Fast pain	Slow pain
Occurs upon stimulation of **mechanical** and **thermal** nociceptors.	Occurs upon stimulation of **Polymodal nociceptors** that are sensitive to three types of sensation (Mechanical, thermal and chemical)
Carried by small, **myelinated fibers (Ad)**	Carried by small, **unmyelinated C fibers**
Produces **sharp**, prickling, electric sensation.	Produces dull, aching, burning sensation that is hard to describe
Easily localized.	**Poorly** localized
Occurs **first**	Occurs **second**
Acute and subsides easily	**Chronic** and persists for a longer time
Does **not aggravate.**	Starts as light and bearable pain, then **aggravates** and intensifies.
Neospinothalamic tract	**Paleo**spinothalamic tract
very **few synapses,** less synaptic delay	**greater** synapses & synaptic delay
Termination -terminate in the reticular substance (Less than 25%) -Most terminate in : **ventrobasal complex** of the thalamus (VPL and VPM)	**Termination** -10 to 25 % of the fibers terminate in the thalamus -Most terminate in : 1. 1. **Reticular nuclei** of the brainstem 2. Tectal area of the mesencephalon (midbrain) 3. Periaqueductal gray region/matter
does **not** travel to the **intralaminar nuclei**	project to the **intralaminar nuclei** of the thalamus
go to the somatosensory area of the **cerebral cortex**	Very **few** fibers complete their pathway to the **cerebral cortex**

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