Bradyarrhythmias

Туре	Aetiology	Signs/Symptoms	ECG findings	Treatment
Sinus	Normal response to	May be asymptomatic	Sinus rhythm	None if
Bradycardia	cardiovascular		Ventricular rate <60	asymptomatic
	conditioning	May also present with	bpm	A traning may be
	Sinus node	syncope chest pain (CP)		Autopine may be used to increase
	dysfunction	or hypotension		heart rate
	ajstanetion			nour ruce
	Beta-blocker			Pacemaker
	(BB)/calcium channel			placement is
	blocker (CCB) toxicity			definitive
				treatment if
Einst dagraa	Can accur in normal	Agymptomatic	Constant prolonged	severe
AV block	individuals	Asymptomatic	PR int $>0.21s$	Not necessary
I W DIOCK	maividuais		1 K IIIt. > 0.215	
	Associated with			
	increased vagal tone			
	and with BB and CCB			
Second-degree	Drug effects (digoxin,	Usually asymptomatic	Progressive PR	Stop offending
AV block -	BB, CCB)		lengthening until a	drug
WIODILZ I (Wenckebach	Increased yagal tone		occurs then PR int	A tronine as
phenomenon)	mereased vagar tone		then resets	clinically
F)	Right coronary			indicated
	ischemia/infarction			
Second-degree	Results from fibrotic	Ocassionally syncope;	Unexpected	Pacemaker
AV block -	disease of the	frequent progression to	dropped beat(s)	
Mobitz II	conduction system or	third-deg AV bock	without a change in	
	or prior MI		PK Int.	
Third-degree	No electrical	Syncope, dizziness, acute	No relationship	Pacemaker
AV block	communication	heart failure,	between p waves	
(complete)	between the atria and	hypotension	and QRS complex	
	ventricle			
Sick Sinus	A heterogenous	Secondary to tachycardia	Moments of	The most
Syndrome /	disorder that leads to	or bradycardia	bradycardia and	common
bradvoardia	supraventricular tachy	May include sympose	taenyeardia	indication for
syndrome	and bradvarrhythmias	nalpitations dysphoea		расстакст
syncholic		CP, TIA and stroke		

Supraventricular/Atrial Tachyarrhythmias

Туре	Aetiology	Signs/Symptoms	ECG findings	Treatment
Sinus	Normal physiologic	Palpitations, SOB	Sinus rhythm	Treat underlying cause
Tachycardia	response to fear, pain			
	and exercise		Ventricular rate	
			>100 bpm	
	Can be secondary to			
	volume contraction			
	infection or nulmonary			
	embolism (PE)			
Atrial	Acute AF: PIRATES	Often symptomatic	No discernible p	Estimate risk of stroke
Fibrillation			waves, with	using CHA2DS2-VASc
(AF)	Pulmonary disease	May present with SOB,	variable and	score
	Ischaemia	CP or palpitations.	irregular QRS	Anticoagulate if ≥ 2
	Rheumatic heart		response	
	disease	Physical examination		Rate control:
	Anaemia/Atriai	irregular pulse		BB
	Thyrotoxicosis			Digoxin
	Ethanol			Digonii
	Sepsis			Rhythm control:
	1			Sotalol
	Chronic AF-			Amiodarone
	Hypertension, CHF			Flecainide
				Favour rate control:
				>03 Y History of IHD
				Favour rhythm control: <65Y
				Symptomatic
				1 st presentation
				Lone AF
				AF secondary to
				corrected precipitant
A 4	Circulture en en esta ef	TT	D1	CCF
Atrial flutter	circular movement of	Usually asymptomatic	Regular rnythm;	Anticoagulation, rate
	around the atrium at	Can present with	"sawtooth"	control and
	rate of approximately	nalpitations syncope	appearance of	guidelines as in AF
	300/min	and lightheadedness	pwaves can be	above
			seen.	
			Atrial rate is	
			usually	
			240-320bpm	
			and the	
			around 150 bpm	

Ventricular Tachyarrhythmias

Туре	Aetiology	Signs/Symptoms	ECG findings	Treatment
Premature	Ectopic beats arise	Usually asymptomatic	Early, wide QRS not	Treat underlying
Ventricular	from ventricular foci		preceded by a P wave.	cause
complex		May lead to palpitations		
(Ectopics)	Associates with		Ectopics usually	If symptomatic,
	hypoxia, electrolyte		followed by a	give BB or
	abnormalities,		compensatory pause	occasionally other
X7 / 1	hyperthyroidism			anti-arrhythmics
Ventricular	Can be associated with	Nonsustained VI is often	Three or more	Shockable rhythm
1 achycardia	CAD, MI and	asymptomatic;	consecutive ectopics	(ALS)
(VI)	structural heart disease	Sustained VT can lead to	Wide OPS complexes	
		palnitations hypotension	in a regular ranid	
		angina and syncope	rhythm	
		Can pregressed to VF and		
		death		
Ventricular	Associated with CAD	Syncope, absence of BP,	Totally erratic	Shockable
Fibrillation	and structural heart	pulselessness.	wide-complex tracing	Rhythm (ALS)
(VF)	disease.			
	Associated with			
T 1 1	cardiac arrest	0 (111		
Torsades de	Associated with long	Can present with sudden	Polymorphous QRS	Magnesium
pointes	Q1 syndrome,	cardiac death	VT with rotag	surprise initially
	to modications	Typically associated with	botwoon 150 and	unstable
	hypokalaemia	nalpitations dizziness	250hnm	unstable
	congenital deafness	and syncone		Correct
	and alcoholism			hypokalaemia
				Withdraw
				offending drugs

Glossary

ALS - advanced life supportBB - beta blockersbpm - beats per minuteCAD - coronary artery diseaseCCB - calcium channel blockerCCF - congestive cardiac failureCP - chest painIHD - ischaemic heart diseaseMI - myocardial infarctionSOB - shortness of breathTIA - transient ischaemic attack