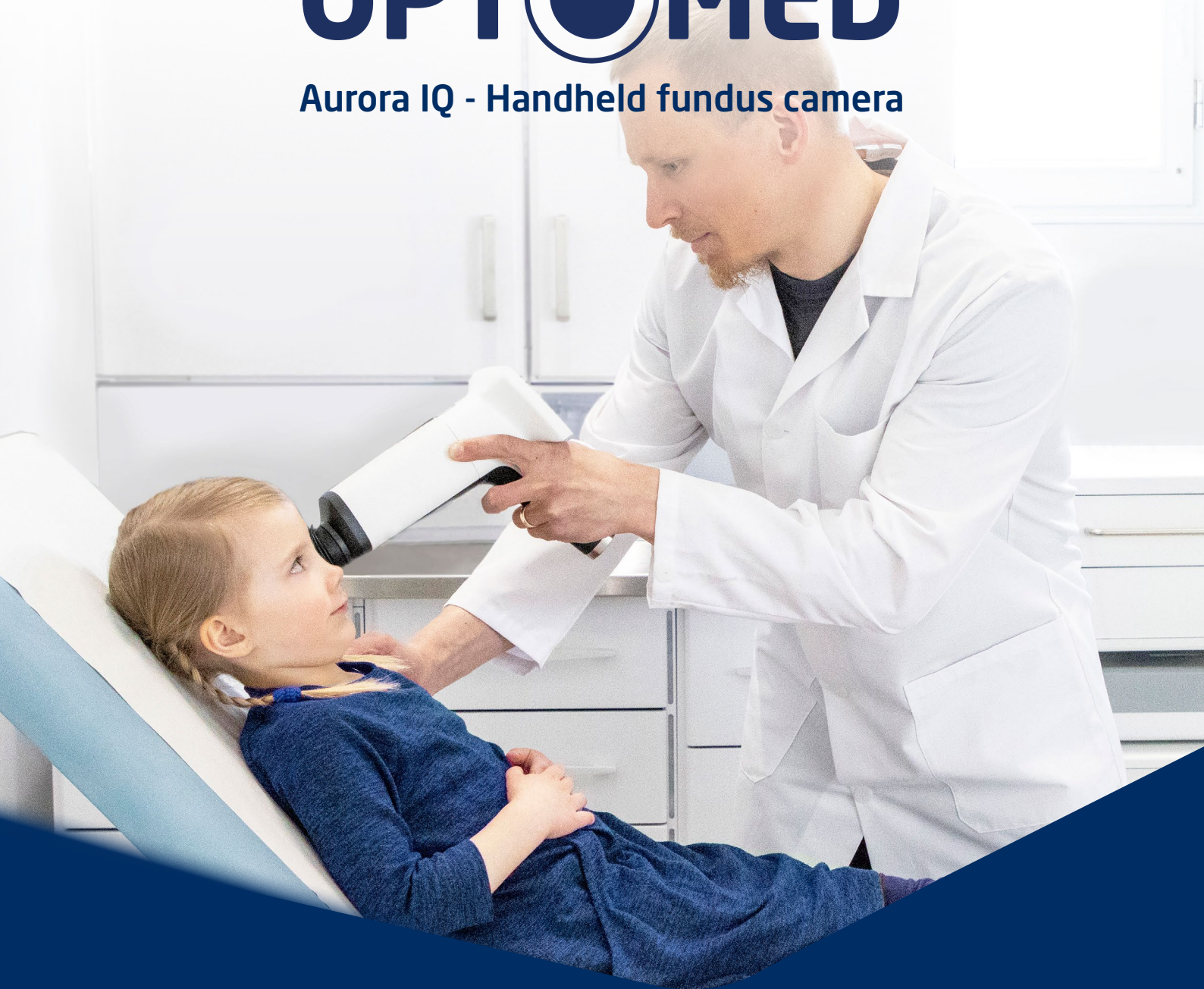


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Aurora IQ - Handheld fundus camera

