



Lyon 1

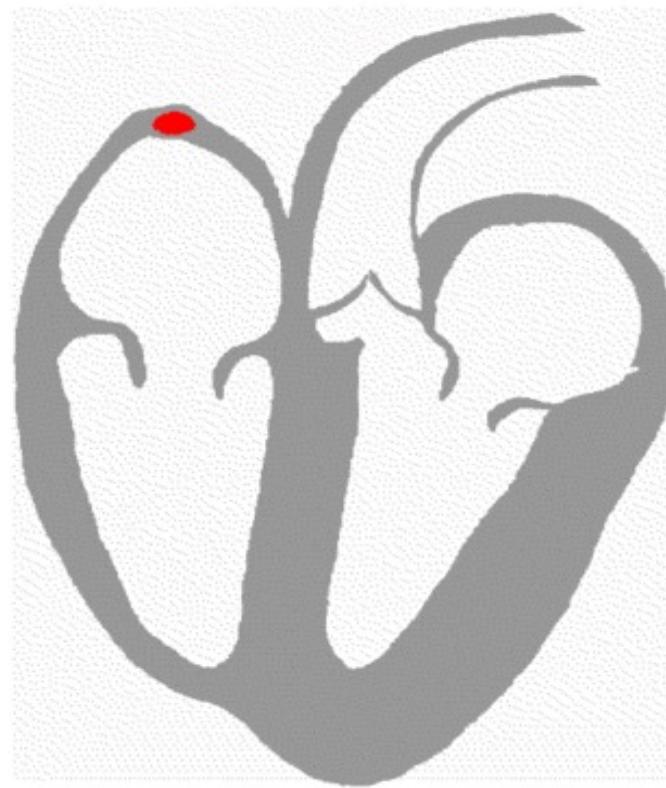
Rythmologie

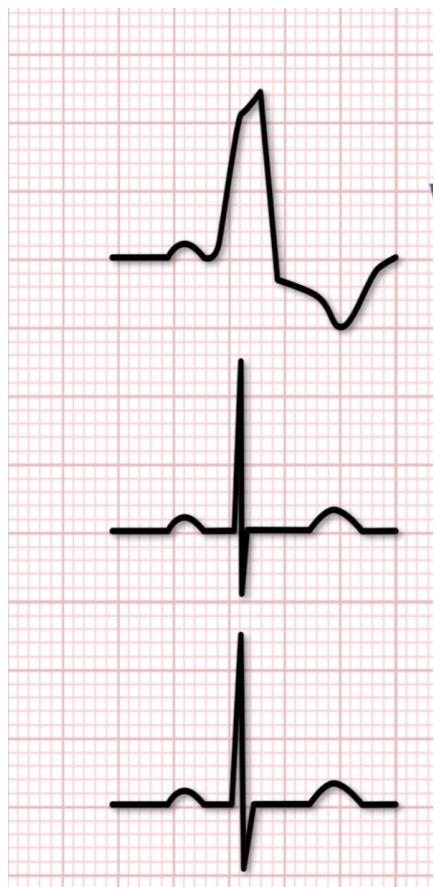
Philippe Chevalier

- ✓ Syncopes/Troubles de la conduction
- ✓ Palpitations/Tachycardies

Novembre 2022

Le signal ECG

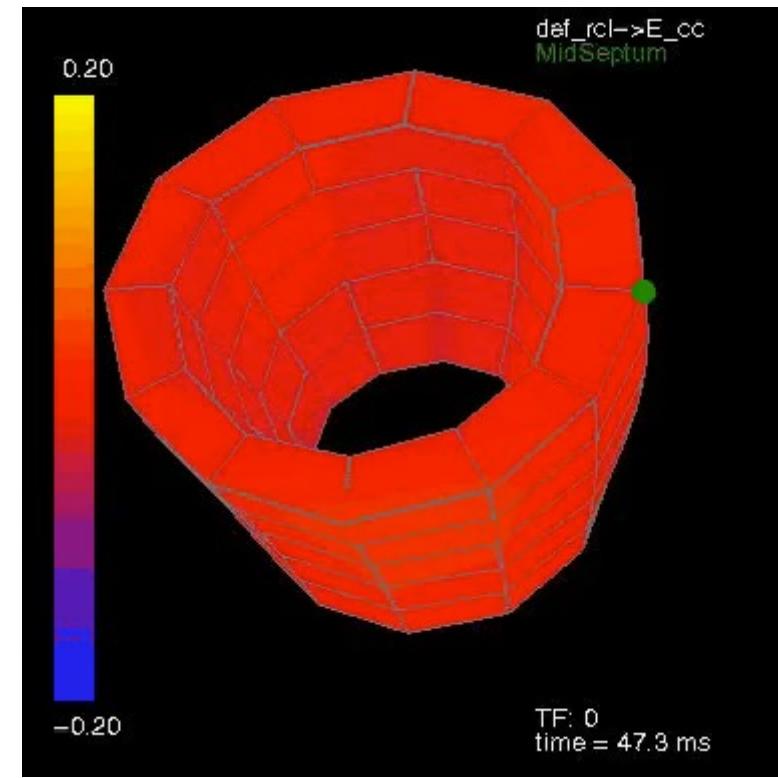
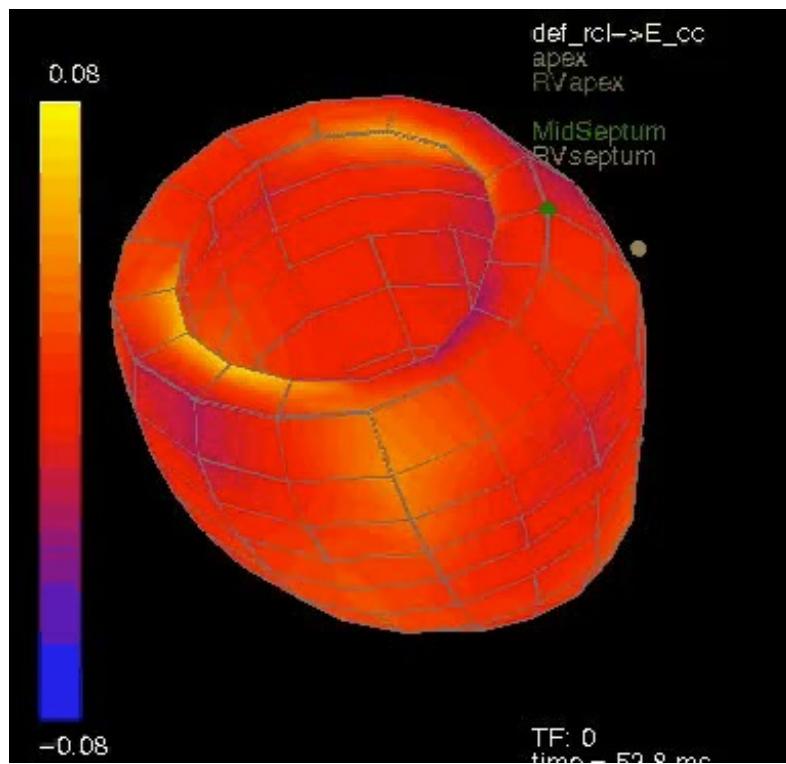




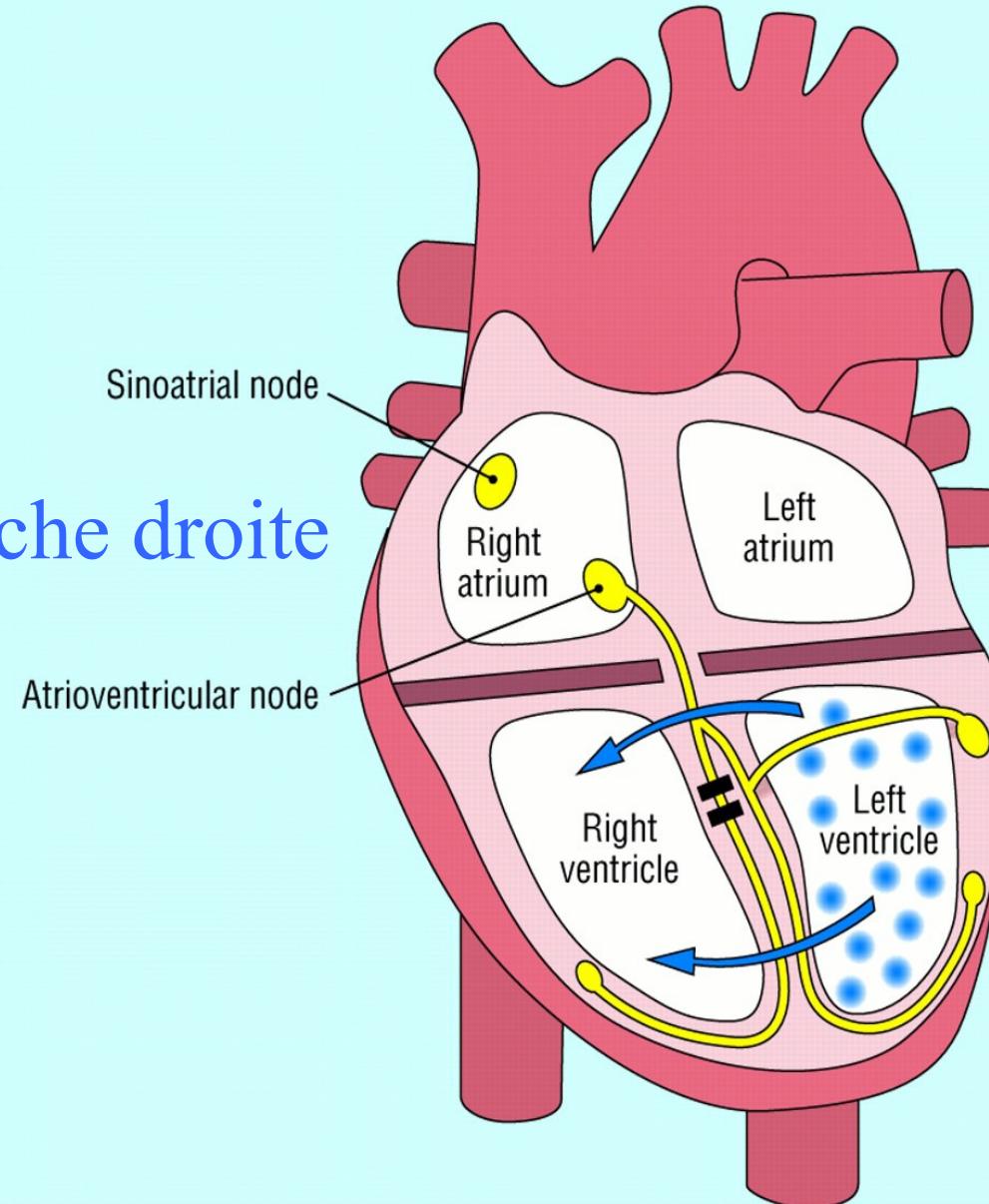
- QRS larges
- QRS étroits, très fins
- QRS normaux

