

## Device Incident Report: Medical Devices Branch - Device Vigilance and Monitoring

16/10/2020 UNSIGNED

DIR: 41 - ID: 510535

Report #:	Records Management #:	Reporter's Reference #:	Report Type:
65968	E20-373384	RM4949	Final
ARTG:	Document Container URL		
teport Information Section			
Report Status:	Sponsor's Reported Category:	Date of Adverse Event:	Date of In tial Report:
Active	Trend	25/09/2020	16/10/2020
Date of Final Report:	Date of In tial TGA Action:	Reviewed by Team:	Date Response Received:
30/06/2021	16/10/2020	27/10/2020	
Date Completed:	Operator at Time of Event:	If 'Other' Operator Selected:	Reporter consents to contact by sponsor:
Source of Report:	If 'Other' Source Selected:	Type of In tial Act on:	N/A
Sponsor	†	For Team Meeting	
Event Description for Website Publ cat on:		1 or real recoing	
Clin cal Event Informat on:			
The research and validation, led by  The validation data was obtained on a cohort of accred tation. The NATA accred tation audit with paramania and V ctoria in May 2019. The test has Findings As part of our routine surveillance program, a readd tion, the post launch surveillance sample size  Failed DNA amplif cation rates were pleasing  There was an increase in inconclusive rates  The significant unexpected finding, was that embryos. The increase in aneuploidy was 20-30%  This implies a higher false positive rate common the discordant results between Biopsy PGT and Nunderstood, but bring into quest on its scientific at Next Steps  Monash IVF Group are working with clinicians to A further validation study is underway, under the NATA have been advised of our decision to susper	21 embryos, and showed the two methods were very similar in theister review from a technical expert and review of validation report of also been performed on behalf of the minimizer of the NI-PGT outcomes was undertaken in June 2020. This review as considerably larger (n = 805) than the validation studies (n = gly lower than the validation study (2.6% Surveillance vs 5.0% Validation of the validation study (6.3% Surveillance vs 1.6% Validation of the validation of the NI PGT group. It is a significant increase in an enuplo dy rates in the NI PGT group. It is not part of the validation study data files of	items were as accurate as those from gold standard PGT-A with the routcomes of detecting aneuplo dy. There was a correlation of 98 inccurred in early 2019. Monash IVF Group launched the NI PGT-A liew considered not only how accurately the two alternatives performent (121). This review highlighted some variations of the performance (121). This review highlighted some variations of the performance (121). This review highlighted some variations of the performance (121). This review highlighted some variations of the performance (121). This review highlighted some variations of the performance (121) is never both outcomes were within parameters experienced in the embryos when compared to the current invasive PGT tested to try and better understand these unexpected outcomes. This reposition that the test is being suspended and the impact that of a possibility of continuing to provide the test.	rophectoderm b opsy.  3% between invasive PGT and NI-PGT; consequently the test was submitted for NA program across New South Wales, Northern Territory, Queensland, South Australia ormed in terms of detecting abnormality, but also in clinical pregnancy rates. In see of the test in clinical use, as compared to the validation results: in routine clinical practice. In demonstration, the program of the test in clinical practice. In the validation of the test in clinical practice, are provided to the validation of the test in clinical practice. In routine clinical practice, are provided to the validation of the validation
Number of Inc dents in Report:	Contact:	Alternative Person Title:	Alternative Person First Name:
1			
Alternative Person Surname:	Alternative Person Phone:	Alternative Person Fax:	Alternative Person Email:
Recorded Problems Observed: Output Problem -> Incorrect, Inadequate or Impi	recise Result or Readings -> False Positive Result		

