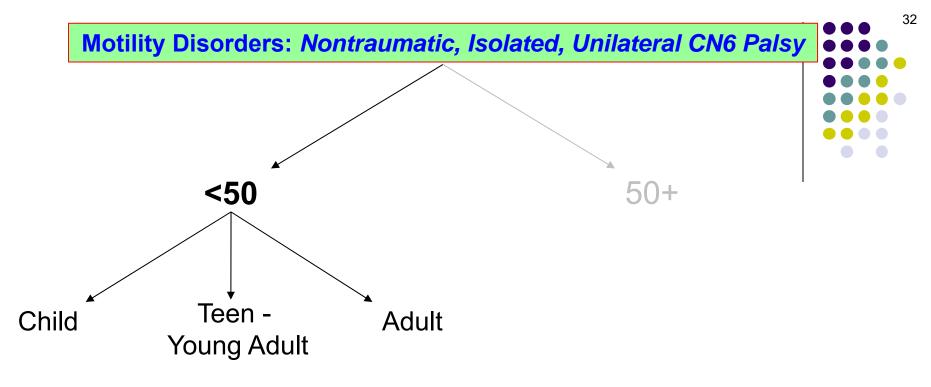
When thinking about CN6 palsies in individuals <50, you should consider them as falling into one of three categories. On what basis are these divisions made? **Pt 'life stage'** 

What are these three life stages?

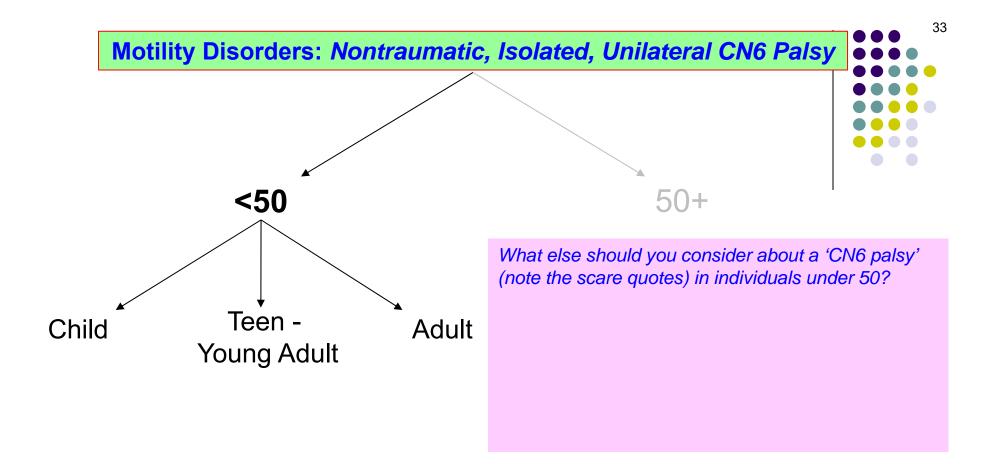


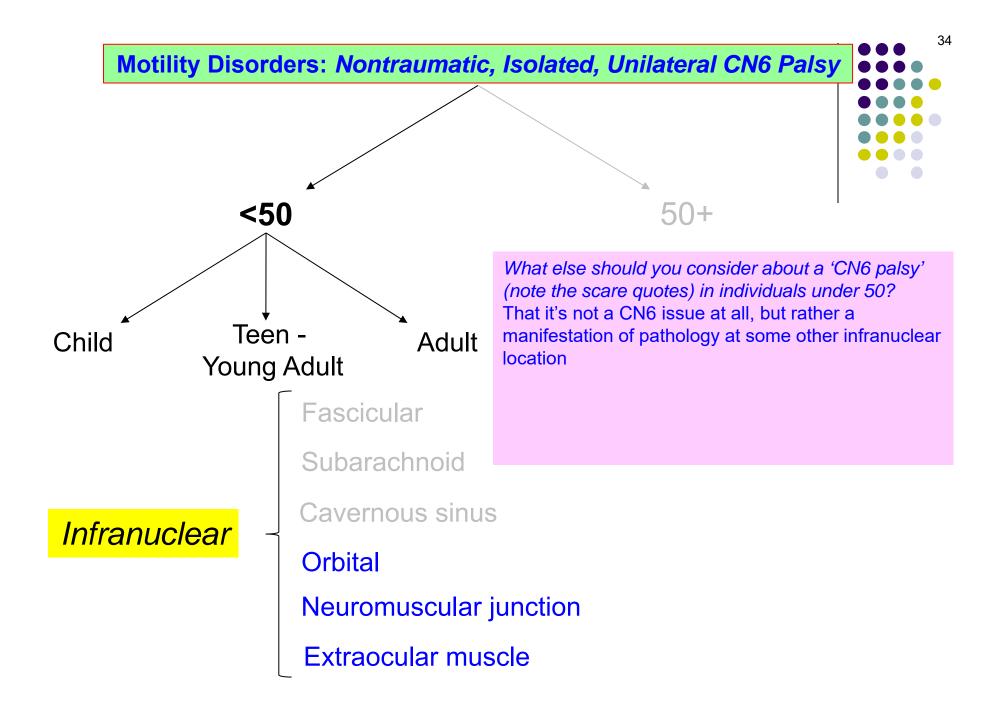
When thinking about CN6 palsies in individuals <50, you should consider them as falling into one of three categories. On what basis are these divisions made? **Pt 'life stage'** 

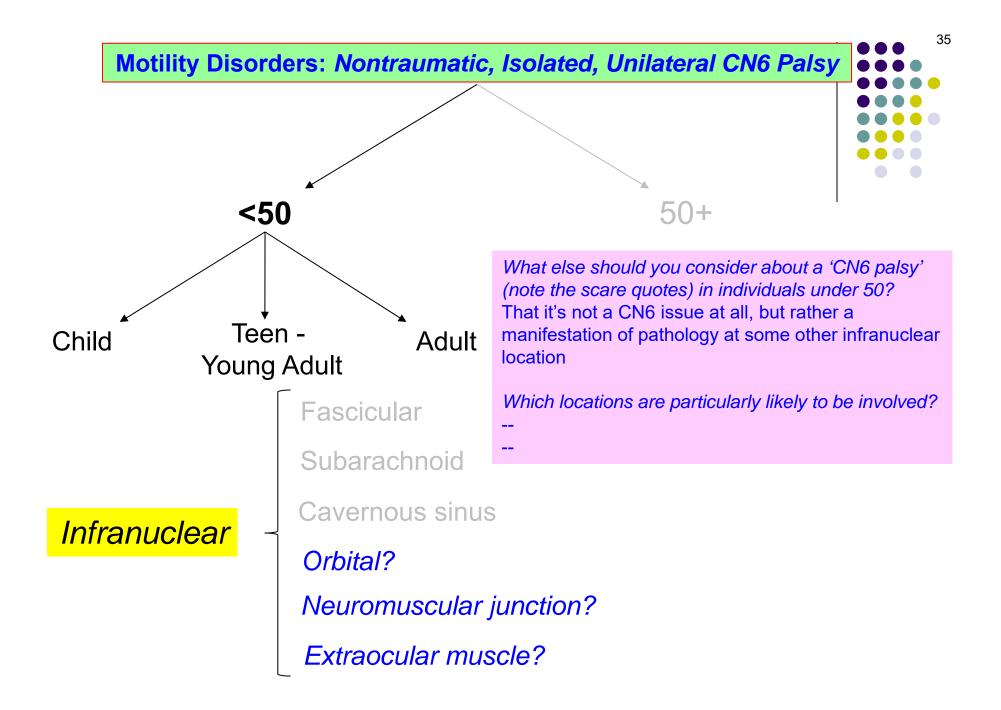
*What are these three life stages?* Childhood, teen/young adulthood, and adult