Blocs de branche

Asynchronisme interventriculaire

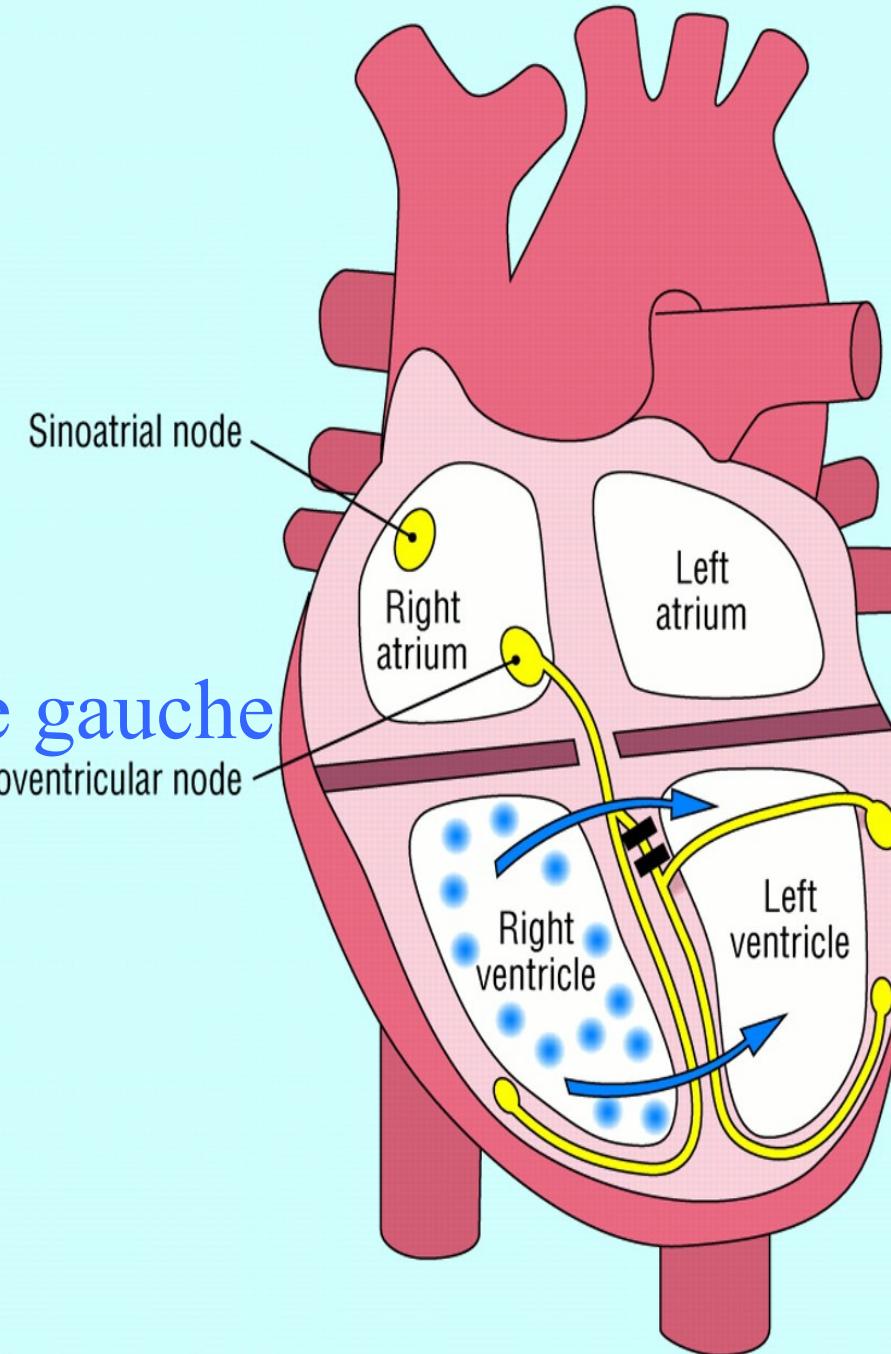


Bloc de branche droite

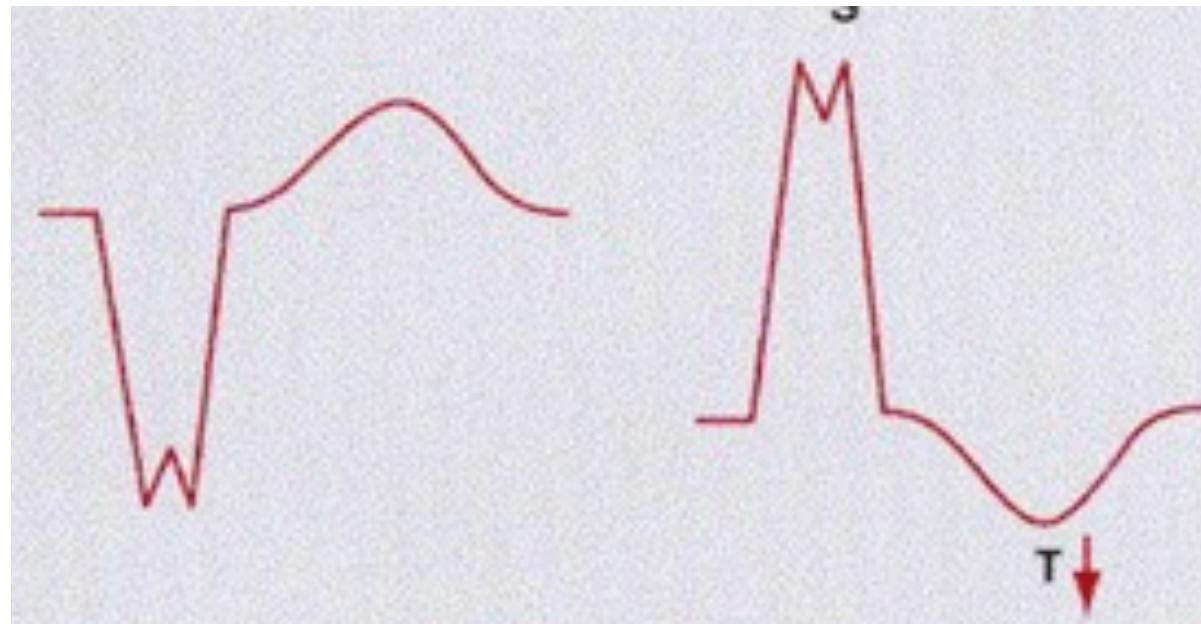




Bloc de branche gauche

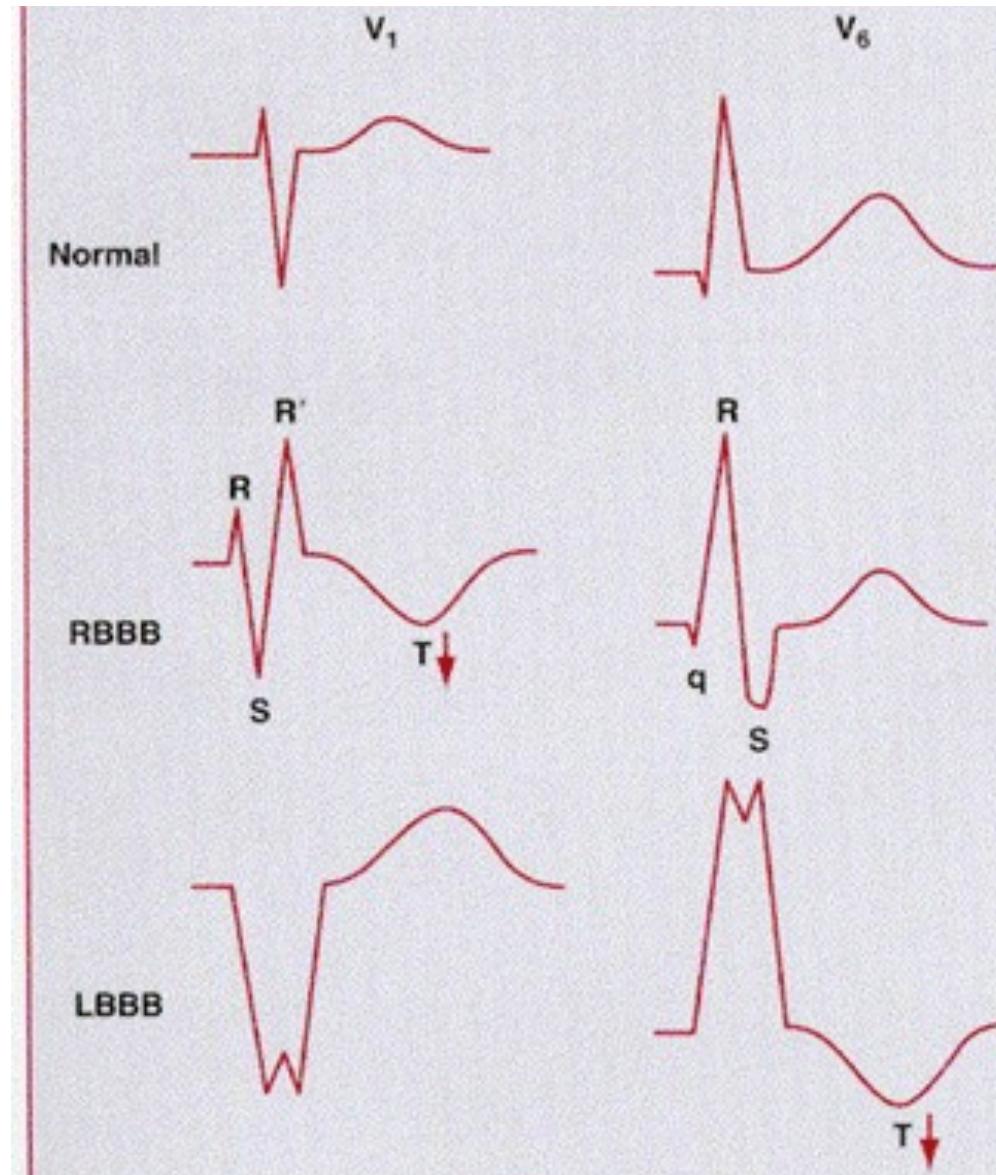


BBG



V1

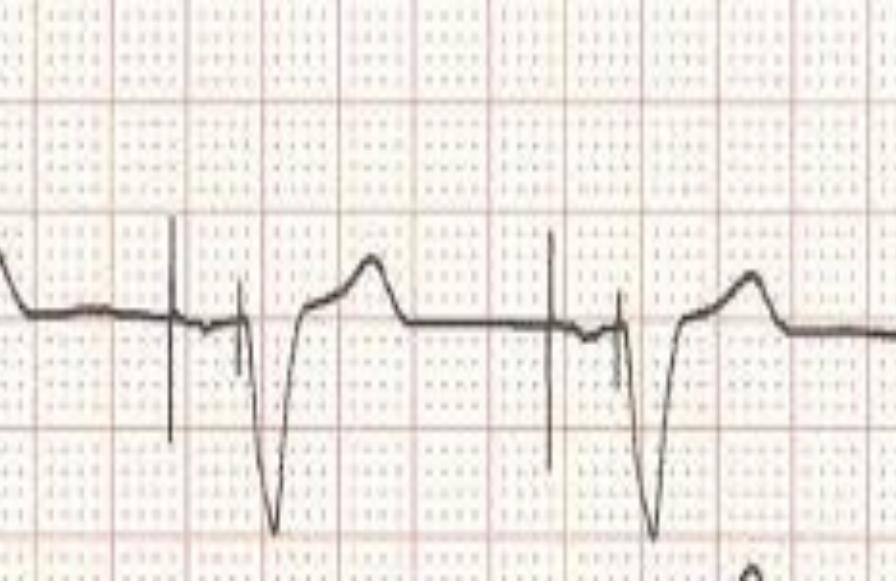
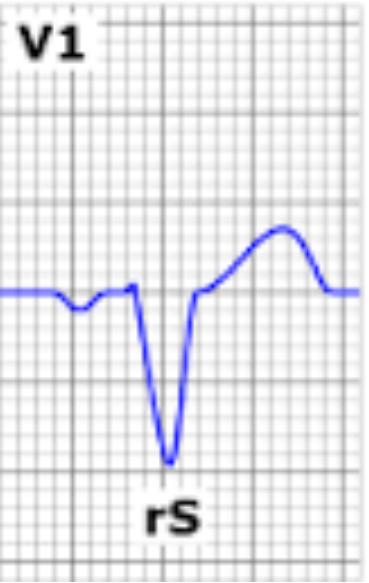
V6



Normal

BBD

BBG

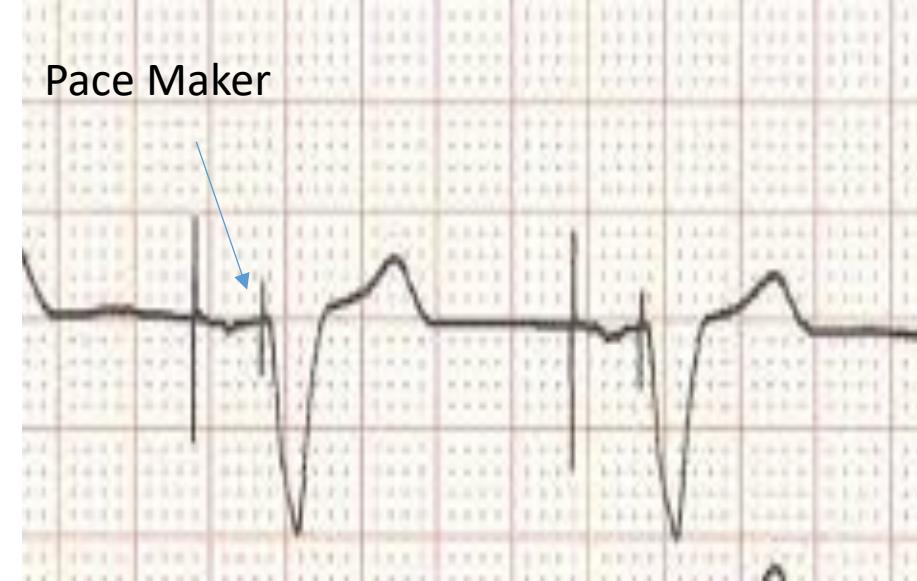


QRS larges?

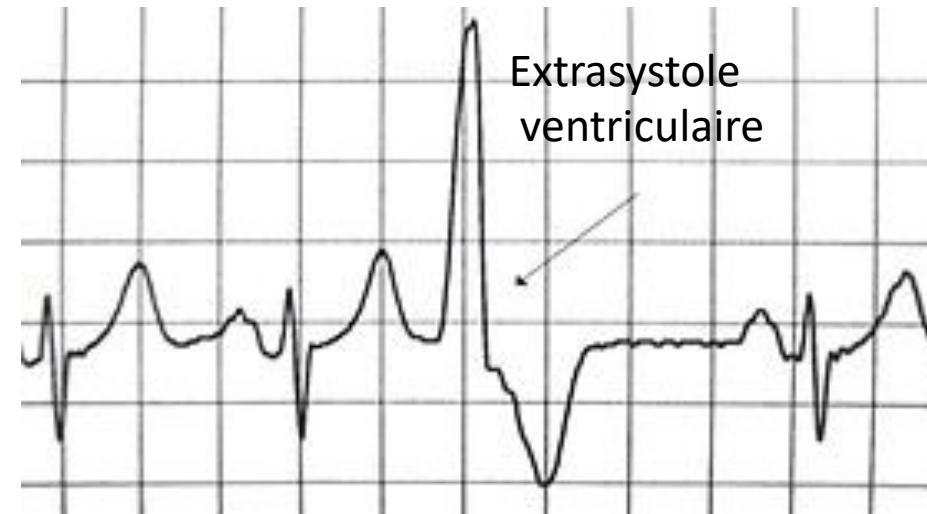




Bloc de Branche

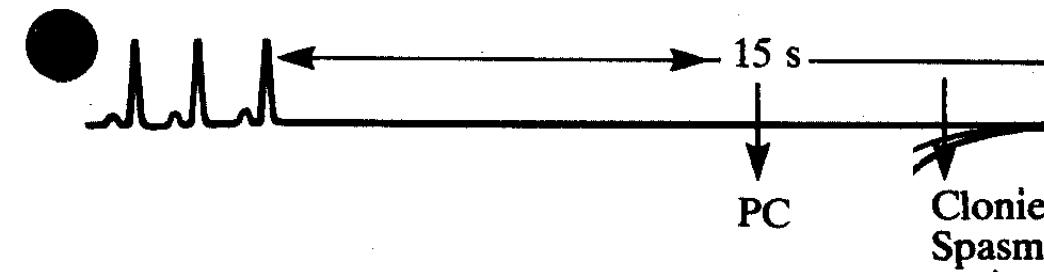
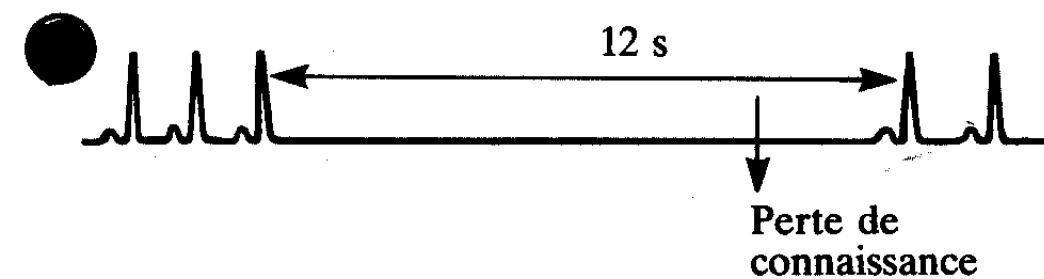
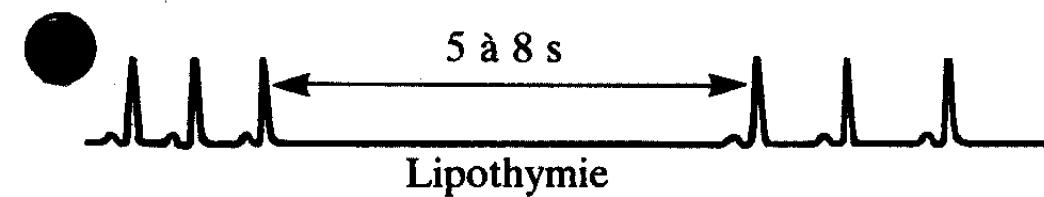
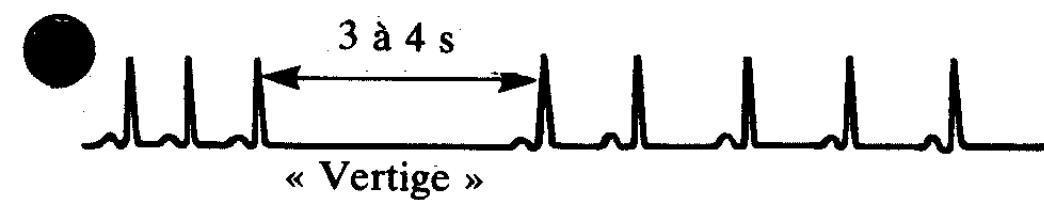
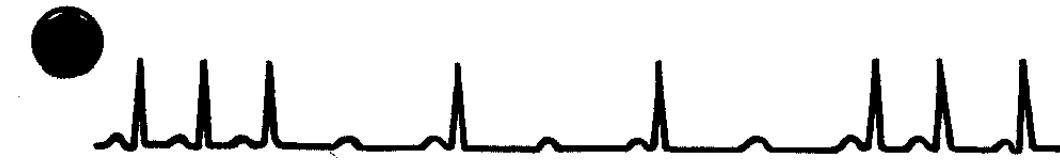


QRS larges?



