

## Hyperdense middle cerebral artery sign

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### Summary

A 75 years old male patient, known case of hypertension and diabetes, presented to a rural hospital with the history of left sided weakness of 3 hours duration associated with facial deviation. Plain CT of head revealed increased density of right middle cerebral artery (MCA) – the hyperdense MCA sign (Panel A). There was associated hypoattenuation of right basal ganglia, insular ribbon sign and cortical swelling (Panel B). Patient was referred to a comprehensive stroke center due to lack of facility of thrombolysis or thrombectomy. Patient was intubated for drop in Glasgow Coma Scale to 7. Repeat CT head 8 hours after the initial scan showed persistence of hyperdense MCA sign (Panel C), infarction of right MCA territory and midline shift (Panel D). All the findings are indicated by arrows in the images. Patient underwent decompressive craniectomy followed by gradual recovery. Presence of hyperdense MCA sign is highly specific for obstruction of middle cerebral artery<sup>1,2</sup>.

### References

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2. Jensen-Kondering U, Riedel C, Jansen O. Hyperdense artery sign on computed tomography in acute ischemic stroke. *World J Radiol* 2010;2:354-7.

