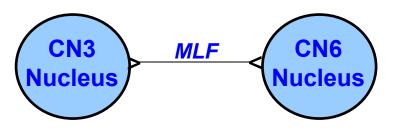


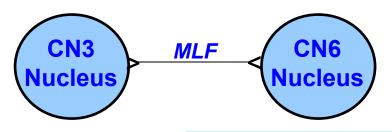
What does MLF stand for in this context?





What does MLF stand for in this context? Medial longitudinal fasciculus

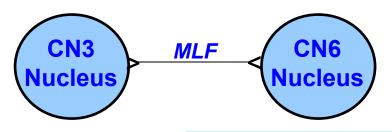




What does MLF stand for in this context? Medial longitudinal fasciculus

Again in this context, what does the word fasciculus mean?

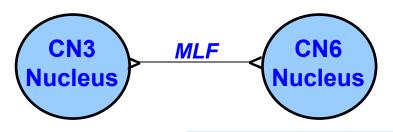




What does MLF stand for in this context? Medial longitudinal fasciculus

Again in this context, what does the word fasciculus *mean?* It means 'a small fascicle'



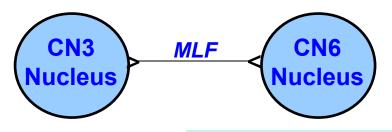


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OK then, in context, what does fascicle refer to?

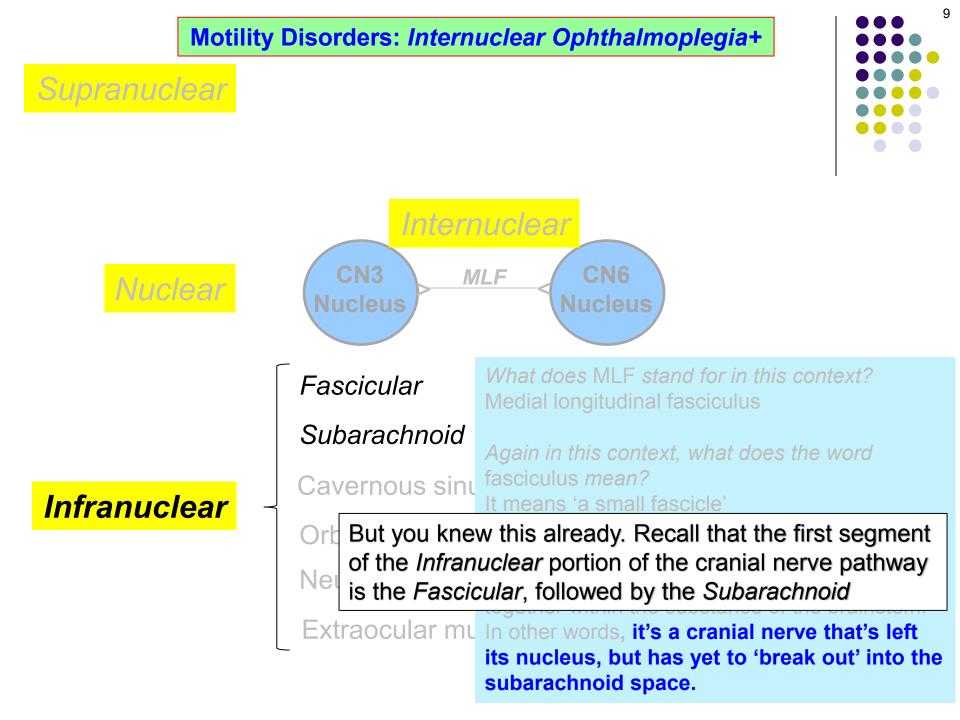




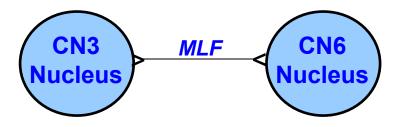
What does MLF stand for in this context? Medial longitudinal fasciculus

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OK then, in context, what does fascicle refer to? It refers to a bundle of nerve fibers running together within the substance of the brainstem. In other words, it's a cranial nerve that's left its nucleus, but has yet to 'break out' into the subarachnoid space.

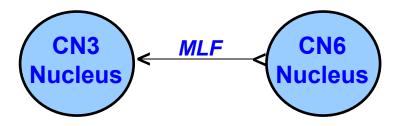


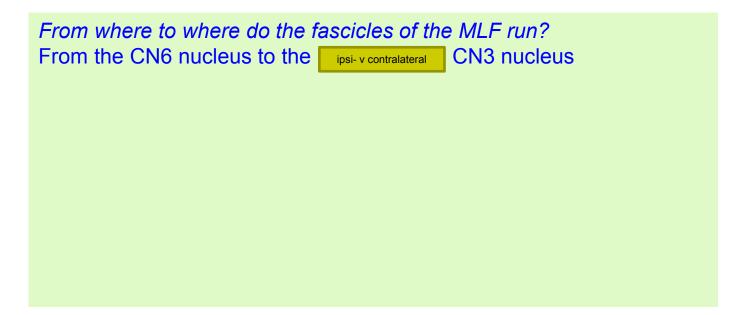


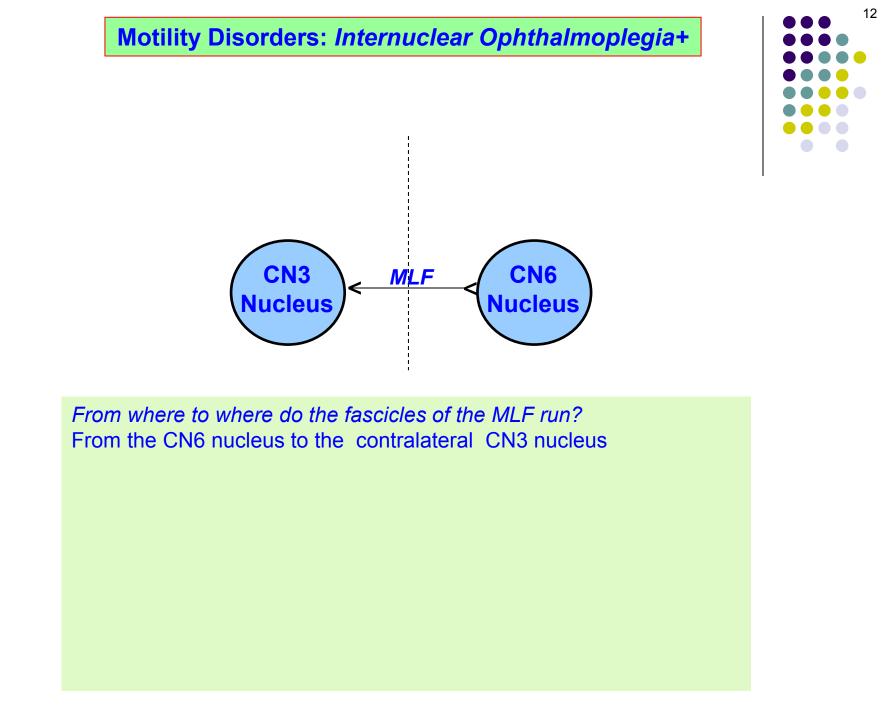


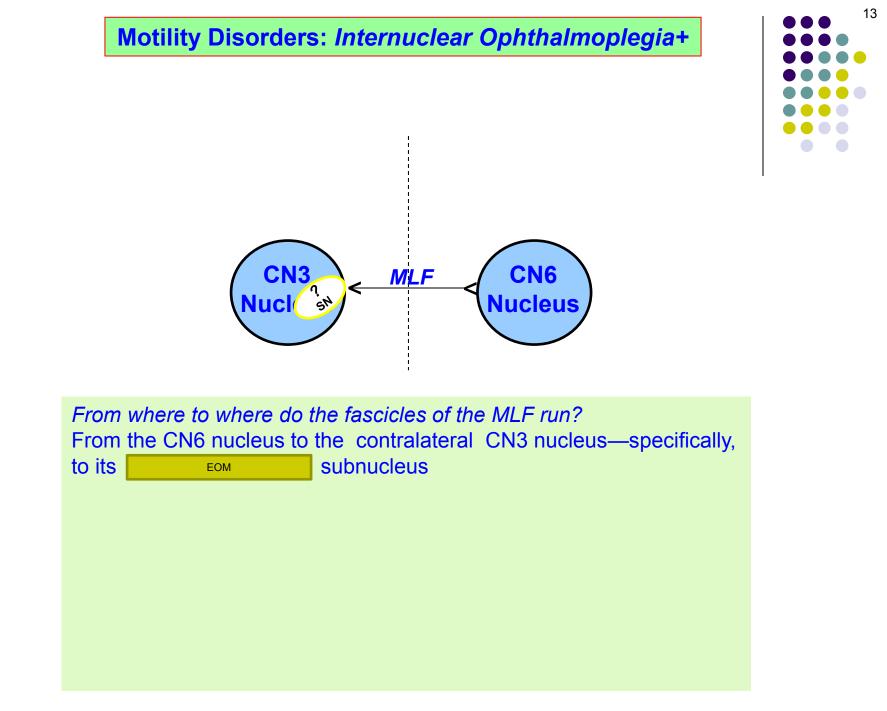
From where to where do the fascicles of the MLF run?

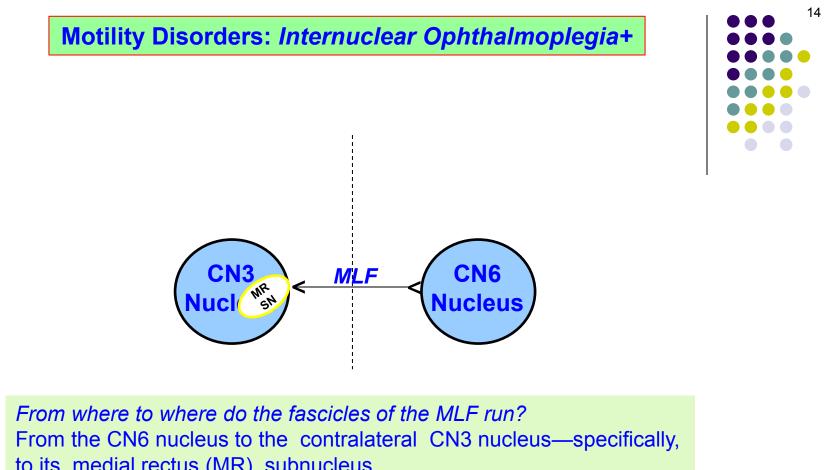




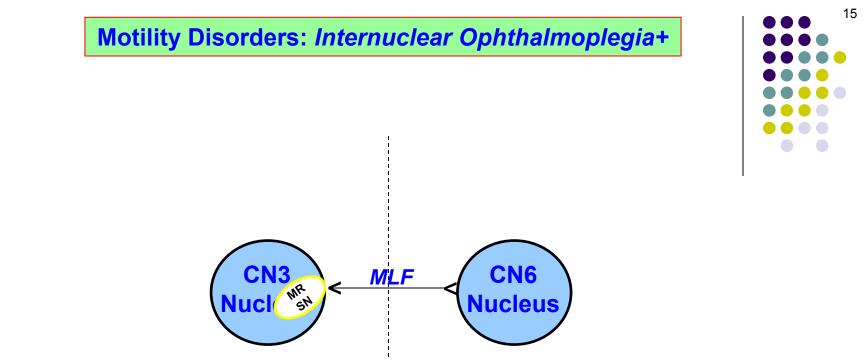




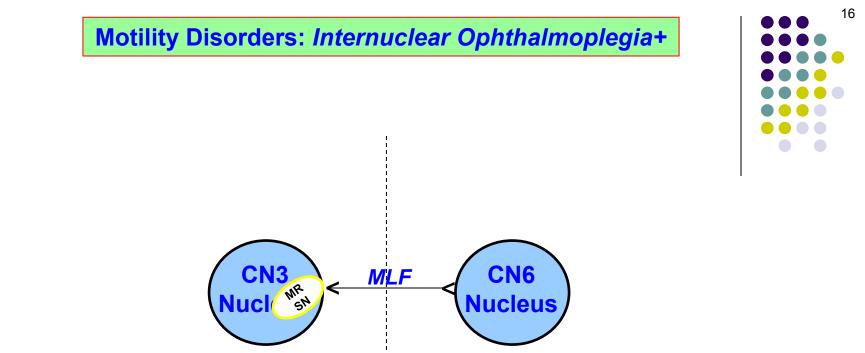




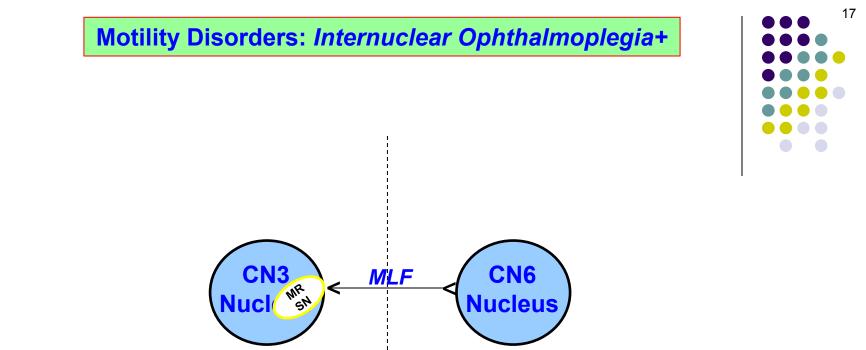
to its medial rectus (MR) subnucleus



What purpose does the MLF serve?

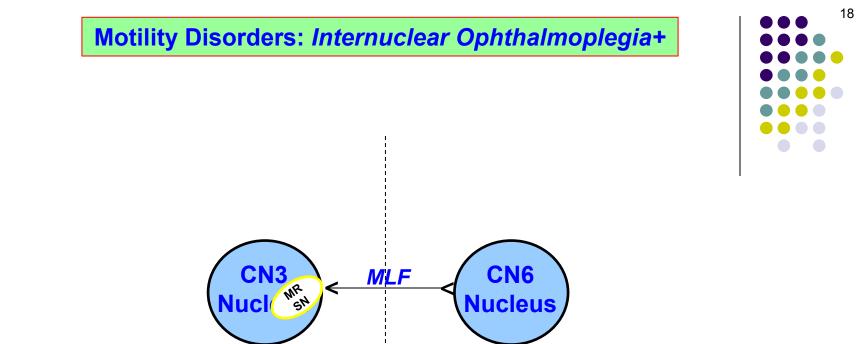


What purpose does the MLF serve? To allow coordinated lateral gaze of both eyes



What purpose does the MLF serve? To allow coordinated lateral gaze of both eyes

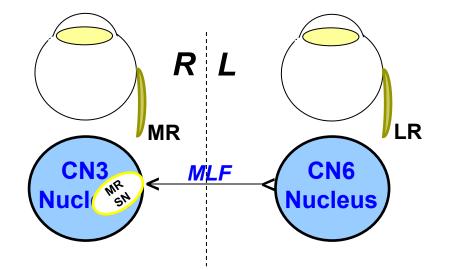
How does the MLF facilitate lateral gaze coordination?



What purpose does the MLF serve? To allow coordinated lateral gaze of both eyes

How does the MLF facilitate lateral gaze coordination? By causing the contralateral MR to fire simultaneously with the ipsilateral lateral rectus (LR), thus ensuring both eyes turn into lateral gaze together

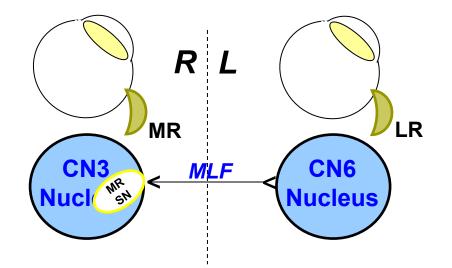






From where to where do the fascicles of the MLF run?

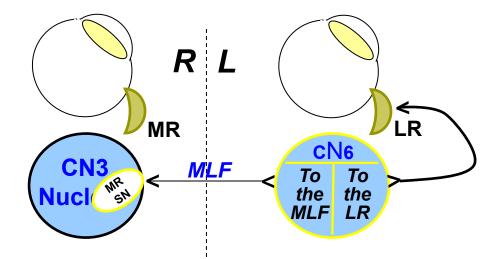
So if the depicted CN6 nucleus is on a pt's left side, the depicted MLF runs to her right MR subnucleus.





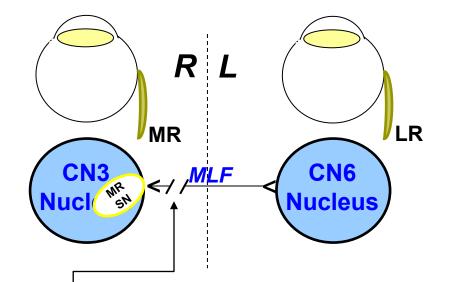
From where to where do the fascicles of the MLF run?

So if the depicted CN6 nucleus is on a pt's left side, the depicted MLF runs to her right MR subnucleus. When the pt endeavors to look to her left, the left CN6 nucleus causes the left LR to contract while also sending impulses (via the MLF) to her right MR subnucleus, which in turn causes the right MR to contract simultaneously—and both eyes shift into left gaze in coordinated fashion.



From where to when of neurons: those that innervate the ipsilateral LR, and those whose axons will form the MLF and innervate the contralateral MR subnucleus

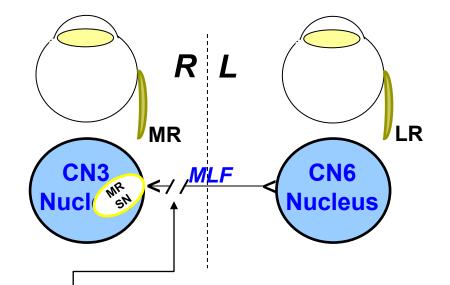
her left, the left CN6 nucleus causes the left LR to contract while also sending impulses (via the MLF) to her right MR subnucleus, which in turn causes the right MR to contract simultaneously—and both eyes shift into left gaze in coordinated fashion.



From where to where do the fascicles of the MLF run? From the CN6 nucleus to the contralateral CN3 nucleus—specifically,

What effect does a lesion of the MLF have on lateral gaze?

