Tip of the Month

Consider additional 10-2 visual field testing for diagnosing glaucoma, as limiting to 24-2 or 30-2 tests will frequently miss or underestimate paracentral field defects

The Science behind the Tip\textsuperscript{1,2}

It is well-established that damage to macular retinal ganglion cells (RGCs) occurs early in glaucoma\textsuperscript{1}. Not testing for this damage may miss glaucoma with paracentral visual field defects. In a prospective study, 62\% of eyes with early glaucoma and a normal 24-2 test had an abnormal 10-2 test based on cluster criteria\textsuperscript{2}. Furthermore, 40\% of glaucoma suspect eyes and 35\% of ocular hypertensive eyes that were classified as normal on 24-2 testing had abnormal 10-2 tests\textsuperscript{2}. Only two of the 24-2 or 30-2 test locations fall within “macular vulnerability zone” – the highly susceptible part of the inferior macula associated with superior paracentral field defects\textsuperscript{1}.

References


Contributor: Anthony Khawaja, United Kingdom