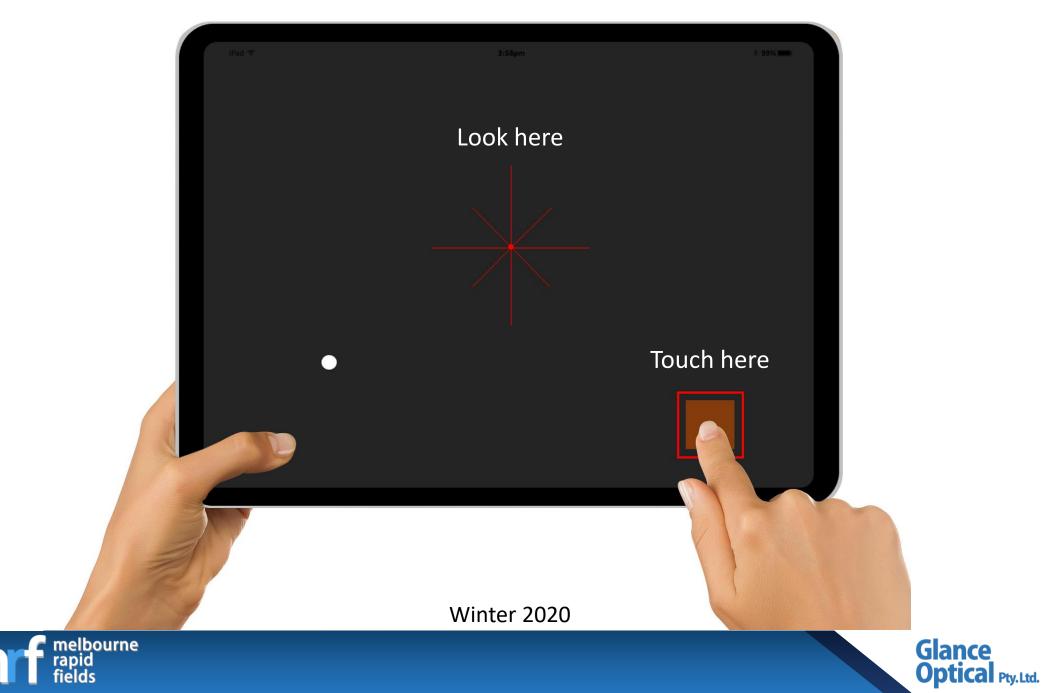
Changing the paradigm of vision testing



Using modern technology

Melbourne Rapid Fields (MRF) is meticulously designed to perform vision and visual field testing on a tablet PC, Windows PC or Mac.







At-home



On the go



Voice prompts enable your patients to test at-home. View their results online

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Perform perimetry and neurological testing in your consulting room

Take the world's first portable perimeter wherever you go



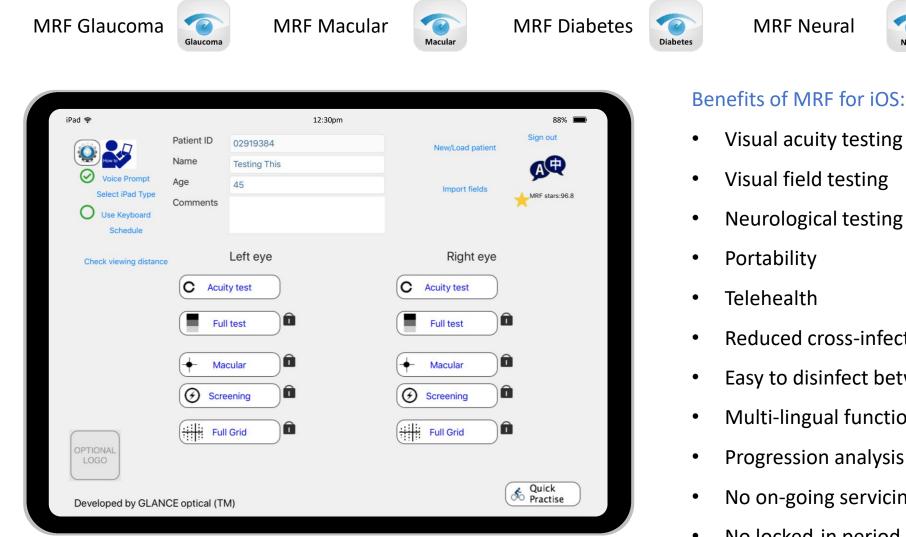


MRF for iOS



Vision testing in your palm

Conduct vision testing with our 4 easy-to-use apps:



*Compatible with iPad 3 or newer. Apps can be downloaded from the Apple App Store. Each app includes 5 free tests.