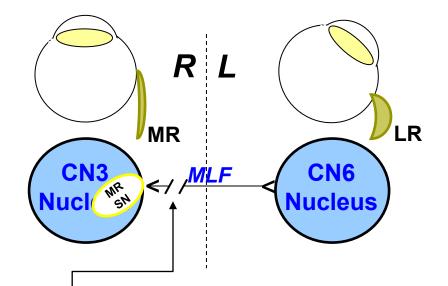




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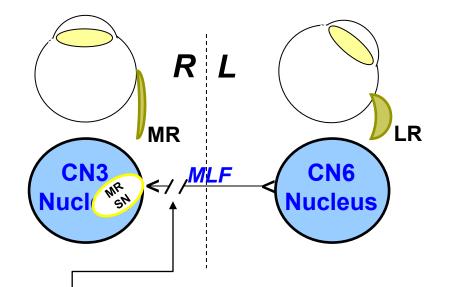




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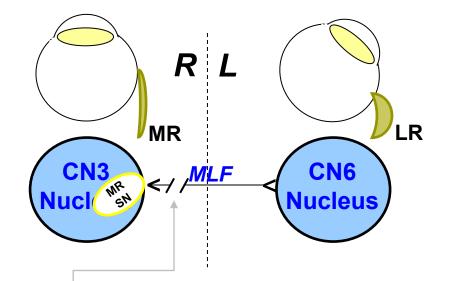




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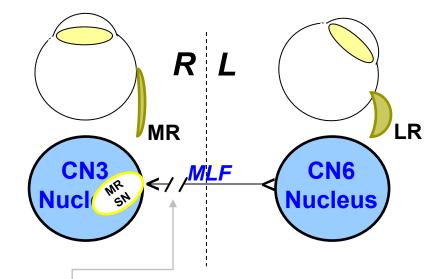
By cal This is an internuclear ophthalmoplegia (INO)

Sildlerar atorar reotao (Erty, thao onouring both eyeo tarri

lateral gaze together







Would this be considered a right INO, or a left INO? What is the rule for naming INOs?

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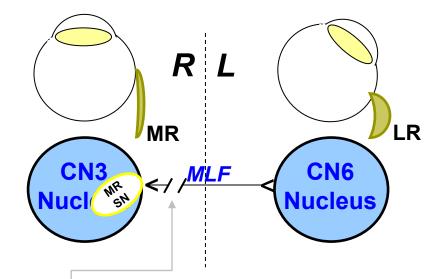
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This is an internuclear ophthalmoplegia (INO)

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lateral gaze together





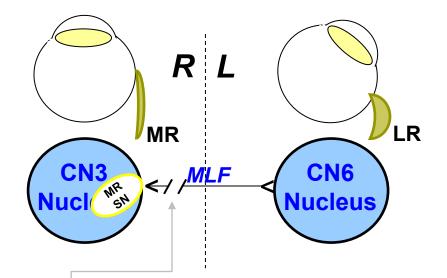
Would this be considered a right *INO, or a* left *INO? What is the rule for naming INOs?* By convention, INOs are named based on the side with impaired ADduction.

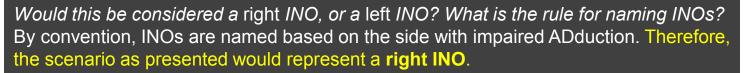
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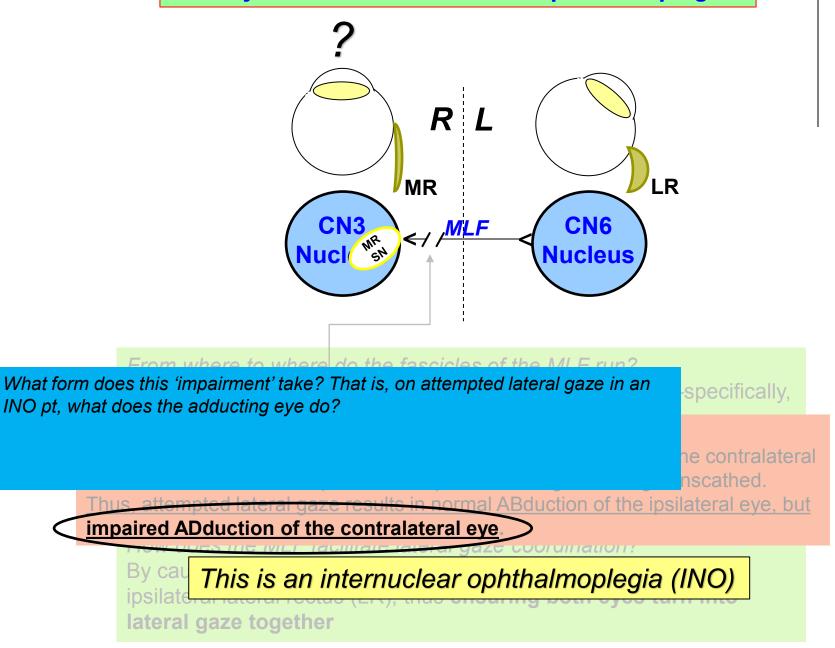


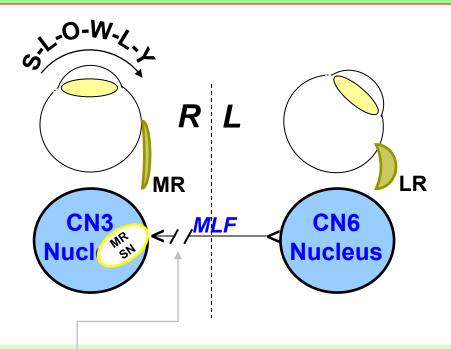


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From where to where do the fascicles of the MI E run?

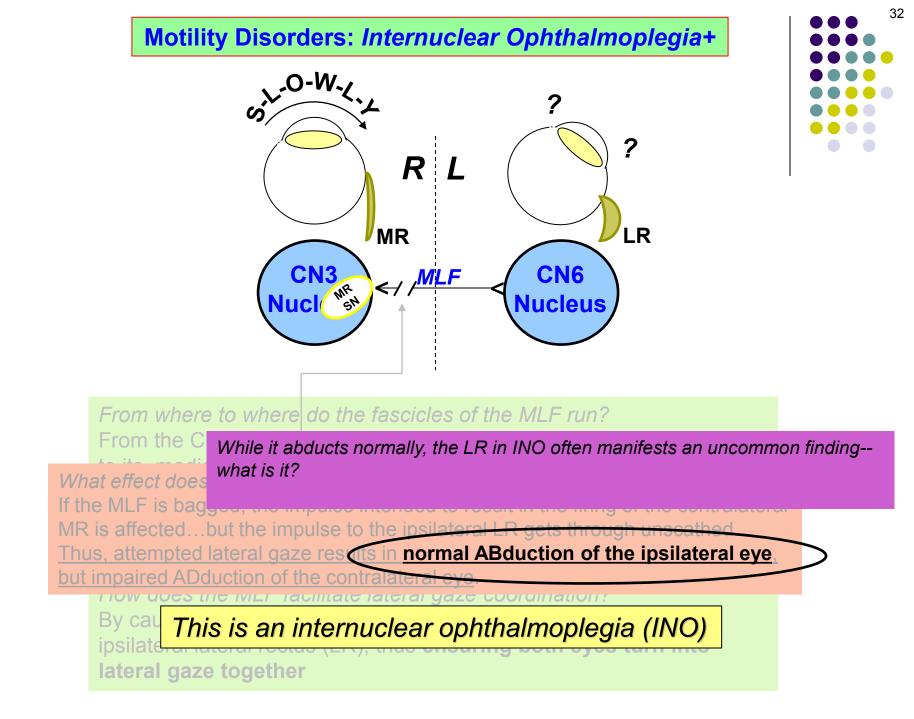
What form does this 'impairment' take? That is, on attempted lateral gaze in an
INO pt, what does the adducting eye do?specifically,It adducts, but at a much slower velocity than that of the abduction movement of
the fellow eye. (Take note: The Neuro book refers to this slowed-saccade
phenomenon as the "cardinal sign" of an INO.)specifically,Thus, attempted lateral gaze results in normal ABduction of the ipsilateral eye, but

impaired ADduction of the contralateral eye

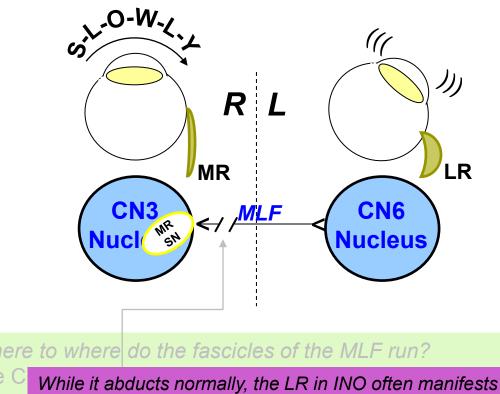
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By cal This is an internuclear ophthalmoplegia (INO)

lateral gaze together









From where to where do the fascicles of the MLF run?

From the C

What effect does

While it abducts normally, the LR in INO often manifests an uncommon finding-what is it?

The abducting eye often exhibits end-point nystagmus If the MLF is bagged, the

MR is affected...but the impulse to the insilateral LR EK gets through unse

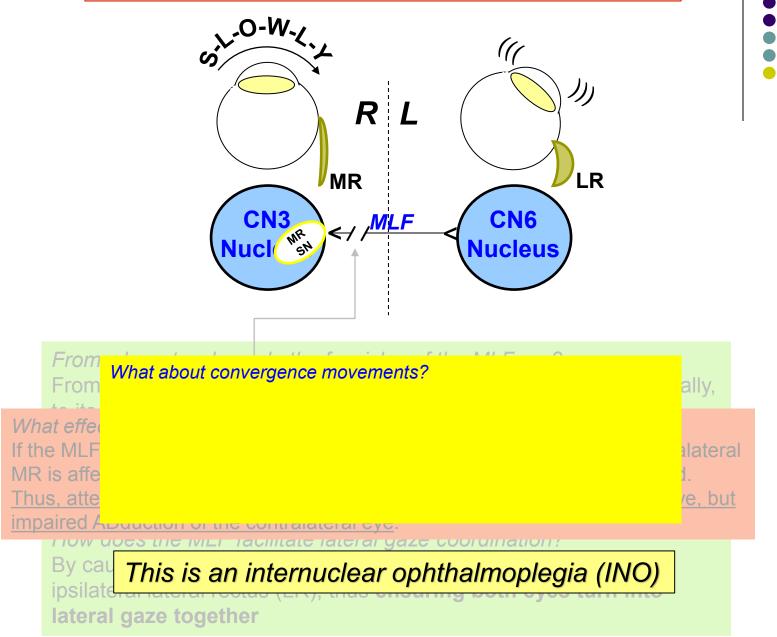
Thus, attempted lateral gaze resets in normal ABduction of the ipsilateral eye,

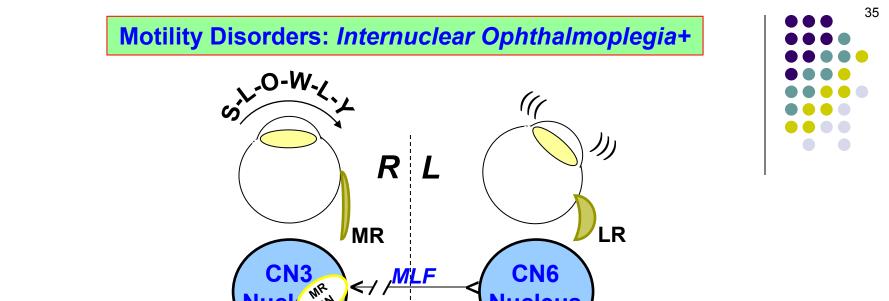
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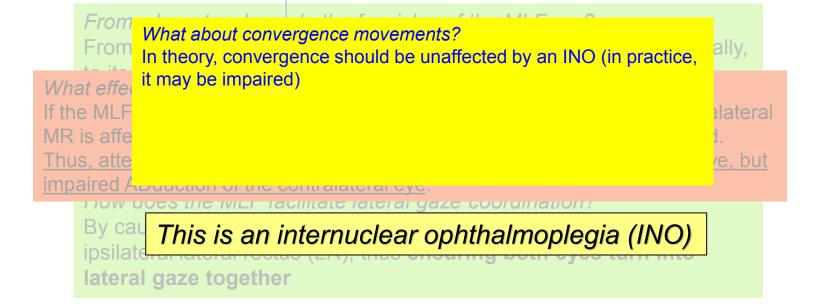
lateral gaze together





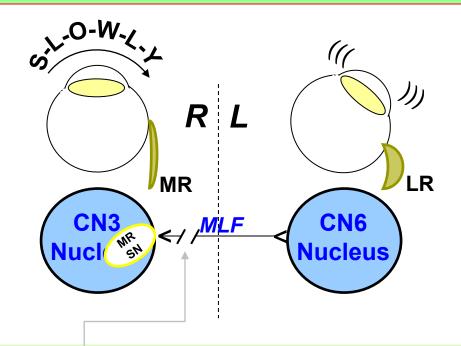


Nucleus

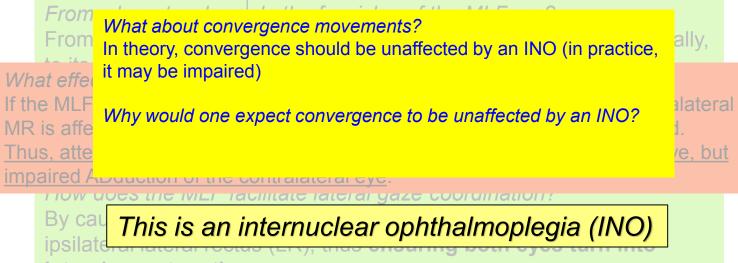


MR

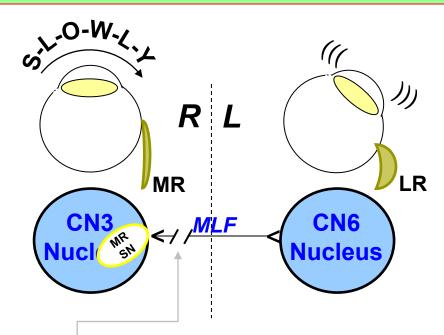
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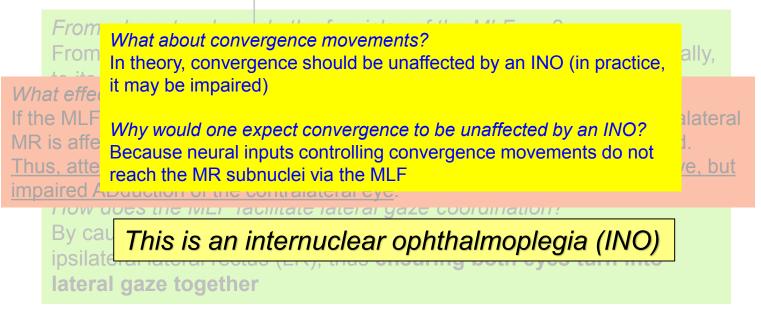


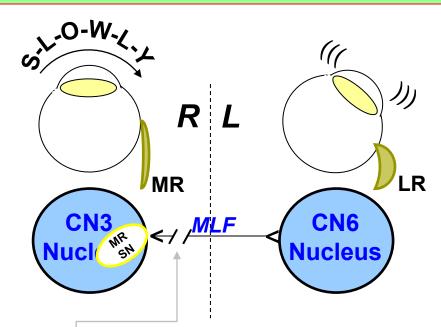


lateral gaze together











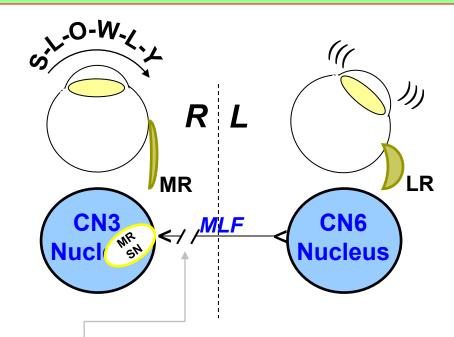
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lateral gaze together

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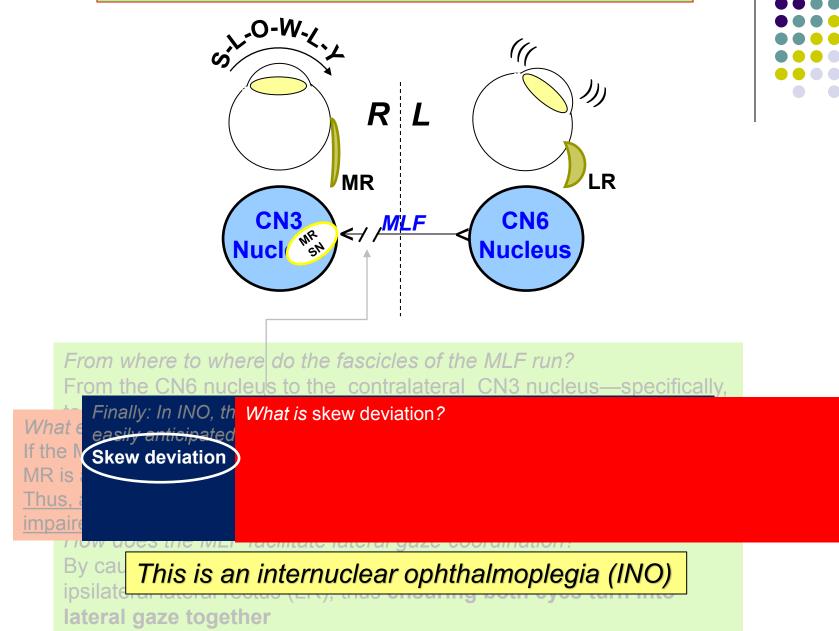