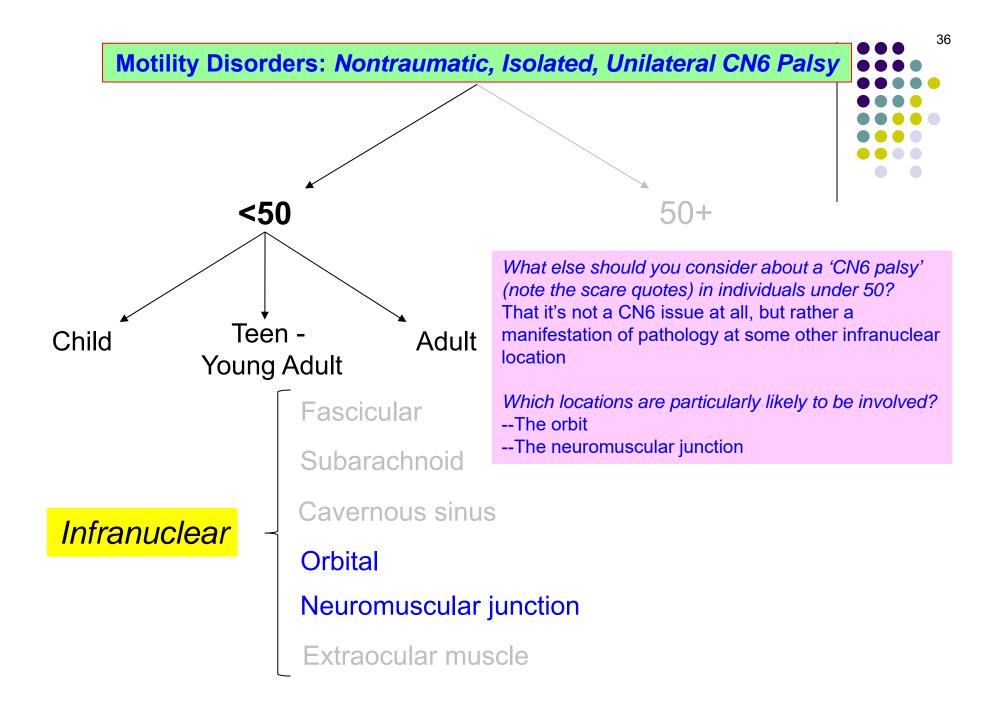


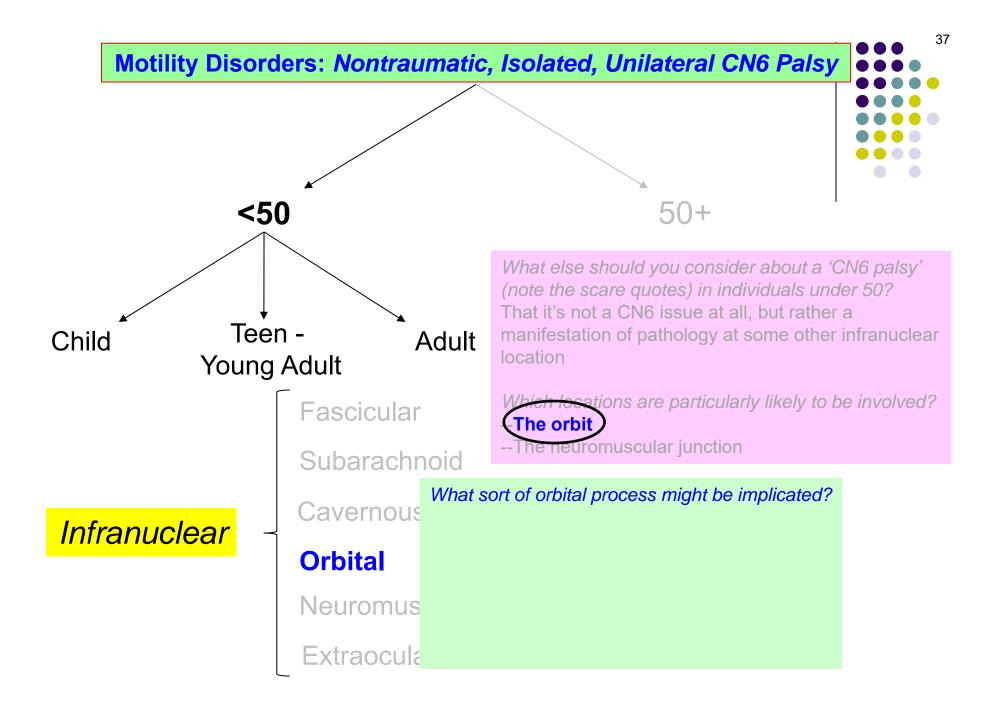
Note: While not completely clear on this score, the BCSC *Neuro* book seems to suggest that all of these pts should be imaged forthwith

