

Abductor Pollicis Brevis, Bilateral Congenital Aplasia

I counted two cases of bilateral congenital Aplasia of the abductor pollicis brevis (APB) in the medical literature. Thus, this presentation could be the third. Here, the APB and the opponens pollicis were completely absent in both hands. In contrast, the adductor pollicis and the flexor pollicis brevis were quite present. Many papers concerning this anomaly were published. But all were of unilateral congenital absence of APB.

The patient is a young male with no thenar eminence in both hands. There was no other congenital anomaly elsewhere. He did well in every daily job. He sought medical care just to know why his hands looked different from the others. I did nothing but assuring him and explaining the nature of his case; [Figure \(1\)](#).



[Figure \(1\)](#)

[Bilateral Congenital Aplasia of Abductor Pollicis Brevis.](#)

The thenar eminences were flattened in both hands.

The anomaly was isolated without any major consequences on the hand capability.

The thumbs and the rest of both hands were sensible and very well active.



















The abduction of both thumbs has a little bit reduced but with no major consequence.

I was waiting the patient to come back with the MRI and the EMG for his both hands. So, I delayed the publication of this paper for many months. Unfortunately, the patient has never come back again after, maybe, he was ascertained of the banality of







his anomaly. The absence of both the APB and Opponens muscle, and the presence of the Adductor muscle, have been determined by the physical examination. Similarly, the presence of Flexor Pollicis Brevis was determined by the stability of the first metacarpophalangeal joint.






















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In another context, one can also read:





-  [Neural Conduction, Personal View vs. International View \(Innovated\)](#)
-  [Upper Motor Neuron Lesions, Pathophysiology of Symptomatology](#)
-  [Neural Conduction, Action Pressure Waves \(Innovated\)](#)
-  [Neural Conduction, Action Potentials \(Innovated\)](#)
-  [Neural Conduction, Action Electrical Currents \(Innovated\)](#)
-  [The Function of Action Potentials \(Innovated\)](#)
-  [The Three Phases of Neural Conduction \(Innovated\)](#)
-  [Neural Conduction in the Synapse \(Innovated\)](#)
-  [Sensory Receptors](#)
-  [Nodes of Ranvier, the Equalizers \(Innovated\)](#)
-  [Nodes of Ranvier, the Functions \(Innovated\)](#)
-  [Nodes of Ranvier, First Function \(Innovated\)](#)
-  [Nodes of Ranvier, Second Function \(Innovated\)](#)
-  [Nodes of Ranvier, Third Function \(Innovated\)](#)
-  [Node of Ranvier The Anatomy](#)
-  [The Philosophy of Pain, Pain Comes First! \(Innovated\)](#)
-  [The Philosophy of the Form \(Innovated\)](#)
-  [Spinal Injury, Pathophysiology of Spinal Shock, Pathophysiology of](#)

Hyperreflexia

-  [Who Decides the Sex of Coming Baby?](#)
-  [Spinal Shock \(Innovated\)](#)
-  [The Clonus \(Innovated\)](#)
-  [Hyperactivity Hyperreflexia \(Innovated\)](#)
-  [Hyperreflexia, Extended Sector of Reflex](#)
-  [Hyperreflexia, Bilateral Responses](#)
-  [Hyperreflexia, Multiple Responses](#)
-  [Nerve Conduction Study, Wrong Hypothesis is the Origin of the Misinterpretation \(Innovated\)](#)
-  [Wallerian Degeneration \(Innovated\)](#)
-  [Neural Regeneration \(Innovated\)](#)
-  [Wallerian Degeneration Attacks Motor Axons, While Avoids Sensory Axons](#)
-  [Barr Body, the Whole Story \(Innovated\)](#)
-  [Boy or Girl, Mother Decides!](#)
-  [Adam's Rib and Adam's Apple, Two Faces of one Sin](#)
-  [The Black Hole is a \(the\) Falling Star?](#)
-  [Adam's Rib, could be the Original Sin?](#)
-  [Pronator Teres Syndrome, Struthers Like Ligament \(Innovated\)](#)
-  [Function of Standard Action Potentials & Currents](#)
-  [Posterior Interosseous Nerve Syndrome](#)
-  [Spinal Reflex, New Hypothesis of Physiology](#)
-  [Hyperreflexia, Innovated Pathophysiology](#)

-  [*Clonus, 1st Hypothesis of Pathophysiology*](#)
-  [*Clonus, 2nd Hypothesis of Pathophysiology*](#)
-  [*Clonus, Two Hypotheses of Pathophysiology*](#)
-  [*Hyperreflexia \(1\), Pathophysiology of Hyperactivity*](#)
-  [*Hyperreflexia \(2\), Pathophysiology of bilateral Responses*](#)
-  [*Hyperreflexia \(3\), Pathophysiology of Extended Hyperreflex*](#)
-  [*Hyperreflexia \(4\), Pathophysiology of Multi-Response Hyperreflex*](#)
-  [*Barr Body, the Second Look*](#)
-  [*Mitosis in Animal Cell*](#)
-  [*Meiosis*](#)
-  [*Universe Creation, Hypothesis of Continuous Cosmic Nebula*](#)
-  [*Circulating Sweepers*](#)
-  [*Pneumatic Petrous, Bilateral Temporal Hyperpneumatization*](#)
-  [*Ulnar Nerve, Congenital Bilateral Dislocation*](#)
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-  [*Presacral Schwannoma*](#)
-  [*Congenital Bilateral Thenar Hypoplasia*](#)

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