Pokémon–Inspired Cranial Nerve Cards

(Strengths & Weaknesses Emoji Decoder)*

Perhaps better described as "stuff they help us do" and "stuff that might hurt / damage them in some manner", this decoder describes my *intended* meaning behind each of the <u>strengths</u> and <u>weaknesses</u> emojis; however, there are numerous ways to interpret them if you are feeling creative. Enjoy!

Olfactory Nerve (CN I)

Strengths

- * = smelling beautiful flowers
- 🝿 = smelling delicious food

Weaknesses

- 💩 = smelling not so lovely smells

Optic Nerve (CN II)

Strengths

- Spatial and temporal resolution

<u>Weaknesses</u>

- \neq = bright light \rightarrow burning retinas
- ⁶⁹ = optic neuritis → sometimes linked to infections like Lyme disease

Oculomotor Nerve (CN III)

Strengths

- ^{cond} = rolling the eyes → innervating 5 out of 7 extraocular muscles
- opening the eyes wide thanks to levator palpebrae superioris (+ imagine pupil constriction & ciliary muscle activity)

<u>Weaknesses</u>

- 🥶 = trauma (usually involving moderate to severe head injuries)
- susceptibility to compression by saccular (a.k.a., berry) aneurysms

Trochlear Nerve (CN IV)

Strengths

- = secondary action of superior oblique → depression

Weaknesses

- $\mathscr{I} =$ mutations leading to a neoplasm

Trigeminal Nerve (CN V)

<u>Strengths</u>

- \Leftrightarrow = chewing \rightarrow muscles of mastication

<u>Weaknesses</u>

- **!?** = idiopathic trigeminal neuralgia
- head trauma or acoustic neuroma... your choice!

Abducens Nerve (CN VI)

Strengths

<u>Weaknesses</u>

- susceptibility to elevated intracranial pressure due to its lengthy intracranial path
- **•** = inflammatory conditions or lesions

Facial Nerve (CN VII)

Strengths

- ⁽²⁾ = making silly faces → muscles of facial expression
- 🐱 = carrying taste sensation from the anterior 2/3 of the tongue

<u>Weaknesses</u>

- = viral infection affecting CN VII leading to facial paralysis
- ► = damage during surgery → at risk during some common cosmetic and otolaryngologic procedures

Vestibulocochlear Nerve (CN VIII)

Strengths

- 4 = sensing balance and equilibrium
- \square = hearing melodious music

<u>Weaknesses</u>

- The displacement of the calcium carbonate crystals (statoconia), such as in benign paroxysmal positional vertigo
- Investigation in the second se

Glossopharyngeal Nerve (CN IX)

Strengths

- S = referencing some of the roles of CN IX when taking a pill, such as salivation and taste + general sensation from posterior 1/3 of tongue
- Innervating stylopharyngeus and this feather *vaguely* reminded me of stylopharyngeus from a retropharyngeal view... or I was running out of emojis!

<u>Weaknesses</u>

- > = inflammatory diseases + oropharyngeal and tonsillar infections

Vagus Nerve (CN X)

<u>Strengths</u>

- ▲ = substantial involvement in parasympathetic nervous system → "rest and digest / feed and breed"
- 💬 = innervating all intrinsic laryngeal muscles for phonation

<u>Weaknesses</u>

- extreme heat (or anxiety, stress, etc.) leading to vasovagal syncope
- ■ stay with me... unstable blood glucose → hyperthyroidism / Graves' disease → thyroidectomy → possible recurrent laryngeal nerve damage

Accessory Nerve (CN XI)

<u>Strengths</u>

- b = supporting the upper extremities
 via the shoulder girdle → trapezius
- = rotating head to the contralateral side → sternocleidomastoid

<u>Weaknesses</u>

- % = surgical or diagnostic procedures (e.g., neck dissections & biopsies)
- A = whiplash injuries (e.g., motor vehicle accidents)

Hypoglossal Nerve (CN XII)

<u>Strengths</u>

- Icking ice cream (CN XII reigns supreme in the world of ice cream!)
- ♀ = protruding the tongue → genioglossus; frequently used to test CN XII during a neurological exam

<u>Weaknesses</u>

- Image: some abnormalities in the base of the skull or intracranial tumours
- = rare complications from dental procedures involving nerve blocks