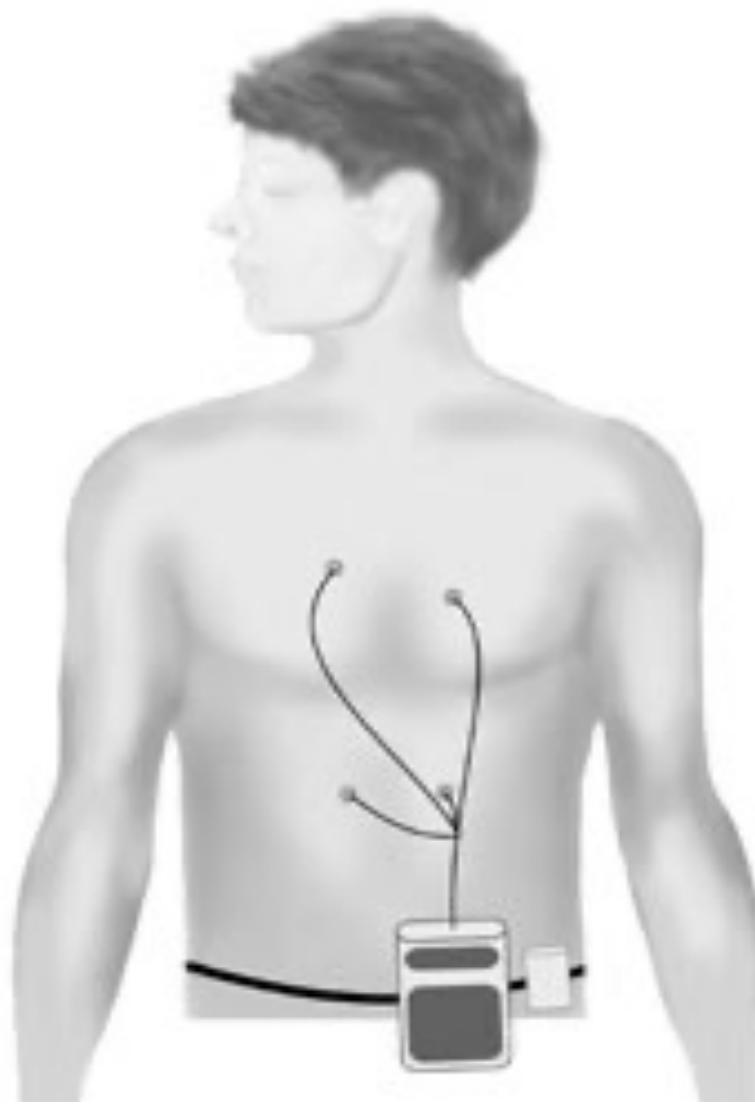
Rythmologie

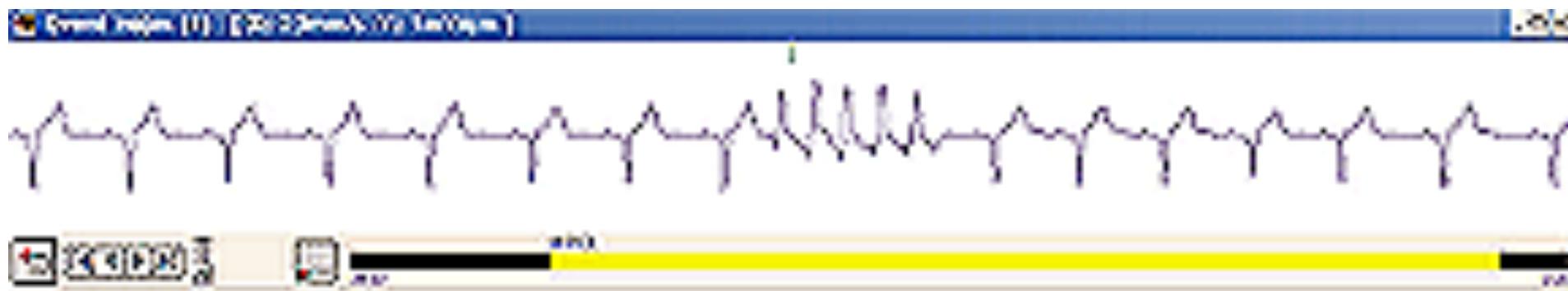
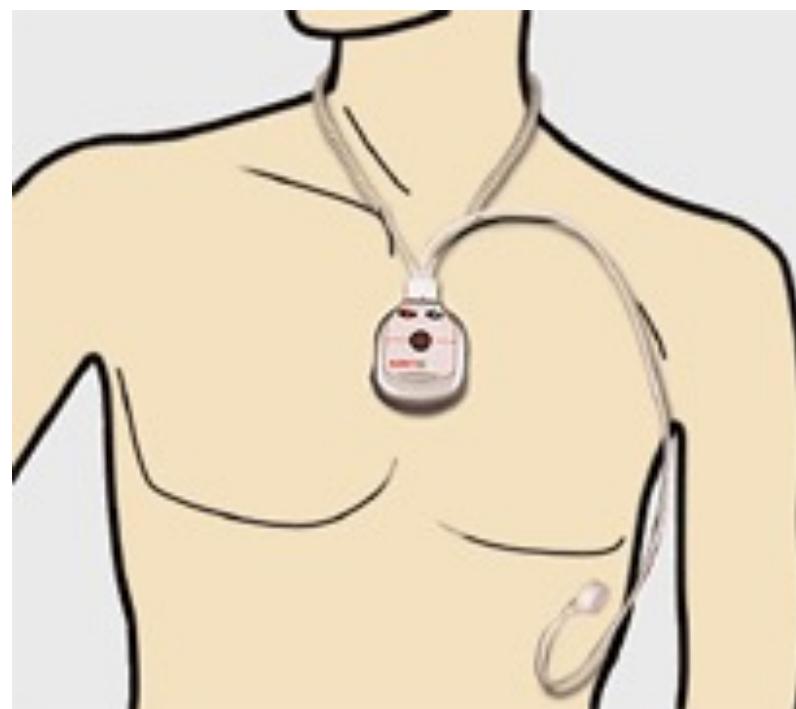
- ✓ Syncopes/Troubles de la conduction
- ✓ Palpitations/Fibrillation atriale/Tachycardies



Syncope : Les outils diagnostiques

Examen Holter



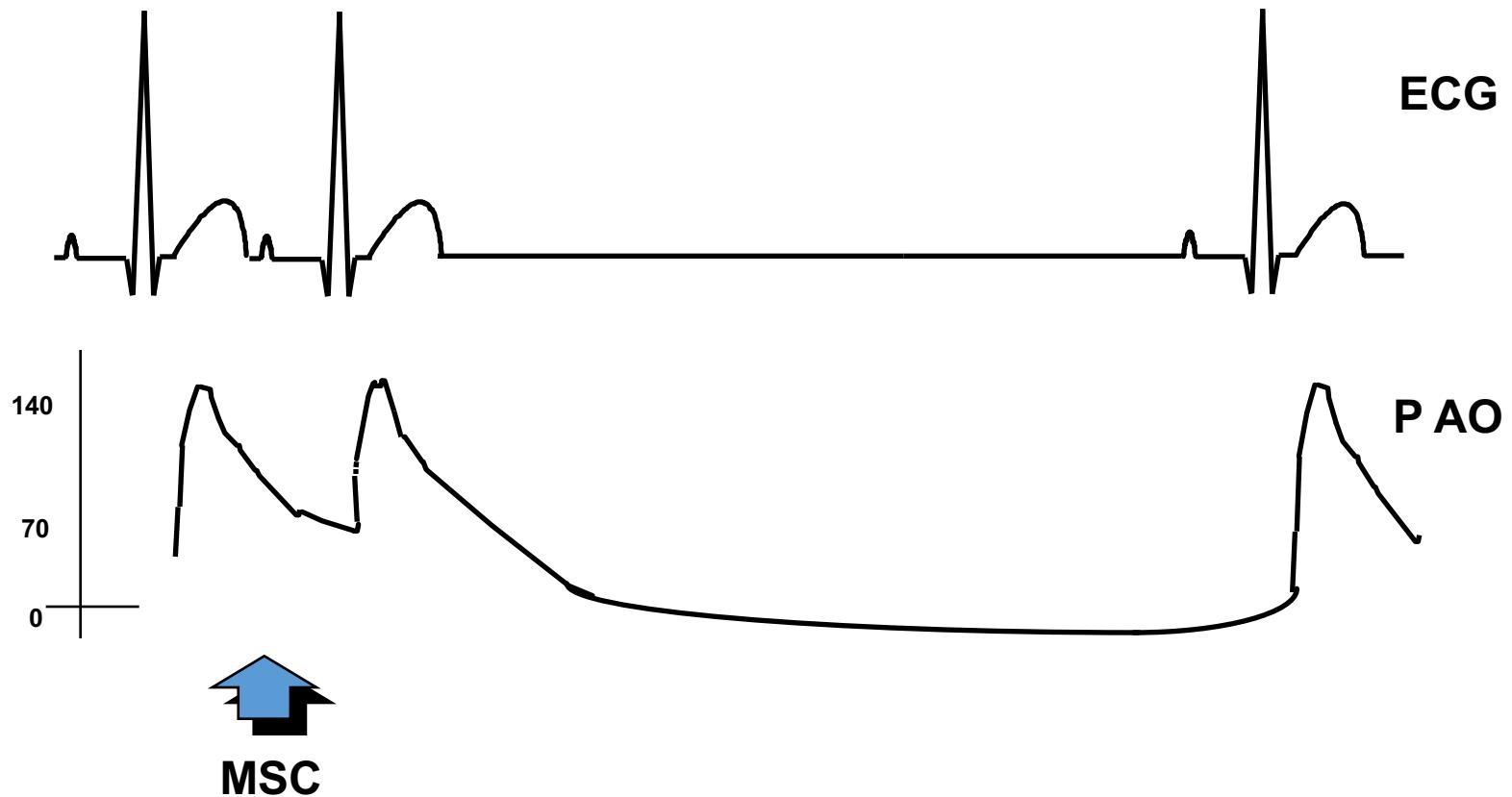




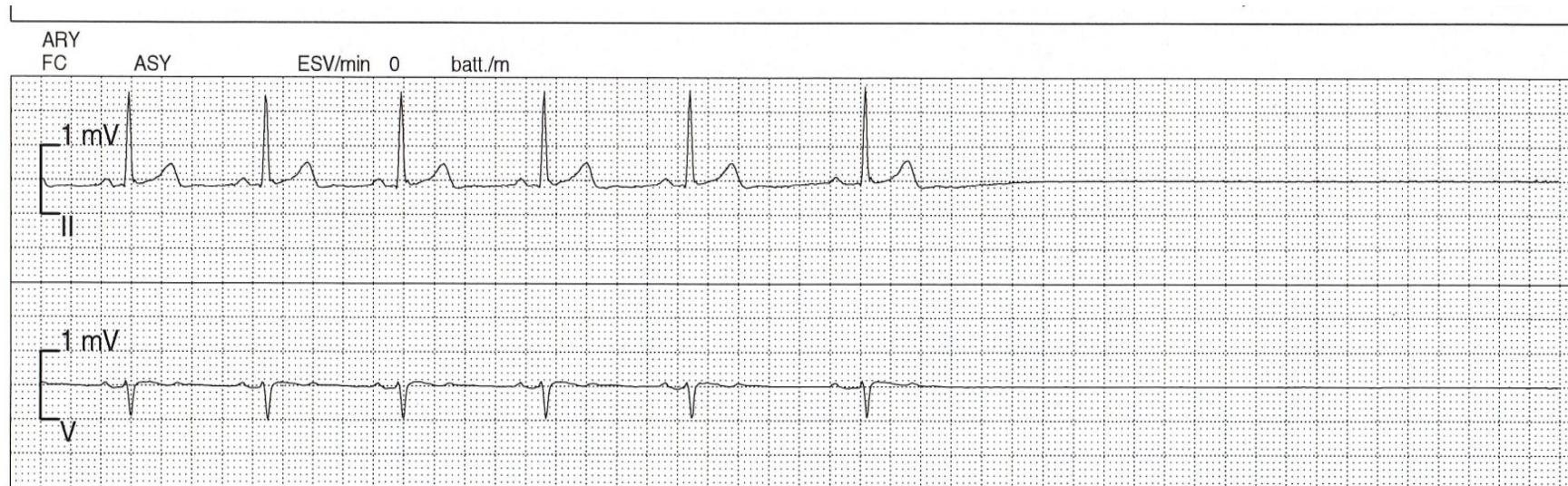
Dysfonction sinusale

- Bradycardie <50 /min?
- Syndrome brady-tachycardie++++
- *Epreuve d'effort++++*