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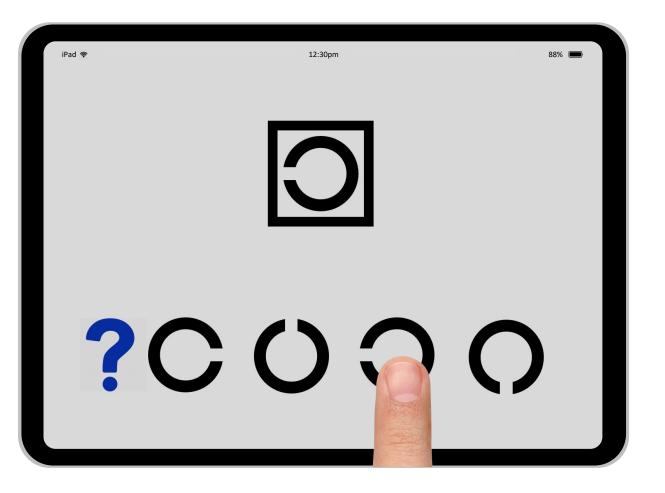
Neural

- Visual acuity testing
- Visual field testing
- Neurological testing

- Reduced cross-infection risk
- Easy to disinfect between patients
- Multi-lingual functions
- **Progression analysis**
- No on-going servicing fees
- No locked-in period



Discover more with visual acuity



Procedure

- 1. Cover one eye
- 2. On the bottom row, tap on the orientation of the C in the box
- 3. If unsure, tap ?

Optotypes



High contrast acuity (standard acuity test)



Low luminance, low contrast (macular disease)

Acuity in noise

(amblyopia, stroke and other suspected brain anomalies)

Note

Low luminance, low contrast acuity and acuity in noise are available in MRF Diabetes, MRF Neural, and MRF Macular apps.





Probing attention or hemi-spatial neglect



Neglect test

Identifies a deficit in attention to one side of the visual field, following neurological insult such as stroke or brain injury.

Procedure

- 1. Performed binocularly
- 2. Tap the 'frowning faces' to turn them into 'smiley faces'
- Time taken for 17 correct responses is recorded for each eye Hemi-spatial neglect index (HSN) is R-L time normalised to the fastest eye

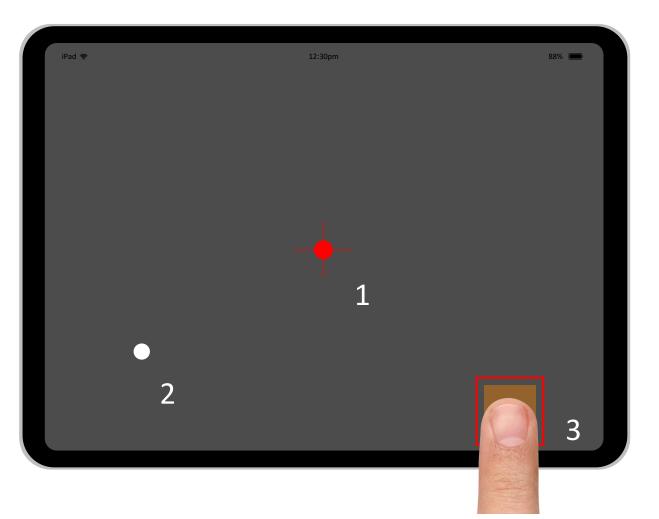
Note

The neglect test is a feature of the MRF Neural app.