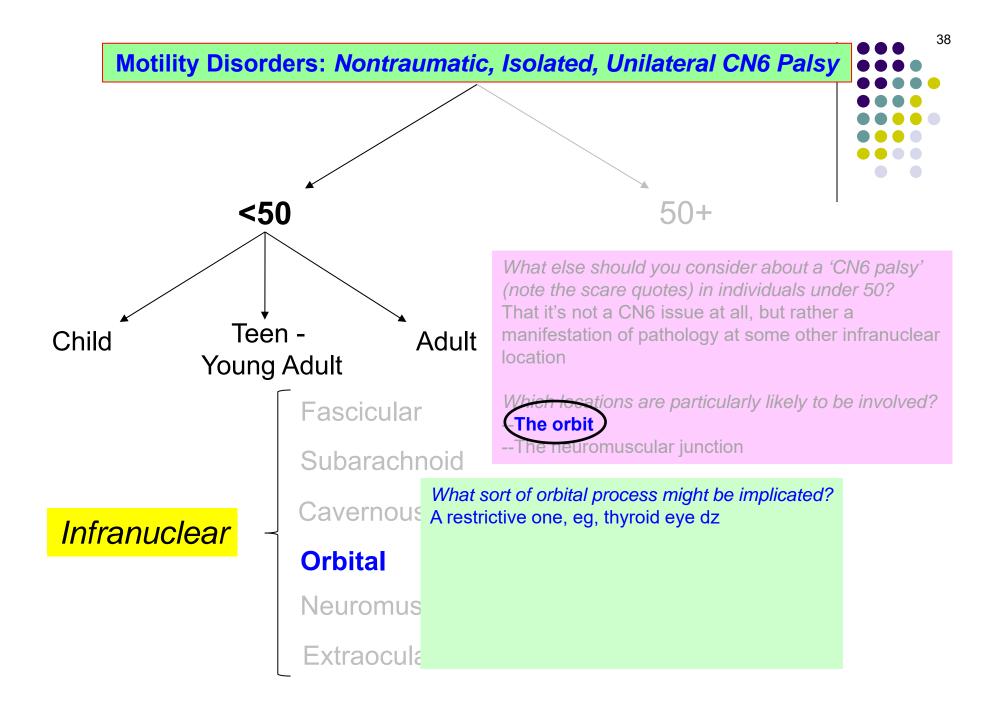


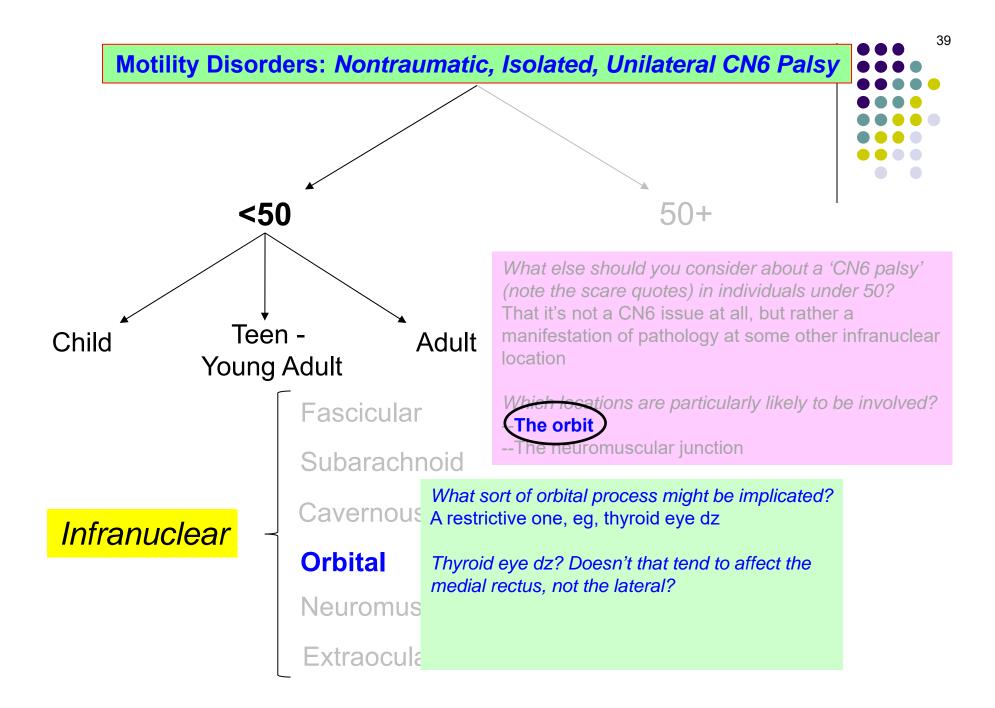


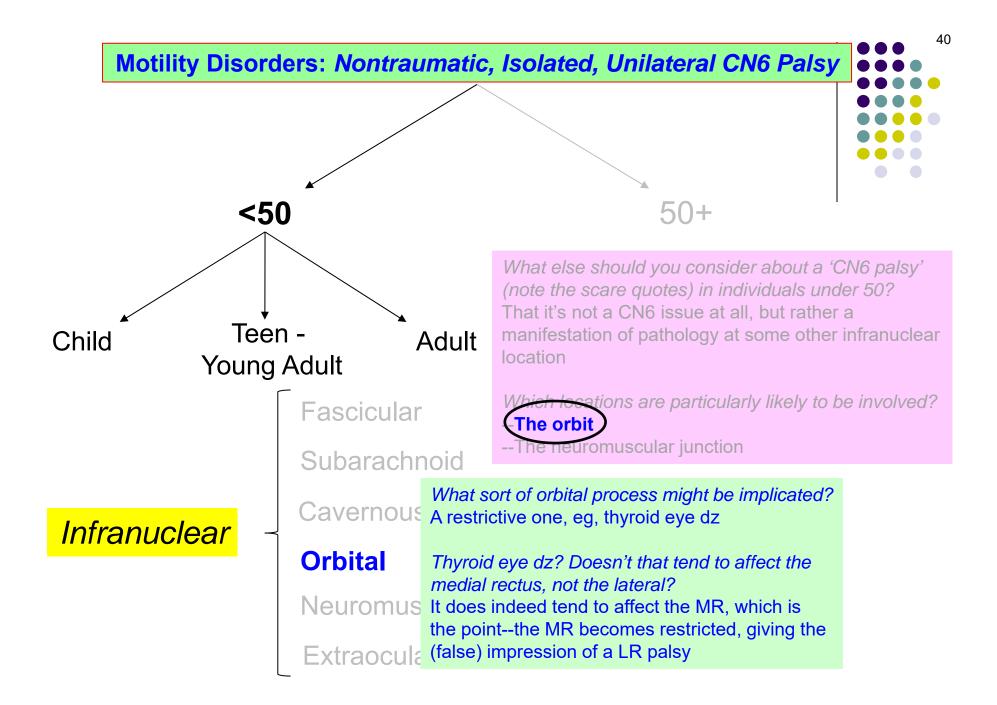


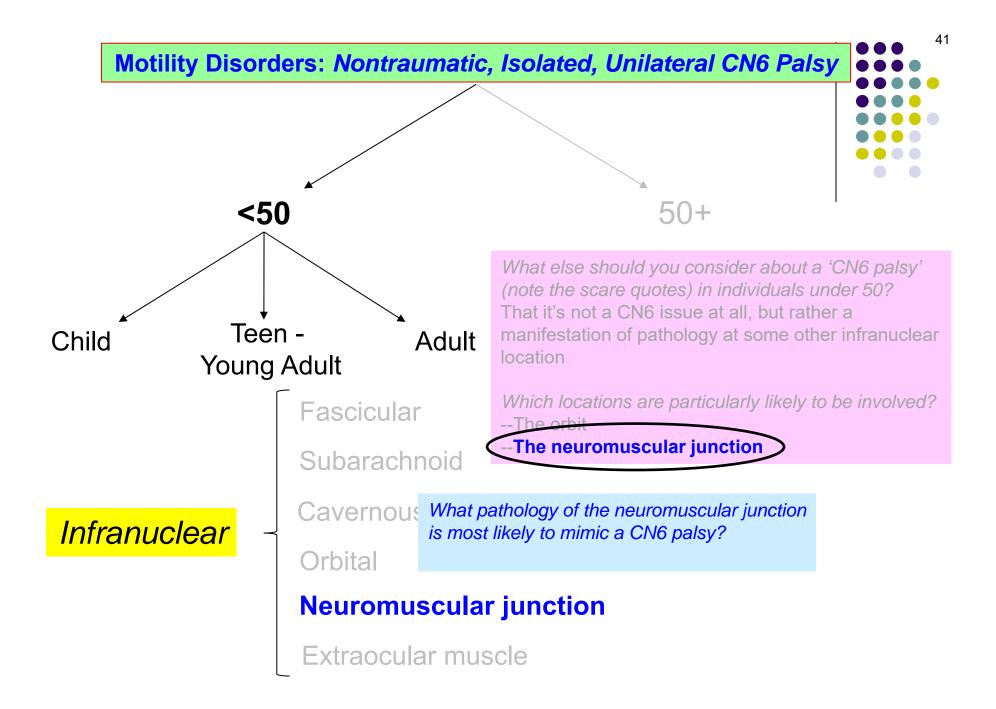


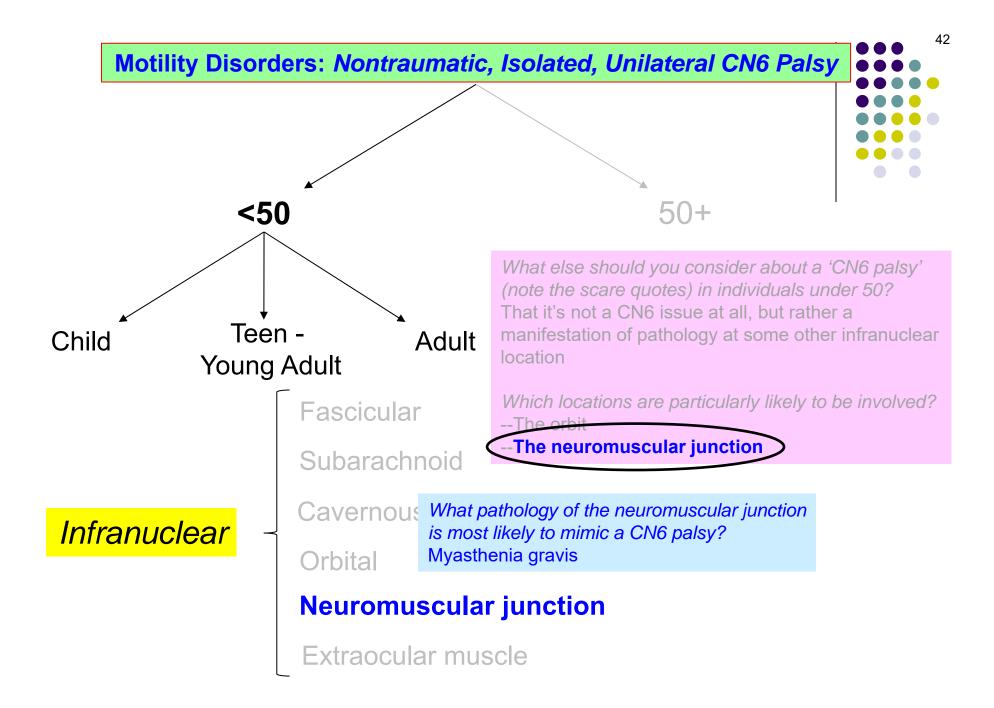


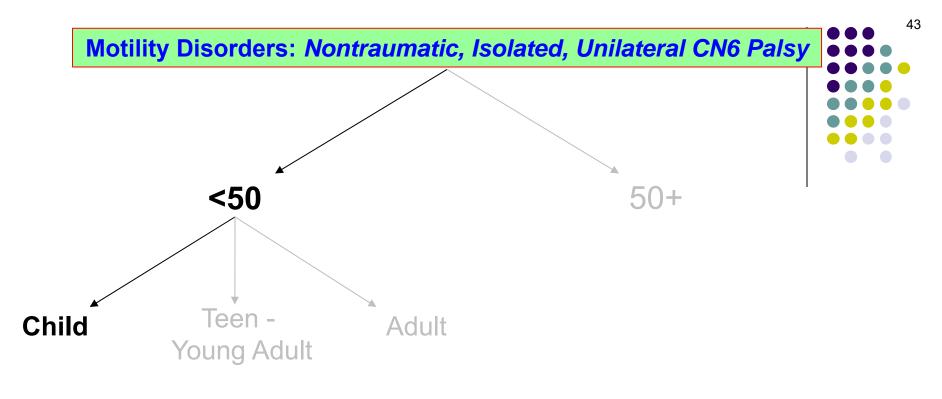




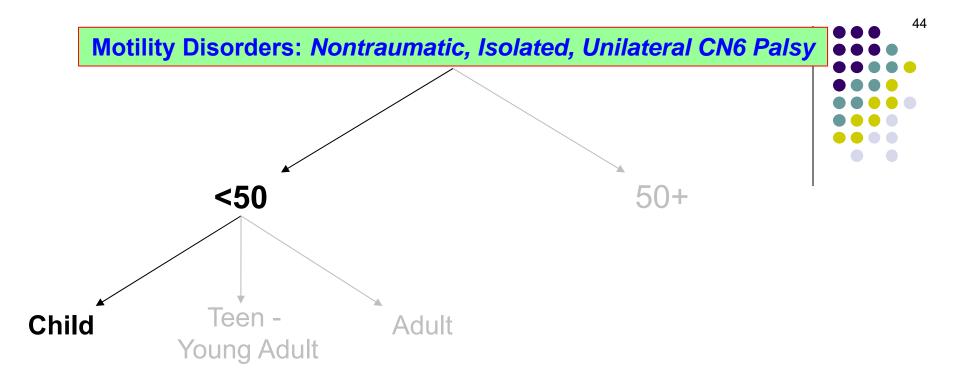




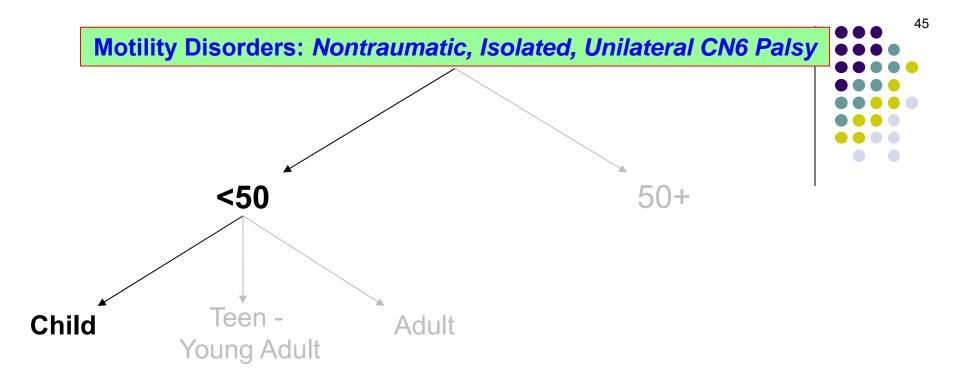




Is congenital CN6 palsy common?



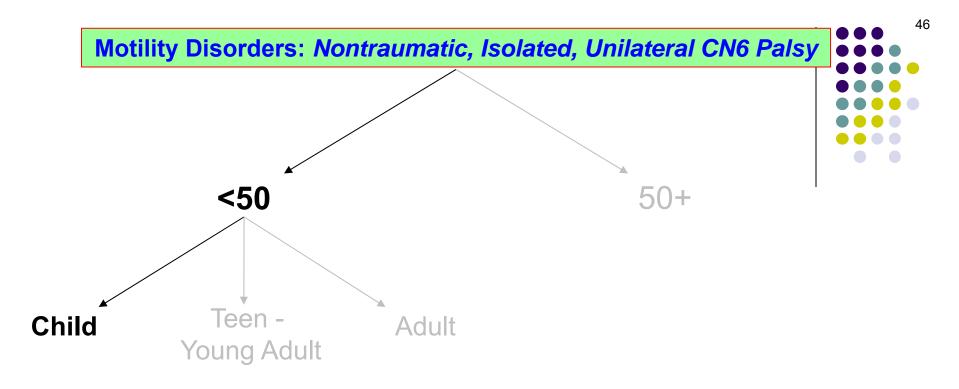
*Is congenital CN6 palsy common?* No, it is very rare



*Is congenital CN6 palsy common?* No, it is very rare

You see an infant purported to have a congenital 6<sup>th</sup>. More than likely, it is actually one of three other conditions. What are they?

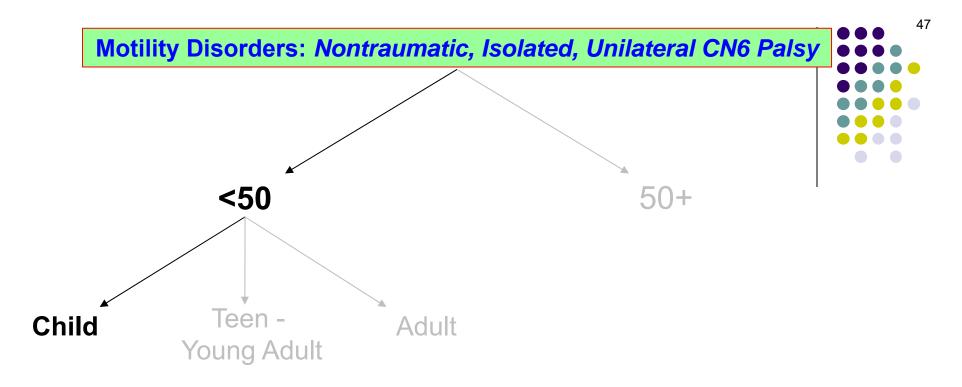
- --
- --
- ---



*Is congenital CN6 palsy common?* No, it is very rare

You see an infant purported to have a congenital 6<sup>th</sup>. More than likely, it is actually one of three other conditions. What are they?