Clin cal Signs, Symptoms and Condit ons

Recorded Clin cal Signs, Symptoms and Conditions:			
Others -> Insufficient Information ->			
Health Impact			
Recorded Health Impacts:			
Delay to Treatment/ Therapy -> ->			
Patient Information			
Sex:	Weight:	Age:	
Patient Focused Corrective Action Taken:		Patient History:	
Patient Outcome/Consequences:		Addit onal Event Description:	
Describe any test (Lab, xray, etc.):	Injured - Extent of Injury:	Other med cal devices currently using/implanted:	Med cal Problem Device Used For:
Addit onal Patients Added:			
O O			
Submitting Reporter Sect on			
Search Reporter By Surname:	Reporter #:		Preferred Contact Method:
Reporter Title:	First Name:	Surname:	
Post on:		Company/Institut on:	
	**************************************	Monash IVF Group	era v
Address 1:	Address 2:	Town/Suburb:	State:
Monash IVF Group, 21-31 Goodwood Street Country:	Postcode:	Richmond Phone:	VIC Fax:
Australia	3121	Filoric.	190
Mobile:	Email:	Last External Submiss on By:	
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Initial Reporter Sect on  As Above?:			Initial Reporter Confidential:
	If No, fill out the following:		
No Search Reporter By Surname:	Initial Reporter #:		Yes Preferred Contact Method:
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T tle:	First Name:	Surname:	
Post on:		Company/Institut on:	
		79 631 193 489	
Address 1:	Address 2:	Town/Suburb:	State:
Postcode:	Country:	Phone:	Fax:
Mobile:	Email:	Allow the device company to contact you about the inc dent:	

Product Exempt (Note: If not exempt, enter ARTG No):	Search Device A	RTG:	Device ARTG #:	Therapeut	c Licence Type:	
No	DV-2017-IVI-10	175-1				
roduct L cence Category:	Device Class:		GMDN / UMDN Code:	GMDN / UN	MDN Text:	
brand Name:	Initial Device De	scription:	Usage of Dev ce:	Software V	ersion:	
In-house IVD - cell free PGT-A	In-house IVD -	cell free PGT-A				
Model #:	Serial #:		Batch #:	Lot #:		
urchase Date:	Expiry Date:		Date of Implant:	Date of Ex	plant:	
ate of In tal Procedure:	Place of Implant	at on:	Reported Dev ce Locat on:	Access Cor	tact Title:	
ccess Contact First Name:	Access Contact S	Surname:	Access Contact Phone:	Access Cor	tact Fax:	
ccess Contact Email:	Licence Status:		Status Effective Date:	Addit onal	Devices Added:	
fanufacturer Name: Monash IVF Group uddress 2:	Town/Suburb:		Manufacturer Client Id: State/Province:	Address 1:		
ostcode:	Phone:		Fax:	Email:		
anufacturer Informed:	Date Aware of A	dverse Event:	Contact Title:	Contact Fir	st Name:	
/es	25/09/2020					
contact Surname: upplier Information Sect on supplier Name:			Address 1:	Address 2:		
own/Suburb:	State:		Country:	Postcode:		
hone:	Fax:		Email:	Website:	Website:	
supplier Informed:	Date of Supplier	Contact:	Contact Title:	Contact Fir	Contact First Name:	
	Contact Phone:		Contact Fax:	Contact En	Contact Email:	
Contact Surname:						
contact Surname:  eport Status  for webs te publication:  Ready for Pul	ol cat on:	Investigated:	Investigat on Reason:	Team Assignment:	Team Pr ority:	

