

Genetic Carrier Screening

Factsheet

Genetic carrier screening tests healthy adults to assess their chance of having a child with an inherited single gene condition. This screening test is ideally performed prior to pregnancy so that individuals/couples with an increased chance of having an affected child have access to all of the available reproductive options.

Why is genetic carrier screening important?

Although single gene conditions are individually rare, collectively, around 1 in 200 babies are born with an inherited single gene condition⁽¹⁾. These conditions account for 20% of infant mortality (1).

Most individuals are carriers of 2 or more single gene conditions but are unaware of this because being a carrier most often has no health implications (1).

Who is it for?

The Royal Australian and New Zealand College of Obstetricians and Gynaecologists (RANZCOG) recommends that all individuals planning a pregnancy, or in early pregnancy should be offered genetic carrier screening (2).

What are the options?

Monash IVF offers two genetic carrier screening panels. Both of our panels can be accessed at home (via saliva sample) or in-clinic (via blood sample):

The 3-gene panel tests for 3 conditions: cystic fibrosis, fragile X syndrome and spinal muscular atrophy. Around 1 in 240⁽³⁾ couples will have an increased chance of having a child with one of these conditions.

The expanded panel tests for 400+ genetic conditions, including the 3 conditions above. It also includes other common conditions such as thalassaemia and Duchenne muscular dystrophy (DMD). Collectively, around 1 in 50⁽⁴⁾ reproductive couples will have an increased chance of having a child with one of these conditions.

Medicare has recently introduced a rebate for three gene genetic carrier screening.

Monash IVF strongly recommends that patients consider expanded carrier screening, as it is a pan-ethnic test which makes it appropriate for individuals of all ethnicities. All the conditions on our expanded panel are just as significant as the first 3-genes and can significantly affect the health of a

A full list of conditions included can be viewed at:

bit.ly/3sLNICZ

Genetic Carrier Screening Options	3-Gene	Expanded	
Conditions included in screen	3	400+	
Patient out-of-pocket cost (for Medicare eligible individuals)	\$0 (bulk billed)*	\$695/individual \$990/couple^	
Turnaround time once sample received	3 weeks	4-6 weeks	
At-home saliva or in-clinic blood test options	√	✓	
Support from an in-house, qualified Genetic Counsellor	✓	✓	
Support from reproductive and genetic experts in the event of a high chance result	✓	✓	
Expected number of couples identified as having a high chance result	1 in 240 ⁽³⁾	1 in 50 ⁽⁴⁾	

What if the results indicate a high chance?

If the results indicate an increased chance result, our experienced genetic counselling team are available to offer support and consultation to both the referring doctor and the patient(s).

What are the reproductive options for carriers of genetic conditions?

For people who are carriers of genetic conditions wanting to start a family there are options which may include testing in pregnancy, testing after the birth of a child, considering IVF with a gamete donor or considering IVF with preimplantation genetic testing of embryos. The Monash IVF team are equipped to advise on all reproductive options.

A referral to see a fertility specialist is a good first step. Monash IVF has fertility specialists in every mainland state and territory in Australia, for a full list of locations, visit: monashivf.com/locations

Medicare funding may be available for IVF treatment and embryo screening for those identified as having an increased chance of having a child with a single gene condition.

Get more information:

To get more information or order a kit, scan this QR code or visit: monashivf.com/genetic-testing

E geneticsadmin@monashivf.com T 1800 684 198 (free call) monashivf.com

^{*}A \$25 postage and handling fee applies for at-home 3-gene orders.
^Pricing is correct as at 1 November 2023. Please check the Monash IVF website for up-to-date pricing.

Genetic Carrier Screening Locations

For at-home testing via saliva sample visit: monashivf.com For in-clinic testing via blood sample, contact your nearest location below:

NSW

Albury	Bondi Junction	Sydney CBD	Parramatta	Penrith
The Gardens Medical	Westfield Tower 1	Level 10	Level 2	Level 3
Centre, Level 2	Level 26	207 Kent Street	1 Fennell Street	38 Somerset Street
470 Wodonga Place	520 Oxford Street	Sydney 2000	Parramatta 2151	Kingswood 2747
Albury 2640	Bondi Junction 2022	(02) 9154 1130	(02) 9890 9022	(02) 9154 1155
(02) 6041 2677	(02) 9389 1177			

(02) 6041 2677	(02) 9389 1177			
Bella Vista Q Central Building Level 1, Suite 114 10 Norbik Drive Bella Vista, 2153 (02) 9629 2011	Bondi Junction Level 17, Suite 1705 Westfield Tower 1 520 Oxford Street Bondi Junction 2022 (02) 9388 0955	Frenchs Forest Suite 5, Level 6 Northern Beaches Hospital 105 Frenchs Forest Road Frenchs Forest 2086 (02) 9154 1174	Kogarah Suite 1A, Level 1 4 Belgrave Street Kogarah 2217 (02) 9553 9611	Liverpool Level 2, Suite 205 161 Bigge Street Liverpool 2170 (02) 9822 8447
Newtown RPA Medical Centre Suite 404 100 Carillon Avenue Newtown 2042 (02) 9516 2064	St Leonards Tower A, Level 4 North Shore Health Hub 7 Westbourne Street St Leonards 2065 (02) 9413 9196	Sydney Suite 6.02, Level 6 309 Kent Street Sydney 2000 (02) 9290 2122		

QLD

Brisbane	Gold Coast
Level1	Level 1
Leichhardt Ct	7 Short Street
55 Little Edward Street	Southport 4215
Spring Hill 4000	(07) 5519 1600
(07) 3069 9600	

VIC

Bendigo	Clayton	Cremorne	Geelong	Hawthorn
Bendigo Day Surgery	Monash Surgical	Level1	Geelong Private Medical	Epworth Hawthorn
1 Chum Street	Private Hospital Suite 1,	510 Church Street	Centre, Level 2	50 Burwood Road
Bendigo 3550	252-256 Clayton Road	Cremorne 3121	73-77 Little Ryrie Street	Hawthorn 3122
(03) 9420 8200	Clayton 3168	(03) 9420 8200	Geelong 3220	(03) 9429 9188
	(03) 9590 8300		(03) 5222 8599	
Mildura	Sale	Sunshine		
190-192 Ontario	Central Gippsland	Sunshine Private		
Avenue	Health Service	Ground Floor, Suite 1		
Mildura 3500	155 Guthridge Parade	147 Furlong Road		
(03) 9590 8300	Sale 3850	St Albans 3021		
	(03) 5222 8599	(03) 9420 8292		

Berwick	Box Hill	Clayton	Cremorne	Mulgrave	Sunshine
Clinic on Clyde	Ekera Medical Centre	Monash Surgical Private	Level 1	441 Police Road	Sunshine Private
Suite 3	Level 2, Suite 2.04	Hospital	510 Church Street	Mulgrave 3170	Floor G, Suite 1
40-42 Clyde Road	116-118 Thames Street	252-256 Clayton Road	Cremorne 3121	(03) 9790 1766	147 Furlong Road
Berwick 3806	Box Hill 3128	Clayton 3168	(03) 9427 7610		(03) 9097 1450
(03) 0707 0887	(02) 0000 6177	(03) 0544 6744			

WA

West Leederville (Previously PIVET Medical Centre) 166-168 Cambridge Street West Leederville 6007 (08) 9422 5400

SA/NT

Dulwich	Darwin
180 Fullarton Road	Harry's Place
Dulwich, SA 5065	1 Willeroo Street
(08) 8333 8111	Tiwi, NT 0810
	(08) 8945 4211