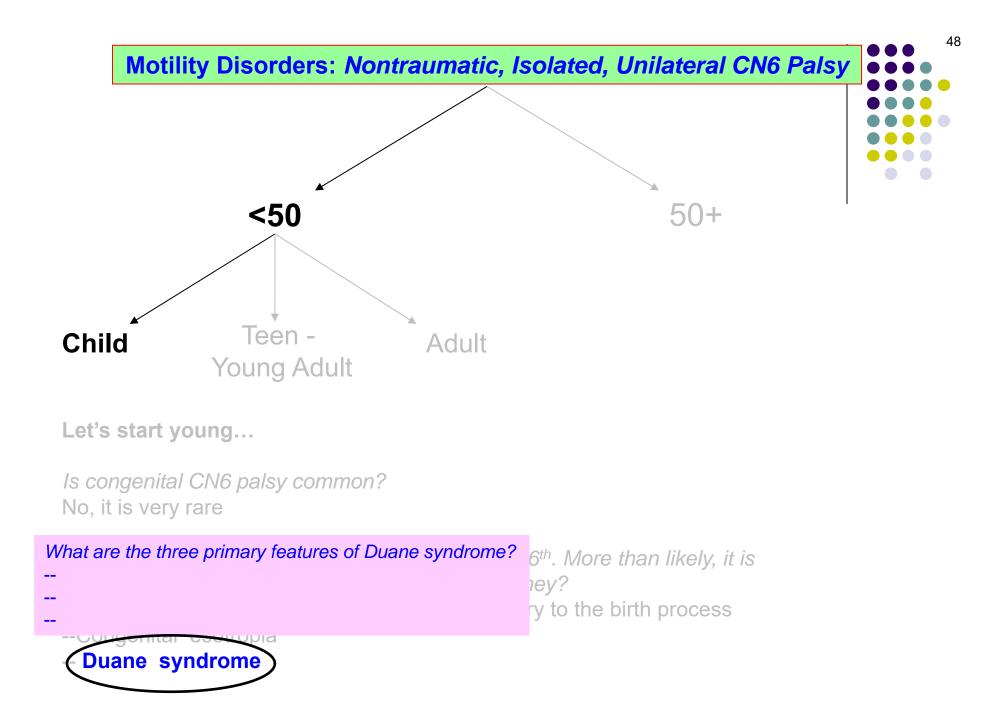


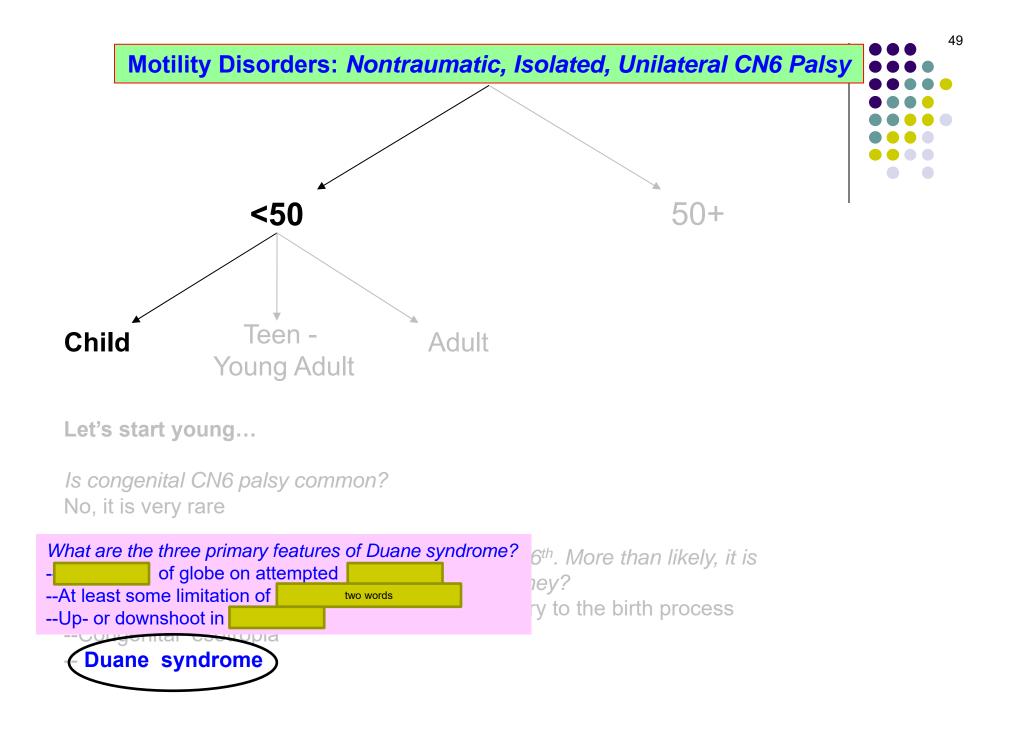


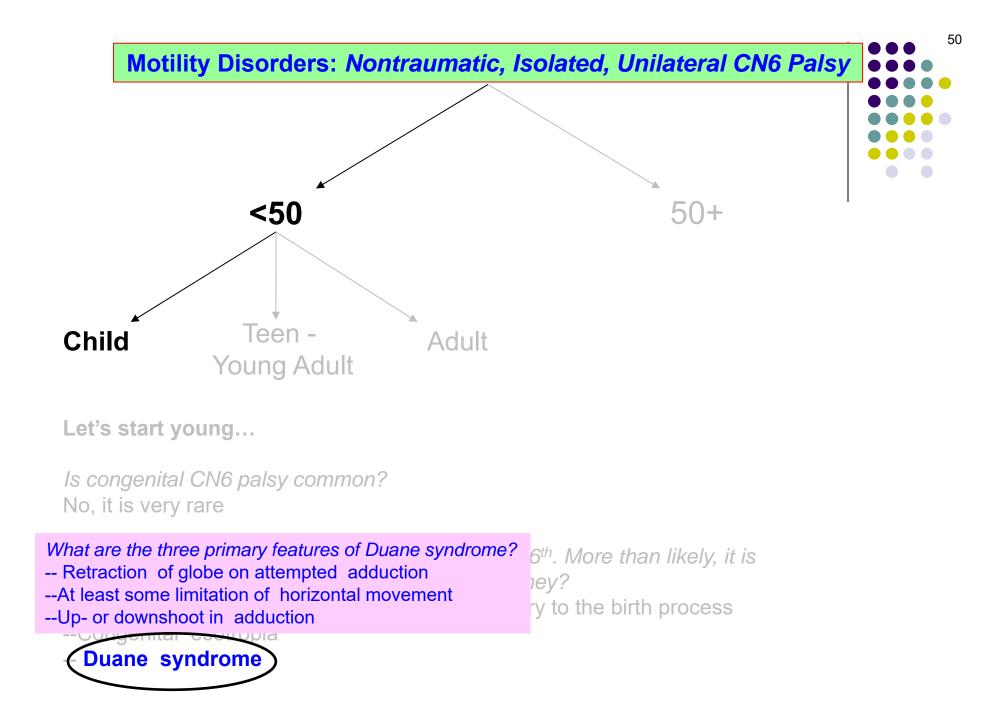
*Is congenital CN6 palsy common?* No, it is very rare

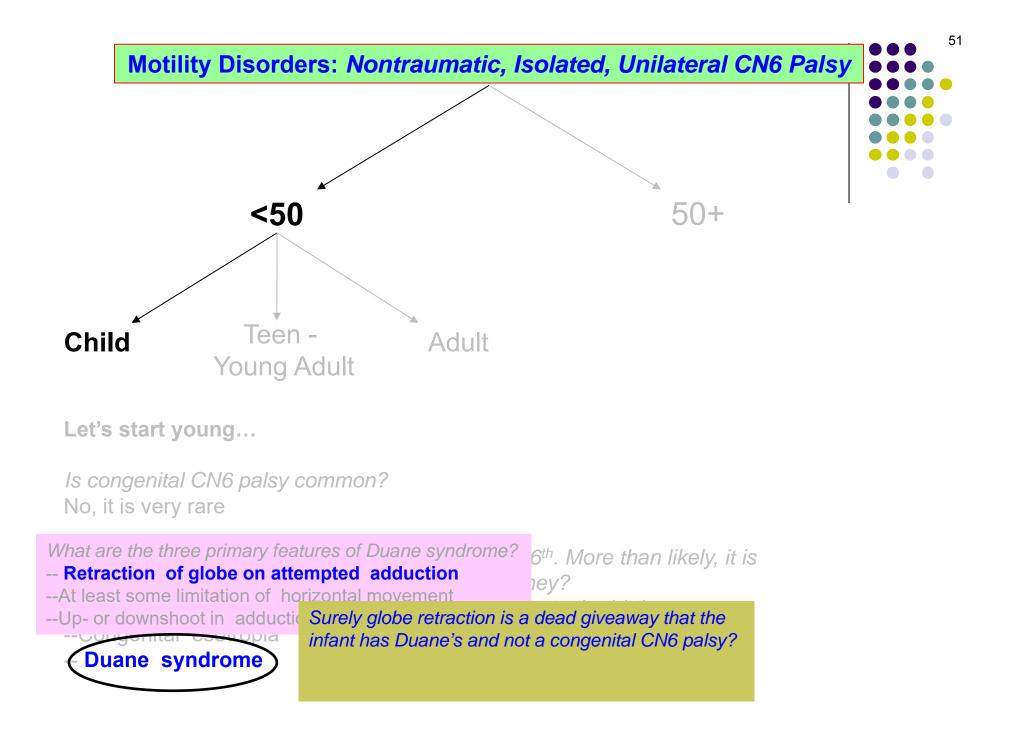
You see an infant purported to have a congenital 6<sup>th</sup>. More than likely, it is actually one of three other conditions. What are they?

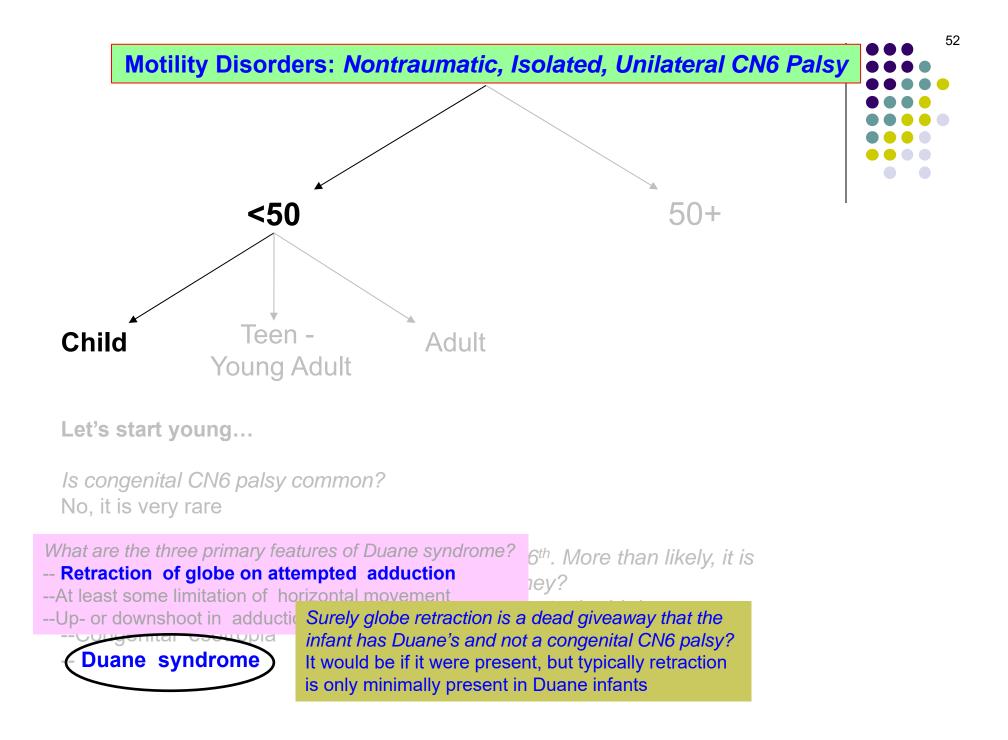
- --Transient CN6 palsy due to increased ICP 2ndry to the birth process
- --Congenital esotropia
- -- Duane syndrome

