

Clinical Guideline

TGA (previous arterial switch)

SETTING	South West England and South Wales
GUIDELINE FOR	Cardiology teams in South West England and South Wales hospitals
PATIENT GROUP	Adult patients with congenital heart disease

GUIDANCE

Follow-up:	annual, biennial if good repair with no residual lesions
Associated lesions:	(sub) pulmonary stenosis, VSD, LVOTO and coarctation
Inheritance:	rare
Long-term complications:	RVOTO and supra pulmonary stenosis (40%) PR neo-aortic root dilatation neo-aortic regurgitation (9%) LV dysfunction coronary artery issues (8%) arrhythmias (much less common than with Mustard/Senning) functional aortic arch obstruction and hypertension (due to acute angle of aortic arch)
1-2 yearly:	
History:	sustained palpitations presyncope? exertional dyspnoea chest pain (may have silent ischaemia)
Exam:	systolic murmur of RVOTO diastolic murmur of neo AR/PR
ECG:	should be normal ischemic ECG changes if coronary issues RVH if RVOTO
Echo:	findings may be minimal assess PV/MPA measure neo aortic root and proximal ascending aorta neo AR PH (NB care with using TR for this as there may be RVOTO) VSD LV size and function (global and regional)

Drugs:	nil routine
Further investigations:	
CXR:	not routine narrow mediastinal shadow
CPET:	at baseline and if change in symptoms, to assess ischaemic ECG changes and functional capacity
Holter:	if clinically indicated
TOE:	to assess neoaortic valve if repair considered
Catheter:	to assess haemodynamics (assessment of PAH, branch PA stenosis). Consider coronary angio if LV dysfunction and suspicion of myocardial ischaemia
MRI:	at baseline to assess volumes, great arteries (CT or catheter if pacemaker) and if imaging of RVOT and pulmonary arteries is required (including split PA flows), including in pre-op planning
CT coronaries:	at baseline to image coronary ostia and if chest pain
Stress testing (echo/MRI):	if anatomical coronary lesions to look for ischaemia
Pregnancy:	risk depends on haemodynamic lesions and presence of neoartical root dilatation
Contraception:	any in most patients
Endocarditis:	antibiotic prophylaxis before high-risk dental work if prosthetic valve, previous endocarditis, residual defects at the site of or adjacent to the site of prosthetic material
Discuss if:	<ul style="list-style-type: none"> • RVOTO (pullback gradient at cath > 50 mmHg or RV/LV pressure ratio > 0.7) • Branch PA stenosis (>50% diameter narrowing +RVSP >50mmHg +/- reduced lung perfusion) • Myocardial ischemia from coronary artery obstruction • Severe neo-aortic valve regurgitation • Progressive or severe neoaortic root dilatation (>55mm) • Severe pulmonary regurgitation is present and there is significant RV dilatation or RV dysfunction

Appendix 1 – Evidence of Learning from Incidents

The following table sets out any incidents/ cases which informed either the creation of this document or from which changes to the existing version have been made.

Incidents	Summary of Learning
n/a	

Table A

REFERENCES	<ul style="list-style-type: none"> • Baumgartner H et al. 2020 ESC Guidelines for the management of adult congenital heart disease. Eur Heart J. 2020 00, 1-83. • Stout et al. 2018 AHA/ACC Guideline for the Management of Adults With Congenital Heart Disease. Journal of the American College of Cardiology Aug 2018, 735-1097. • Canadian Adult Congenital Heart Network (www.cachnet.org)
RELATED DOCUMENTS AND PAGES	<p>Regional Referral Guidance for Adult Patients with Congenital Heart Disease RegionalReferralGuidanceAdultPatientsWithCongenita-3.pdf</p> <p>Regional Referral Pathway for Cardiac Disease in Pregnancy ClinicalGuidelineForCardiacDiseasePreExistingOrPre-1.pdf</p>
AUTHORISING BODY	Cardiac Executive Group, Bristol Heart Institute
SAFETY	None
QUERIES AND CONTACT	<p>Bristol: Contact any of the following via UHBW switchboard – 0117 923 0000 Dr S Curtis Dr G Szantho Dr M Turner Dr R Bedair ACHD Specialist Nurse Team 0117 342 6599</p> <p>Cardiff: via UHWales switchboard - 029 2074 7747 Dr S MacDonald Dr H Wallis Dr DG Wilson Dr N Masani ACHD Specialist Nurse Team 02920 744 580</p>
AUDIT REQUIREMENTS	Adherence to guideline will be audited periodically as part of ACHD departmental audit

Plan Elements	Plan Details
The Dissemination Lead is:	Dr Stephanie Curtis
Is this document: A – replacing the same titled, expired SOP, B – replacing an alternative SOP, C – a new SOP:	A
If answer above is B: Alternative documentation this SOP will replace (if applicable):	
This document is to be disseminated to:	South West and South Wales Congenital Heart Network
Method of dissemination:	Email
Is Training required:	No

**Document Change
 Control**

Date of Version	Version Number	Lead for Revisions	Type of Revision	Description of Revision
Dec 2020	2	Consultant Cardiologist	Minor	Updated contacts and related documents. Follow up - biennial if good repair with no residual lesions added