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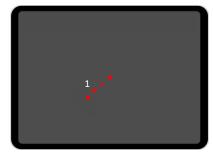
A fast, validated, visual field test

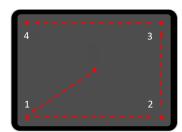


Test procedure

- 1. Patient looks at central fixation target
- 2. White/grey spots flash in the periphery
- Patient taps on "touch zone" when a light is detected (can tap spacebar if optional Bluetooth keyboard is connected or left click if using Bluetooth mouse)

Fixation





iPad 12.9" One fixation change 2.5 - 3 mins per eye (Full Test)

iPad 9.7", 10.5", 11" Four fixation changes 4 - 5 mins per eye

Note

Programmed voice prompts can be enabled to guide patient through exam. Available languages: English, Mandarin, Cantonese, Dutch, French, Italian, Greek, Spanish, Portuguese, Vietnamese and Hindi.





Results given in familiar formats

		Exemplar	results			
iPad ♥ 12:30pm Single Field Analysis - MRF Name: Glance Optical ID:001 Central 24-2 Radial Threshold Test	88% 📼	Early AMD Numeric plot	Grey scale	Total deviation	Pattern deviation	FP: 0/8 (0%) FN: 0/8 (0%)
Fixation Monitor: Blind Spot Stimulus: White Fixation Target: Central Device: 12.9 inch iPad Pro Fixation Losses: 0/8 (0%) Strategy: ZEST False POS Errors: 0/8 (0%) F/T:30 False NEG Errors: 0/8 (0%) F/T:30 Test Duration: 3m13s Strategy: 2EST	Date: 19 May 2020 Time: 12:00pm 50yo	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	-			Test time: 2m47s MD: -4.01 PD: 6.79 VC: 85.93%
30 30 30		Moderate AN	ND .			
30 30 30 30 30 Gray scale 30 30 30 30 30 30 30		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	and the second			FP: 0/8 (0%) FN: 2/8 (25%) Test time: 3m5s
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-			MD: -7.49 PD: 5.89 VC: 73.90%
		Mild Clause	man a secol stars	-	-	
30 30 30 30 30 30 30 30			ma: nasal step			FP: 1/8 (12%)
30 30 30 30 30 30		36 76 76 76 76 76 76 36 78 78 78 78 78 78 78 36 78 78 78 78 78 78	100			FN: 0/8 (0%) Test time: 3m59s
Total dev 30 30 30 Pattern dev		34 36 57 39 39 30 30 30 30 30 30 30 30 30 30 30 30 30		<6% 	•	MD: -1.05 PD: 3.94
		30 30 30	_	· · · ·	i i i i i i i i i i i i i i i i i i i	VC: 98.57%
· · · · • • · · · · • • · · · • • · · · · •	_	Advanced G	laucoma: <i>bi-arc</i>	cuate		
·····	VC: 100.00%	50 0 0 6 30 30 30 30 30 30	- 10 March 10			FP: 0/8 (0%)
	MD: 0.16 MRF MD: 0.40	30 30 30 30 30 30 30 30 30 30 30 30 30 3	1.0	· · · · · · · · · · ·	· · · · · · · · · · · · ·	FN: 0/8 (0%) Test time: 5m53s
· · · · · · · · · · · · · · · · · · ·	PD: 0.00	8 20 30 30 20 30 0 0 30 30 30 30 30 30 0 0	1000			MD: -10.29
		20 0 0 0 0 0 0 0				PD: 12.11 VC: 71.25%
					-	

Reliability indices

- False positive rate
- False negative rate

fields

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• Fixation loss

Global indices

- Mean deviation
- Pattern deviation
- Visual capacity

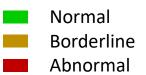
Pointwise

- Grey scale
- Total deviation
- Pattern deviation

Online portal

Access all results via your personalised online portal

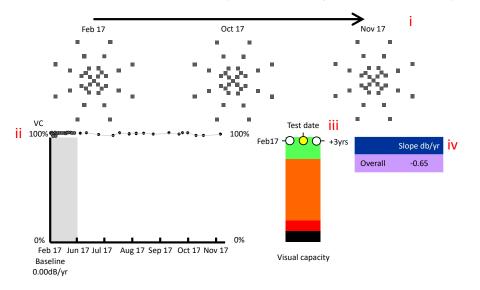
Normative indicator



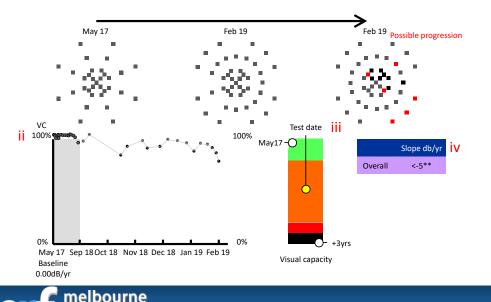


Progression analysis

Patient 1: Stable over time and prediction for good outcome in 3 years



Patient 2: Variable over time with poor prognosis in 3 years



Event analysis (i)

Compares today's performance to baseline on a pointwise basis. Points are colour coded:

Grey:	No change
Black:	Change from baseline
Red:	Change confirmed at retest

Trend analysis (ii)

Visual capacity (MD normalised to age-expected value) plotted over time. Minimum 5 tests required.