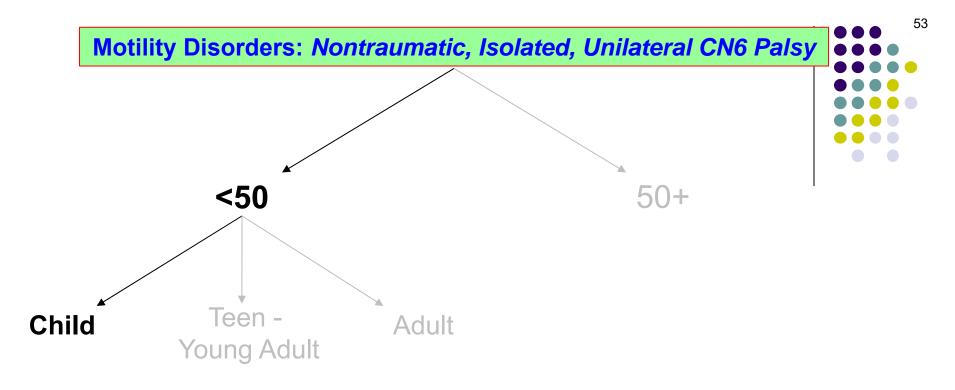




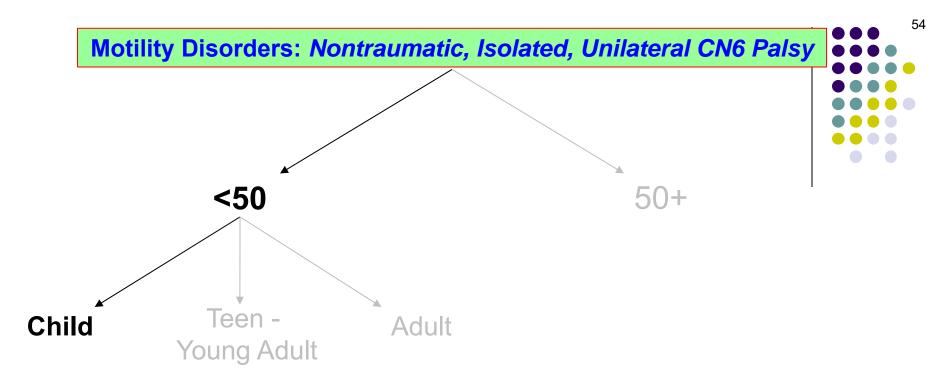




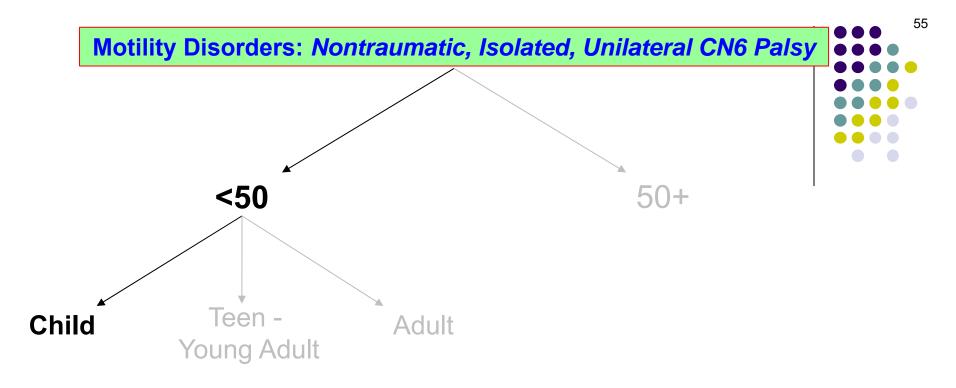




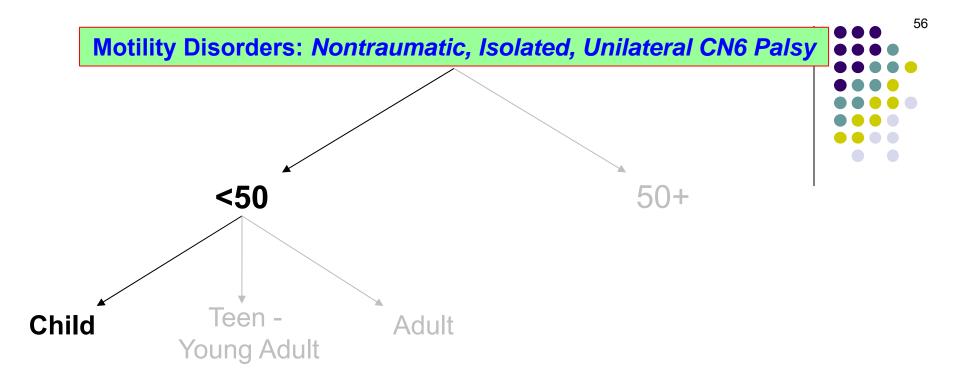
What is the most common cause of isolated nontraumatic CN6 palsy in kids?



What is the most common cause of isolated nontraumatic CN6 palsy in kids? An immunologic response to exposure to antigens



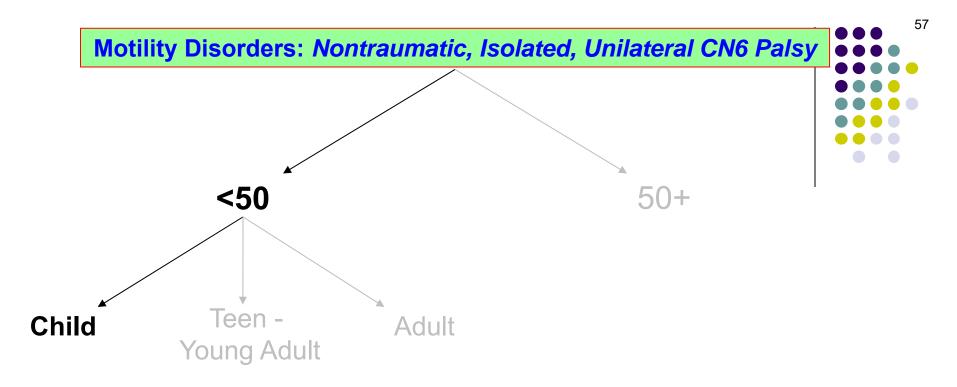
What is the most common cause of isolated nontraumatic CN6 palsy in kids? An immunologic response to exposure to viral antigens



What is the most common cause of isolated nontraumatic CN6 palsy in kids? An immunologic response to exposure to viral antigens

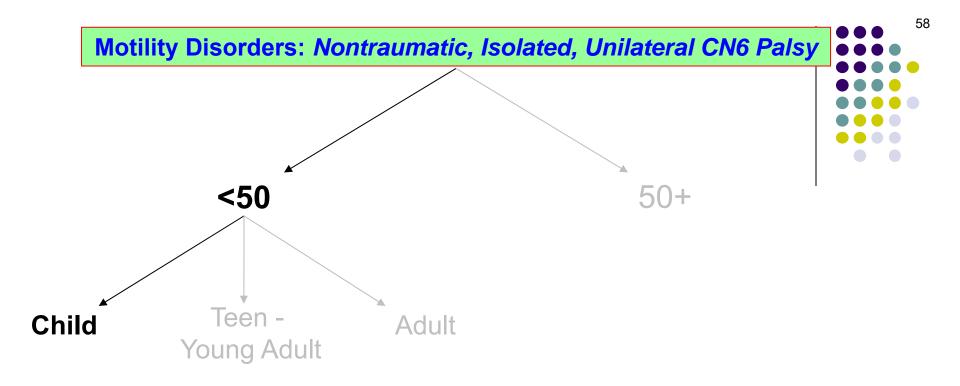
Exposure takes one of two forms. What are they?

---



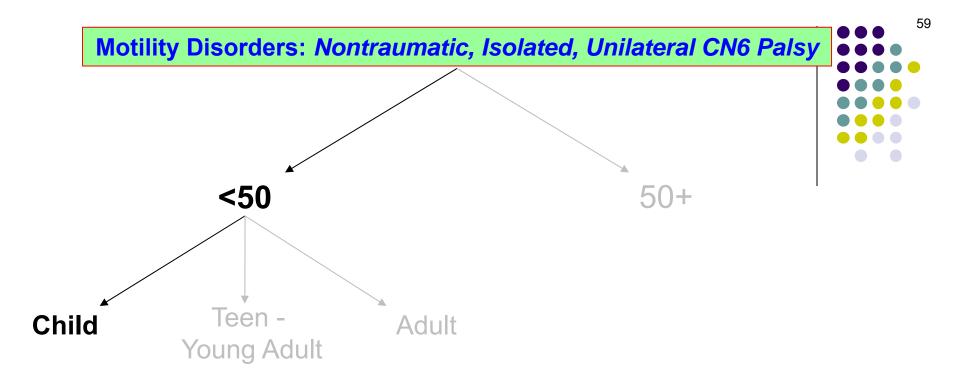
What is the most common cause of isolated nontraumatic CN6 palsy in kids? An immunologic response to exposure to viral antigens

Exposure takes one of two forms. What are they? --Post... --Post...



What is the most common cause of isolated nontraumatic CN6 palsy in kids? An immunologic response to exposure to viral antigens

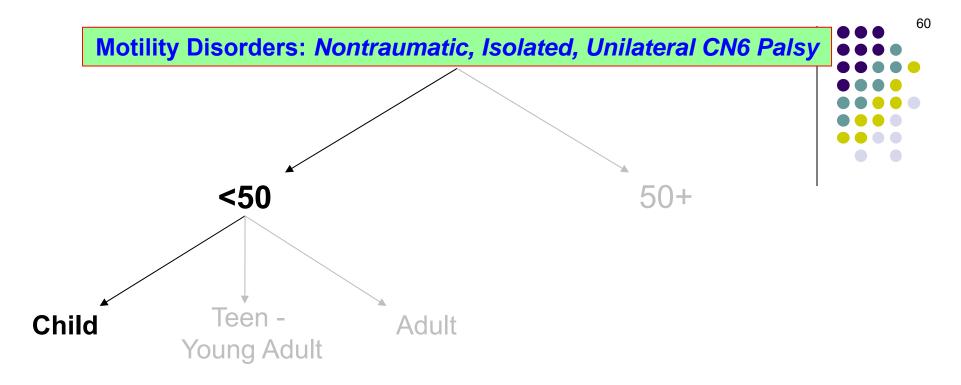
Exposure takes one of two forms. What are they? --Post...infectious --Post...vaccinal



What is the most common cause of isolated nontraumatic CN6 palsy in kids? An immunologic response to exposure to viral antigens

Exposure takes one of two forms. What are they? --Post...infectious --Post...vaccinal

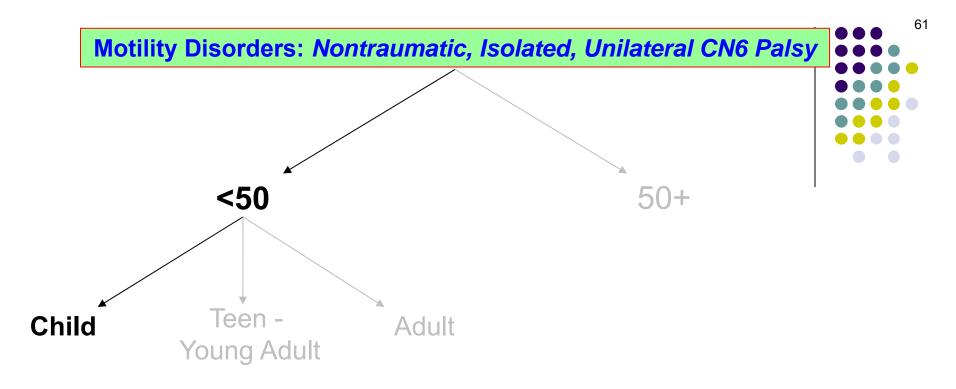
What is the clinical course of post-viral CN6 palsy?



