

Optimal Optic Nerve Protection

R-Evolution™ CR has a proprietary algorithm and a patented system able to calculate in real time the perfusion pressure of the optic nerve and suggest the best infusion pressure in order to guarantee the utmost optic nerve and retina protection.



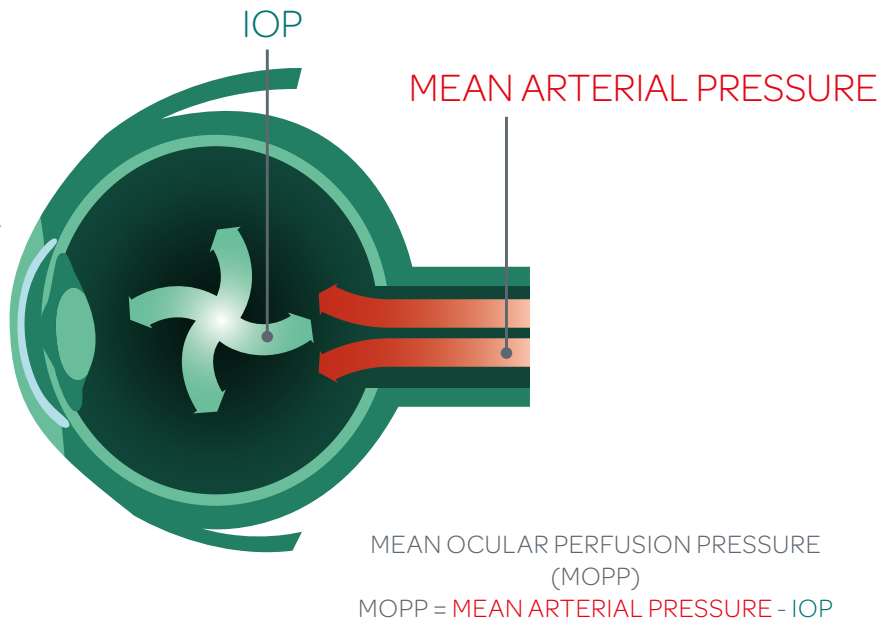
Real Time Mean Arterial Pressure Monitoring

ANGel™ allows R-Evolution™ CR to measure the patient mean arterial pressure and, since the infusion pressure is known, calculates the ocular perfusion pressure.

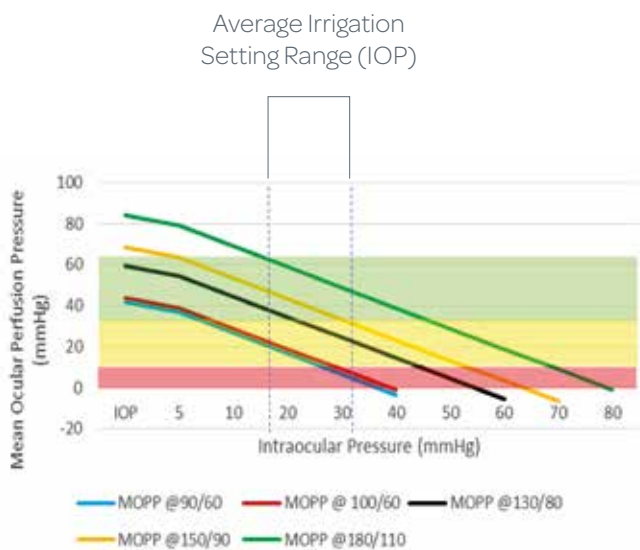
Consistent and constant blood flow to the optic nerve is guaranteed for a safe retinal surgery.

CONTINUOUS MONITORING OF OCULAR PERFUSION

Knowing the arterial systolic and diastolic blood pressure and the intraocular pressure makes it possible to detect the perfusion pressure of the optic nerve (MOPP).



RELATIONSHIP BETWEEN MEAN OCULAR PERFUSION PRESSURE AND INTRAOCULAR PRESSURE



The chart shows the values of the Mean Ocular Perfusion Pressure (MOPP) and Intraocular Pressure (IOP) in five patients with different systolic and diastolic pressure.

Three coloured areas are visible:

- green area: proper perfusion of retinal vessels (MOPP \geq 35mmHg)
- yellow area: blood circulation in retina gradually decreases (MOPP < 35mmHg)
- red area: perfusion stops (MOPP < 10mmHg)

* Courtesy of Tommaso Rossi, MD, IRCCS San Martino Hospital, Genoa

