

RADIOLOGICAL INVESTIGATIONS AND AETIOLOGY OF 3RD CRANIAL NERVE PALSIES AT THE MANCHESTER ROYAL EYE HOSPITAL

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Third nerve palsies (TNPs) are caused by a variety of aetiologies, the most common is microvascular ischaemia, and the most dangerous is an aneurysm that could rupture. To deduce the aetiology of a TNP, certain investigations must be performed including neuroimaging techniques like CT scans, CT angiographies, and MRI scans. A literature review was performed to explore the existing neuroimaging techniques, and what aetiologies existed for TNPs. In this audit we identified 20 patients that presented to the Emergency Eye Department at the Manchester Royal Eye Hospital with a TNP, between January and June of 2021. We determined what proportion of the patients were managed appropriately by following local protocols and adhering to the appropriate timeframes. The types of neuroimaging mentioned in the protocol, and the aetiologies of the TNPs were compared to what exists in the literature. Finally, we explored ways potentially improve patient care for future TNP patients.