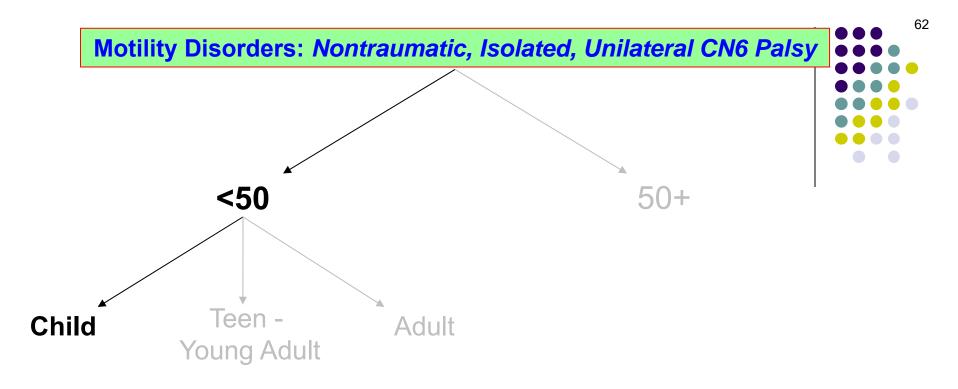
What is the most common cause of isolated nontraumatic CN6 palsy in kids? An immunologic response to exposure to viral antigens

Exposure takes one of two forms. What are they? --Post...infectious --Post...vaccinal

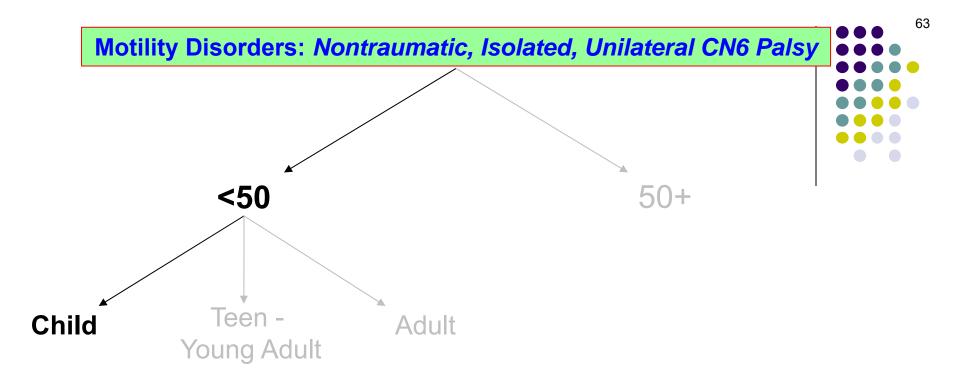
What is the clinical course of post-viral CN6 palsy? It resolves in weeks to months



After post-viral, what is the next most common cause of isolated nontraumatic CN6 palsy in kids?

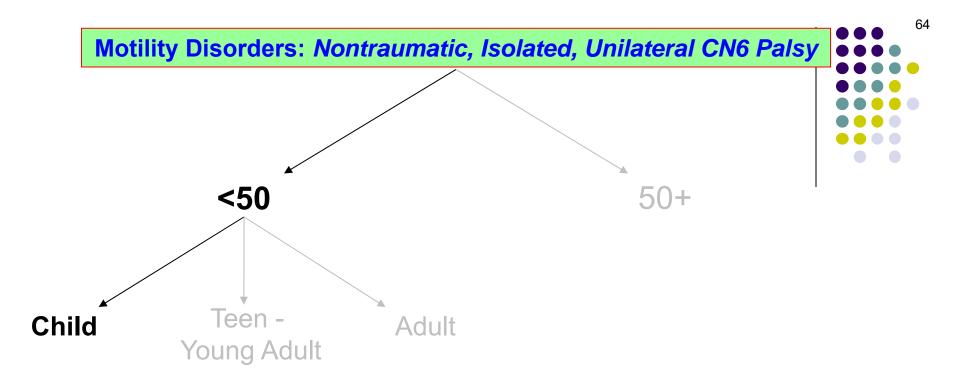


After post-viral, what is the next most common cause of isolated nontraumatic CN6 palsy in kids? Neoplasm



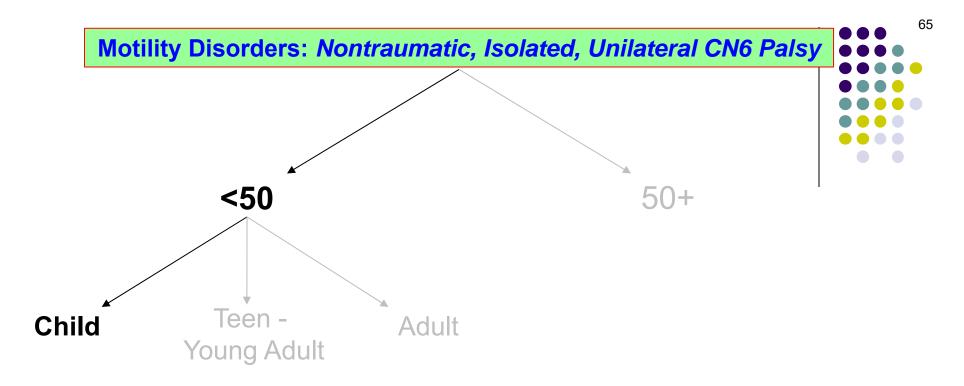
After post-viral, what is the next most common cause of isolated nontraumatic CN6 palsy in kids? Neoplasm

What sort of neoplasm is the classic cause?



After post-viral, what is the next most common cause of isolated nontraumatic CN6 palsy in kids? Neoplasm

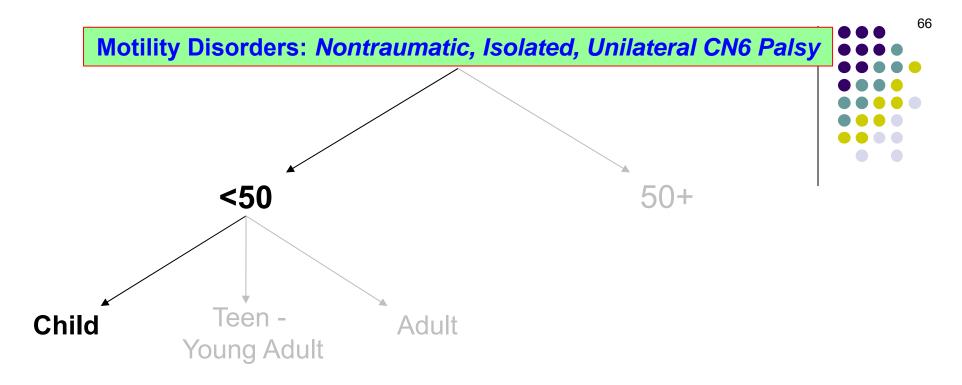
What sort of neoplasm is the classic cause? A brainstem glioma



After post-viral, what is the next most common cause of isolated nontraumatic CN6 palsy in kids? Neoplasm



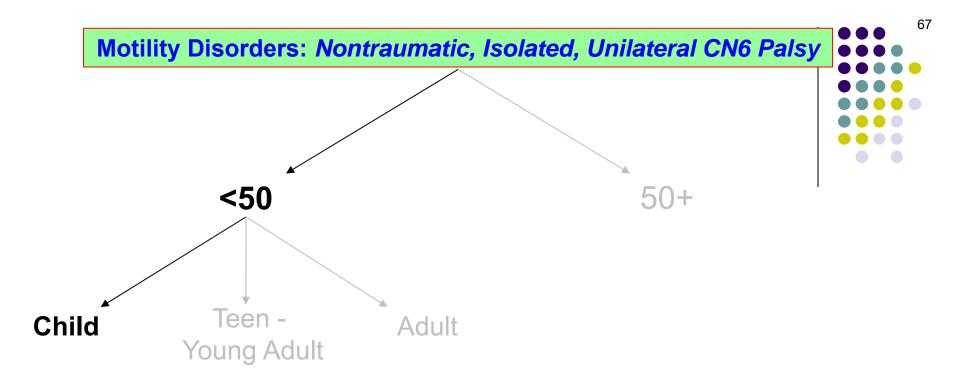
Note: Some experts contend that, absent a history of recent vaccination or viral illness, **a nontraumatic CN6 palsy in a child is a tumor until proven otherwise** 



After post-viral, what is the next most common cause of isolated nontraumatic CN6 palsy in kids? Neoplasm

What sort of neoplasm is the classic cause? A brainstem glioma

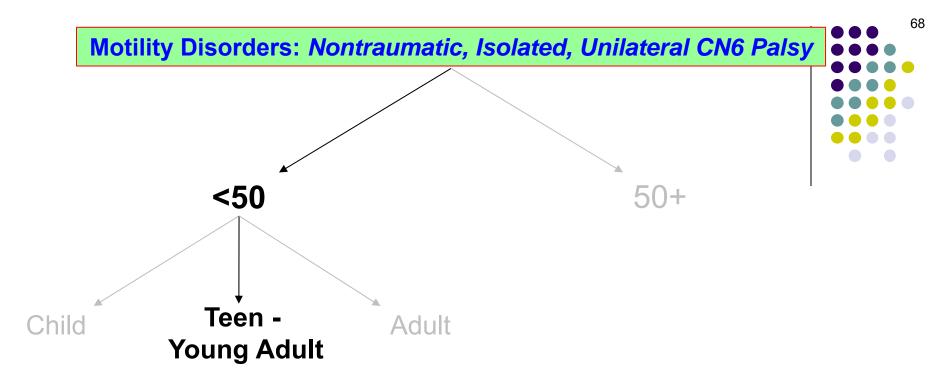
Another sort of neoplasm must be considered. What is it?



