ESC Guidelines for the management of patients with supraventricular tachycardia

Supraventricular tachycardia in adults with congenital heart disease

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The number of adults with congenital heart disease is increasing at a rate of 60% per decade in developed countries

1 million adults with congenital heart disease live in the European Union

► HF, cardiac arrhythmias are a common late complication in adults with congenital heart defects.

Pharmacological antiarrhythmic therapy

> narrow QRS SVT

> All antiarrhythmic drugs carry a proarrhythmic risk

> (SA - AV)

■ حاصرات بيتا تستخدم لتبطء النقل في AV وممكن استخدامها في تبادل منشأ الاوعية الكبيرة

◄ (الاميودارون – فليكانيد – سوتالول) لها اثار محرضة للانظميات خاصة عند
(تطاول - QT - نساء مسنات – امراض قلبية وعائية – قصة عائلية لموت مفاجئ – نقص بوتاسيوم)

- فليكانيد فعال جدا عند الرضع
- معظم المراكز خفضو من استخدام الاميودارون

Recommendations for the therapy of supraventricular tachycardia in congenital heart disease in adults

Recommendation	Class ^a	Level ^b
Anticoagulation for focal AT or atrial flutter should be similar to that for patients with AF. 241,242,499	-1	С
Acute therapy		
Haemodynamically unstable patients		
Synchronized DC cardioversion is recommended for haemodynamically unstable patients. ^{86–88,491,492}	1	В
Haemodynamically stable patients		
Vagal manoeuvres, preferably in the supine position with leg elevation, are recommended. 41,89-91	-1	В
Adenosine (6–18 mg i.v. bolus) is recommended if vagal manoeuvres fail. 92–94	1	В
i.v. verapamil or diltiazem should be considered, if vagal manoeuvres and adenosine fail. 92,94–98	lla	В
i.v. beta-blockers esmolol or metoprolol) should be considered if vagal manoeuvres and adenosine fail. 97,99,100	lla	С
Synchronized DC cardioversion is recommended when drug therapy fails to convert or control the tachycardia. 87,88	SW4H7	В

Chronic therapy

Beta-blockers should be considered for recurrent focal AT or atrial flutter, if ablation is not possible or successful.²³⁷

In patients with SVT planned for surgical repair of a congenital heart disease anomaly, pre-operative catheter ablation or intraoperative surgical ablation should be considered. 502-504

Amiodarone may be considered for prevention if ablation is not possible or successful. 505

Sotalol is not recommended as a first-line antiarrhythmic drug as it is related to an increased risk of pro-arrhythmias and mortality. 496

Flecainide and propafenone are not recommended as first-line antiarrhythmic drugs in patients with ventricular dysfunction and severe fibrosis. 497

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Catheter and surgical ablation

■ SVT غیر نموذجي

■ معدل النجاح اقل

Atrial septal defect

- لانظمیات اذینیة بنسبة ٥-١٥ %
 - RA MRAT
 - CTI -
- اغلاق الفتحة لا يلغي AT ويجب اجراء ablation
 - نسبة النكس حوالي ٤٠- ٤٤%

Ebstein's anomaly

■ AT هو الاشيع ٢٥-٥٥ %

wPW مثل right-sided Aps مثل ∾ ۵۰-۱۰ مثل

Tetralogy of Fallot

■ عند حدوث لانظمية اذينية حديثة لأول مرة يجب ان ننفي سبب مثل قصور صمام رئوي شديد

◄ و التداخل الجراحي ممكن يفيد

Fontan repairs

■ AT شائعة بعد عملية فونتان

◄ AT قليل التحمل هيموديناميكيا عند مرضى البطين الوحيد