Requirement of Notes for Team meeting:  Exempt in-house IVD - still required to comply with post-main necessary to notify TGA of the incident, they may be unaward Outcomes from Team Meeting:  Investigat on to enquire: Rate information, Investigation reports of the incident of the power of t	ort. What standards is this IVD Sent To Meeting:  ent - Section A  has been reported to occur	nt a final report. Contact sponsor and advise  O done under? Prov de ev dence that testing v  Outcome from DPRC Meeting:  Risk Assessment - Section B  Incidents in the last 12 months:	them they are required to submit a final r	report within 100 days.	Manufacturer documentat on:
Exempt in-house IVD - still required to comply with post-main necessary to notify TGA of the incident, they may be unaward outcomes from Team Meeting:  Investigat on to enquire: Rate information, Investigation reports of the power of the p	ort. What standards is this IVD Sent To Meeting:  ent - Section A  has been reported to occur	nt a final report. Contact sponsor and advise  O done under? Prov de ev dence that testing v  Outcome from DPRC Meeting:  Risk Assessment - Section B  Incidents in the last 12 months:	was conducted according to these standard Risk Assessment - Section C Manufacturer analysis:	report within 100 days.  ds. To clarify w th SW the role and scope of  Risk Assessment - Section D	Manufacturer documentat on:
necessary to notify TGA of the incident, they may be unawar Outcomes from Team Meeting:  Investigat on to enquire: Rate information, Investigation rep DPMM in regulating this IVD.  DPRC Review  Reviewed by DPRC: DPRC Reason S  Meeting Notes:  Initial Risk Analysis  Background Information Risk Assessme  Sever ty:  16/10/2020 1 - No harm h  Inc dents in last 24 months: Manufacturer a  Yes  Inc dents in last 36 months: IVD status:  A point of care	ort. What standards is this IVD Sent To Meeting:  ent - Section A  has been reported to occur	nt a final report. Contact sponsor and advise  O done under? Prov de ev dence that testing v  Outcome from DPRC Meeting:  Risk Assessment - Section B  Incidents in the last 12 months:	was conducted according to these standard Risk Assessment - Section C Manufacturer analysis:	report within 100 days.  ds. To clarify w th SW the role and scope of  Risk Assessment - Section D	Manufacturer documentat on:
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DPMM in regulating this IVD.  DPRC Review  Reviewed by DPRC:  DPRC Reason S  Meeting Notes:  Initial Risk Analysis  Background Information  Date:  Sever ty:  16/10/2020  1 - No harm h  Inc dents in last 24 months:  Manufacturer a  Yes  Inc dents in last 36 months:  IVD status:  A point of care	Sent To Meeting:  ent - Section A  has been reported to occur	Outcome from DPRC Meeting:  Risk Assessment - Section B  Incidents in the last 12 months:	Risk Assessment - Section C Manufacturer analysis:	Risk Assessment - Section D	Manufacturer documentat on:
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Inc dents in last 24 months:  Manufacturer a  Yes  Inc dents in last 36 months:  IVD status:  A point of care		ESTIMATED LEVEL OF INVESTIGATION.	Yes		THE Process of the Committee of the Comm
Inc dents in last 36 months:  IVD status:  A point of care	act on:	ECTIMATED LEVEL OF INVECTICATION.			Yes - manufacturer HAS documented issues or compl cat ons of this type
Inc dents in last 36 months:  IVD status:  A point of care		ESTIMATED LEVEL OF INVESTIGATION:	FINAL LEVEL OF INVESTIGATION:	Injured Party:	Dev ce Recalls:
A point of care		Level 3 Investigat on (for multiple DIRs/a DII)		Patient	No recalls for similar inc dents in Australia
		EXCEPTION TO INVESTIGATION LEVEL:		Found Prior To Use:	Is AE covered by current recall:
Inc dents Worldwide: Number of pote	e IVD			No	No
	ential contributing factors:			Reusable:	Similar events (past 6 months):
Yes - some po	tential factors (up to 3)			Yes	0 inc dents
Products supplied the last 12 months: Specific factors	s identified:	ESTIMATED LEVEL OF PRIORITY:	FINAL LEVEL OF PRIORITY:		3 or more events - batch/model:
	of device - patient s, Use of device - fit for	Routine			
	ential sens tivities:	EXCEPTION TO PRIORITY LEVEL:			3 or more events - health district:
Yes - multiple (more than 3)	potential sens tivities				
Products supplied last 36 months: Specific sensiti	iv ties identified:				3 or more events - organisation:
evidence abou interest/reque interest/reque Industry intere informat on, IT government, Enquiries/inve	ew technology, New ut dev ce eff cacy, Public ests for informat on, Media ests for informat on, est/requests for nvestigations/requests by estigat ons/actions by the for current inc dent to tive				
	during risk assessment:	Final Risk Assessment:			
I discussed is:	sues with one of my peers	No			