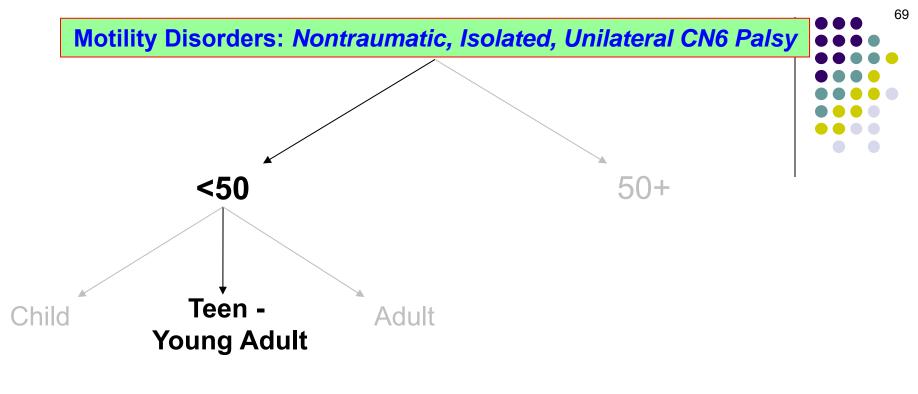
After post-viral, what is the next most common cause of isolated nontraumatic CN6 palsy in kids? Neoplasm

What sort of neoplasm is the classic cause? A brainstem glioma

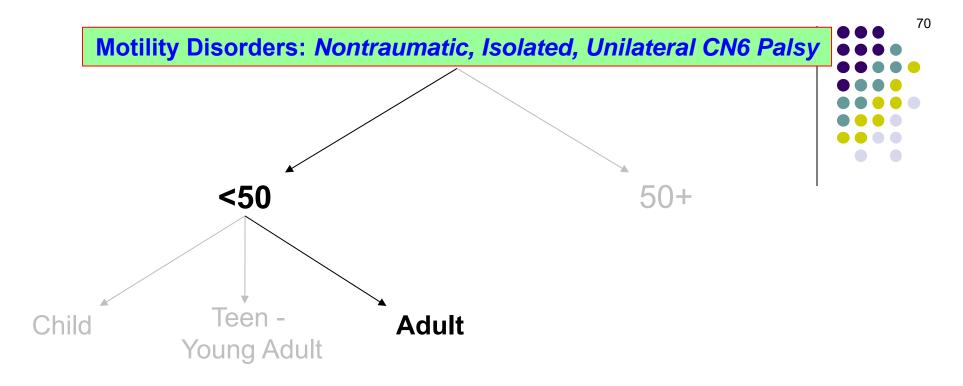
Another sort of neoplasm must be considered. What is it? Leukemia



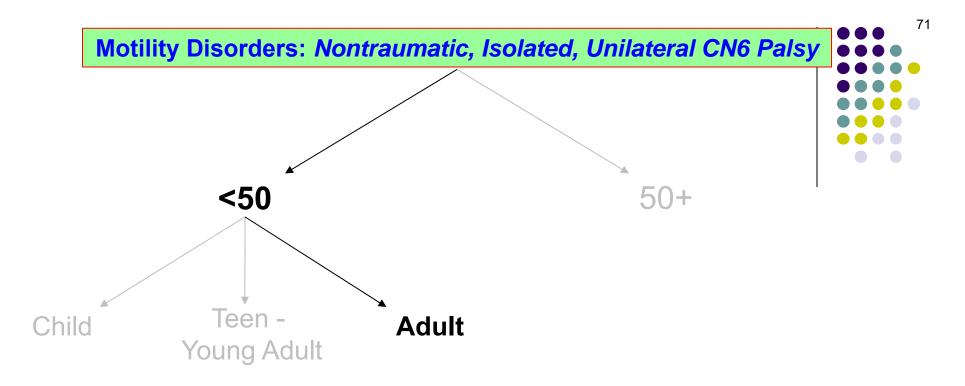
What condition should come to mind when a teen/young adult presents with an isolated unilateral CN6 palsy?



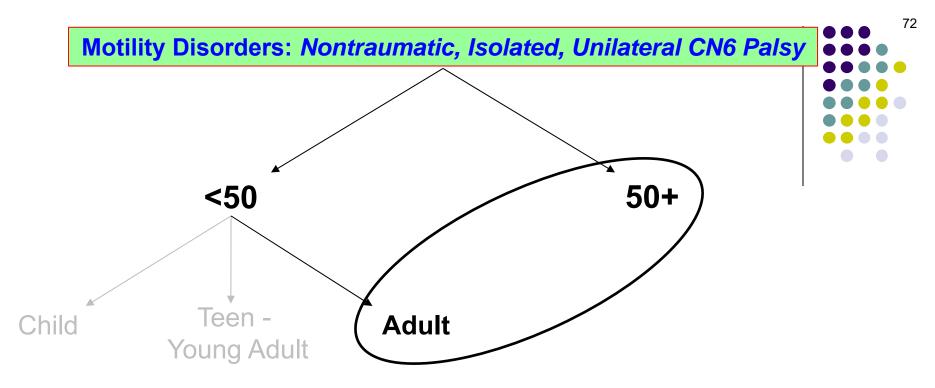
What condition should come to mind when a teen/young adult presents with an isolated unilateral CN6 palsy? Multiple sclerosis (MS)

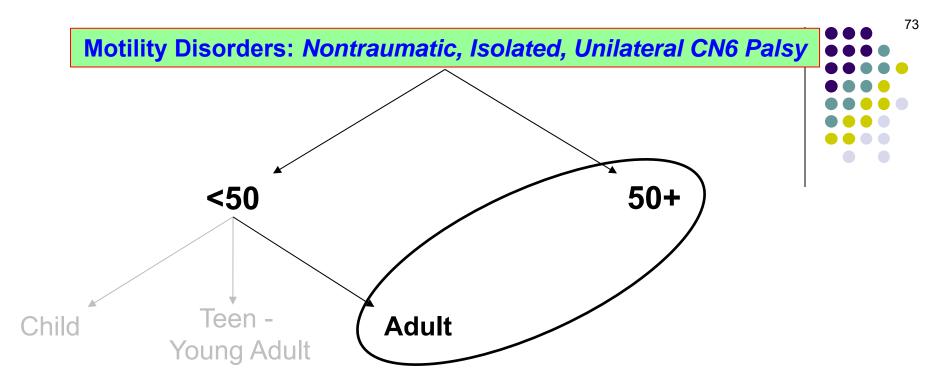


In adults too old for MS but too young for ischemic dz, what condition is most likely to present in a manner consistent with an isolated unilateral CN6 palsy?

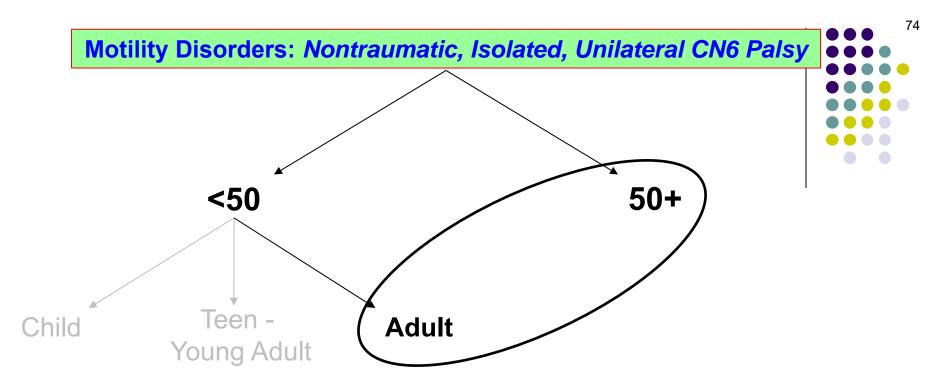


In adults too old for MS but too young for ischemic dz, what condition is most likely to present in a manner consistent with an isolated unilateral CN6 palsy? Myasthenia gravis (MG)



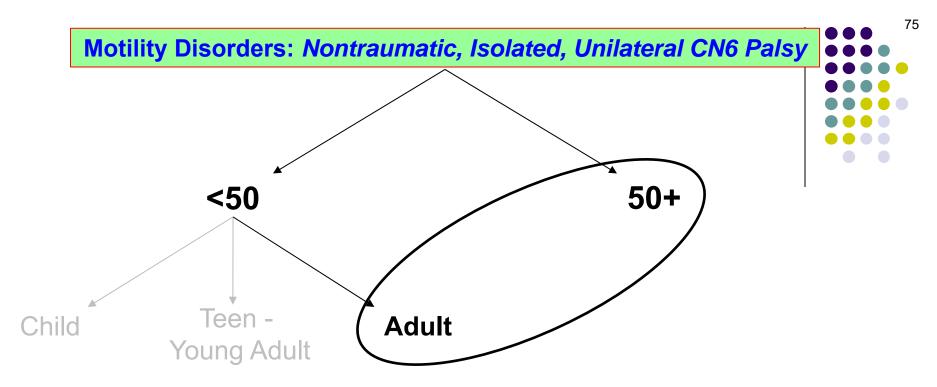


Carotid-cavernous sinus fistula (CCF)



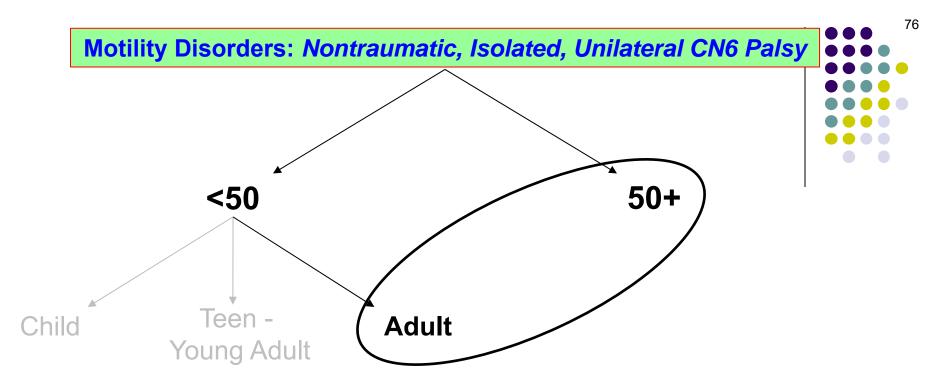
An uncommon cause of isolated CN6 palsy that occurs in adults has yet to be mentioned. What is it? Carotid-cavernous sinus fistula (CCF)

Huh? Everyone knows CCFs cause multiple simultaneous cranial nerve problems, possibly accompanied by a Horner syndrome. How could it cause an isolated CN6?