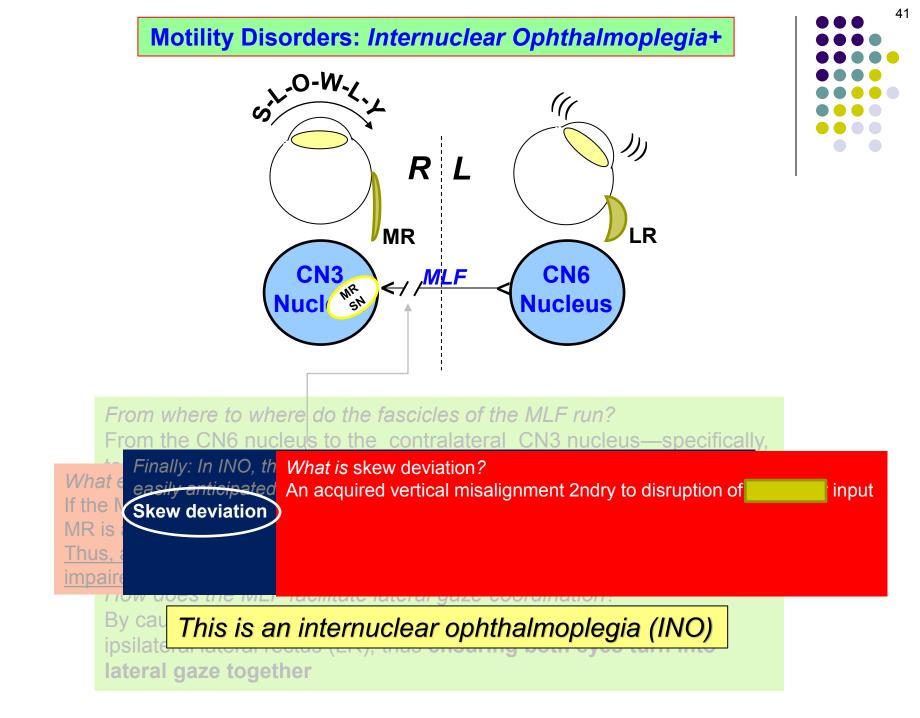


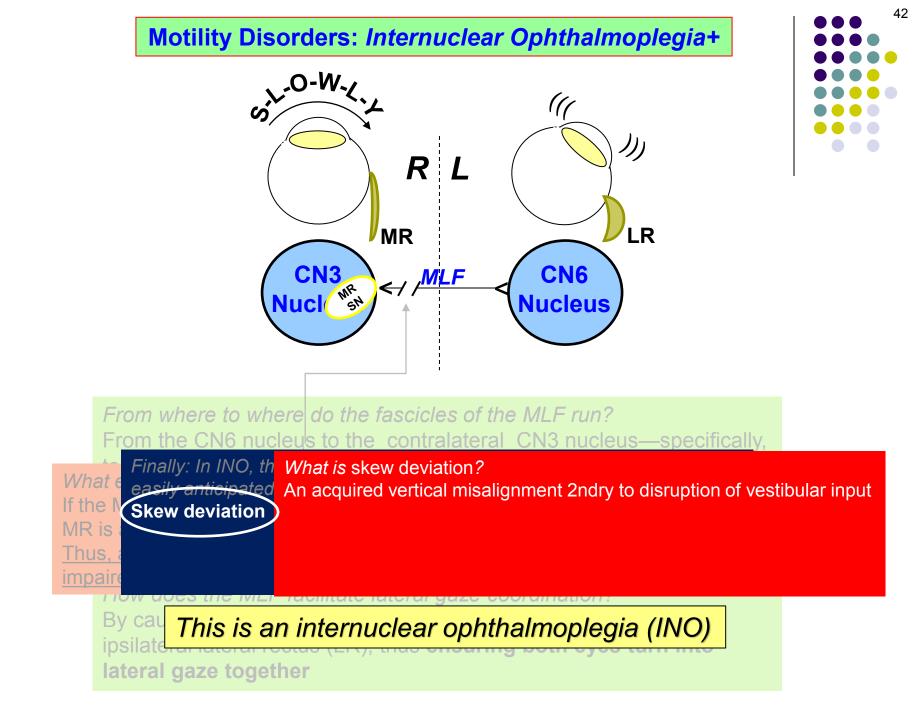
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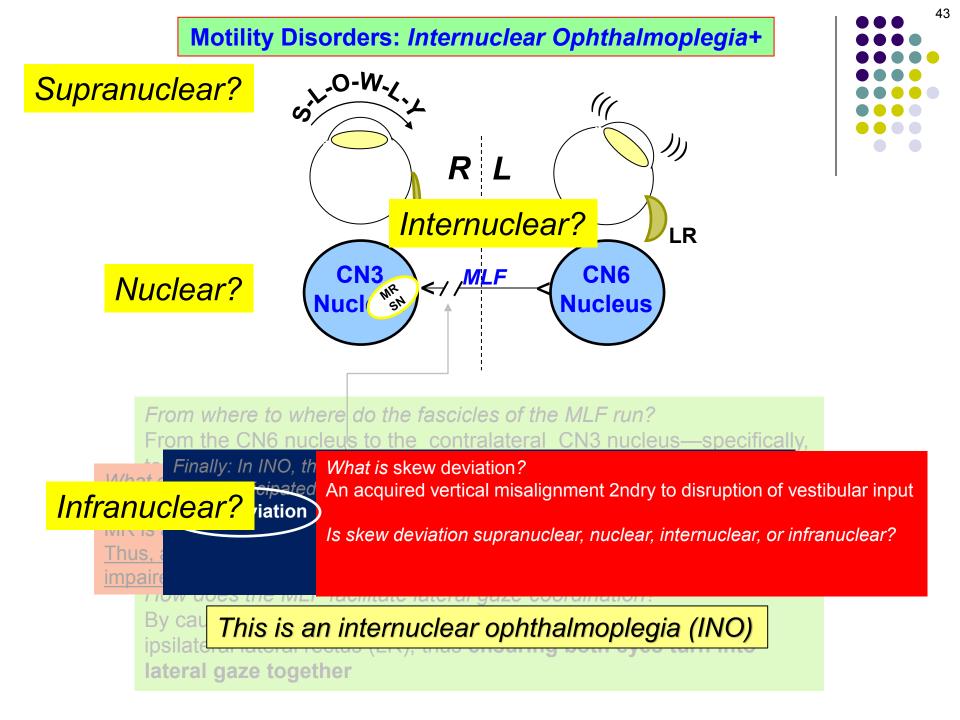
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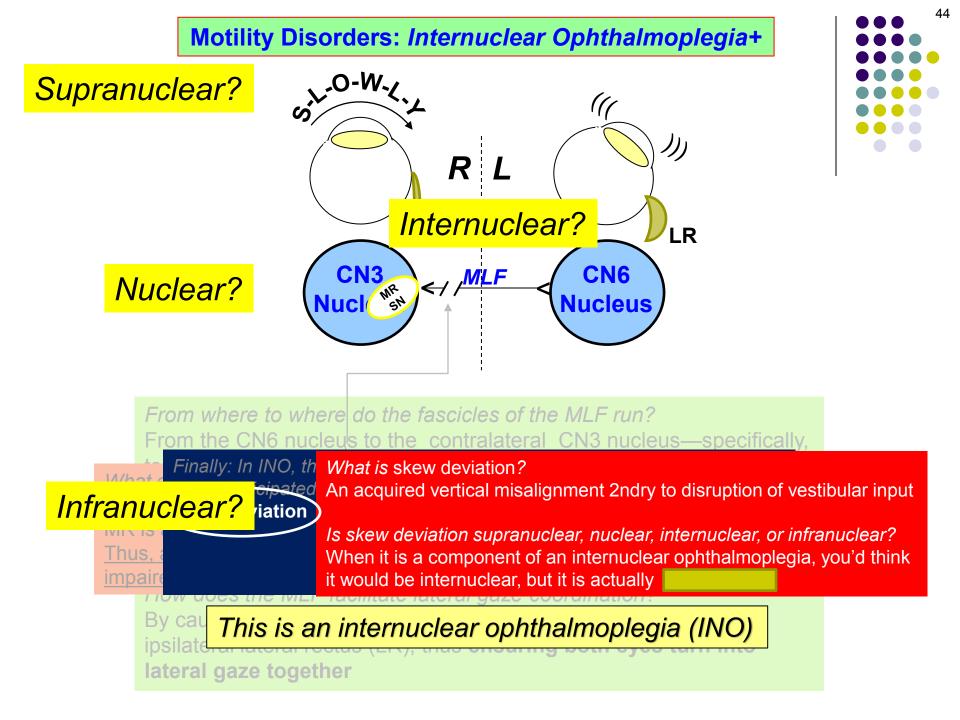


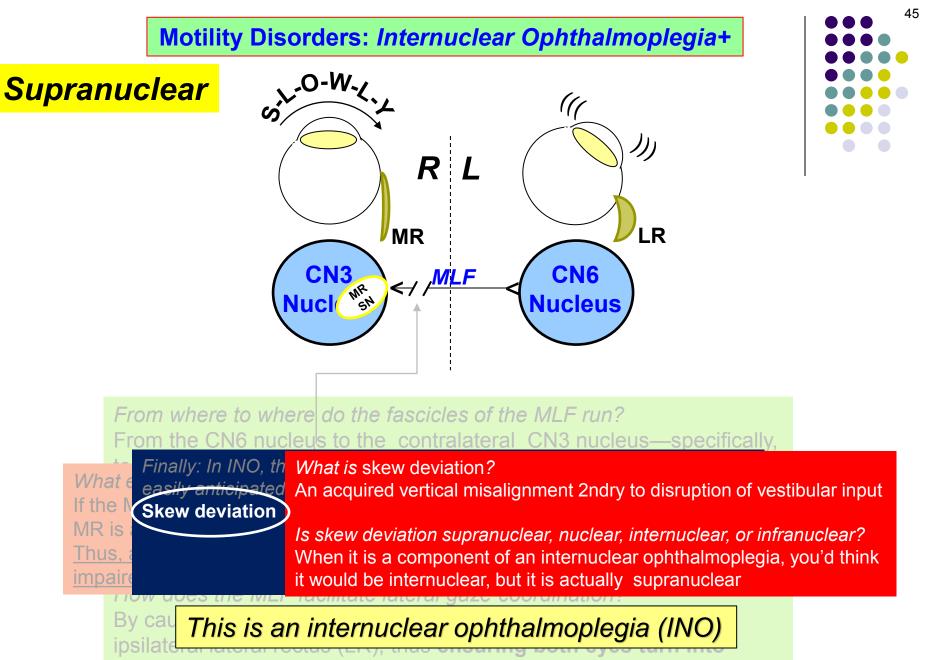




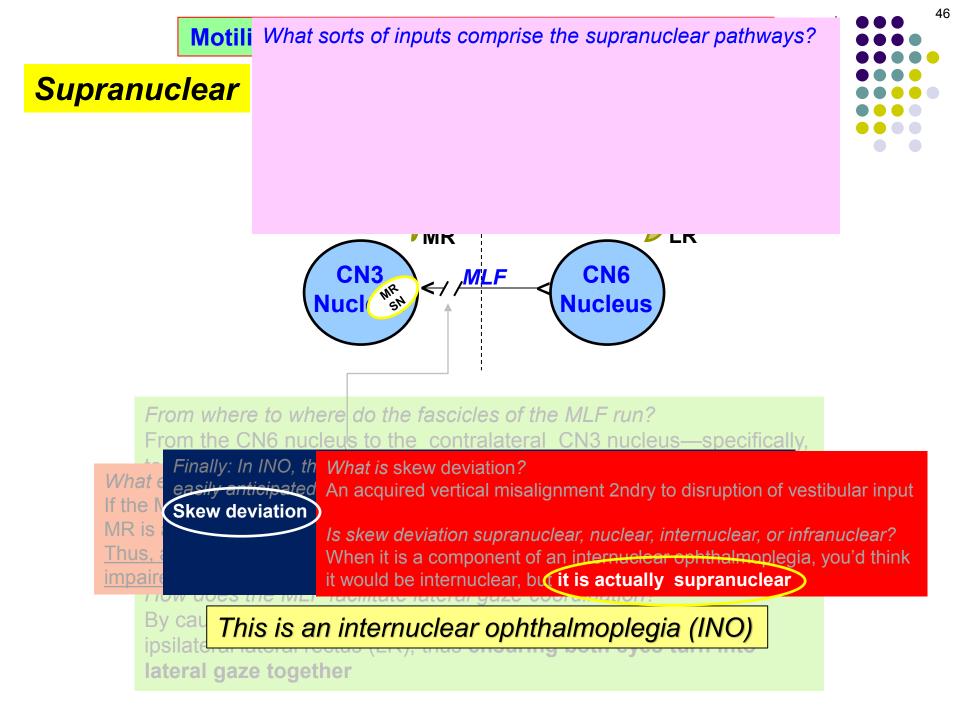


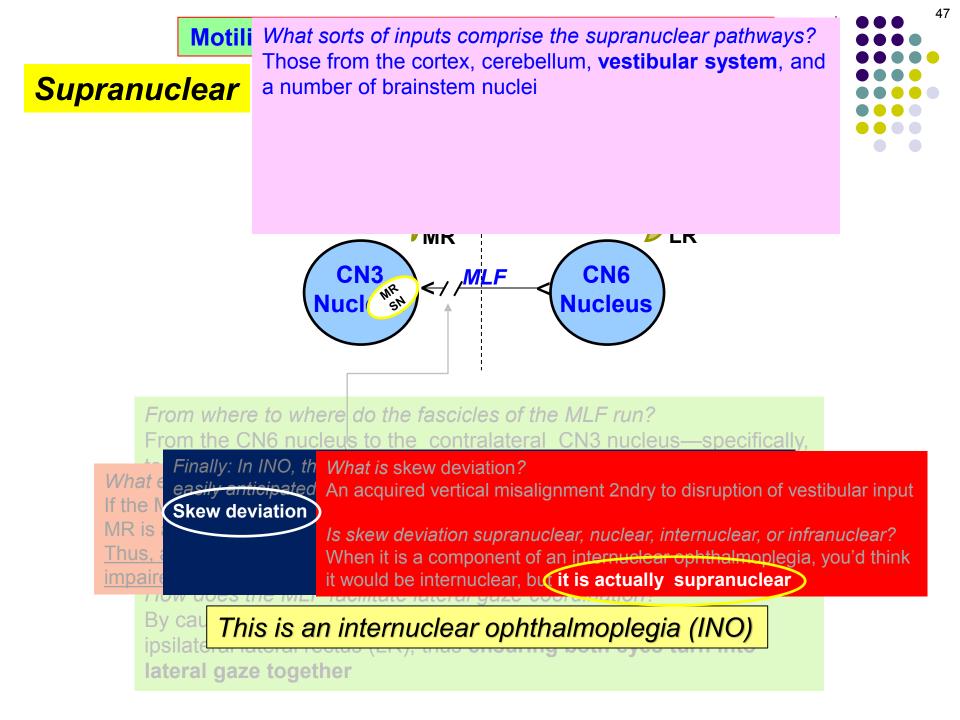






lateral gaze together

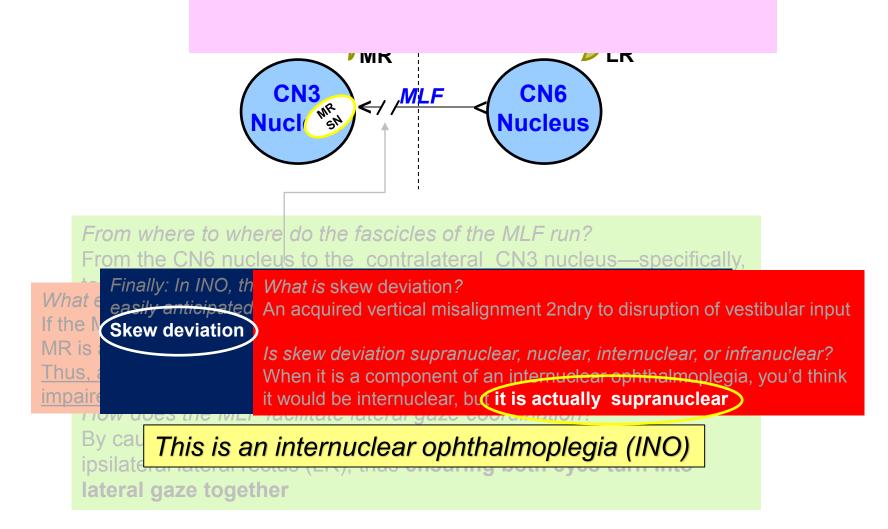




Supranuclear

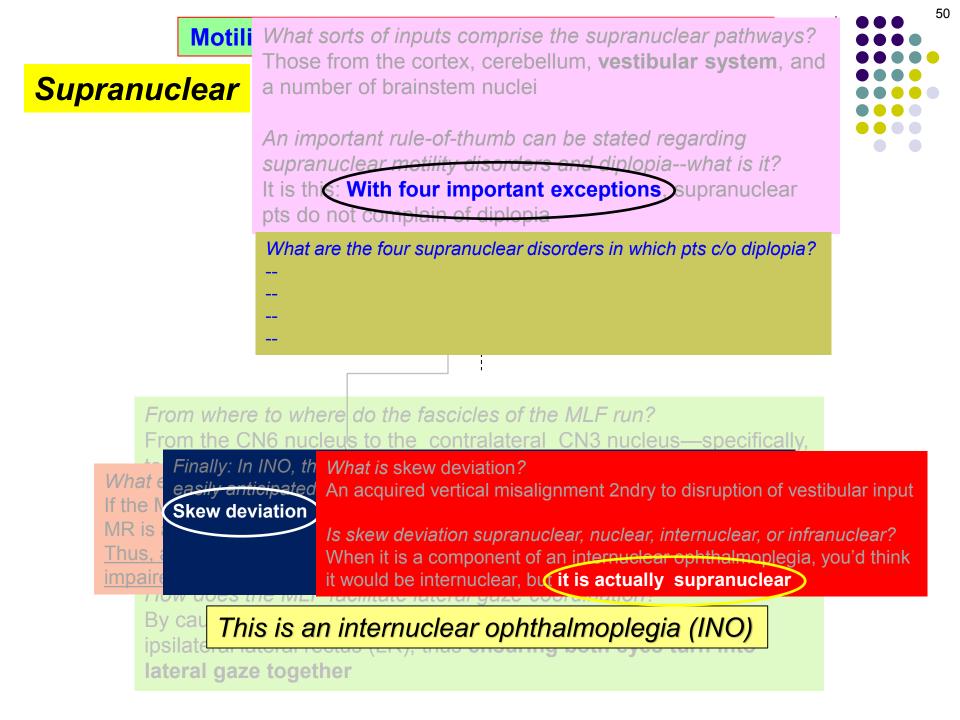
MotiliWhat sorts of inputs comprise the supranuclear pathways?Those from the cortex, cerebellum, vestibular system, and
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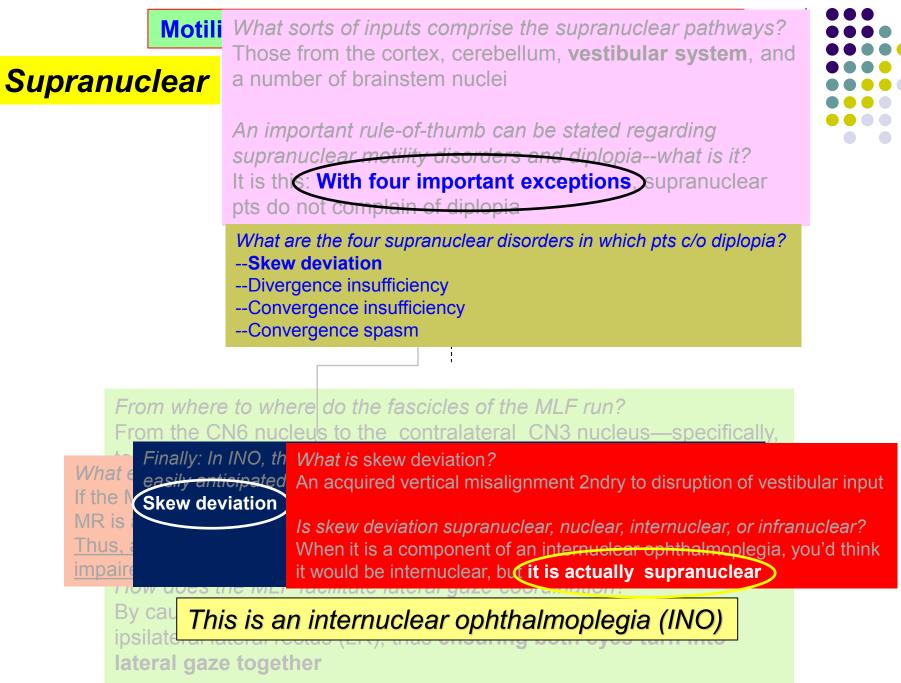
An important rule-of-thumb can be stated regarding supranuclear motility disorders and diplopia--what is it?