Analysis Details	Statistics Checklist Section				
Update Dev ce Details?:	Background Information	Risk Assessment - Section A	Risk Assessment - Section B	Risk Assessment - Section C	Risk Assessment - Section D
	Date:	Sever ty:	Incidents in the last 12 months:	Manufacturer analysis:	

Copy Data From:								
	Assessor:	Manufacturer documentation:	Incidents in last 24 month	hs:	Manufacturer action:	ESTIMATED LEVI	EL OF INVESTIGATION:	FINAL LEVEL OF INVESTIGATION:
	**************************************	DOMESTIC DESCRIPTION	Y	Louis C	TVD - L-L	EVECTORIES TO 1	AN FORTIGATION LEVELS	
	Injured Party:	Device Recalls:	Incidents in last 36 month	ns:	IVD status:	EXCEPTION TO I	INVESTIGATION LEVEL:	
	Found Pr or To Use:	Is AE covered by current recall:	Incidents Worldw de:		Number of potential contributing factors:			
	Reusable:	Similar events (past 6 months):	Products supplied the last	t 12 months:	Specific factors identified:	ESTIMATED LEVI	EL OF PRIORITY:	FINAL LEVEL OF PRIORITY:
		3 or more events - batch/model:	Products supplied last 24	months:	Number of potential sens tivities:	EXCEPTION TO F	PRIORITY LEVEL:	
		3 or more events - health district:	Products supplied last 36	months:	Specific sensitivities dentified:			
		3 or more events - organisat on:	Products supplied Worldw	vide:	Consultations during risk assessment:	Final Risk Assess	sment:	
Sponsor/Manufacture	Information Section							
Search Sponsors:		Name:					Client #:	
65620		Monash IVF Group					65620	
Attention To:		Address 1:		Address 2:			Town/Suburb:	
4		Pelaco Building 1 Level 1 / 21-31	Goodwood Street				Richmond	
State:		Postcode:		Phone:			Fax:	
VIC		3121						
Email:  Investigation Informal	t on Section – Subm tted by Spons	or/Manufacturer						
Dev ce Analysis Resu	lts:			Correctiv	e/Preventative Actions:			
				Ongoing				
Details of Similar Eve	ents:			Add tiona	l Details (use for tables):			
CAPA# Reference:								
Risk Assessment							B	
Frequency:		Sever ty:				F	1	
Rating:				Type Cau	se and Outcome:		Number of Similar Eve	nts:
Expected Rate:		Actual Rate:						
Countries Similar Eve	ents Also Occurred:							
1				11920 1770				
Completed Act ons:				Planned A	Actions and Proposed Timelines:			