Progression predictor (iii)

Coloured bars show visual capacity (VC) from 100% (green) to 0% (black).

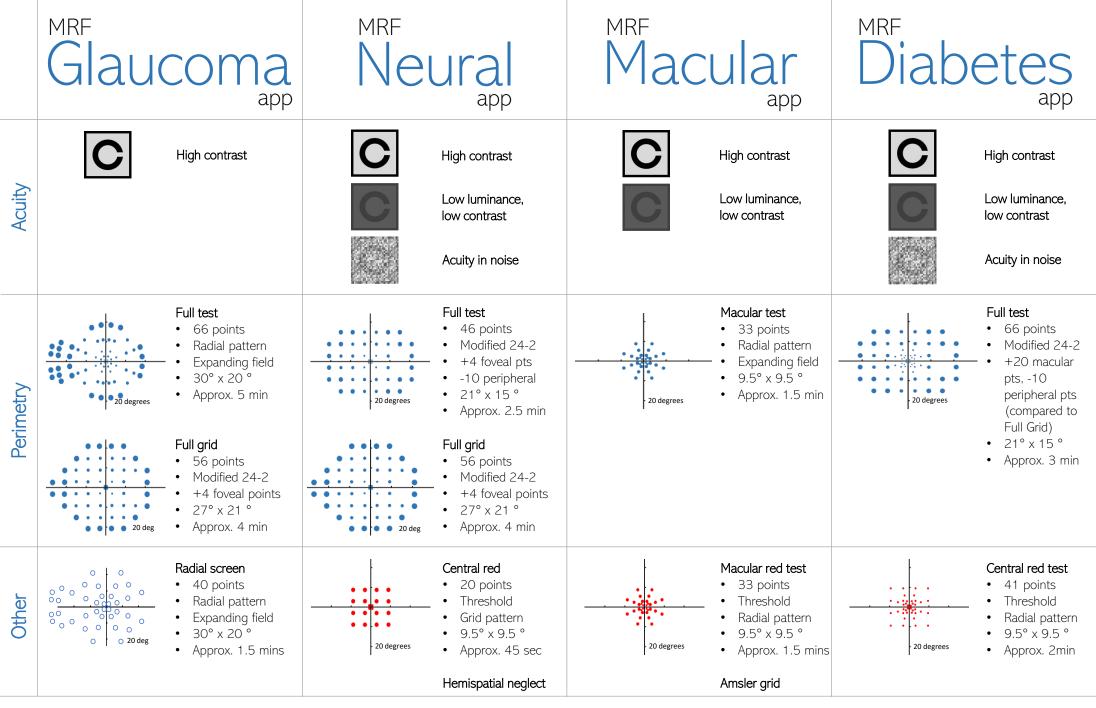
- -O Left circle: VC at baseline O Middle circle: VC at current e
 - Middle circle: VC at current exam
- O- Right circle:
- 3-year prediction for VC

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Rate of progression (iv)

Average rate of progression is shown in dB per year in the purple box. Significance of deviation from normal indicated by the following:

- * <0.05
- ** <0.01
- *** <0.001



Note: All spots size-scaled. RED spots G-V. Test distance: 33cm. Minimum device requirements: iPad 3 WiFi. Recommended: 12.9" iPad Pro WiFi/WiFi + Cellular. Test times estimated with iPad Pro 12.9"