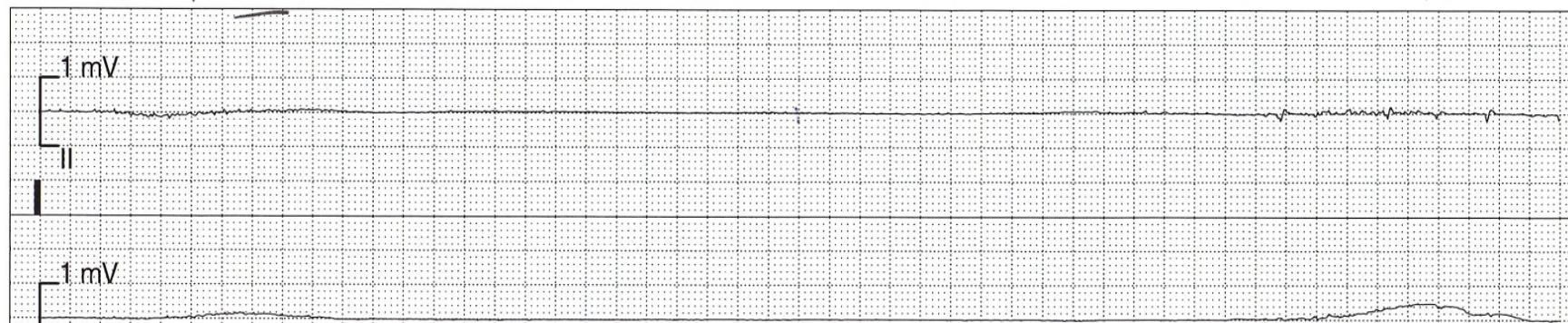
Syndrome Sino-Carotidien



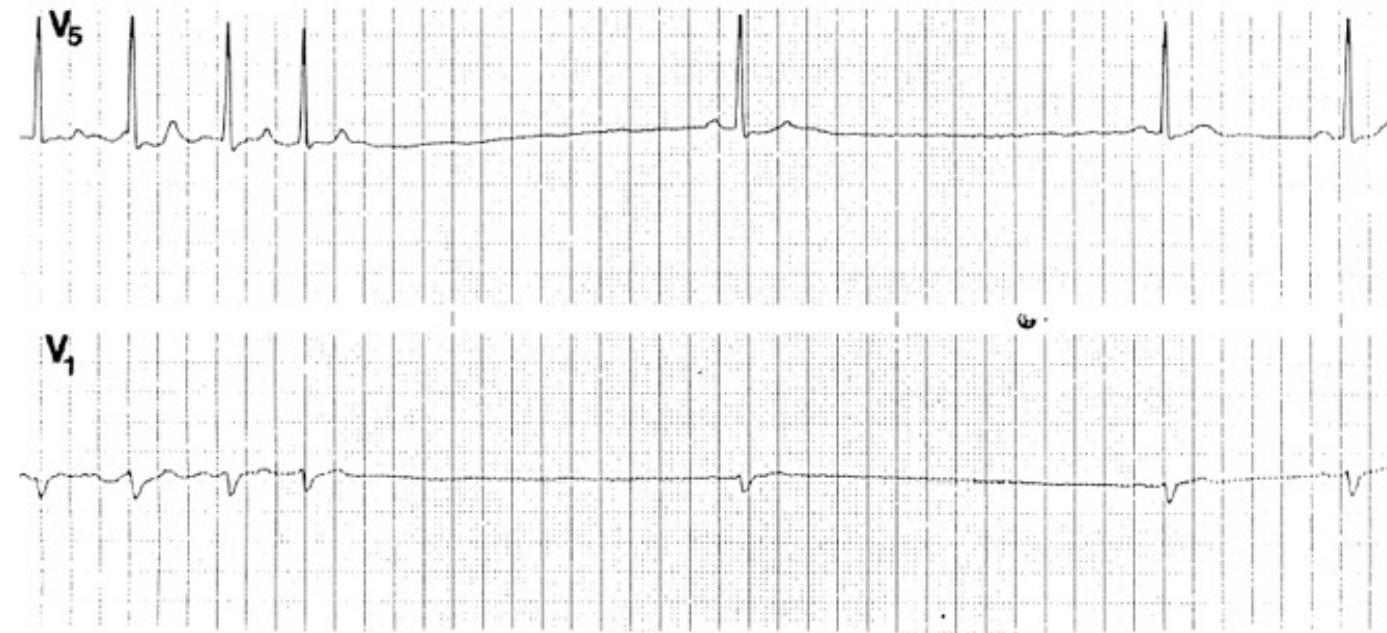
Lipothymies



MALAISE



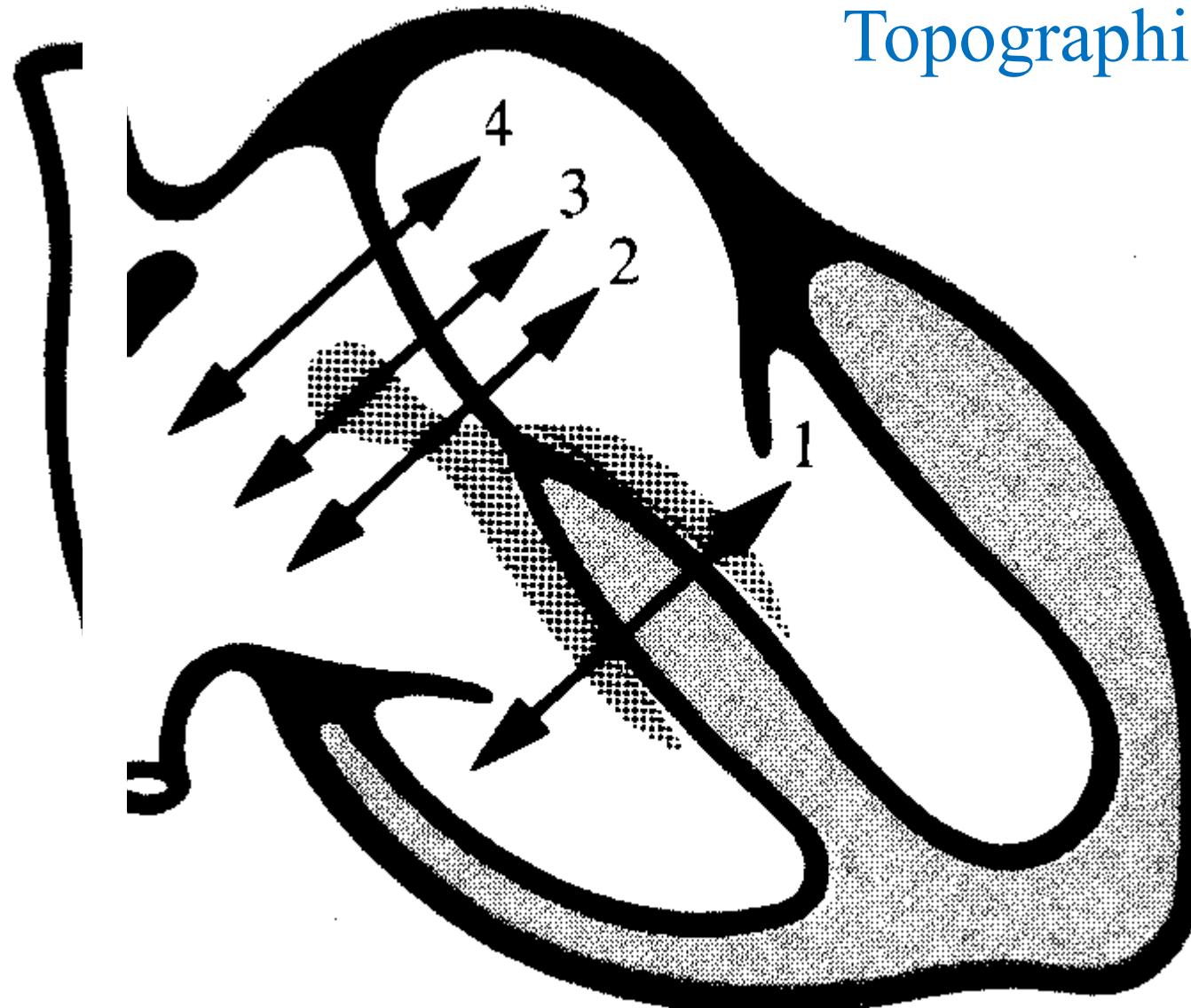
Maladie de l'oreillette



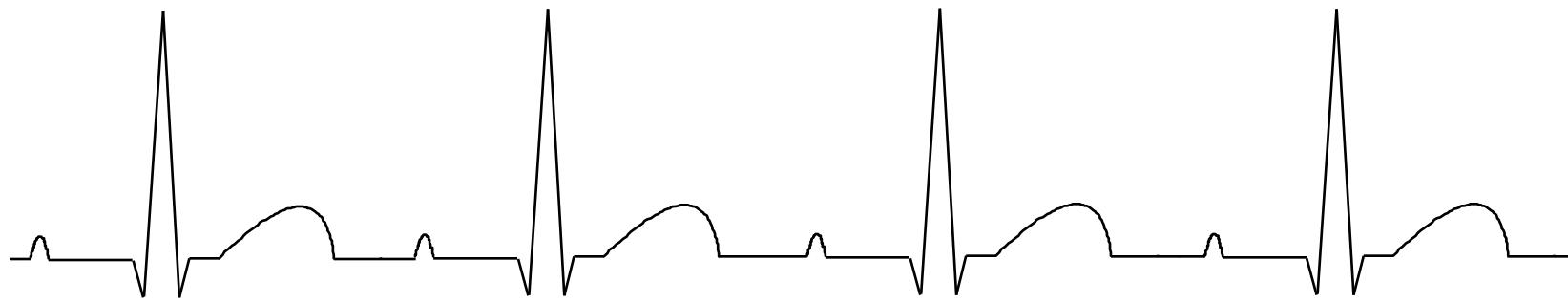
Blocs atrio-ventriculaires

- Retard ou absence de conduction dans la jonction Atrio ventriculaire

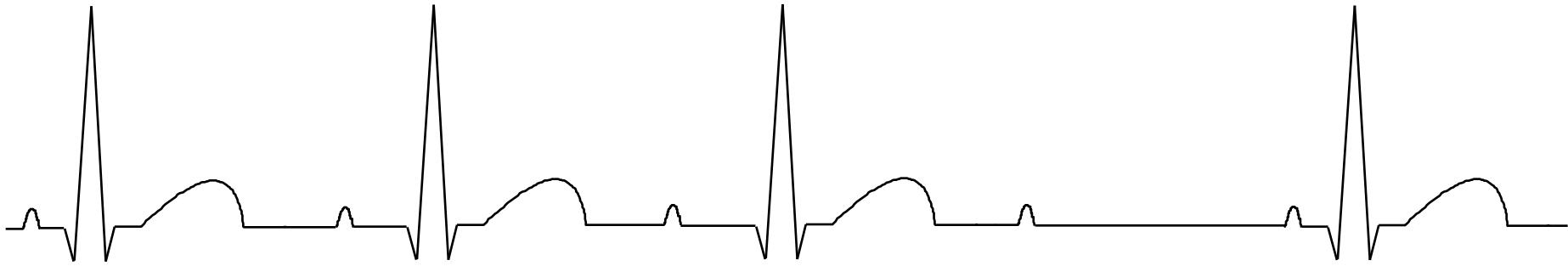