Additional Co	Suspension of the test and working through communications with affected patients				Appointment of	Proposed re-val dat on of test under extended comm ttee Appointment of external reviewer to completed RCA relating to validat on					
	mments:										
Reason for L	evel 1 Investigation										
Details of Rea	sons										
	vel 1 Investigation										
Sensitiv ties -	requests for informat on										
	el 2 Investigation										
Details of Foc					relative to the	No. Collect					
Essential Prin	ciples				If 'Other' Selec	ted					
9801084U07593											
	vidence for Level 2										
Details of Sou				tt loub! -lit	71 71	Fto	J. Ca		D	ate of Evidence Received	
Sources of Ev	dence			If 'Others' please specify	/ nere	Expecte	d Sourcing Date		Da	ate of Evidence Received	
Investigation	Questions (Level 1 and information made under		the Regulations - refer to TRIM D20	)-3634097							
Investigation Request for Potential Risk	information made under	Schedule 3 Part 6A.3 & 6A.4 of	the Regulat ons - refer to TRIM D20 Delays in response by inc dent repor		Delays in anal	ysis w thin the TG	A:	Ī	Delays in reporti	ing by other sources (e.g. cl	in cal registries):
Investigation Request for Potential Risk Delays in res	information made under	Schedule 3 Part 6A.3 & 6A.4 of	the Regulat ons - refer to TRIM D20  Delays in response by inc dent report			ysis w thin the TG	A:			ing by other sources (e.g. cl	in cal registries):
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Output Problem	Incorrect, Readings	Inadequate or Imprecise Result or	False Positive Re	sult	, cim Botalio			
Clinical signs symptoms and conditions								
Details								
Level 1	Level	2	Leve	13				
Others	Insuf	ficient Informat on						
Health Impact								
Details								
Level 1	Level	2	Leve	13				
Delay to Treatment/ Therapy								
Investigation Findings								
Finding Details								
Investigat on Findings (Level 1)	Investigat	on Findings (Level 2)	Investigat on Fir	dinas (Level	If 'Other' Selected			
1572		, , , , , , , , , , , , , , , , , , , ,	3)	200				
Investigation Conclusion								
Conclusion Details								
Investigat on Conclusion (L1)	Inves	stigation Conclusion (L2)	If Ad	dit onal Conc	lusion Detail Requested			
Investigation Outcomes								
Outcome Details								
Outcome of Investigation (L1)	Outo	ome of Investigat on (L2)	If Ad	dit onal Conc	lusion Detail Requested			
Investigation Summary								
Latest Investigation (DII) where this DI	R is the Primary DIR:	Latest Investigation (DII) when	re this DIR is a Related	DIR: Inve	estigator:	Peer Revie	w:	Peer Review Complet on Date:
	AV TOLERA BANG NEW AND				WINA REACTIONS	Yes		
Investigator's Notes:				Sum	nmary Findings:			Recall Number:
NOTE - For Peer Review pr or to closing After reviewing requested informat on -	change to "Awaiting	Final", send to OPR - Make a note	to triage final report to	<b>1</b>				
30 October 2020 - Request for informal 3, Part 6A, Clause 6.3 and 6.4 of the Th 27 November 2020 - Monash IVF respo	tion sent (Not ce requierapeutic Goods (Me	iring informat on/documents to be dical Dev ces) Regulations 2002) (	e prov ded under Sched (D20-3641206)	ule				
Review of documents provided:								

(Q1) - Prov ded a general description of the "cell-free" as compared "biopsy" pre-implantation genetic test (PGT) and the indication of results - (a) suitable for transfer (Euplo d or "no abnormal ty detected); (b) chromosomally abnormal & unsuitable for transfer (Aneuplo d); (c) Inconclusive (unable to yield a result) - embryo treated in same way as an

MIVF state cell-free PGT-A is a screening test only design to detect abnormal chromosome number (aneuplo dy) for whole chromosome number which may lead to miscarriage or serious condition effecting pregnancy and live birth.

1. TGA Response to NI Questions v1.0 27Nov20

WARNING to Patients:

Patients are advised: "This test is only a screening test and therefore cannot provide an absolute guarantee of the chromosome status of the embryo. In some embryos, the biopsied cell/s or culture media may not be representative of Form Details

While every effort is made to ensure that the PGT-A test offered has the highest possible accuracy using the currently available technology, results are not 100% accurate. There ore, prenatal diagnosis is highly recommended in an ensuing pregnancy."