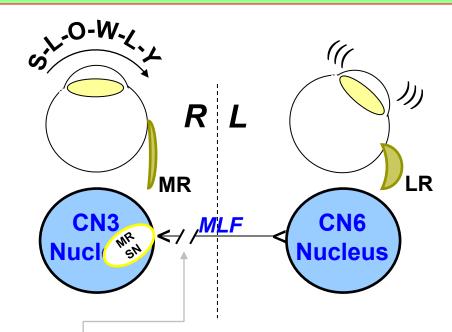


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lateral gaze together









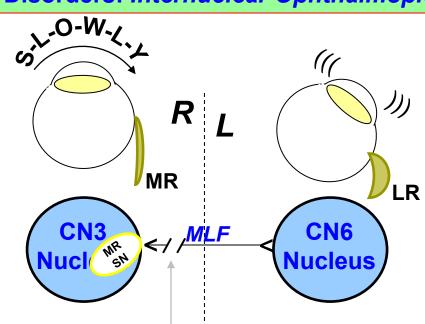
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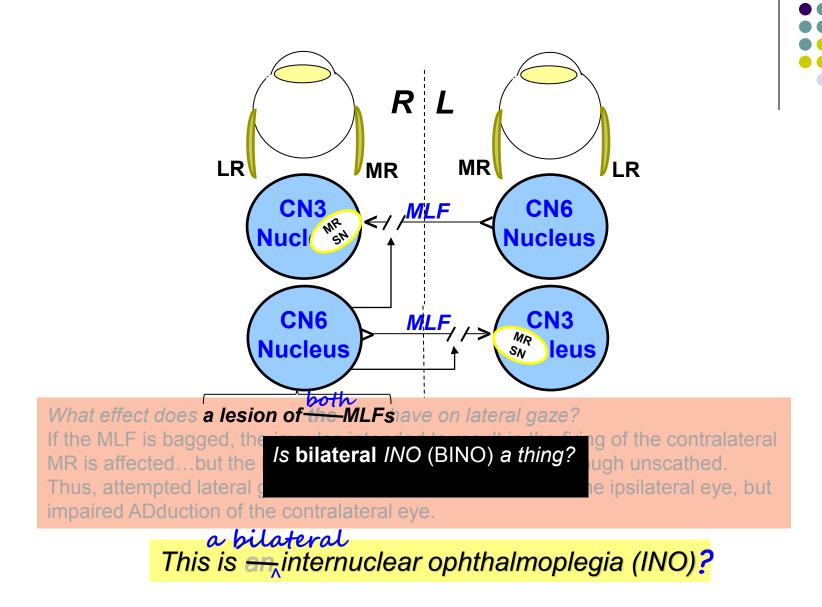


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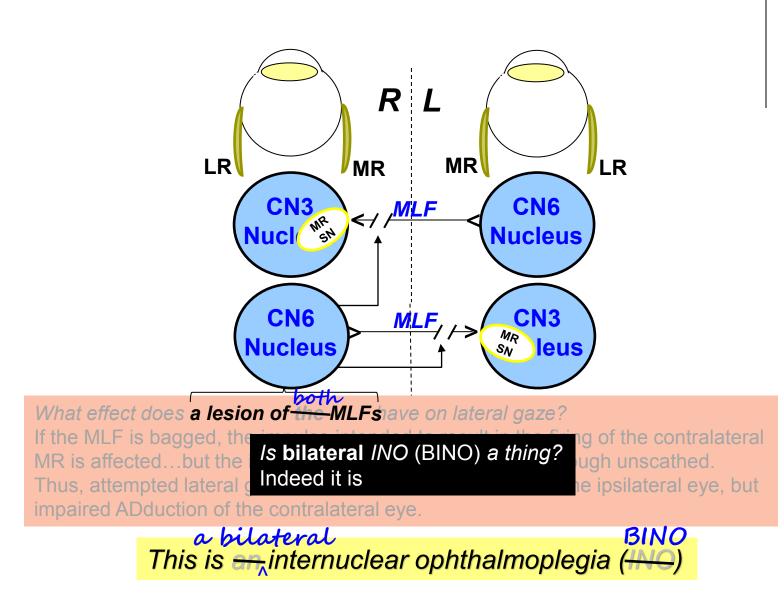
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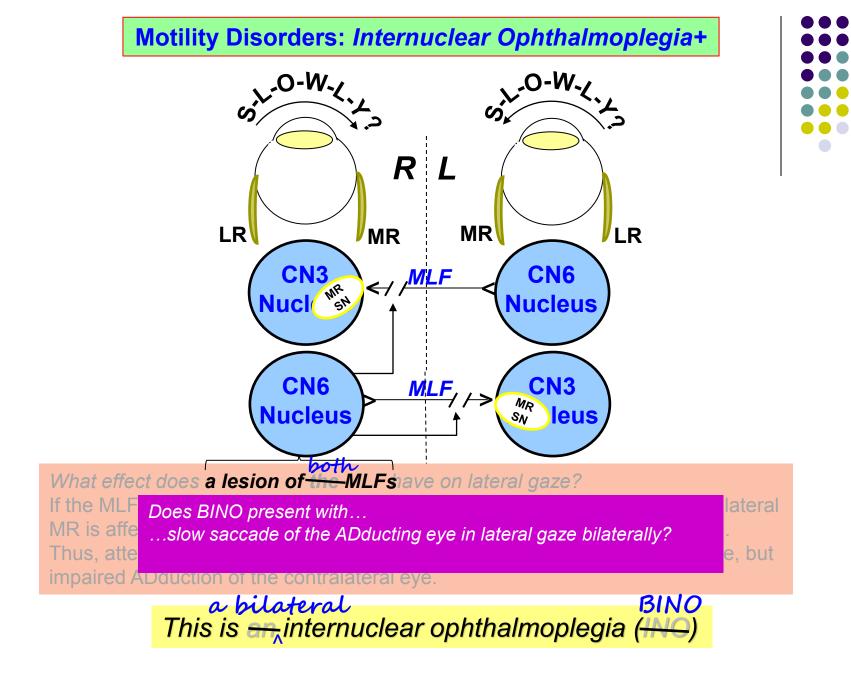
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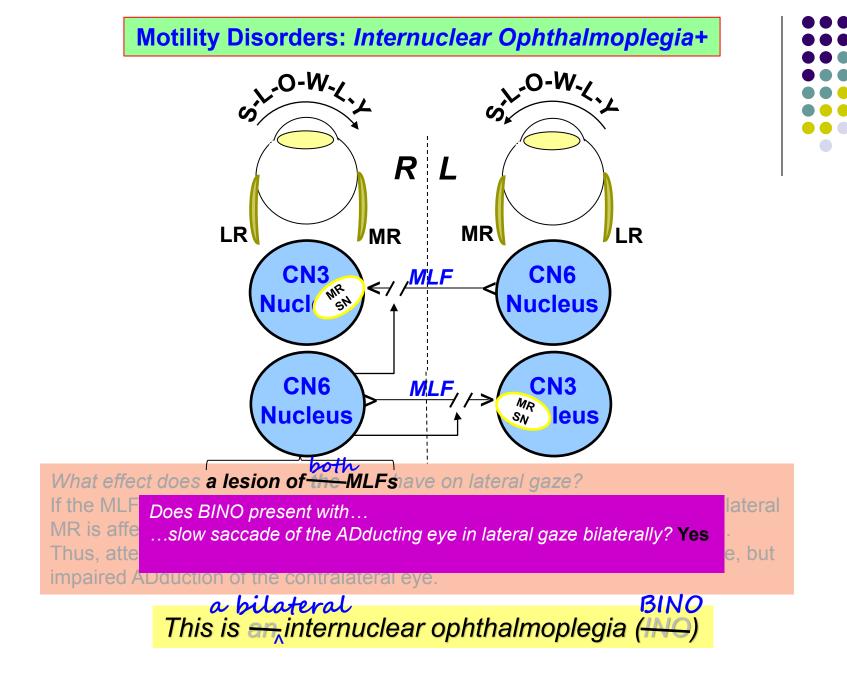