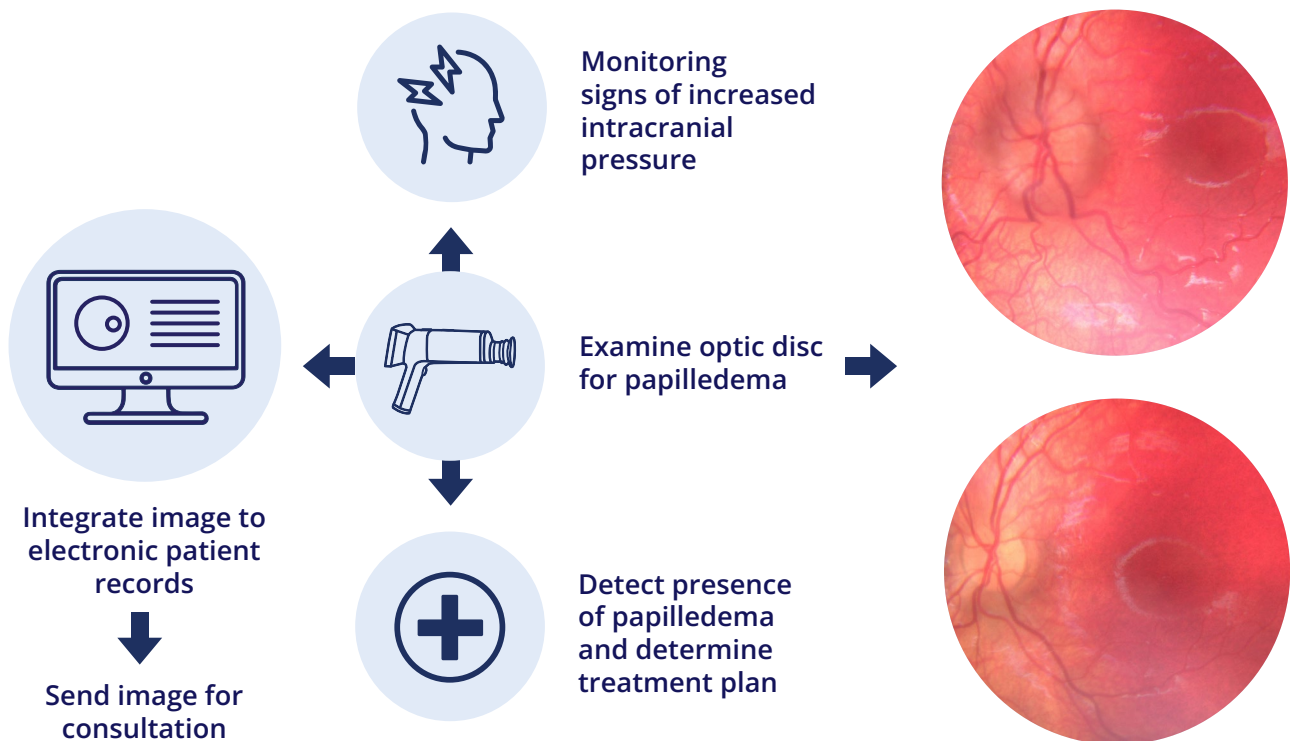


**Improving Fundus Examination
in Neurology**

Examine retinal changes quickly and improve papilledema detection

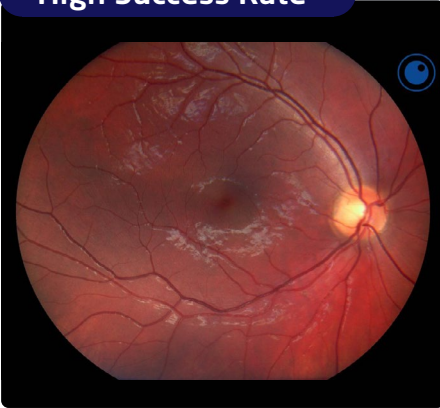
- Examining ocular fundus of all emergency department patients with headache, other neurological deficit or diastolic pressure over 120 mmHg is important to rule out more severe underlying cause^{1,2}
- Identification of papilledema by non-invasive ocular fundus examination can lead to vision- and life-saving interventions³
- Non-mydriatic fundus photography is an effective and reliable tool to detect acute neurological conditions in many non-ophthalmology settings without sending the patient to neuroimaging⁴⁻⁶