Bloc atrio-ventriculaires: Topographie



Bloc AV 1°



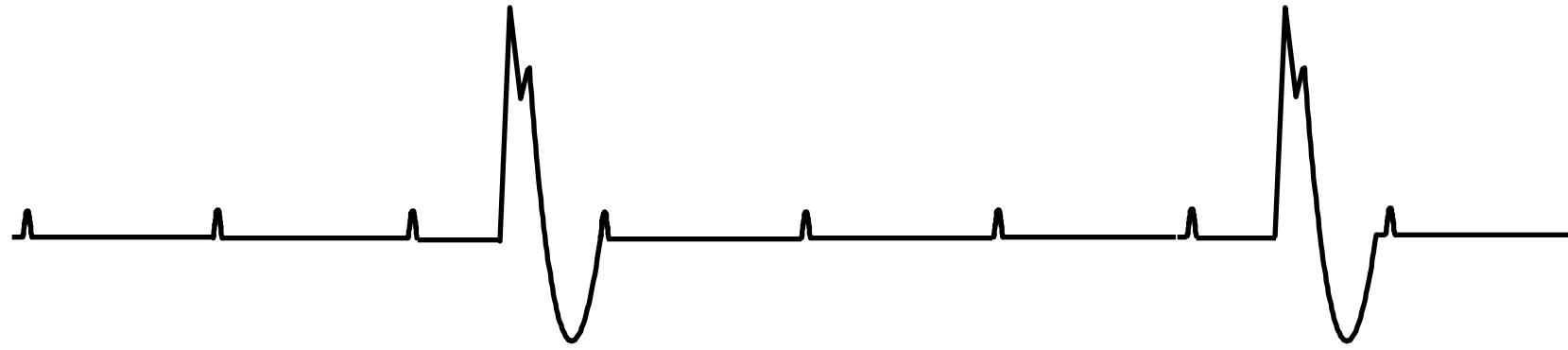
BAV 2°
Luciani Wenckebach



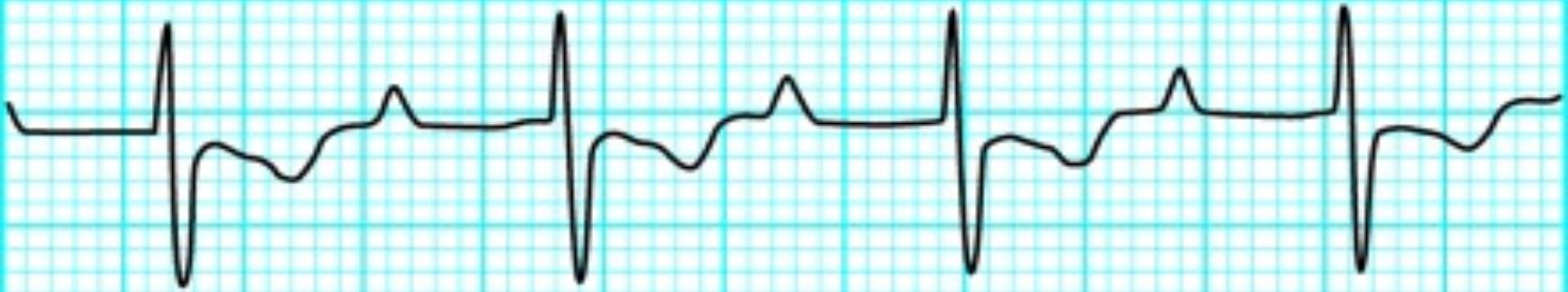
BAV 2°
Mobitz II

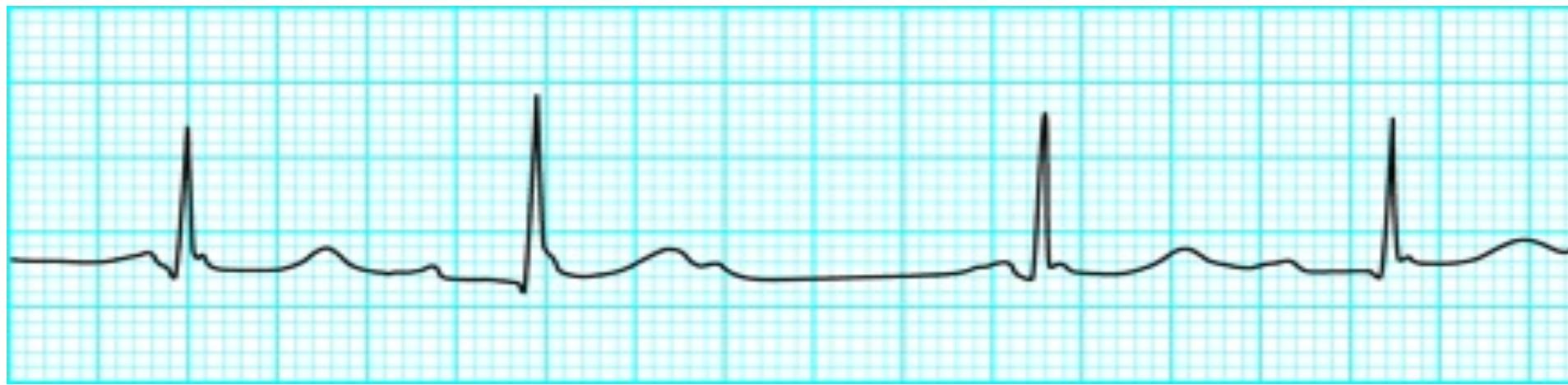


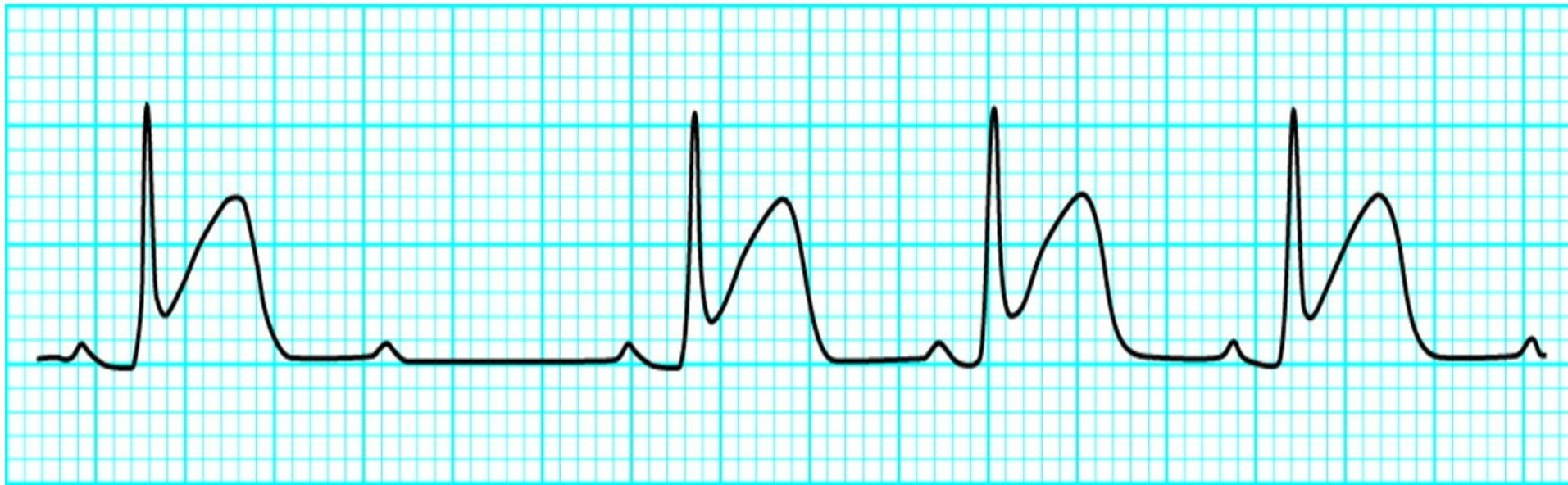
BAV 3°
bloc complet

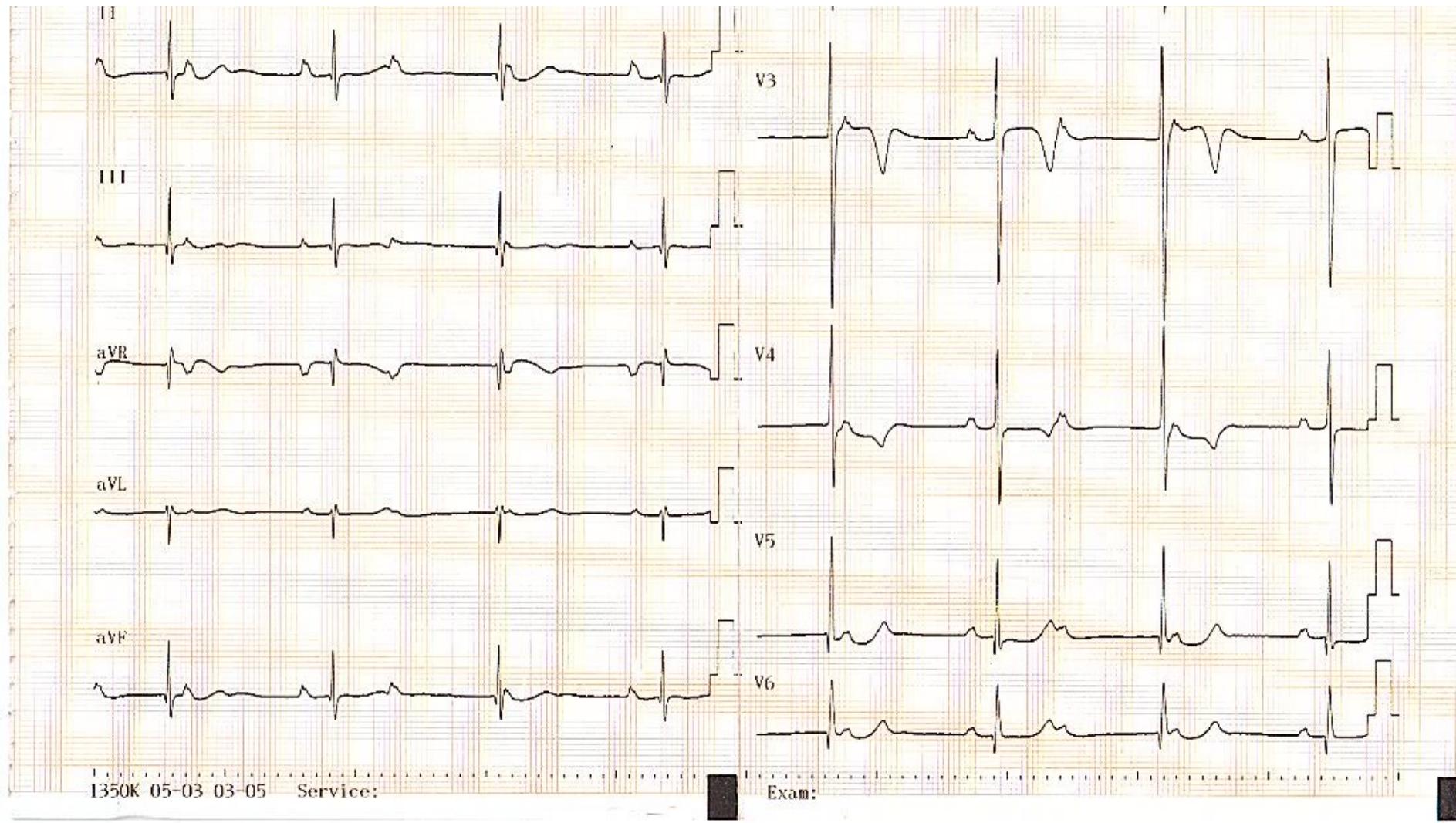


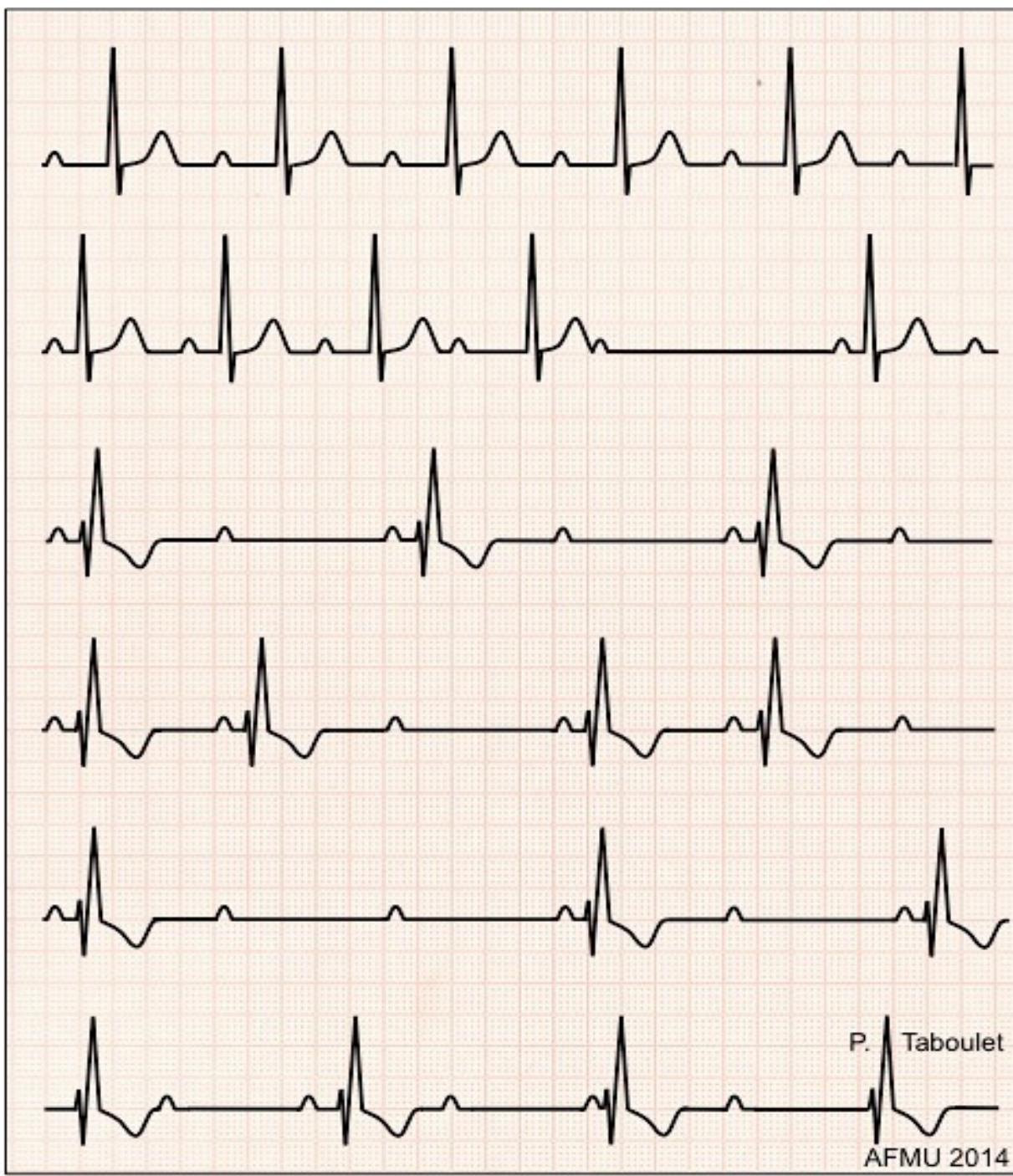
V2

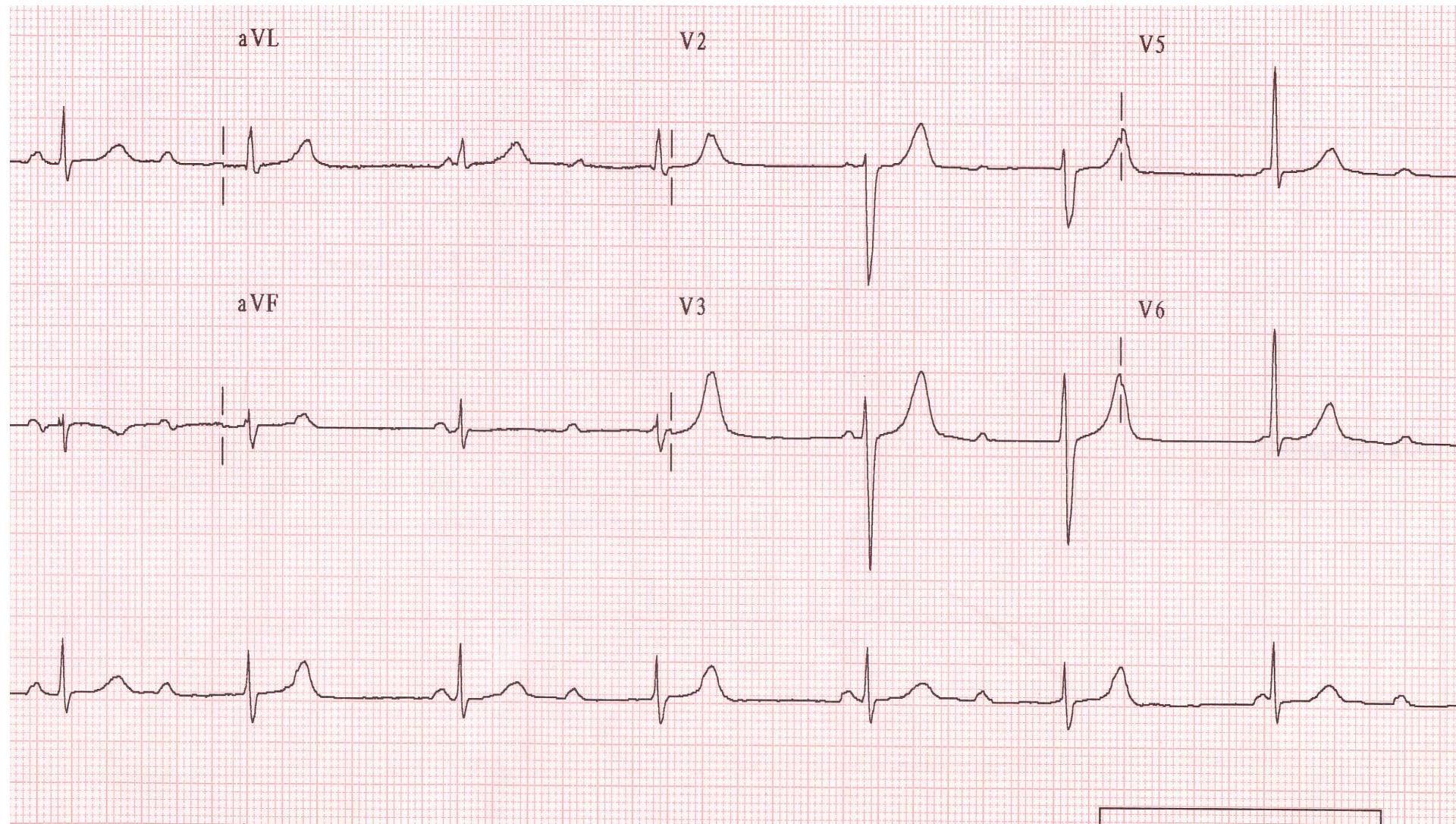


