then pass through the superior cerebellar peduncle.
- These tracts carry proprioceptive information to the cerebellum for control of posture and movement.

<table>
<thead>
<tr>
<th>Question</th>
<th>Answer</th>
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<tbody>
<tr>
<td>What would be the effect of a unilateral lesion to the dorsal column?</td>
<td>- Loss of fine touch, vibration and proprioception ipsilaterally below the lesion</td>
</tr>
<tr>
<td>What would be the effect of a unilateral lesion to the spinothalamic tract?</td>
<td>- Loss of crude touch, fast pain and temperature sensation below the lesion contralaterally</td>
</tr>
</tbody>
</table>
| What is tabes dorsalis and what are the consequences?                   | - Tabes dorsalis is a degeneration of the dorsal column pathways as a result of untreated syphilis infection.  
  - Main sign is loss of proprioception leading to ataxia.  
  - Vibration and light touch are also affected.                                                                                           |
| Why does MS cause lack of dexterity?                                    | - Damage to the dorsal column pathway (specifically the fasciculus cuneatus) causes loss of proprioception in the hands and fingers                                                                          |
| What is syringomyelia and what are the consequences?                    | - The central canal of the spinal cord is reduced  
  - Decussating second order neurons are anteriorly compressed.  
  - The spinothalamic tract is most affected, causing pain  
  - Other tracts may be involved                                                                                                          |
| What is Brown-Sequard syncrome and what are the consequences?           | - This is a hemisection of the spinal cord. It leads to:  
  - Contralateral spastic paralysis below the lesion  
  - Ipsilateral loss of fine touch, proprioception and vibration sensation below the lesion  
  - Contralateral loss of pain and temperature below the lesion                                                                           |