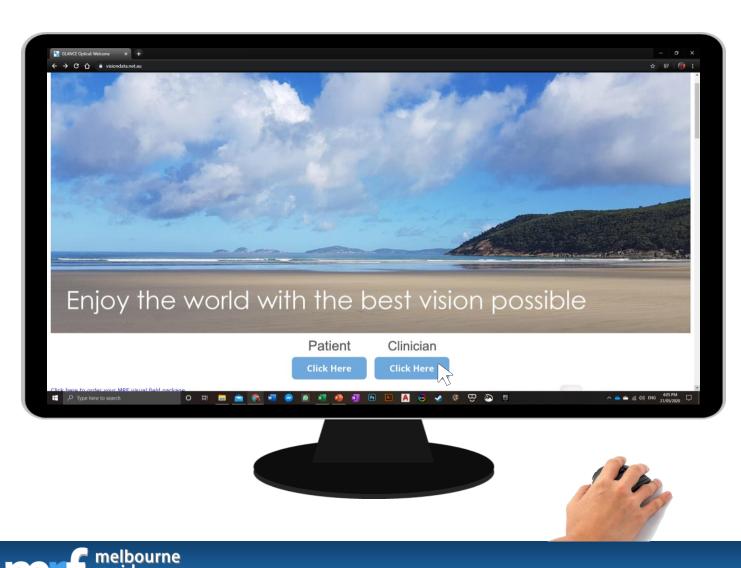
MRF Online





Vision testing without bulky machines

Conduct vision testing by logging onto our website from a PC or Mac: visiondata.net.au



Benefits of MRF online:

- Visual acuity testing
- Visual field testing
- Binocular driving test
- Use your existing hardware
- Telehealth
- Scalability to multiple sites
- Reduced cross-infection risk
- Easy to disinfect between patients
- Multi-lingual functions
- Progression analysis
- No on-going servicing fees
- No locked-in period



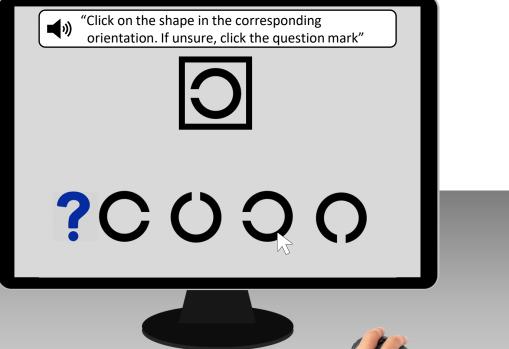
Vision testing tailored to your needs

MRF Online includes the following tests:

Visual acuity

- High contrast
- Low luminance



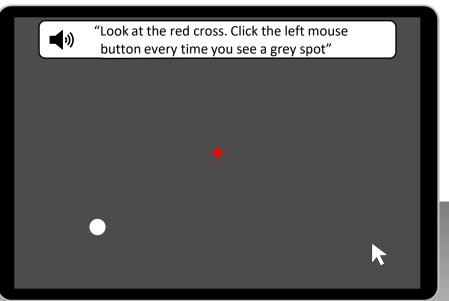


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Visual field

- 10-2, 24-2 and binocular driving test*
- Progression analysis built-in

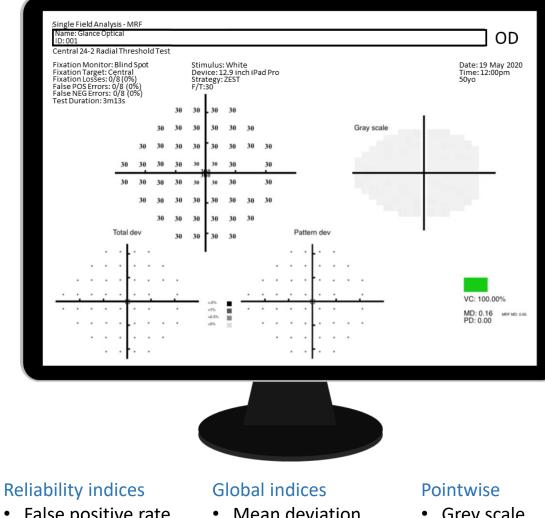
*Binocular Esterman equivalent. Requires 27" display or dual monitor setup