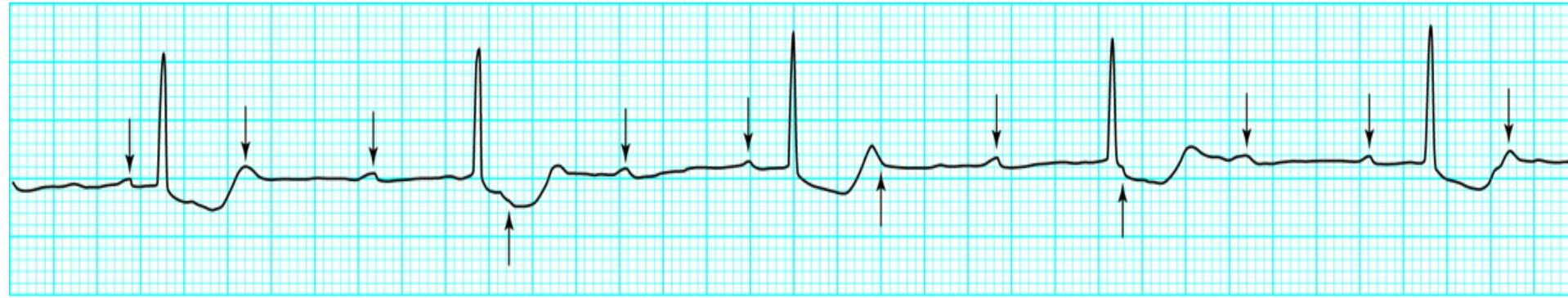




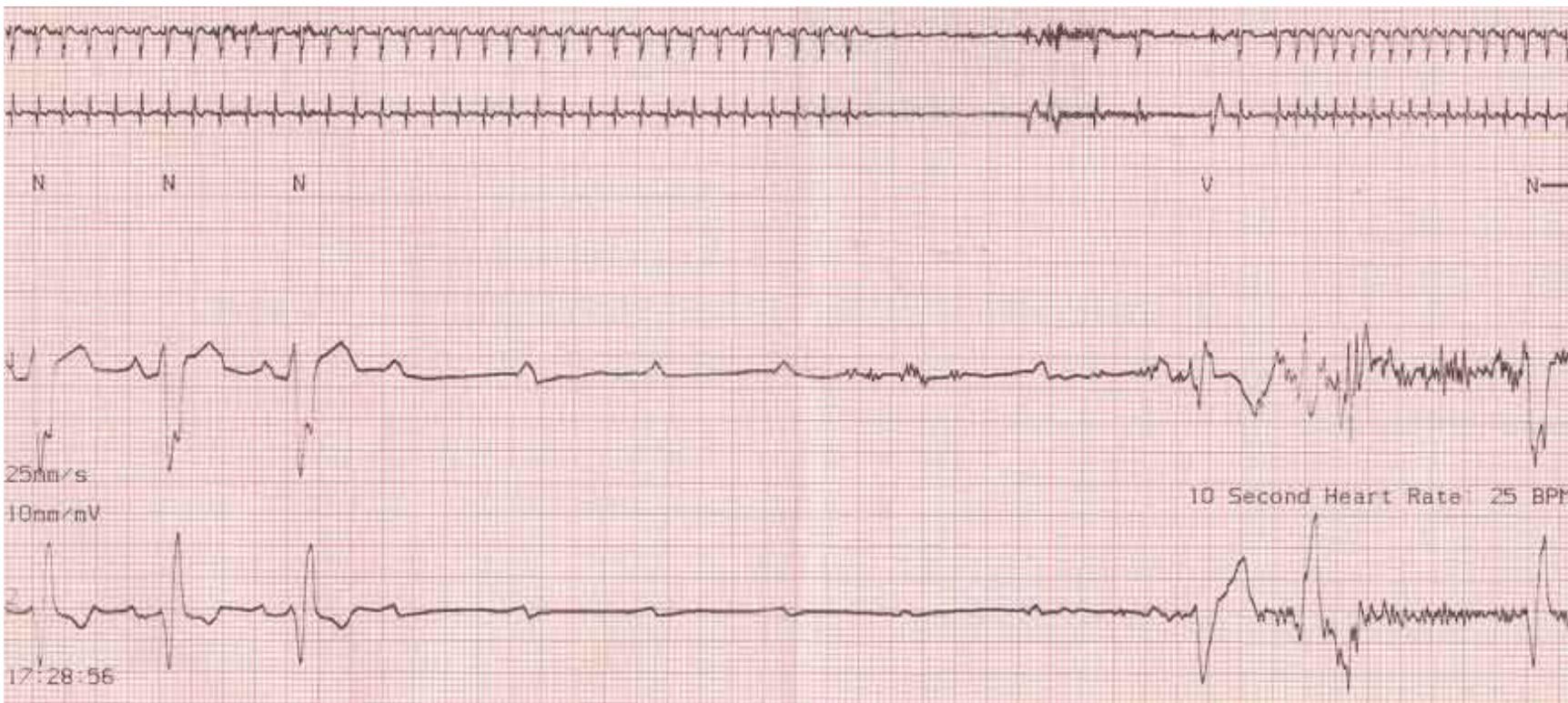




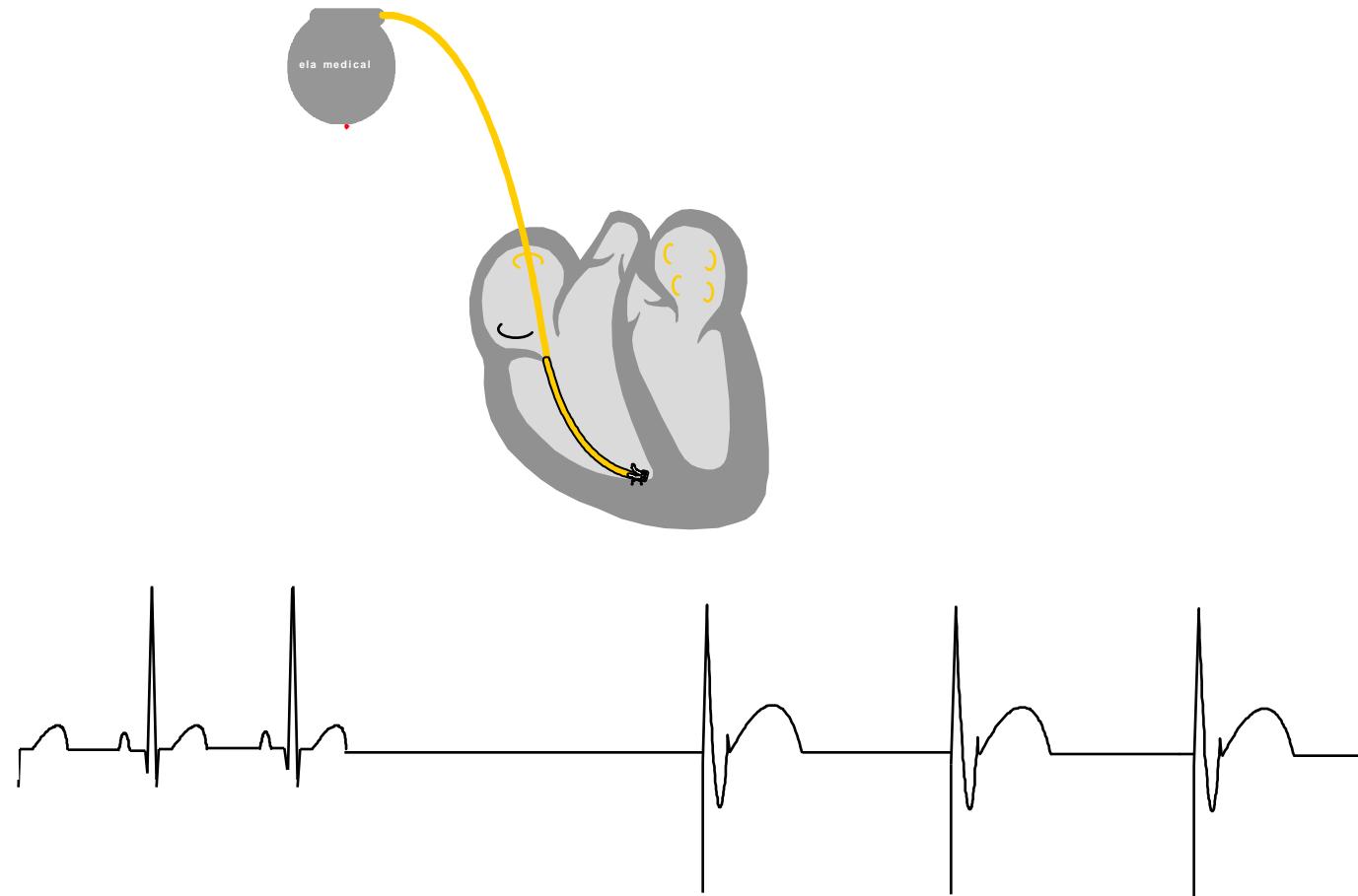




Syncope

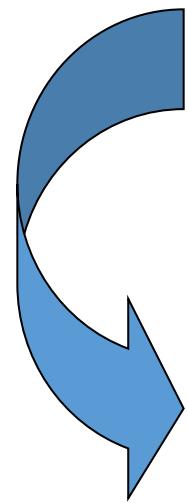


Stimulation simple chambre VVI Pace Maker

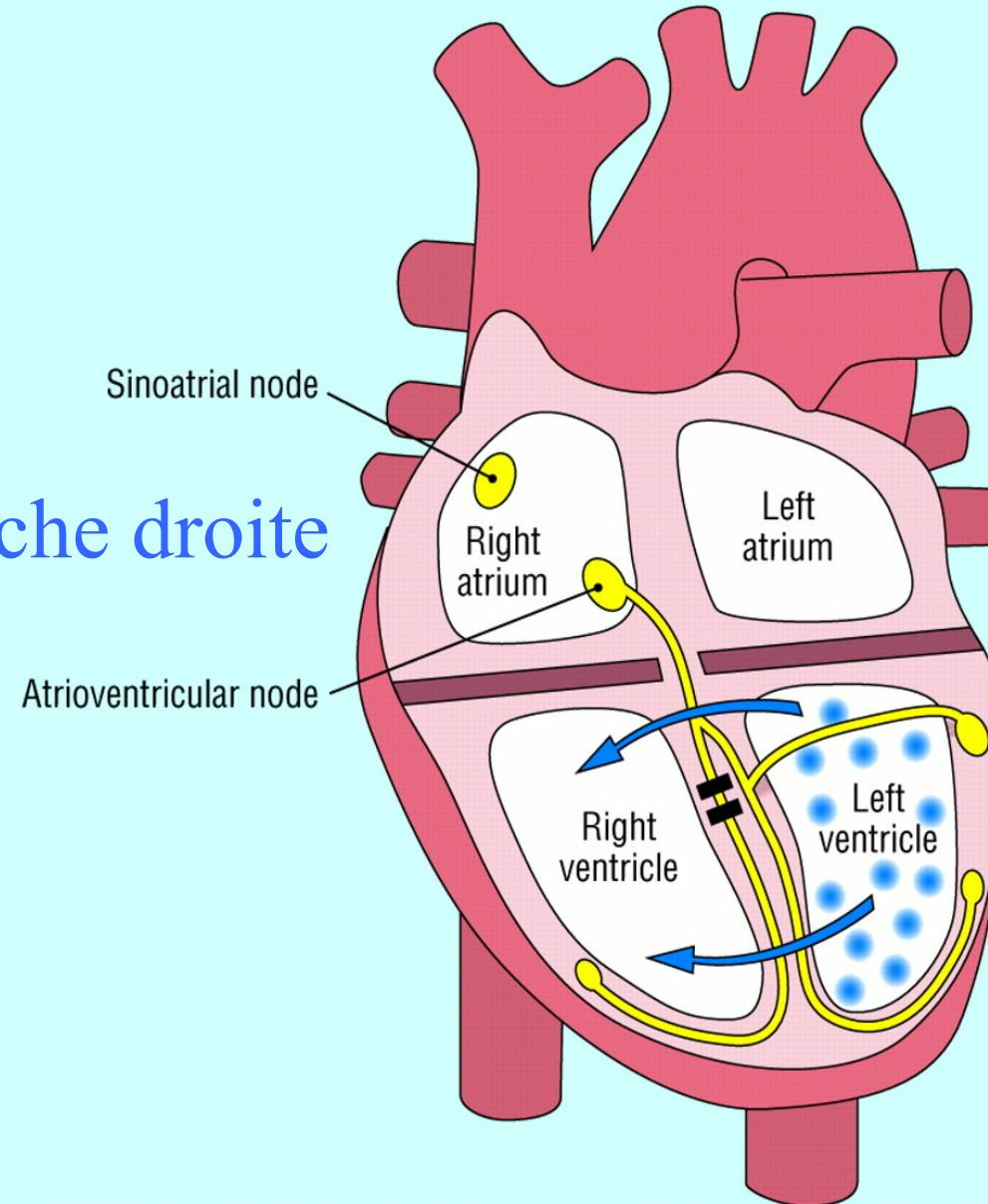




Resynchronisation ventriculaire

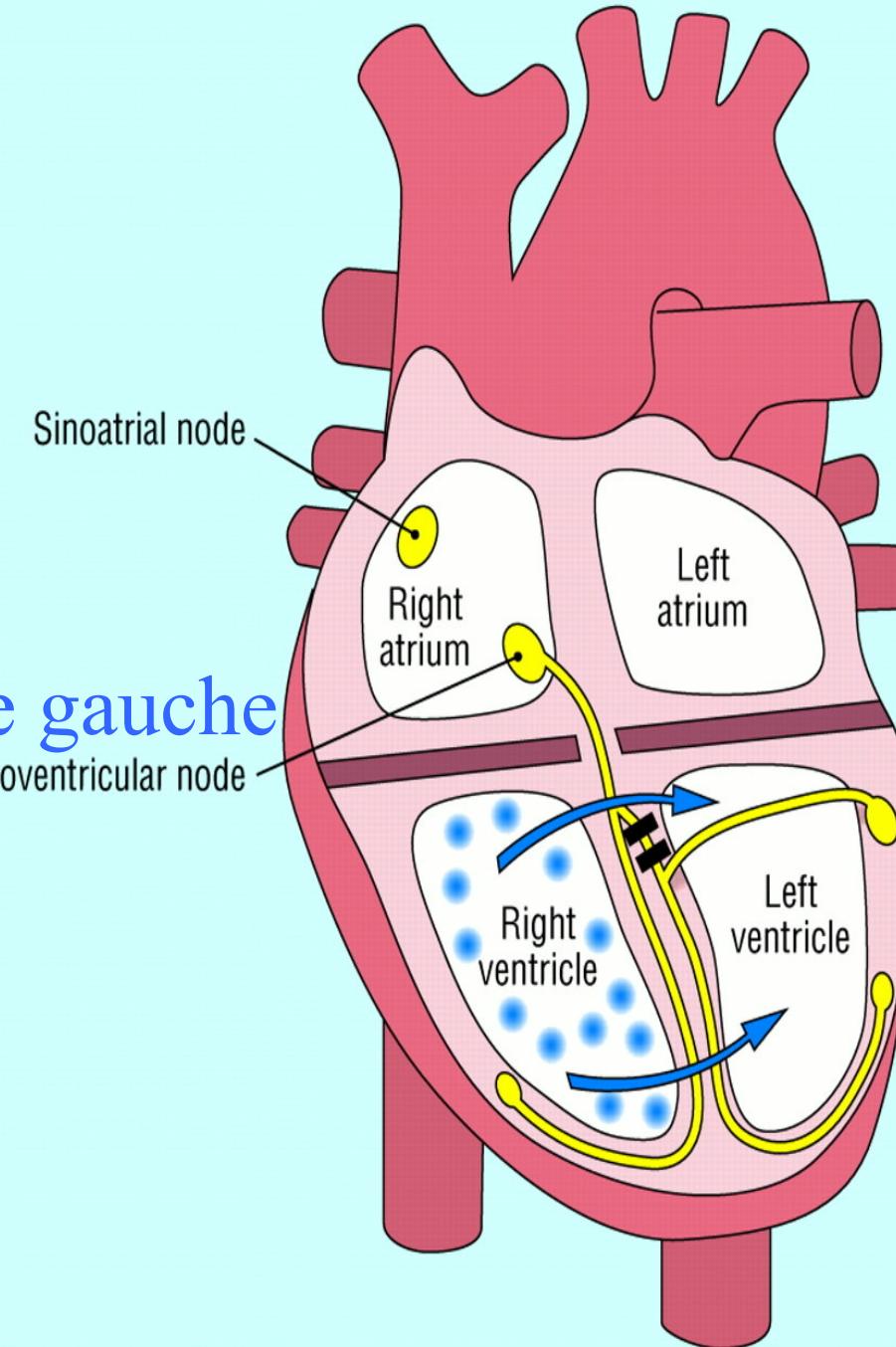


Bloc de branche droite