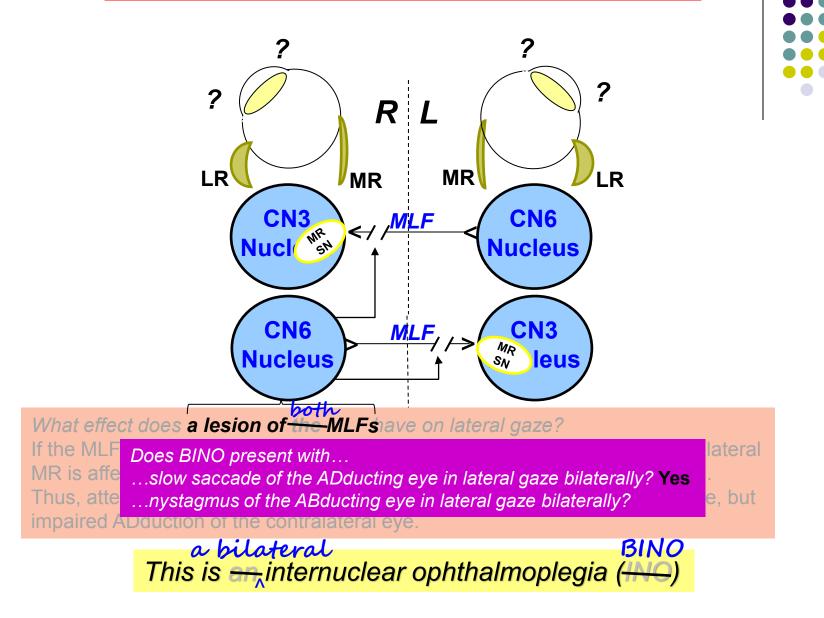


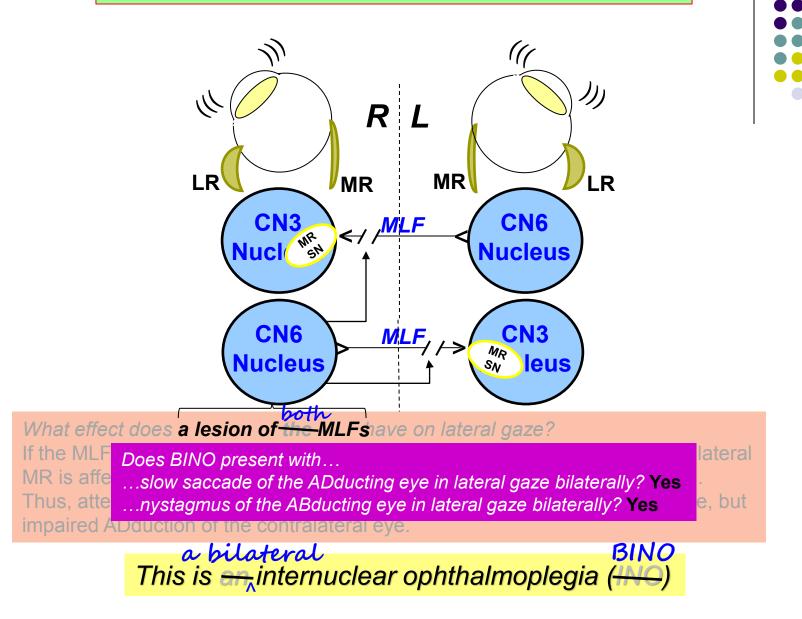




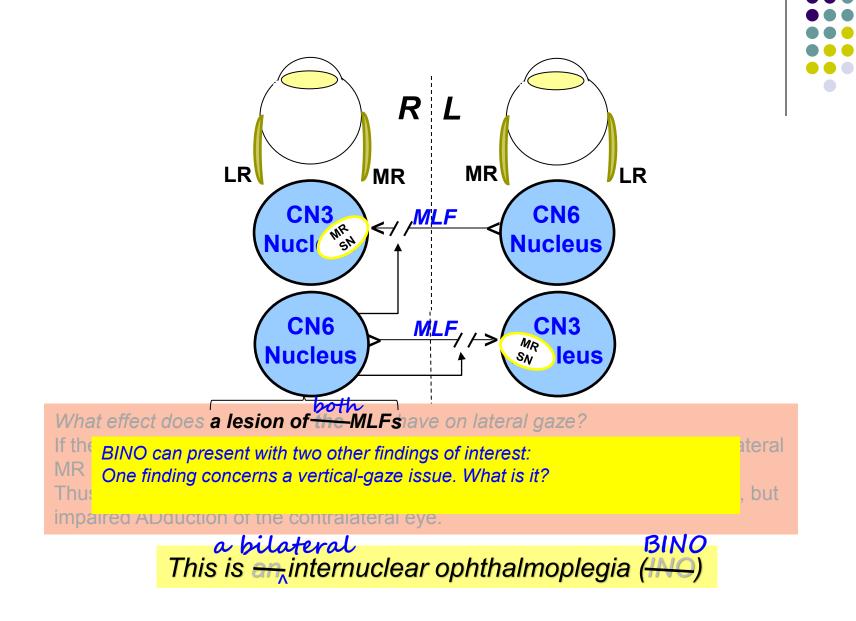


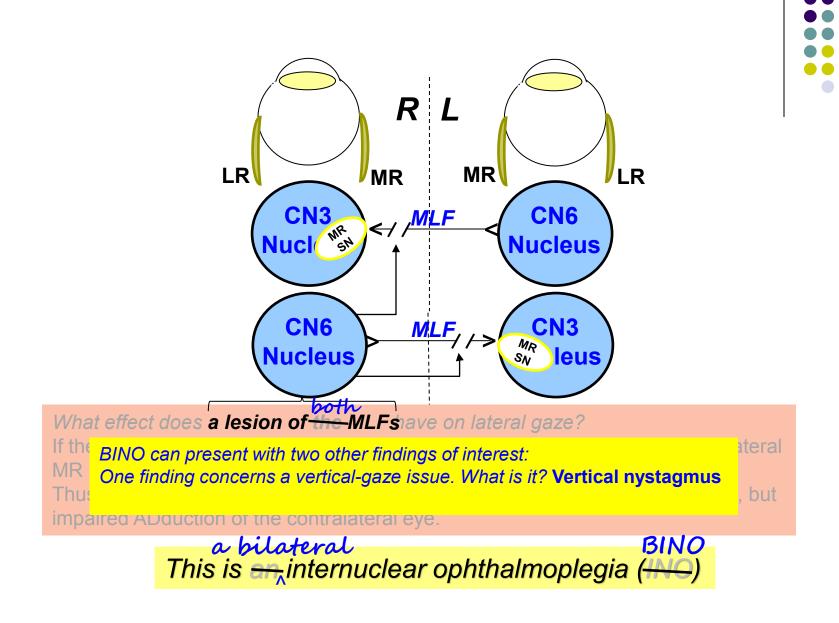


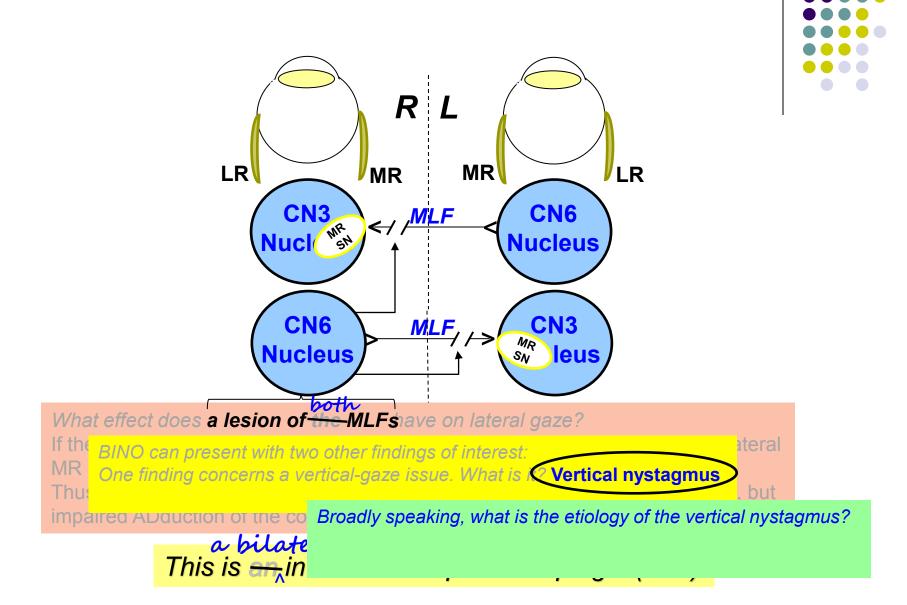


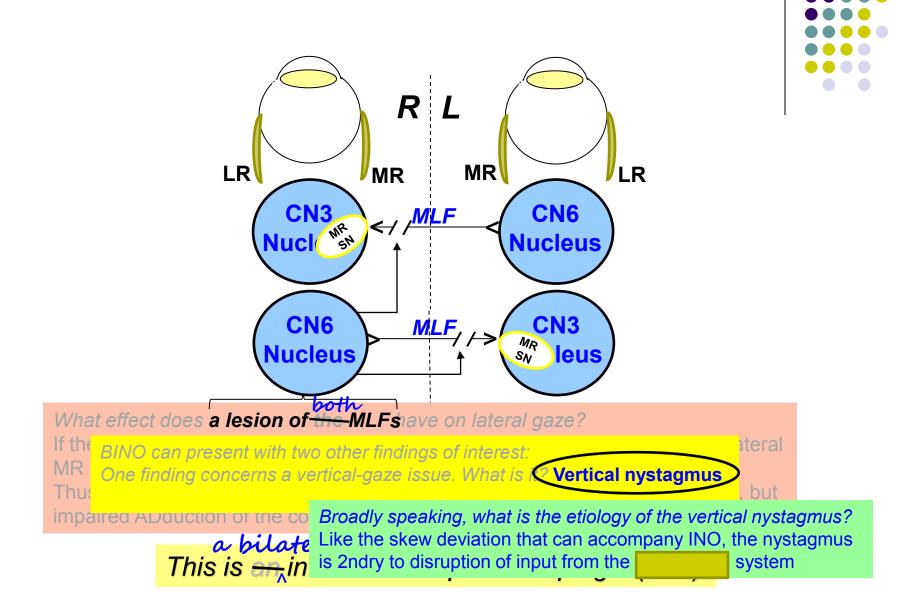


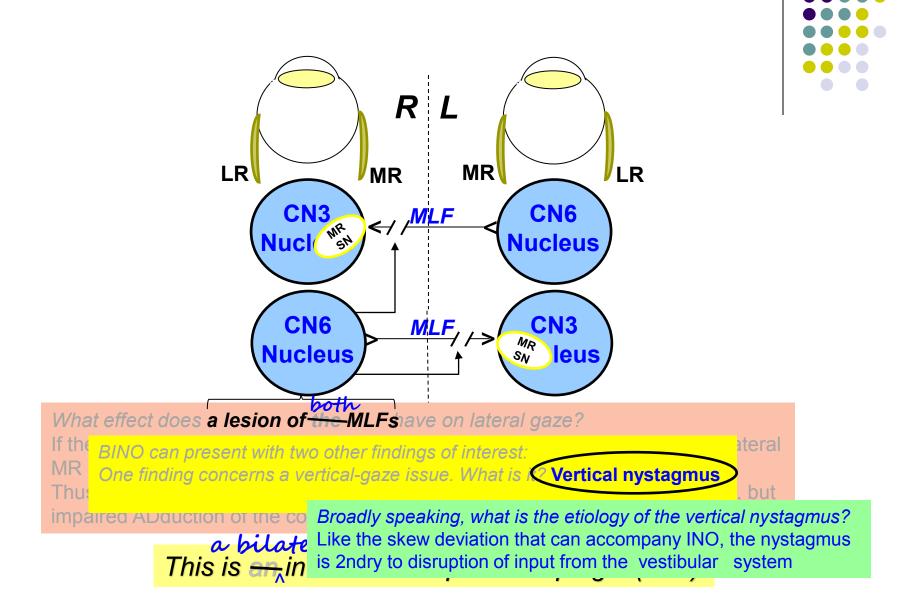


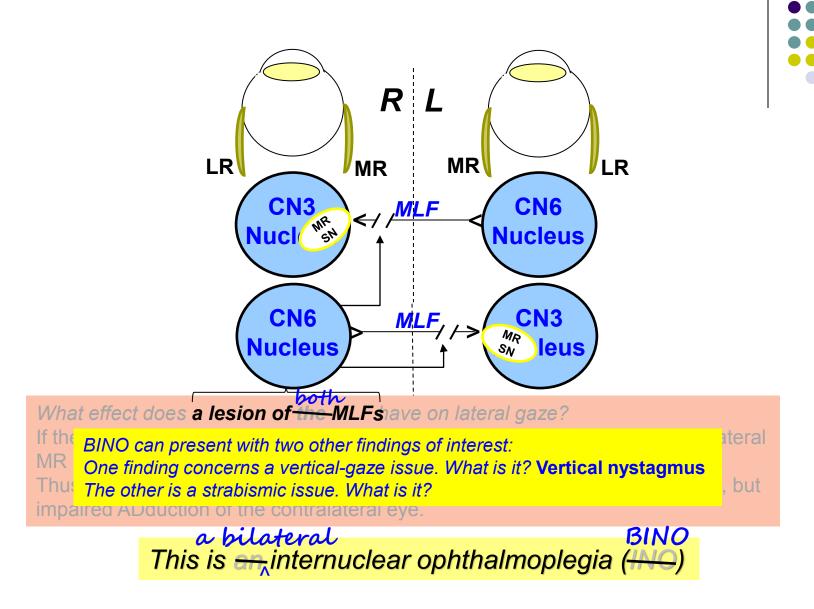




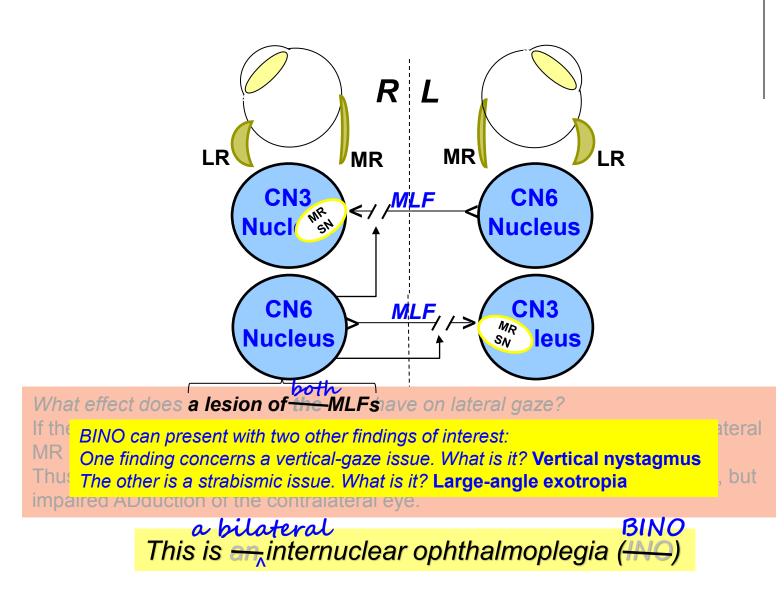




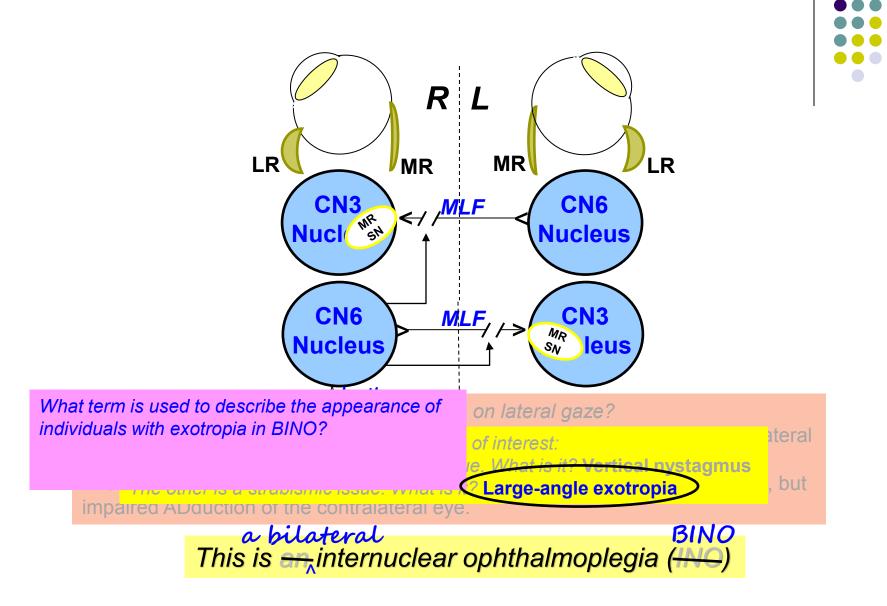






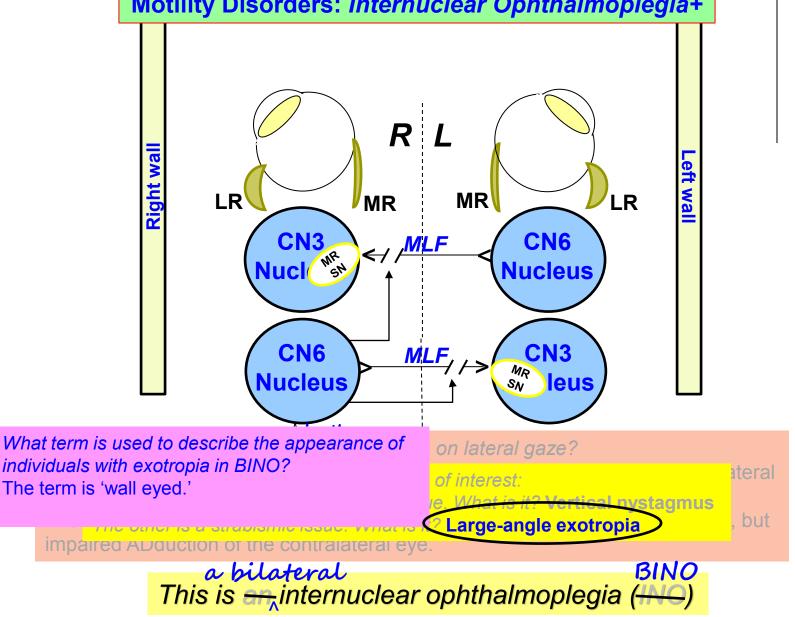




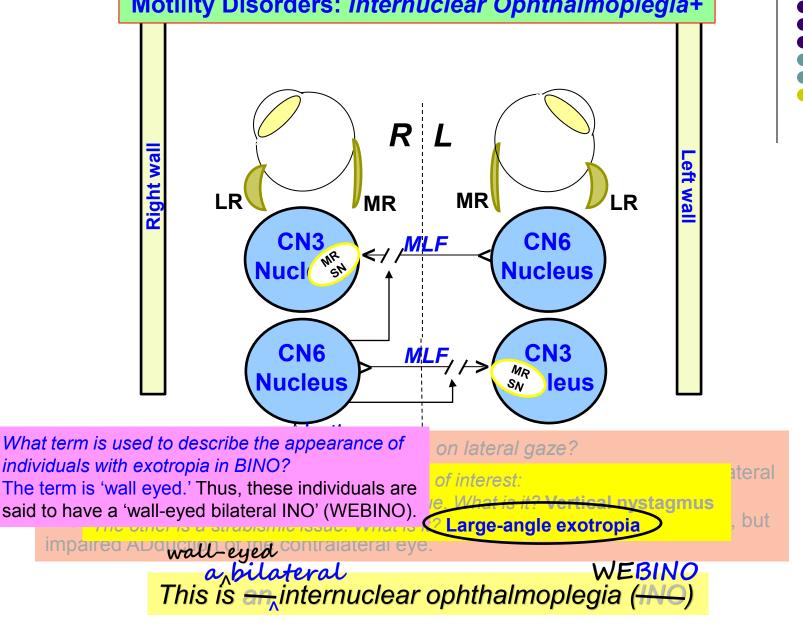


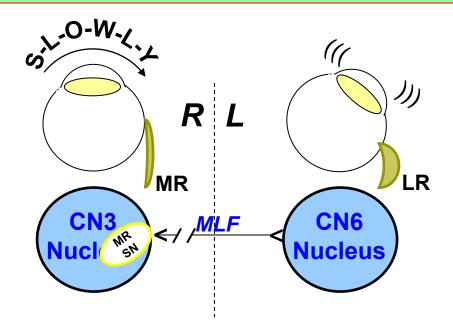








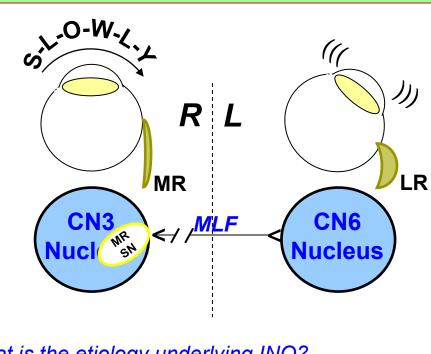






What is the etiology underlying INO?

This is an internuclear ophthalmoplegia (INO)

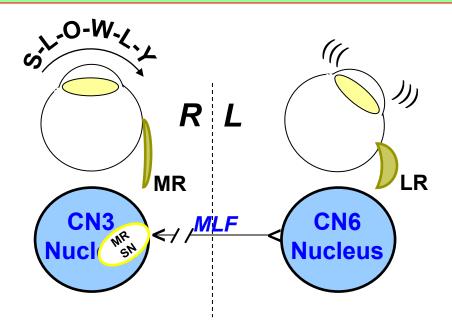




What is the etiology underlying INO? That is usually a function of pt

age? gender? ethnicity?

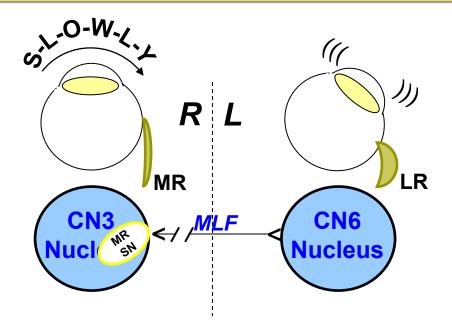
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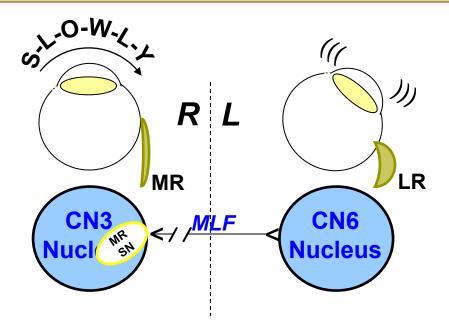
What is the etiology underlying INO? That is usually a function of pt age:

This is an internuclear ophthalmoplegia (INO)



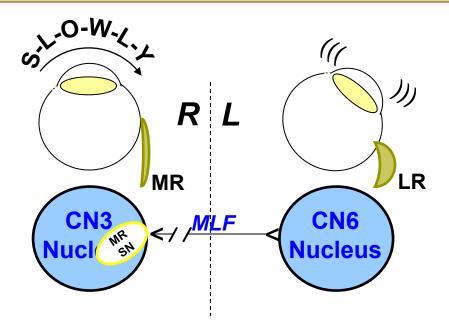


What is the etiology underlying INO? That is usually a function of pt age: --In a teen/young adult, it is likely...



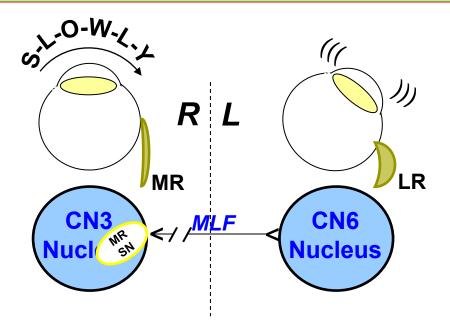


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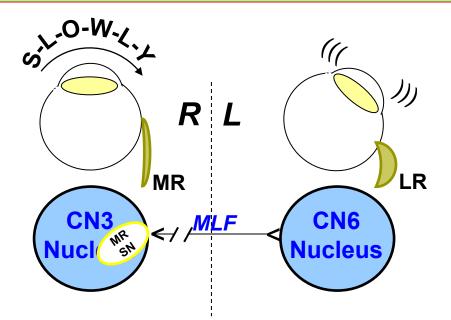


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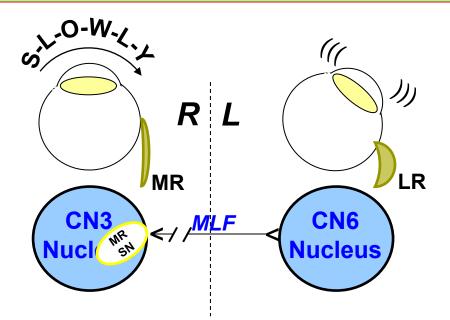
What is the etiology underlying INO? That is usually a function of pt age: --In a teen/young adult, it is likely...demyelinating dz --In an older adult, it is likely 2ndry to a...CVA

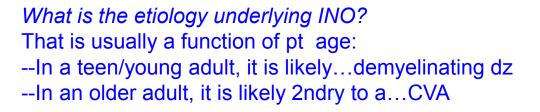




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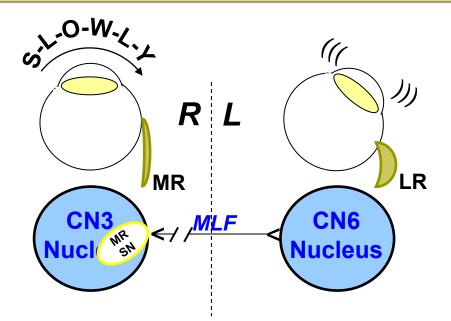
What condition/etiology must always be considered?