Using a handheld fundus camera to detect papilledema



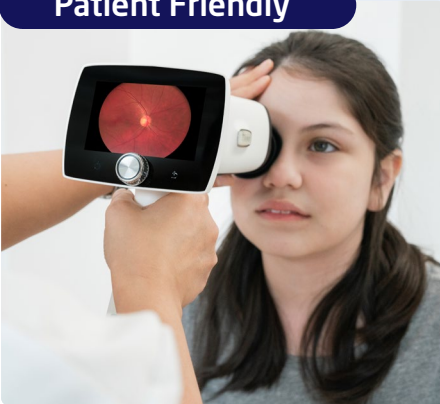
Benefits of using Aurora IQ fundus camera in neurology

High Success Rate



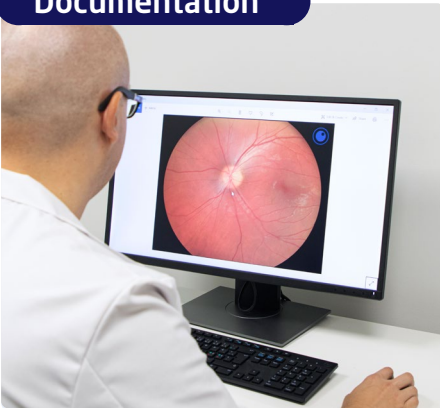
- No need to dilate pupil – saves time and enables monitoring of pupil reactivity
- Photographs can be reliably taken by non-physician staff⁶
- Success rate of 93% for handheld fundus camera compared to 58% for direct ophthalmoscopy in neurology emergency patients⁷
- Increased certainty in fundus examination allows better clinical decisions and patient management⁸

Patient Friendly



- Handheld operation enables bedside examination of patients unable to sit up
- No need for uncomfortable pupil dilation
- No continuous light to the eye
- No need to re-examine fundus since image can be re-analyzed

Documentation



- Fundus image can be saved to electronic medical records
- Allows ophthalmology consulting
- Enables follow-up of treatment progress
- Thorough review of fundus image on a computer screen

Optomed Aurora IQ[®] Specifications



Automatic imaging settings

- Autofocus and autoexposure

Portable

- Weight 853 g

Rechargeable battery

- Over 2hrs capacity

Non-mydriatic

- Minimum pupil size 3.1 mm
- 50 degrees field of view

Connectivity

- WLAN and USB

Data management

- JPEG image transfer
- DICOM/PACS connectivity
- Worklist modality

For complete technical specifications and more on our fundus camera for neurology, please visit www.optomed.com

References

1. Lamirel C, Bruce BB, Wright DW, Delaney KP, Newman NJ, Biousse V. Quality of nonmydriatic digital fundus photography obtained by nurse practitioners in the emergency department: the FOTO-ED study. *Ophthalmology*. 2012 Mar;119(3):617-24.
2. Bruce BB, Thulasi P, Fraser CL, Keady MT, Ward A, Heilpern KL, Wright DW, Newman NJ, Biousse V. Diagnostic accuracy and use of nonmydriatic ocular fundus photography by emergency physicians: phase II of the FOTO-ED study. *Ann Emerg Med*. 2013 Jul;62(1):28-33.e1.
3. Mackay DD, Garza PS, Bruce BB, Newman NJ, Biousse V. The demise of direct ophthalmoscopy: A modern clinical challenge. *Neurol Clin Pract*. 2015 Apr;5(2):150-157.
4. Thulasi P, Fraser CL, Biousse V, Wright DW, Newman NJ, Bruce BB. Nonmydriatic ocular fundus photography among headache patients in an emergency department. *Neurology*. 2013 Jan 29;80(5):432-7.
5. Fisayo A, Bruce BB, Newman NJ, Biousse V. Overdiagnosis of idiopathic intracranial hypertension. *Neurology*. 2016 Jan 26;86(4):341-50.
6. Pérez MA, Bruce BB, Newman NJ, Biousse V. The use of retinal photography in nonophthalmic settings and its potential for neurology. *Neurologist*. 2012 Nov;18(6):350-5.
7. Alm M, Hautala N, Bloigu R, Huhtakangas J. Comparison of optic disc evaluation methods in neurology emergency patients. *Acta Neurol Scand*. 2019 Dec;140(6):449-451.
8. Dunn HP, Browning SD, Thomson D, Yates WB, McCluskey P, Keay L, White AJ, Fraser CL. Impact on patient management of non-mydratric fundus photography compared to direct ophthalmoscopy in a regional Australian emergency department. *Emerg Med Australas*. 2021 Aug 27.

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