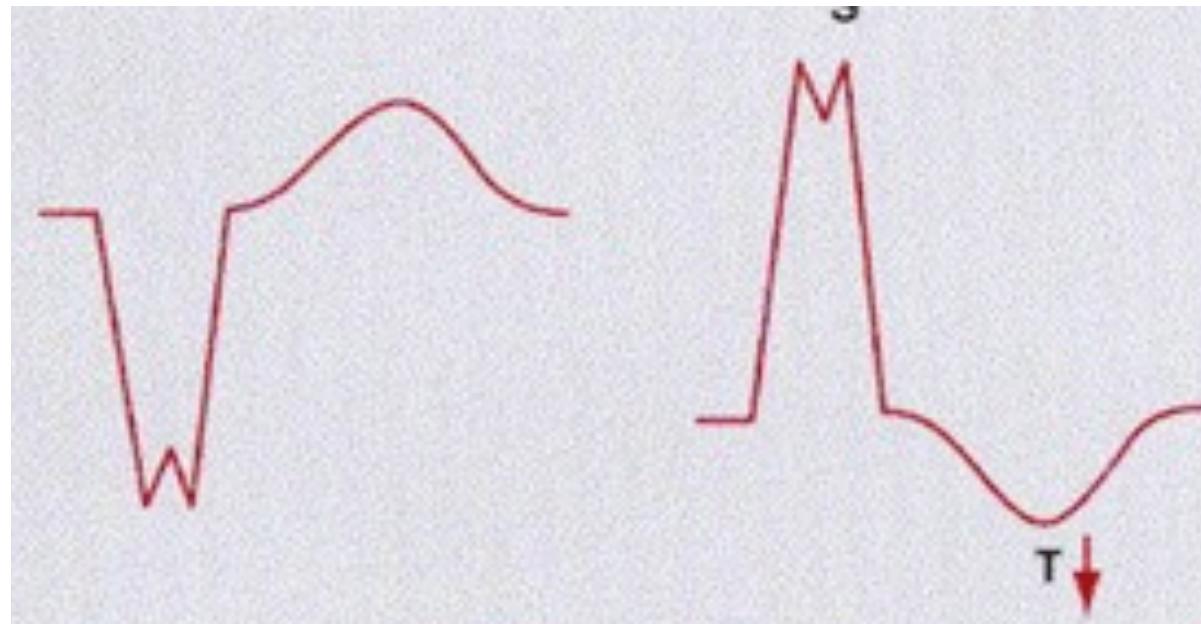




Bloc de branche gauche

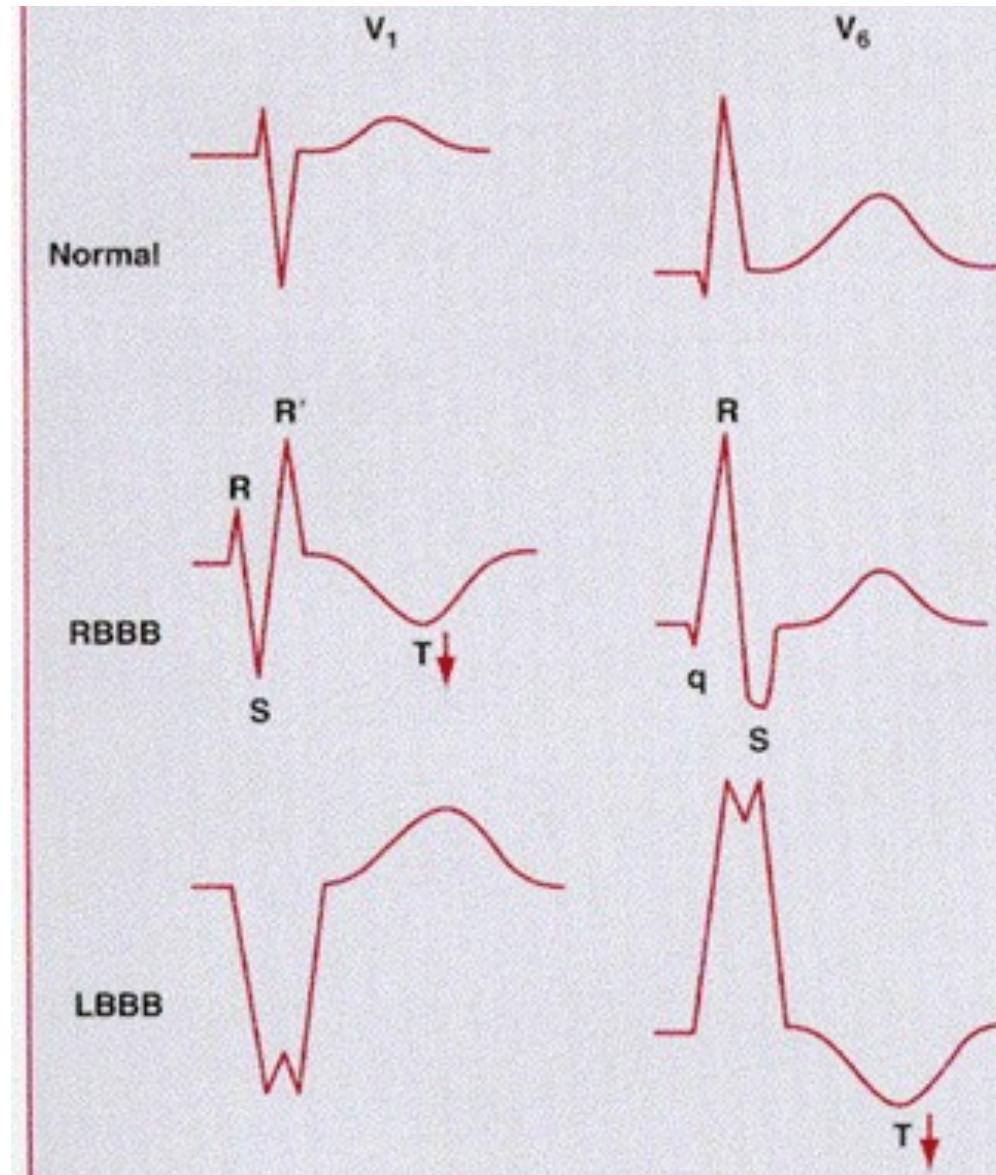


BBG



V1

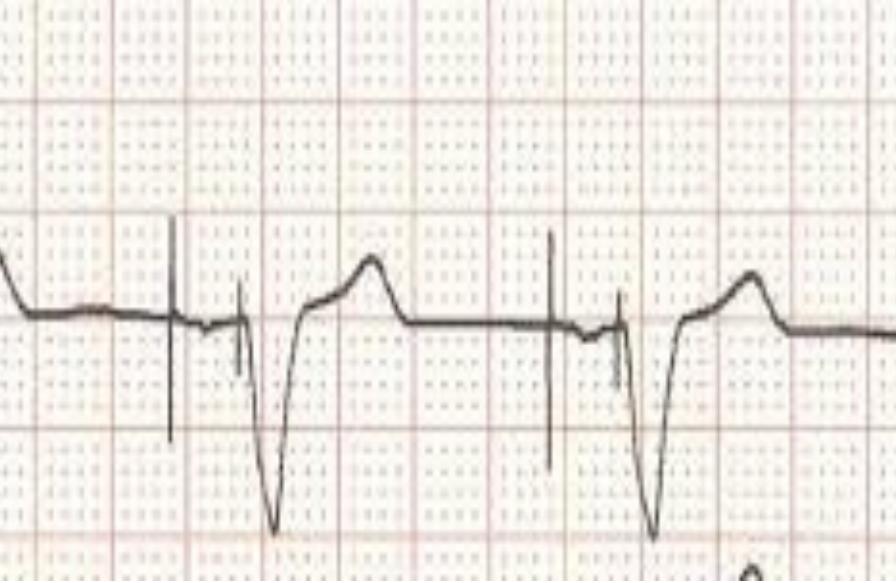
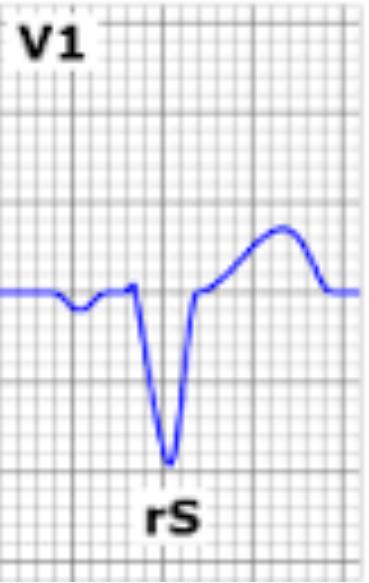
V6



Normal

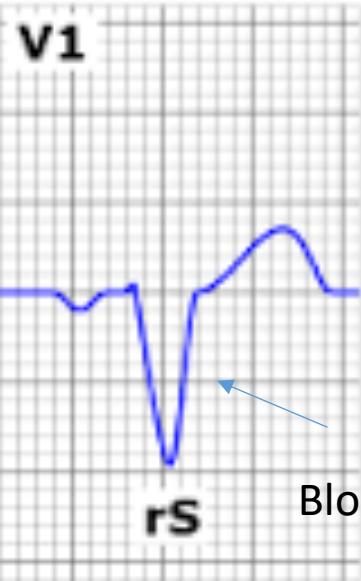
BBD

BBG

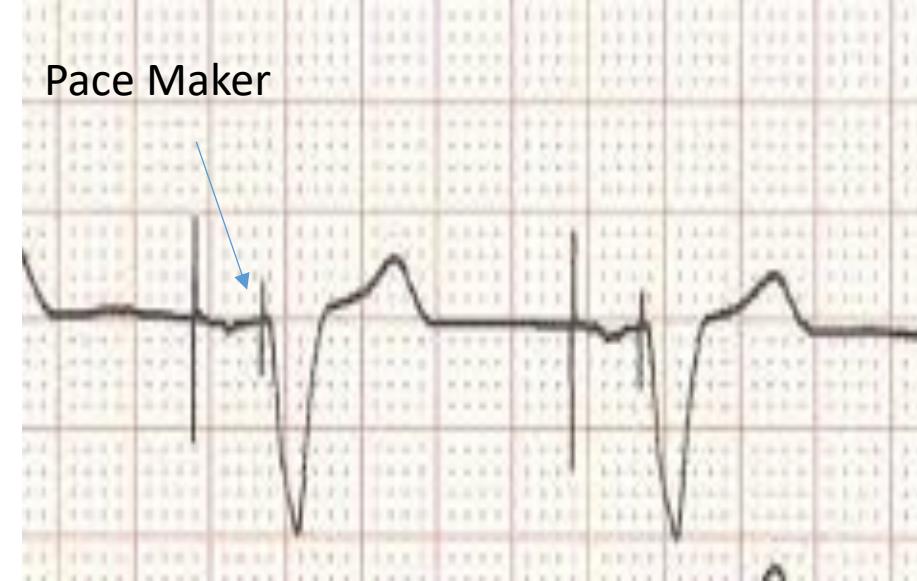


QRS larges?

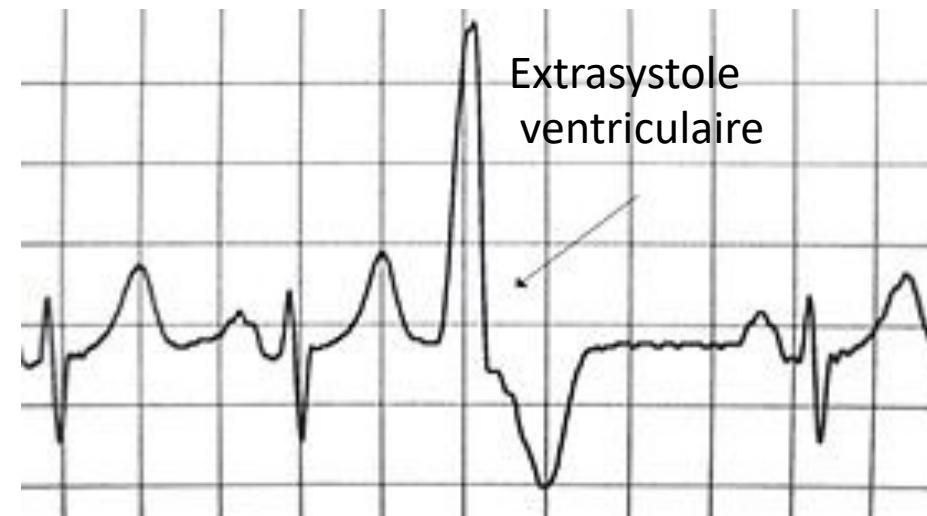




Bloc de Branche



QRS larges?