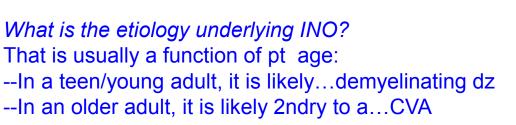




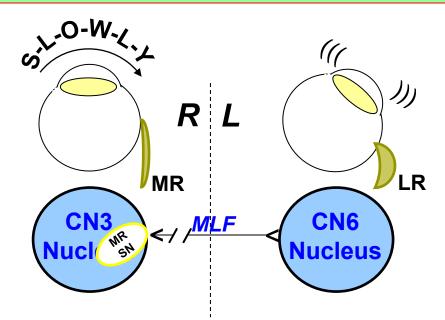
What condition/etiology must always be considered? A pseudo-INO 2ndry to abb.







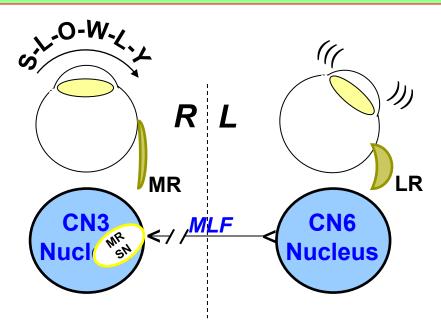
What condition/etiology must always be considered? A pseudo-INO 2ndry to MG





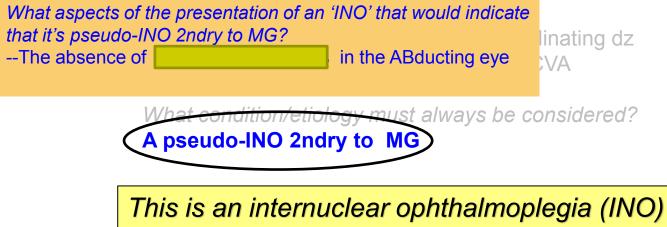
What is the etiology underlying INO?

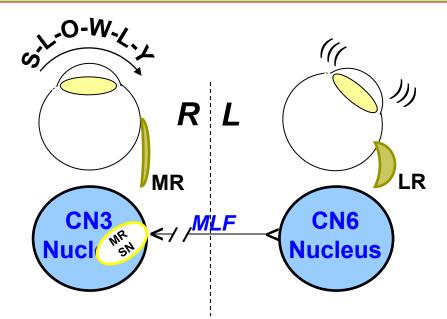
What aspects of the presentation of an 'INO' that would indicate that it's pseudo-INO 2ndry to MG? Inating dz VA What condition/etiology must always be considered? A pseudo-INO 2ndry to MG This is an internuclear ophthalmoplegia (INO)





What is the etiology underlying INO?





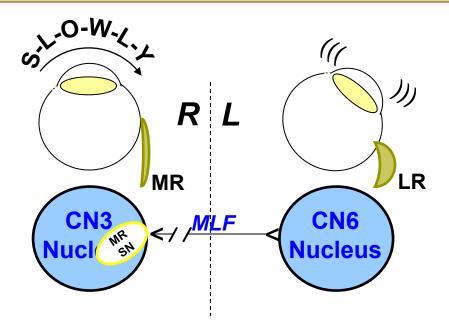


What is the etiology underlying INO?

What aspects of the presentation of an 'INO' that would indicate that it's pseudo-INO 2ndry to MG? --The absence of end-point nystagmus in the ABducting eye

What condition/etiology must always be considered?

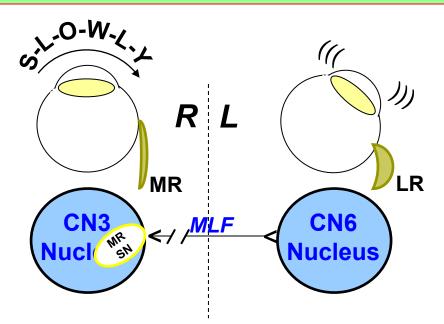




What is the etiology underlying INO?

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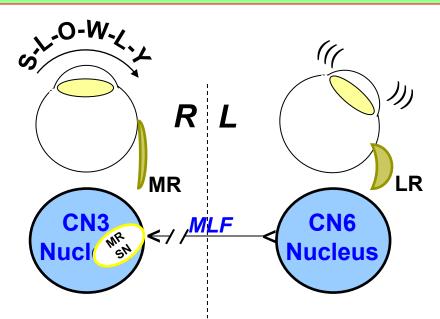




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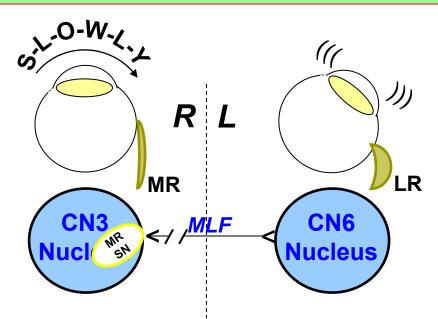
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What is the etiology underlying INO?

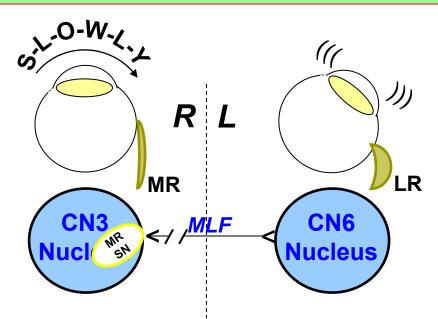
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What is the etiology underlying INO?

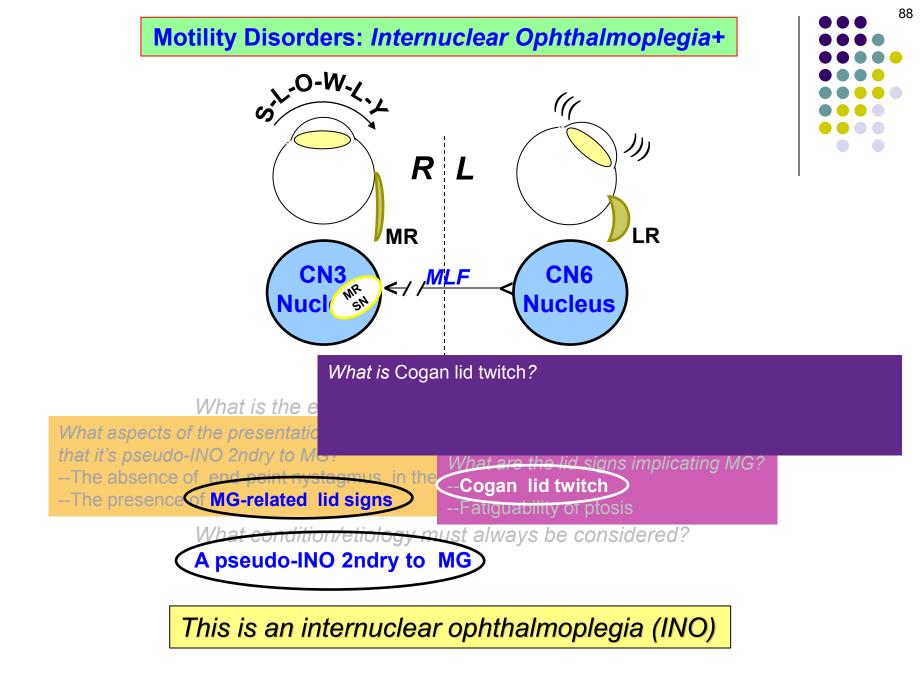
What aspects of the presentation of an 'INO' that would indicate that it's pseudo-INO 2ndry to MG? What are the lid signs implicating MG? --The absence of end lid twitch eponym --The presence of MG-related lid signs --Fatiguability of ptosis endition/etiology-must always be considered? A pseudo-INO 2ndry to MG This is an internuclear ophthalmoplegia (INO)

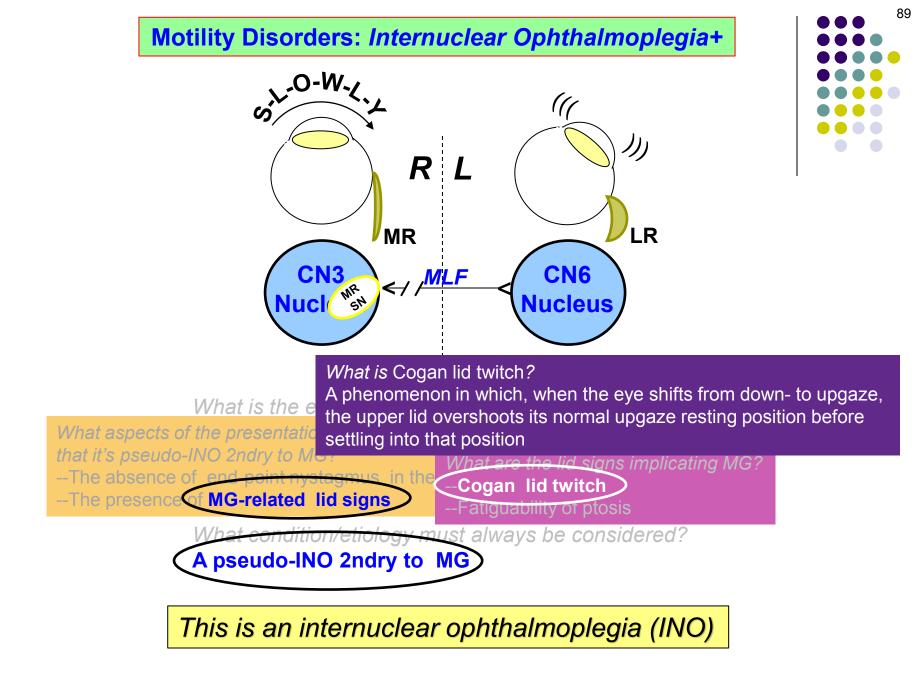




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Supranuclear

In this slide-set we will address *internuclear* ophthalmoplegia (INO), along with several related conditions (that's what the '+' refers to in the title)

We will now turn to the 'several related conditions' alluded to at the beginning of the slide-set



Fascicular

Subarachnoid

Cavernous sinus

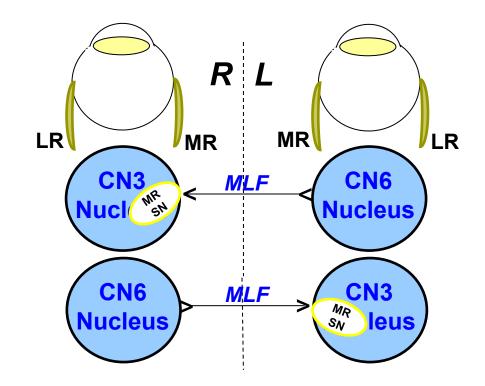
Orbital

Neuromuscular junction

Extraocular muscle

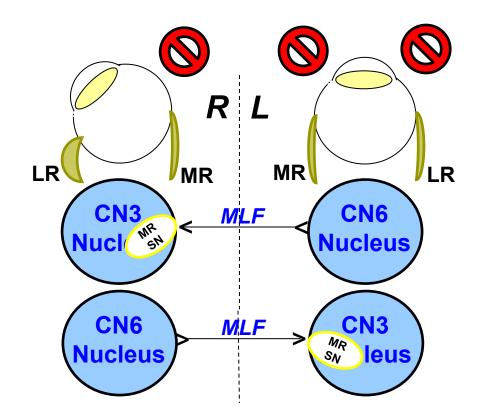
Infranuclear

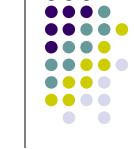




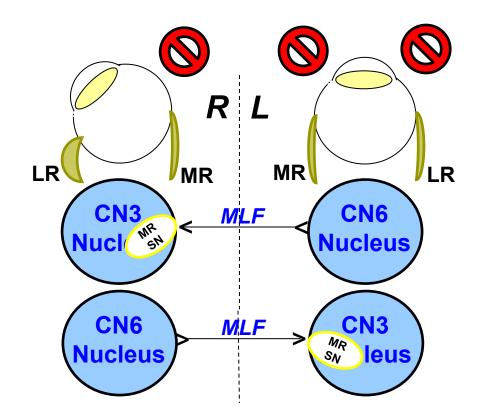
In the present context, what is the one-and-a-half syndrome?

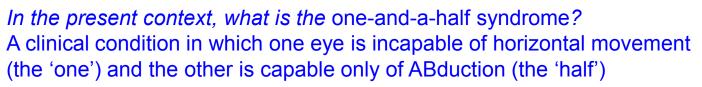




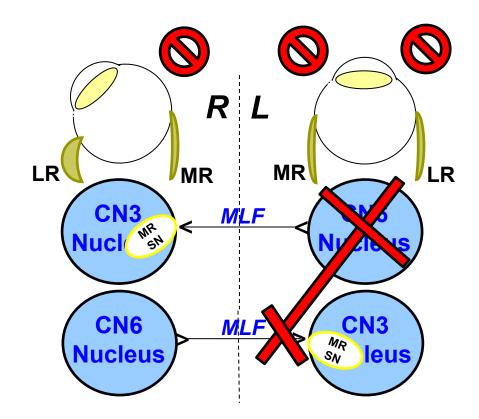


In the present context, what is the one-and-a-half syndrome? A clinical condition in which one eye is incapable of horizontal movement (the 'one') and the other is capable only of ABduction (the 'half')





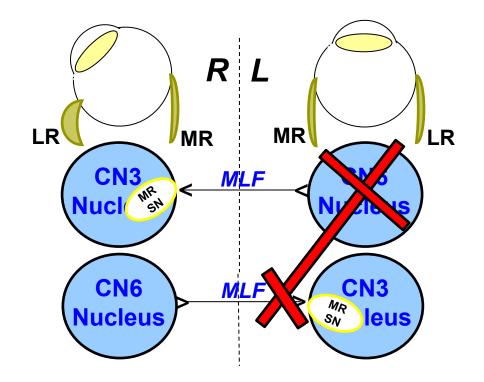
What is the cause?

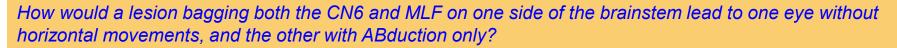


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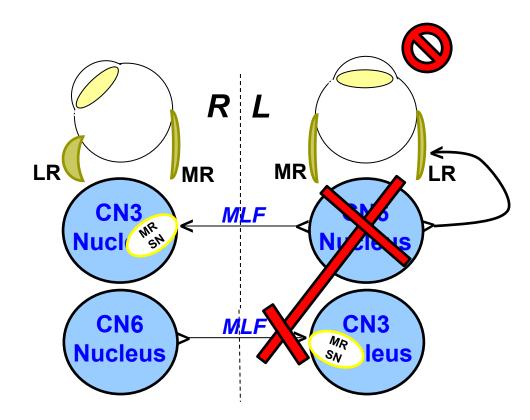
What is the cause?

A lesion that bags the MLF on one side along with the ipsilateral CN6 nucleus (or ipsilateral PPRF)



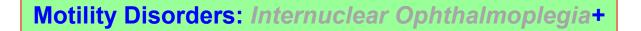


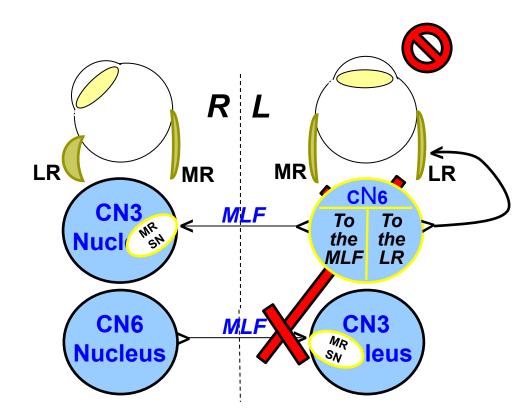


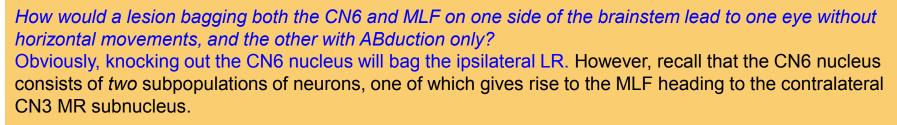




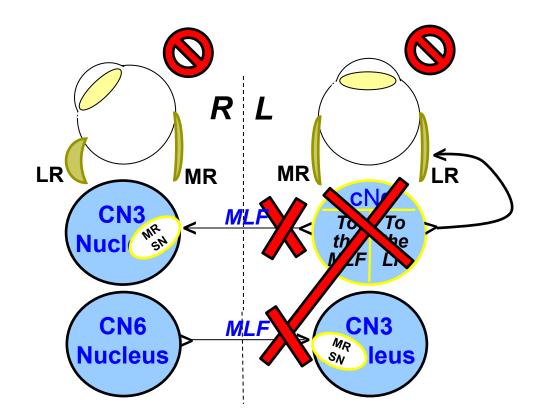
How would a lesion bagging both the CN6 and MLF on one side of the brainstem lead to one eye without horizontal movements, and the other with ABduction only? Obviously, knocking out the CN6 nucleus will bag the ipsilateral LR.