- (Q2) Provided an updated procedure for reporting adverse event (their reporting procedure, at the time of the adverse event, was not provided) - Reviewed in section 2. Monash IVF Group Adverse Event Feedback Policy v5.0 9Nov20
- Their rationale for the 4 month delay in reporting their concerns regarding the signif cant increase in aneuplo dy rates when they first became aware of the issue, in June 2020 as part of their routine surveillance program, and only notified TGA in October 2020 was:
- (a) initial concern were raised in June 2020 which triggered a review of the validation data. This review revealed irregular ties which led to the decis on to suspend the test as of 25 September.
- (b) The precaut onary suspension of the test did not appear, to Monash IVE to meet the Adverse Event Criteria listed on the TGA webs te.
- (c) Confirmat on that Monash IVF Group Adverse Events and Feedback Pol cy to the version provided (see (2) below) following discussion with (TGA) to include reference and link to the NPAAC document: Requirements For the Development And Use Of In-House In Vitro Diagnostic Medical Dev ces (IVDs).
- (O3) Although Monash IVF dentified increased rates of aneuploidy results in June 2020 between the surveillance populat on (n=805) compared to the val dation populat on, they only suspended the test after their investigation dentified irregular ties in the val dation data in September 2020 (when number of tests conducted was in the order of n=1300). Therefore between when they noticed concern and when they suspended use of the test, around an additional 500 tests had been conducted. Monash IVF claimed that the increased rates observed in June 2020 were NOT the grounds for suspending the test. The grounds for suspending the test was related to the IRREGULARITIES IN THE VALIDATION DATA which were identified in September 2020.
- (Q4) Monash was asked to provide information on their documented procedures for reviewing experience gained in the post-product on phase and how corrective act ons are applied to the design or product on of such devices. Monash provided information for their genetics laboratory at Repromed advising they participate in ALL external OC programs available for their preimplantat on genetic testing program but that no such external QC programs are available for the cell-free PGT.

An internal QC program was developed for the cell-free PGT.

Monash IVF claim that "results from our internal QC program have all been concordant since it was established", but d d not provide any details or data.

Repromed also monitor false negative rates for all screening tests and that the false negative rate appeared to be in-line with the biopsy PGT test (false negative - calling an embryo healthy when t was not). The issue with the cell-free PGT-A test was false positive (calling an embryo unhealthy/aneuploid when it was healthy/euplo d)

Monash IVE didn't actually answer the guest on asked. No details of the system for reviewing experienced gained in the post-product on phase was provided. It was expected that copies of their QMS documents would be provided that demonstrated how they monitored and reviewed post-production data.

No information was provided on how corrective actions will be applied to the design or production of a device(IVD test). only that "learnings from our experience with this process will be incorporated into future design of any tests implemented across Monash IVF Group".

Could request addit onal information - please provide a copy of your documented procedures for reviewing experience gained in the post-product on phase and the process for how any necessary corrective actions will be applied to the design or production of a dev ce.

Could request a copy of their internal QC program for the test.

- (Q5) Referred to (3) below: IVD Val dation Document Next Generat on Sequencing v1.0 for details of the design specification of the device, including relevant standards, risk analysis or other solutions adopted to ensure the device complies with the EPs.
- (Q6) Referred to (4) below: Monash IVF Group validation of NGS summary for clinical evidence as required by the clinical evaluation procedures (Schedule 3, Part 8 of the Regs)
- (O7) Referred to (3 & 4) below: request for val dation report.
- 2. Monash IVF Group Adverse Event Feedback Policy v5.0 9Nov20

Provides definitions of

Events - something that requires reporting in Riskman - incidents, near misses, feedback, suggestions for improvement, supplier issues, equipment failure, audit findings and hazards

3. IVD Validat on Document - Next Generation Sequencing v1.0

Review for (Q5 above): details of the design specification of the device, including relevant standards, risk analysis or other solutions adopted to ensure the device complies with the EPs.

4. Monash IVF Group validation of NGS summary

Review for (Q6 above): clinical evidence as required by the clinical evaluation procedures (Schedule 3, Part 8 of the Regs)

Note: Letter generation buttons disabled if report not ready for website publication or risk analysis not completed.

## ileader.production.tga.gov.au/InformationLeaderAD/Forms/FormDetailPrint.aspx?sid=2008642495

	Dev ce (Entered):	Brand	l Name:		Manufacturer Name:		Dev ce ARTG #:			
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	Reason for Testing:	# Samples from Reporter:	# Samples from Sponsor:	Outcome of TGA	rs resting:	Lot Number:	Batch Number:	Model Number:	Version Number:	
						Who sent the device	to the TGA?:		Why does the TGA have	the sample?:
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	nal Patients									
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## Signature Details

Role	IRIS Investigator	
User		
Signed At		
Comment		