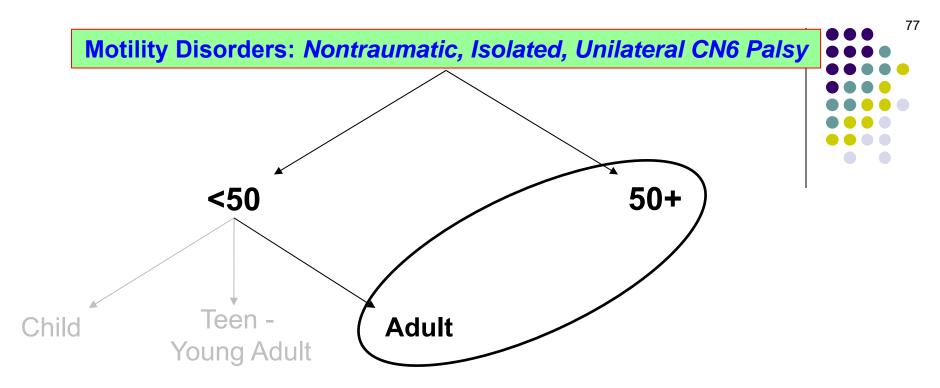
Carotid-cavernous sinus fistula (CCF)

Huh? Everyone knows CCFs cause multiple simultaneous cranial nerve problems, possibly accompanied by a Horner syndrome. How could it cause an isolated CN6? Recall that the cavernous sinuses drain into the internal jugular vein primarily via the sinus.



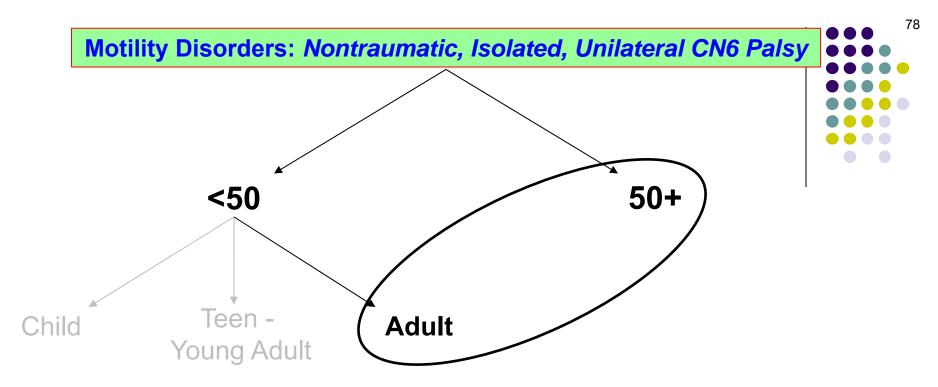
Carotid-cavernous sinus fistula (CCF)

Huh? Everyone knows CCFs cause multiple simultaneous cranial nerve problems, possibly accompanied by a Horner syndrome. How could it cause an isolated CN6? Recall that the cavernous sinuses drain into the internal jugular vein primarily via the inferior petrosal sinus.



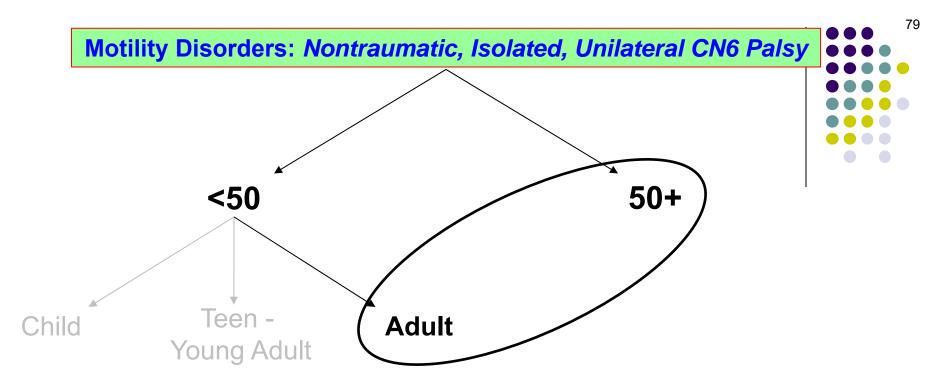
Carotid-cavernous sinus fistula (CCF)

Huh? Everyone knows CCFs cause multiple simultaneous cranial nerve problems, possibly accompanied by a Horner syndrome. How could it cause an isolated CN6? Recall that the cavernous sinuses drain into the internal jugular vein primarily via the inferior petrosal sinus. The inferior petrosal sinus gets from the CS to the internal jugular by travelling within a structure called two words.



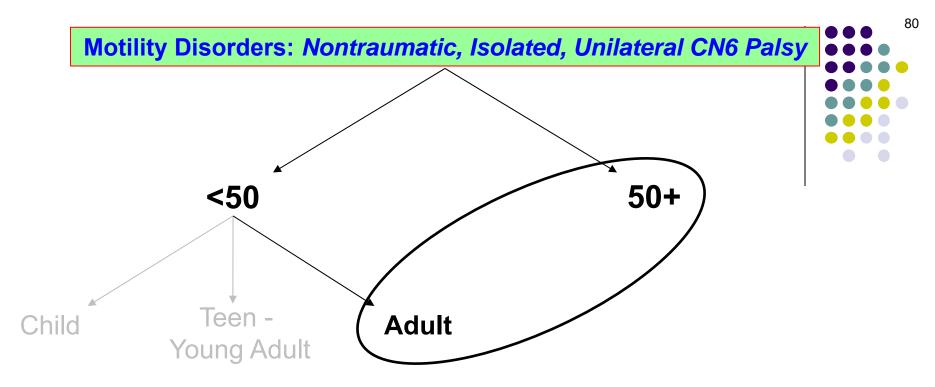
Carotid-cavernous sinus fistula (CCF)

Huh? Everyone knows CCFs cause multiple simultaneous cranial nerve problems, possibly accompanied by a Horner syndrome. How could it cause an isolated CN6? Recall that the cavernous sinuses drain into the internal jugular vein primarily via the inferior petrosal sinus. The inferior petrosal sinus gets from the CS to the internal jugular by travelling within a structure called Dorello's canal.



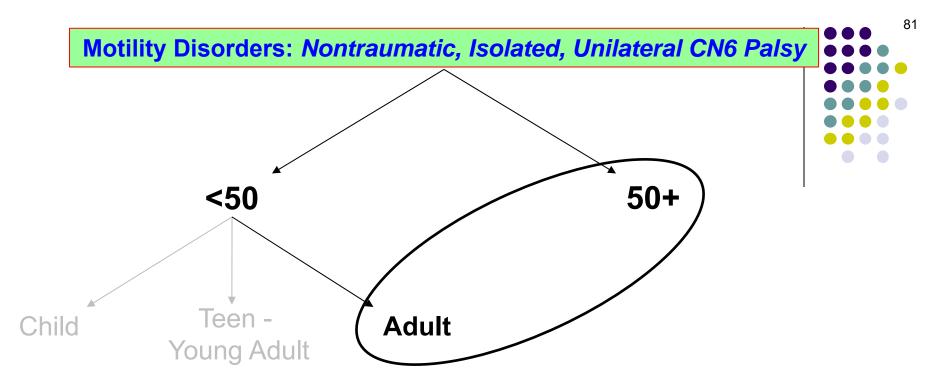
Carotid-cavernous sinus fistula (CCF)

Huh? Everyone knows CCFs cause multiple simultaneous cranial nerve problems, possibly accompanied by a Horner syndrome. How could it cause an isolated CN6? Recall that the cavernous sinuses drain into the internal jugular vein primarily via the inferior petrosal sinus. The inferior petrosal sinus gets from the CS to the internal jugular by travelling within a structure called Dorello's canal. Recall also that CN6 gets to the CS by traversing...Dorello's canal.



Carotid-cavernous sinus fistula (CCF)

Huh? Everyone knows CCFs cause multiple simultaneous cranial nerve problems, possibly accompanied by a Horner syndrome. How could it cause an isolated CN6? Recall that the cavernous sinuses drain into the internal jugular vein primarily via the inferior petrosal sinus. The inferior petrosal sinus gets from the CS to the internal jugular by travelling within a structure called Dorello's canal . Recall also that CN6 gets to the CS by traversing...Dorello's canal. Thus, increased pressure within the CS can lead to increased pressure within the inferior petrosal sinus, which in turn can bag CN6 as it passes through Dorello's canal.

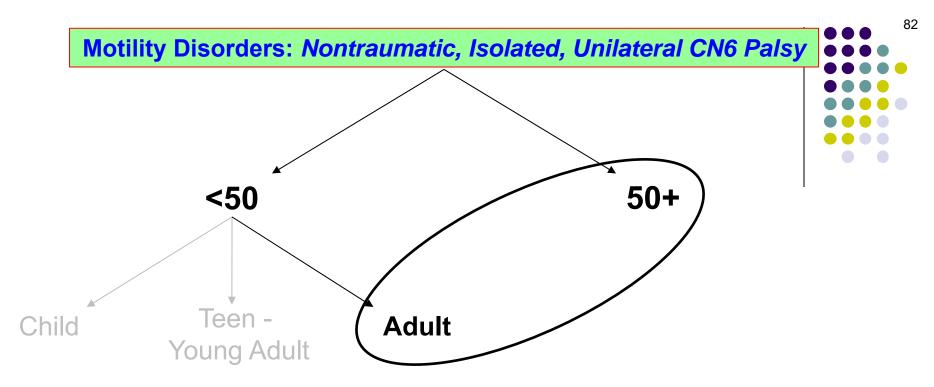


### Carotid-cavernous sinus fistula (CCF)

What symptom might the pt report that should cause you jultaneous cranial nerve problems, to push CCF to the top of the DDx for a CN6 palsy?

ow could it cause an isolated CN6? internal jugular vein primarily via the

inferior petrosal sinus. The inferior petrosal sinus gets from the CS to the internal jugular by travelling within a structure called Dorello's canal. Recall also that CN6 gets to the CS by traversing...Dorello's canal. Thus, increased pressure within the CS can lead to increased pressure within the inferior petrosal sinus, which in turn can bag CN6 as it passes through Dorello's canal.



### Carotid-cavernous sinus fistula (CCF)

What symptom might the pt report that should cause you jultaneous cranial nerve problems, to push CCF to the top of the DDx for a CN6 palsy? **Pulsatile tinnitus** 

ow could it cause an isolated CN6? internal jugular vein primarily via the

inferior petrosal sinus. The inferior petrosal sinus gets from the CS to the internal jugular by travelling within a structure called Dorello's canal. Recall also that CN6 gets to the CS by traversing...Dorello's canal. Thus, increased pressure within the CS can lead to increased pressure within the inferior petrosal sinus, which in turn can bag CN6 as it passes through Dorello's canal.