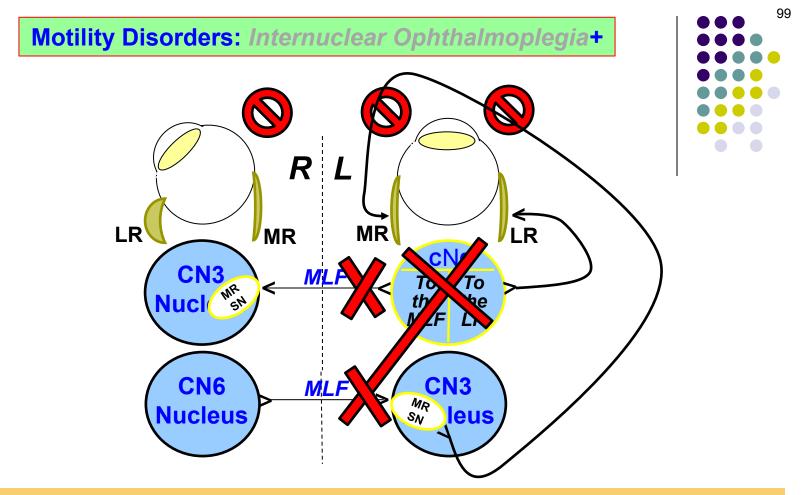






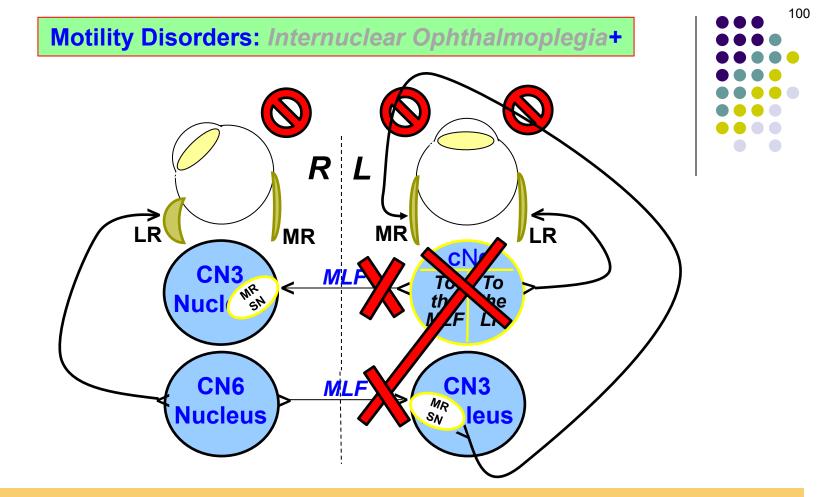
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Obviously, knocking out the CN6 nucleus will bag the ipsilateral LR. However, recall that the CN6 nucleus consists of *two* subpopulations of neurons, one of which gives rise to the MLF heading to the contralateral CN3 MR subnucleus. Thus, a nuclear CN6 lesion is a de facto MLF lesion as well, knocking out lateral-gaze input to the contralateral MR in addition to the ipsilateral LR.



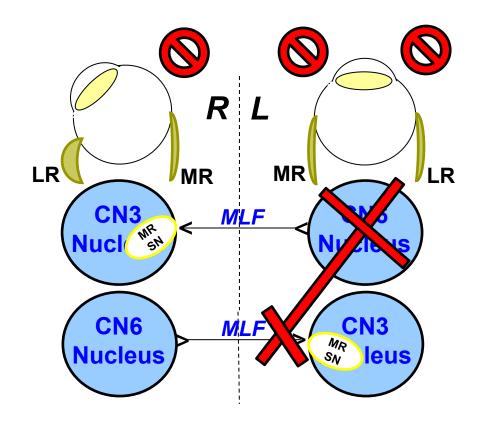
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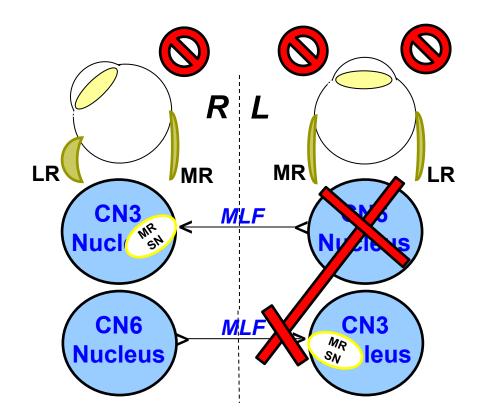
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being preserved.



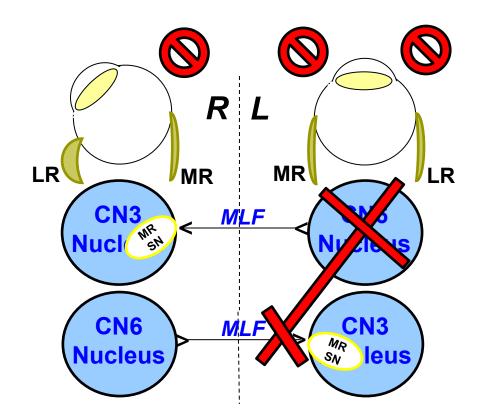
In the present context, what is the **eight**-and-a-half syndrome?







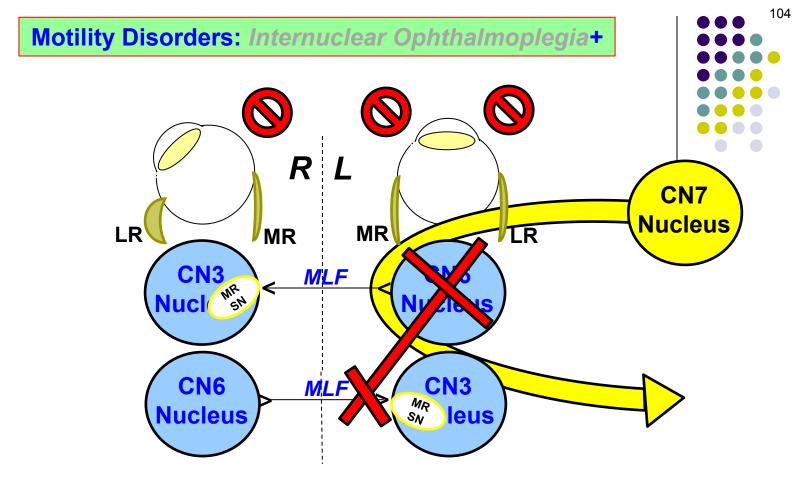
In the present context, what is the **eight**-and-a-half syndrome? A clinical condition consisting of a one-and-a-half syndrome *plus* an ipsilateral CN7 palsy (7 + 1.5 = 8.5—get it?)





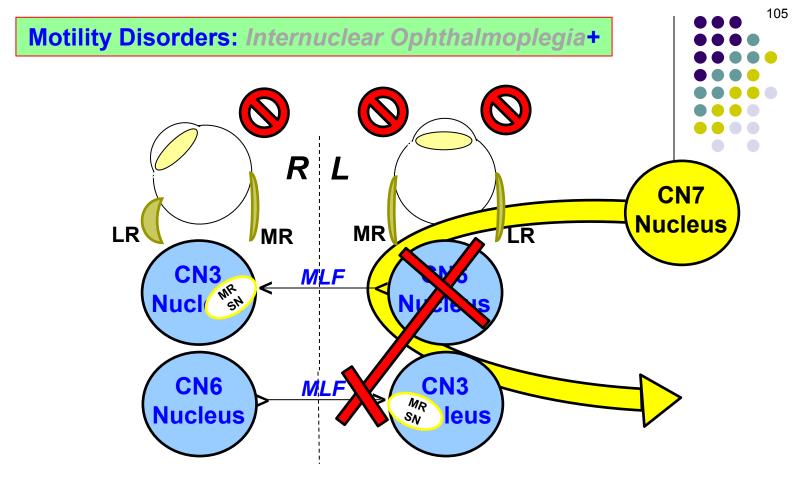
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What is the anatomic relationship that makes this possible?



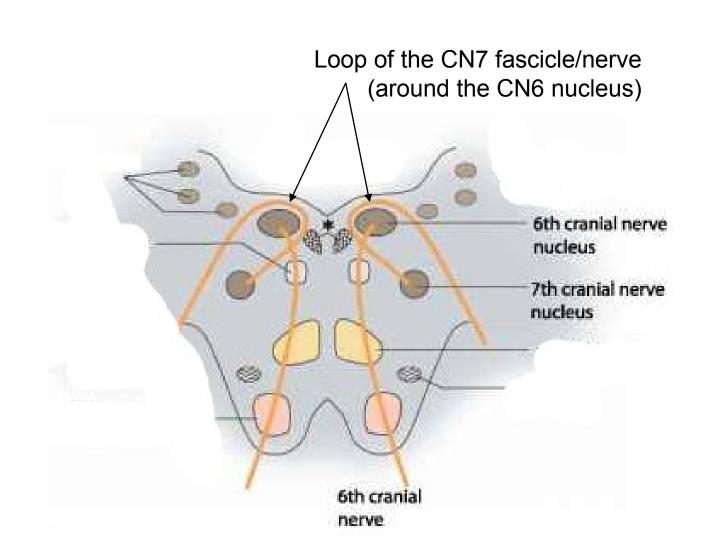
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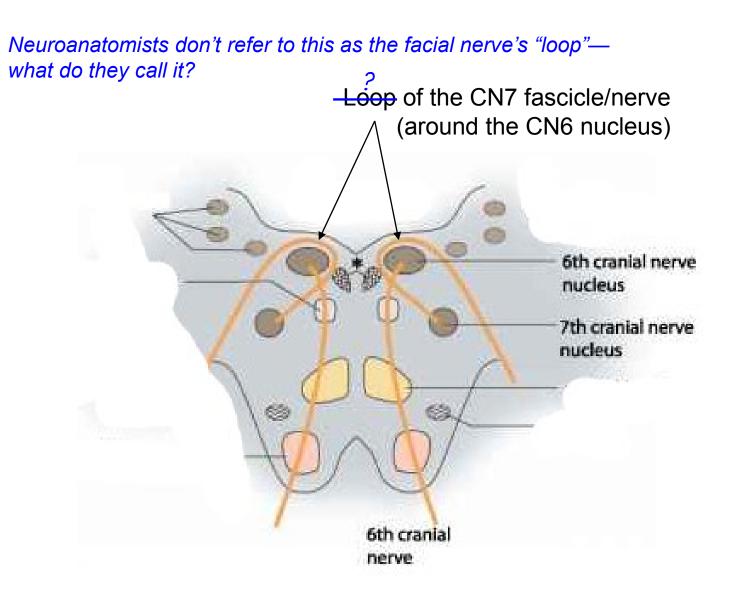


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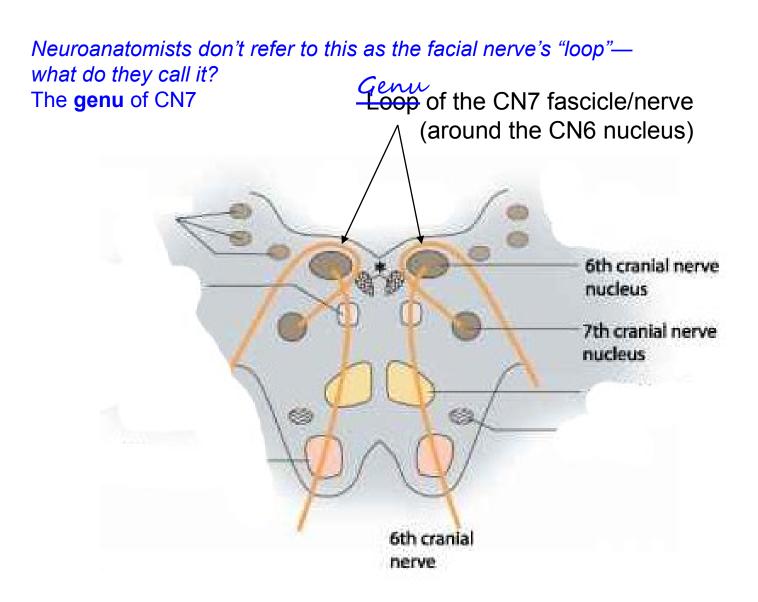
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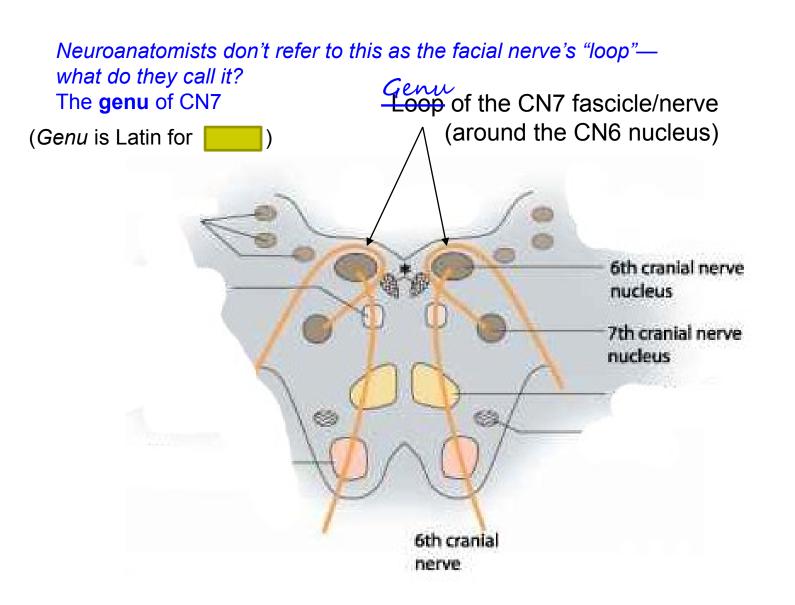




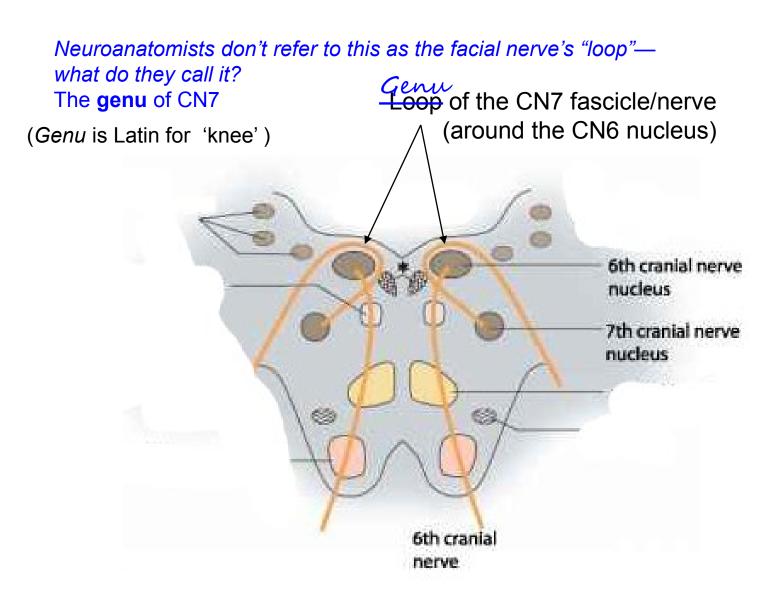






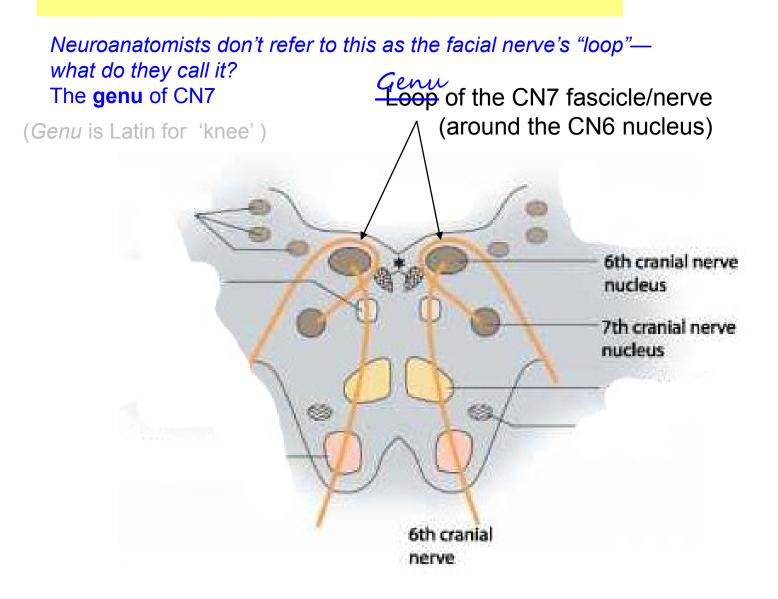




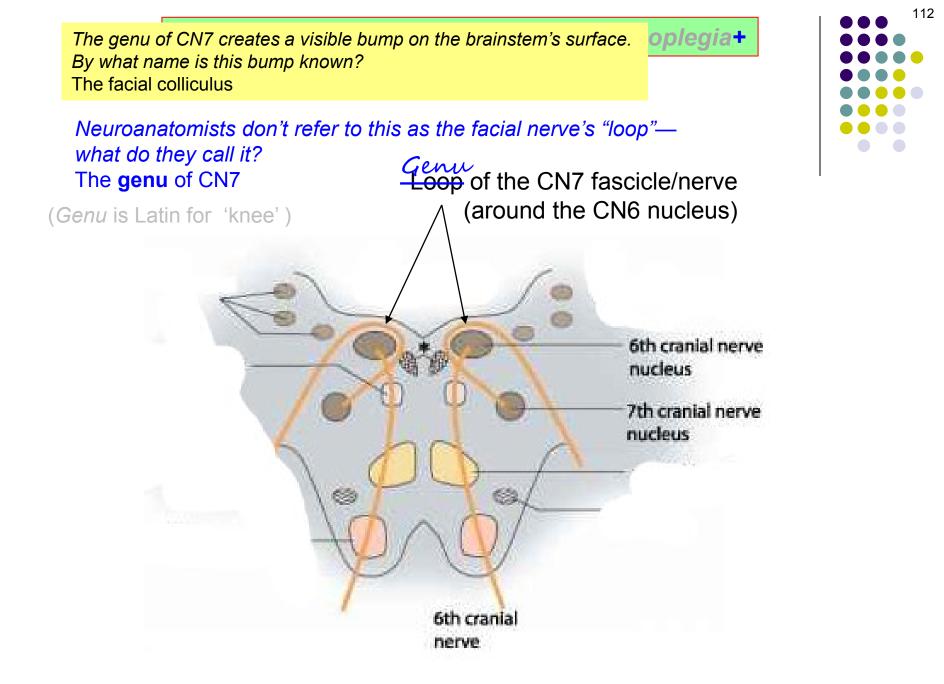


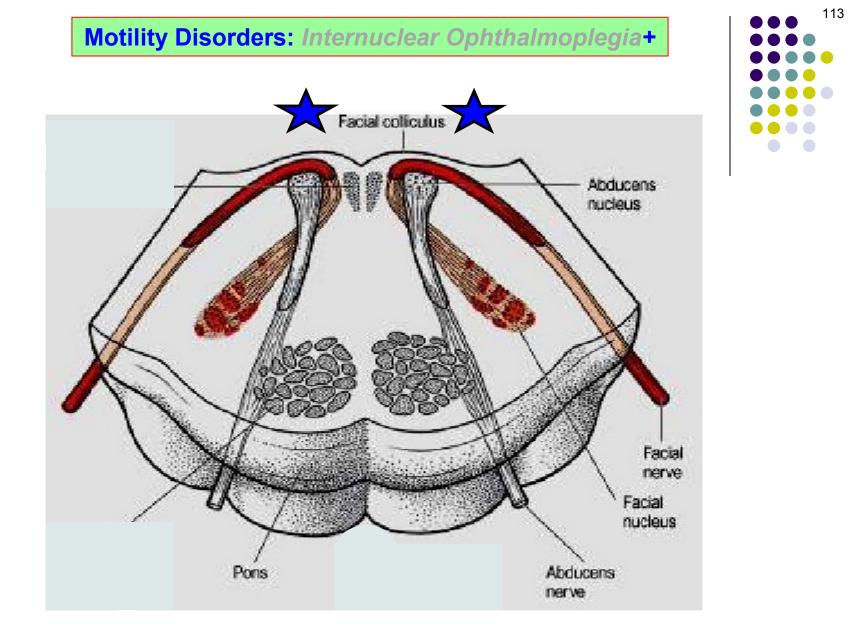


The genu of CN7 creates a visible bump on the brainstem's surface. **oplegia+** By what name is this bump known?