Results given in familiar formats



False positive rate ٠

False negative rate

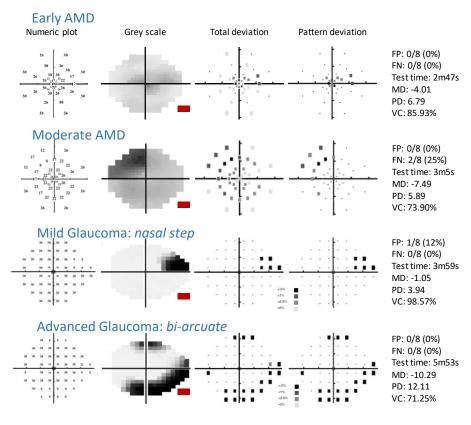
fields

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Fixation loss

- Mean deviation
- Pattern deviation
- Visual capacity
- Grey scale
- Total deviation
- Pattern deviation •

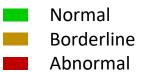
Exemplar results



Online portal

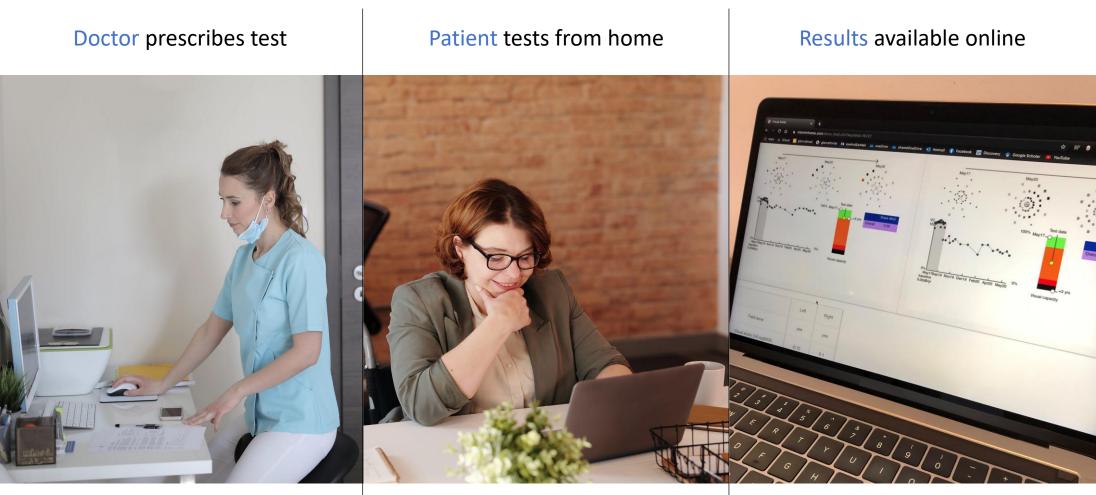
Access all results via your personalised online portal

Normative indicator





Telehealth: the way forward



Specify the tests to be conducted by your patient. Email them a link with test instructions.

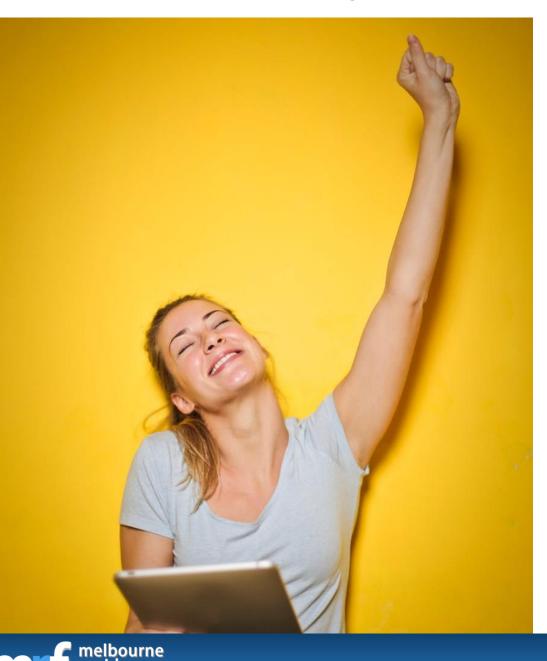
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Patient conducts test under the guidance of voice prompts and submits results to secure online server.

Access their results anywhere via your personalised cloud account. Artificial intelligence can notify you of change.



Complement your practice with MRF



General enquiries:

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Sales enquiries:

Designs for Vision (Paragon Care) 50-54 Clayton Rd Clayton, VIC 3168 Australia Ph: 1800 225 307 Email: <u>malcolm.sketcher@paragonca</u>re.com.au

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