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Service (sector) Tumor and Pathology N° CEP

**Comparison of artificial eye amplitudes with porous polyethylene spherical and quad-motility enucleation implants.**

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Purpose: To compare artificial eye amplitudes in patients who randomly received a porous polyethylene either spherical or quad-motility implant after enucleation.

Methods: Prospective randomized trial. Digital photos were taken in 21 patients who had randomly received either spherical (11 patients) or quad-motility implant (10 patients). The interval from surgery to measurements was at least 3 months in all patients. The software Scion Image analyzed the extension of the horizontal and vertical excursions of the artificial eye. The measurements (height, length and thickness) and the weight of the 21 artificial eyes were also analyzed.

Results: Artificial eye amplitude did not differ significantly between both orbital implants. Height and length of the 21 artificial eyes are similar but the artificial eyes with quad-motility are thicker ( $p < 0.001$ ) and heavier ( $p = 0.001$ ) than the artificial eyes with spherical implants.

Conclusion: Similar amplitude of movement of the artificial eye was observed with orbital implants: spherical and quad-motility.