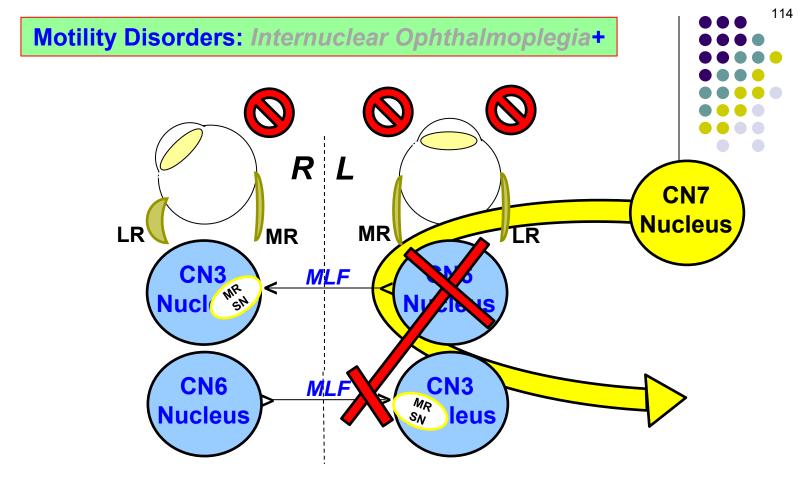


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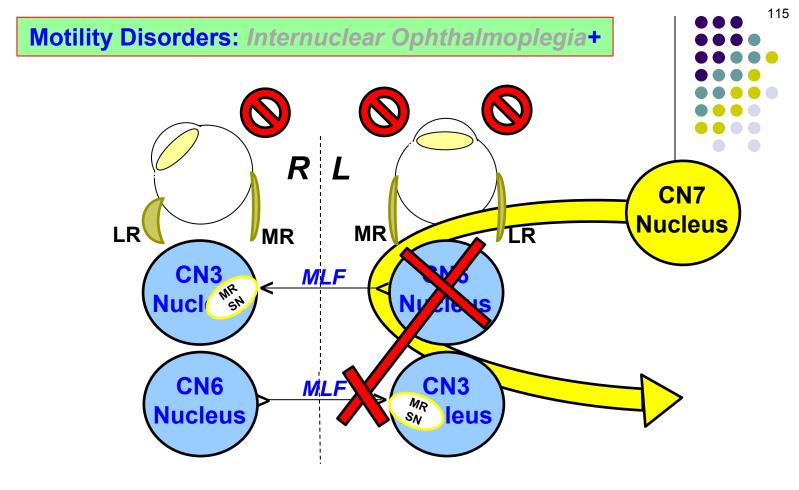
Facial colliculus



In the present context, what is the **eight**-and-a-half syndrome? A clinical condition consisting of a one-and-a-half syndrome *plus*

What is the most common cause of the one-and-a-half and eight-and-a-half syndromes?

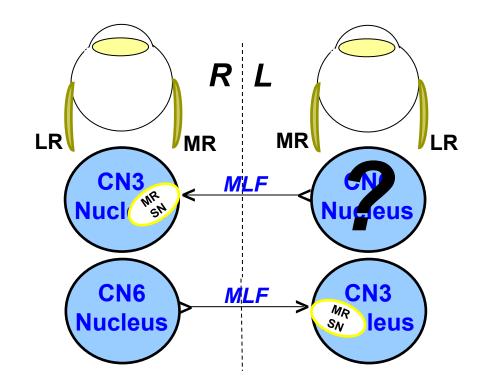
Recall that, after leaving its nucleus, the CN7 fascicle loops around the CN6 nucleus before exiting the brainstem. Thus, any lesion that bags the CN6 nucleus is likely to get the CN7 fascicle as well.



In the present context, what is the **eight**-and-a-half syndrome? A clinical condition consisting of a one-and-a-half syndrome *plus*

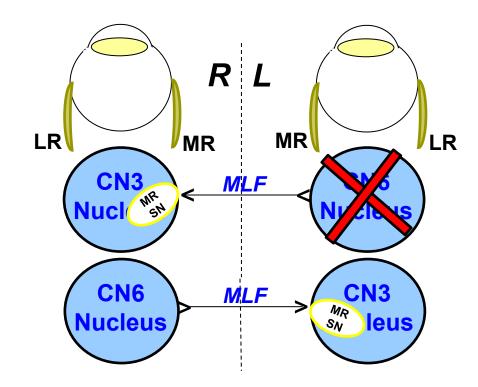
What is the most common cause of the one-and-a-half and eight-and-a-half syndromes? **CVA**

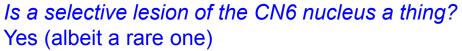
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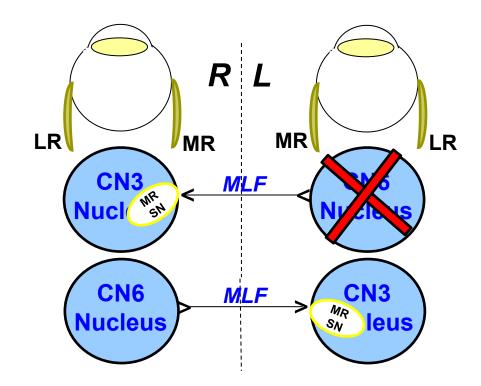
Is a selective lesion of the CN6 nucleus a thing?







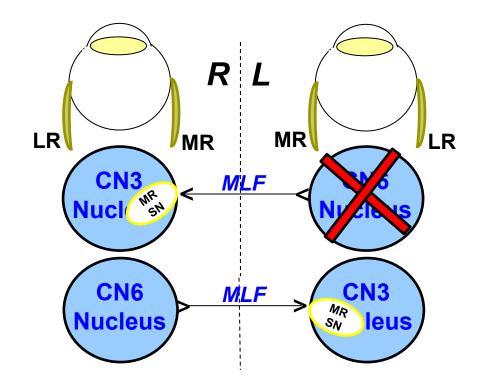






Is a selective lesion of the CN6 nucleus a thing? Yes (albeit a rare one)

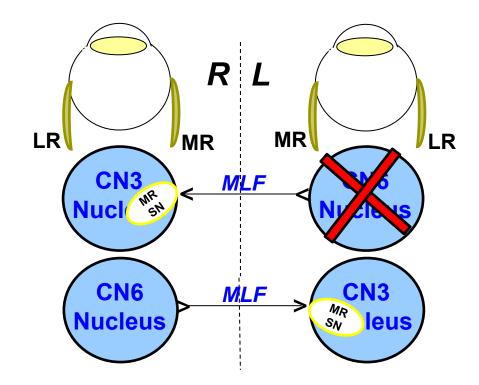
How does it present?





Is a selective lesion of the CN6 nucleus a thing? Yes (albeit a rare one)

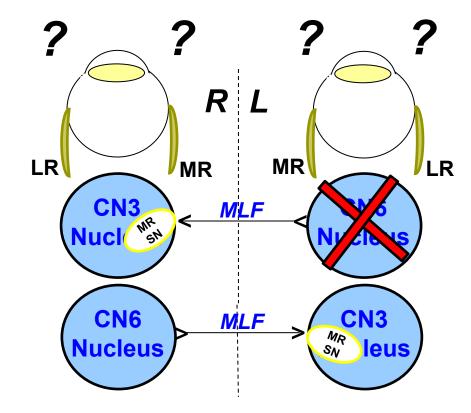
How does it present? As a lateral gaze vs rectus palsy 119





Is a selective lesion of the CN6 nucleus a thing? Yes (albeit a rare one)

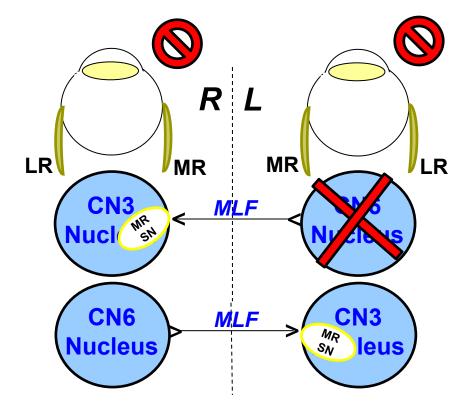
How does it present? As a lateral gaze palsy

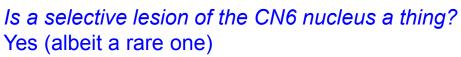




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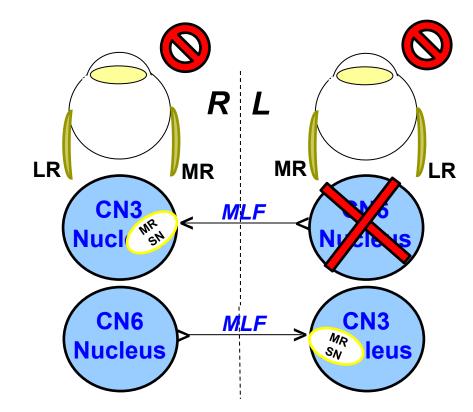
How does it present? As a lateral gaze palsy ^{ipsilateral vs} to the lesion



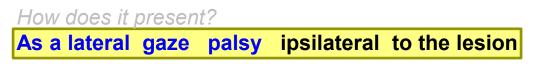


How does it present? As a lateral gaze palsy ipsilateral to the lesion



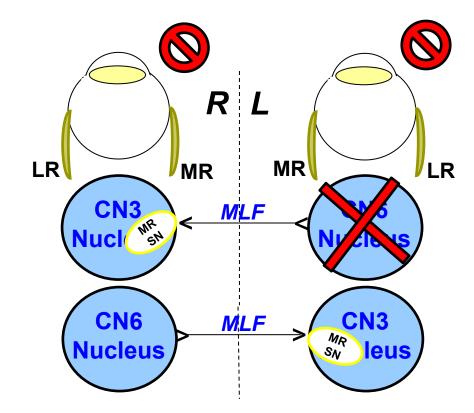






Why does it present as a lateral gaze palsy?.





Is a selective lesion of the CN6 nucleus a thing? Yes (albeit a rare one)

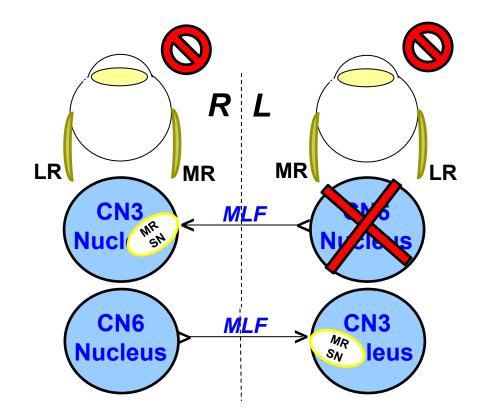
How does it present?

As a lateral gaze palsy ipsilateral to the lesion

Why does it present as a lateral gaze palsy?

Again, it goes back to the CN6 nucleus having half its neurons bound for the ipsilateral LR and half for the contralateral CN3 MR subnucleus





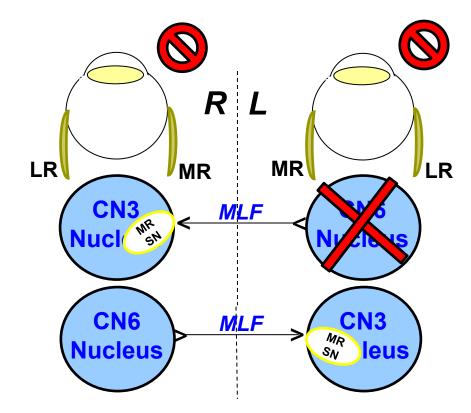
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How does it present?

As a lateral gaze palsy ipsilateral to the lesion

Why does it present as a lateral gaze palsy?

Again, it goes back to the CN6 nucleus having half its neurons bound for the ipsilateral LR and half for the contralateral CN3 MR subnucleus, which means a nuclear CN6 knocks out lateral-gaze input to the ipsilateral LR and medial-gaze input to the contralateral MR, resulting in an ipsilateral gaze palsy.



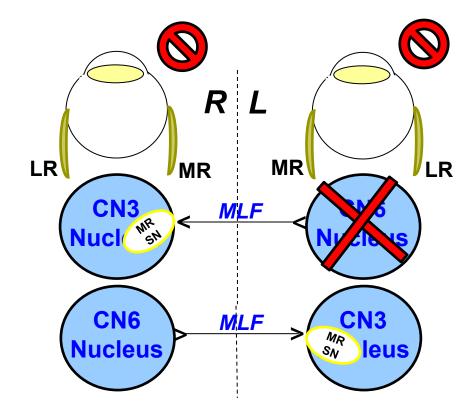
Is a selective lesion of the CN6 nucleus a thing? Yes (albeit a rare one)

How does it present?

As a lateral gaze palsy ipsilateral to the lesion

Why does it present as a lateral gaze palsy?

Again, it goe **Do pts with a nuclear sixth c/o diplopia?** the contralat ipsilateral LR and medial-gaze input to the contralateral MR, resulting in an ipsilateral gaze palsy.



Is a selective lesion of the CN6 nucleus a thing? Yes (albeit a rare one)

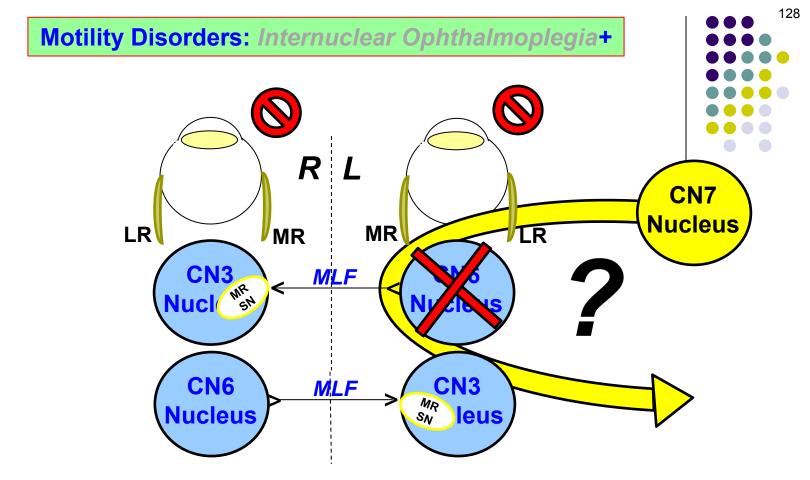
How does it present?

As a lateral gaze palsy ipsilateral to the lesion

Why does it present as a lateral gaze palsy?

Again, it goe *Do pts with a nuclear sixth c/o diplopia?* LR and half for the contralat **Because the effect on gaze is symmetric, diplopia is usually not present** gaze input to the ipsilateral LR and medial-gaze input to the contralateral MR, resulting in an ipsilateral gaze palsy.

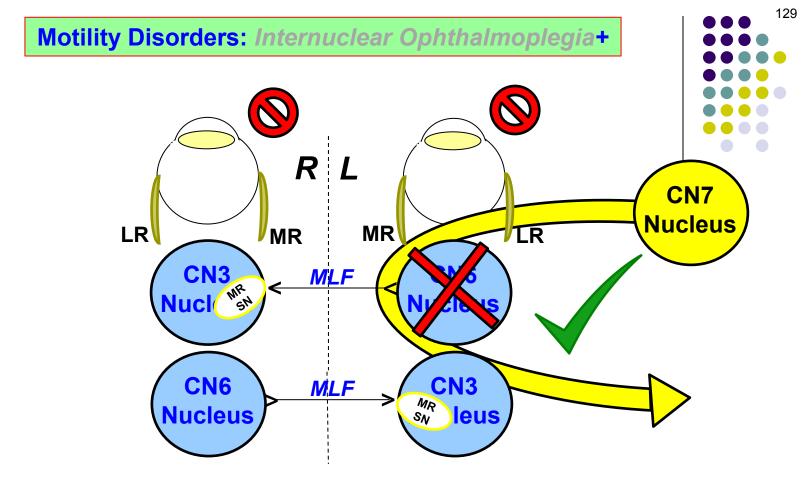




Is a selective lesion of the CN6 nucleus a thing? Yes (albeit a rare one)

How does it present? As a lateral gaze palsy ipsilateral to the lesion

Is a CN6 + CN7 lesion a thing?



Is a selective lesion of the CN6 nucleus a thing? Yes (albeit a rare one)

How does it present? As a lateral gaze palsy ipsilateral to the lesion

Is a CN6 + CN7 lesion a thing? Also yes (and also rare)