Lyon 1

Rythmologie

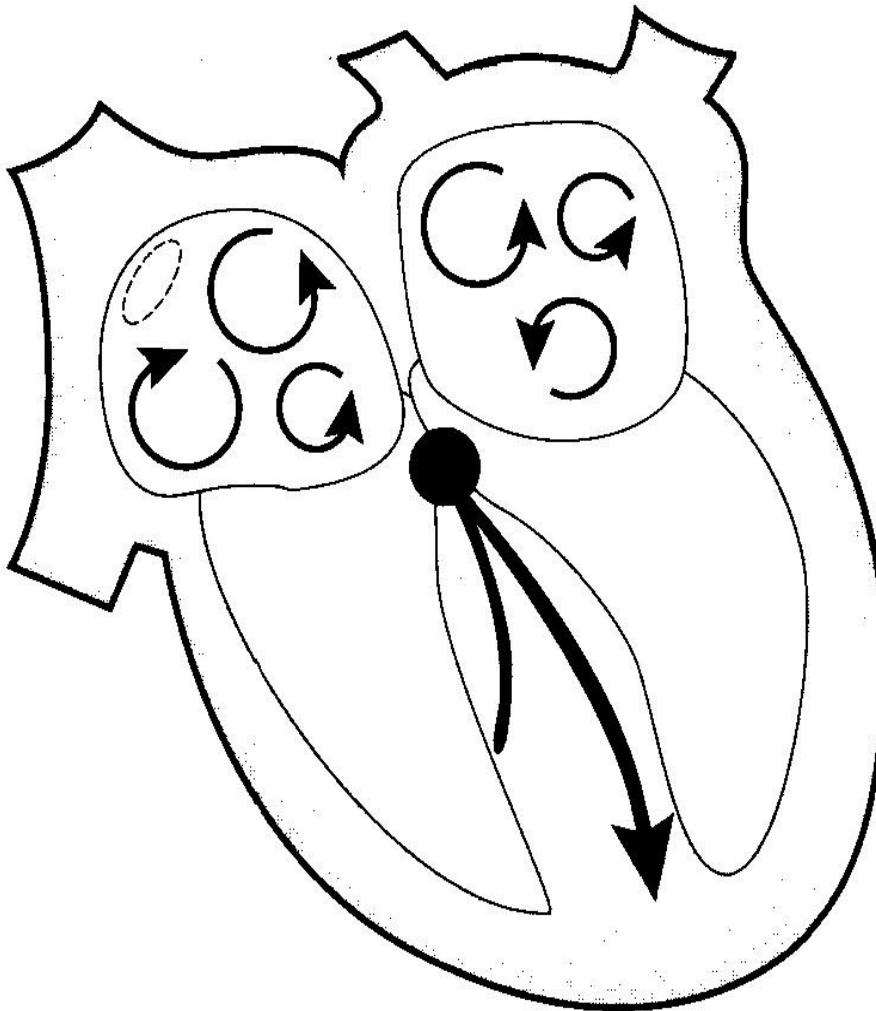
Philippe Chevalier

- ✓ Syncopes/Troubles de la conduction
- ✓ Palpitations/Tachycardies

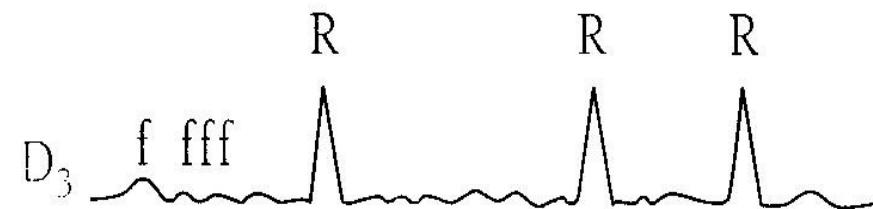
Novembre 2022

Tachycardies/Palpitations

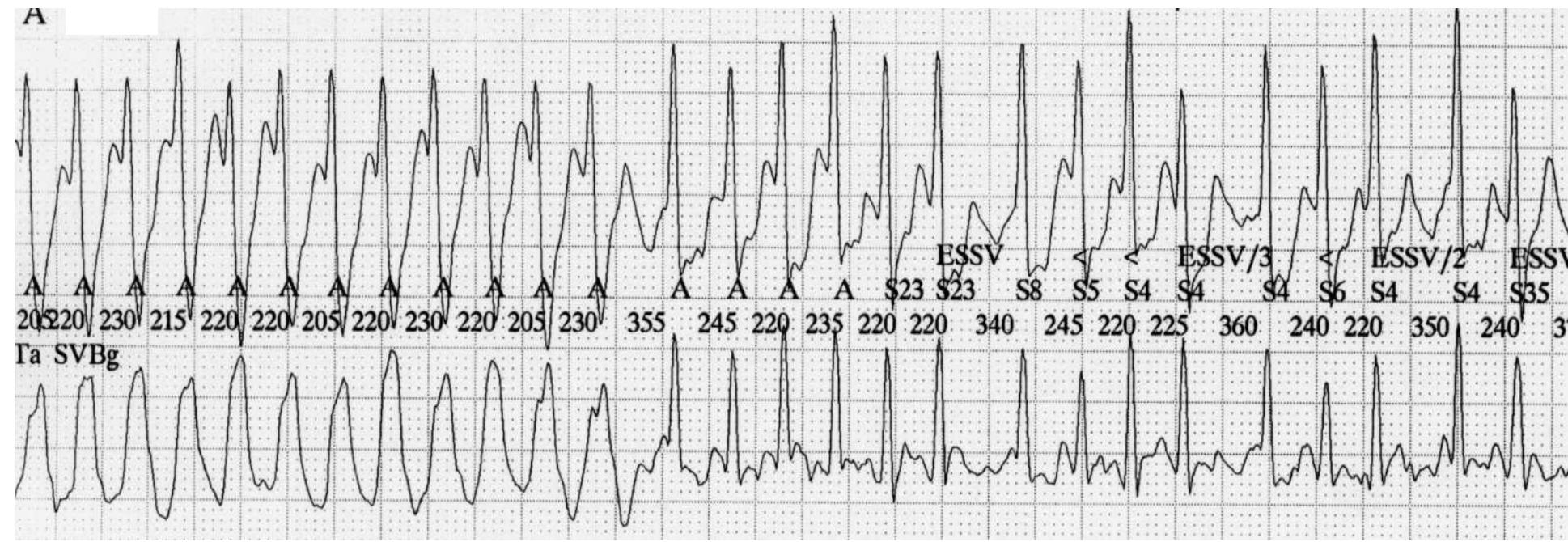
- 1) Tachycardies atriales
- 2) Tachycardies jonctionnelles
- 3) Tachycardies ventriculaires



- Paroxystique
- *Persistante*
- Permanente

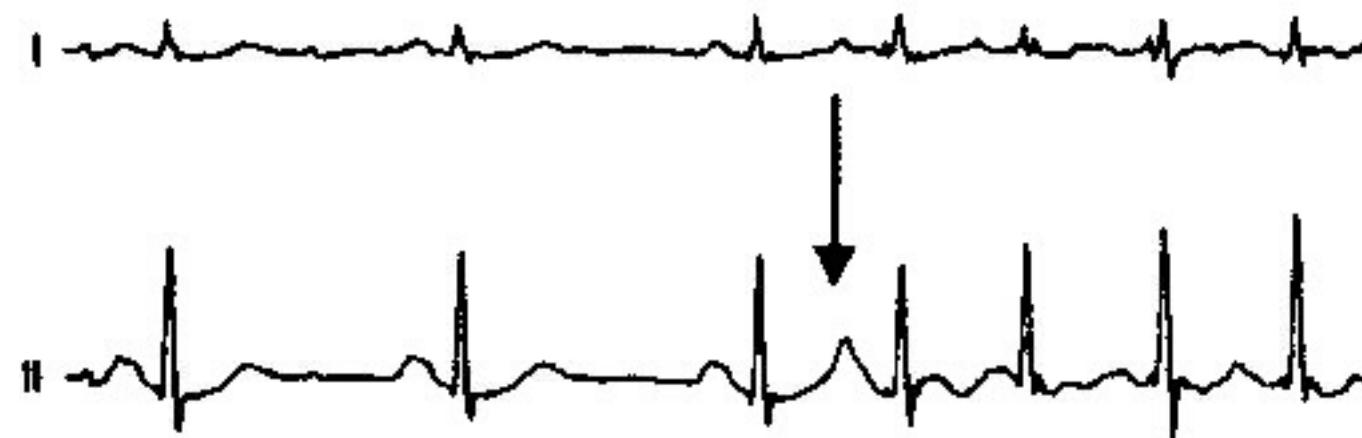


FIBRILLATION ATRIALE

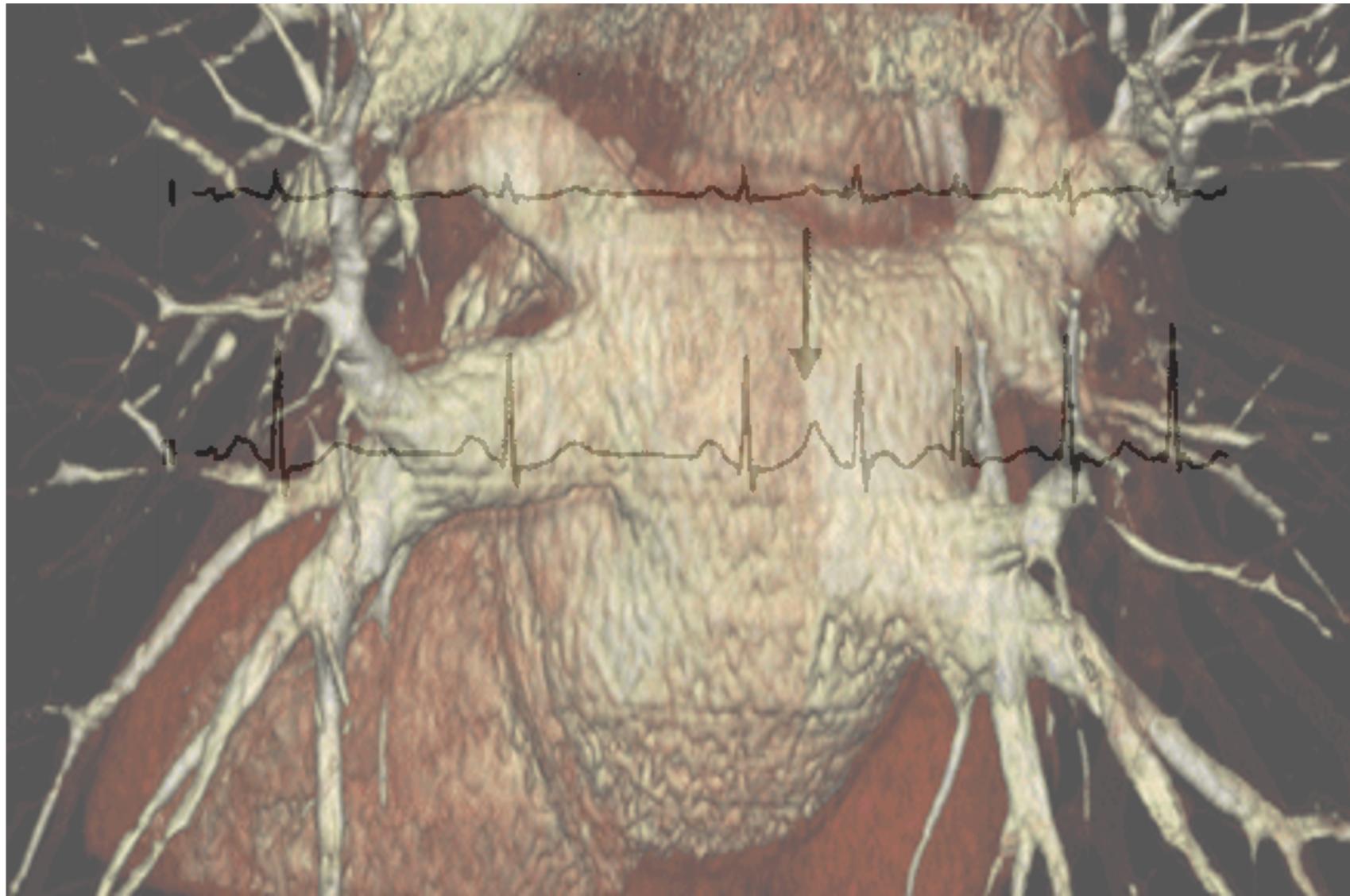


Holter : Fibrillation Atriale

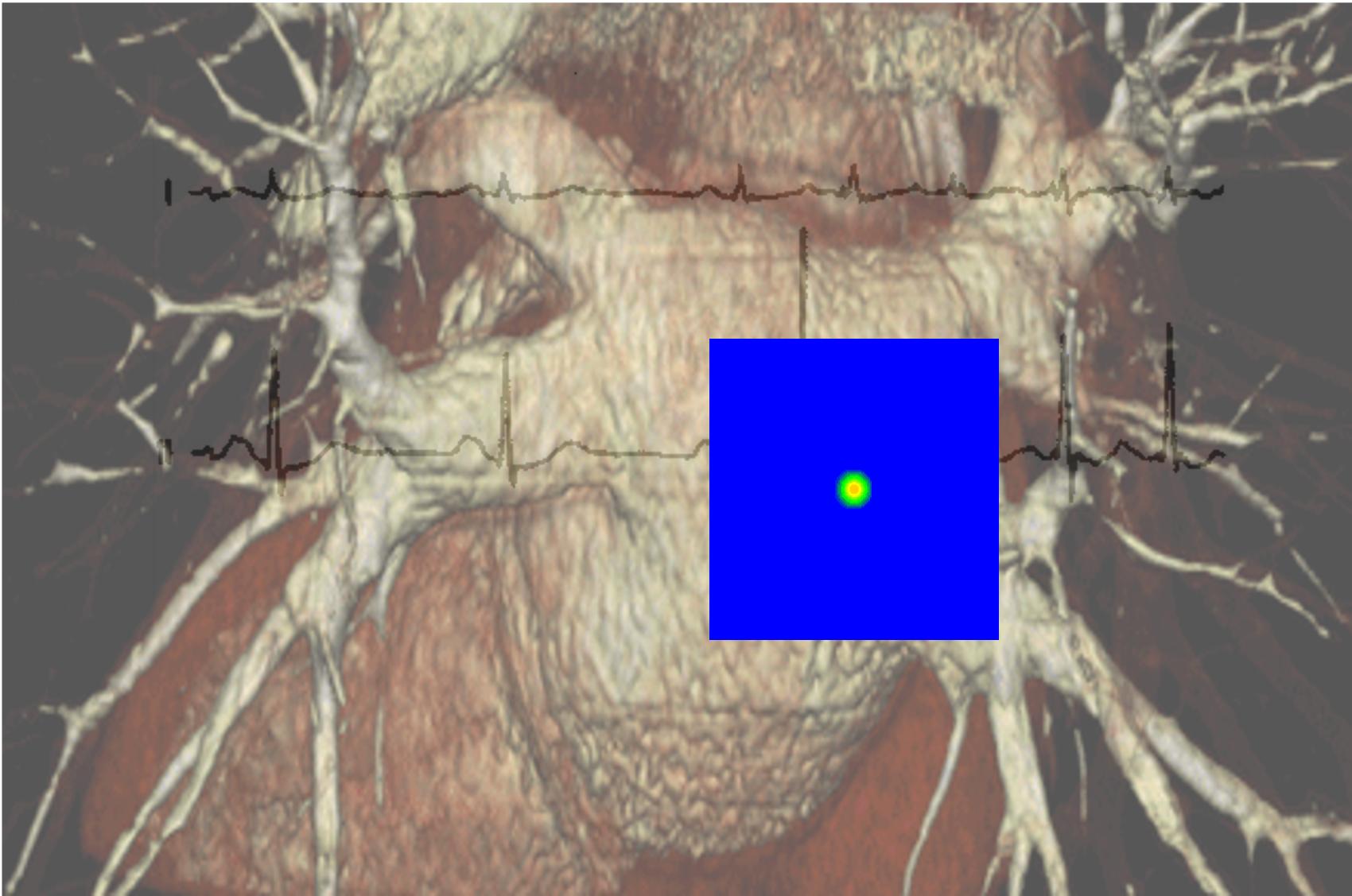
Extra Systole Atriale

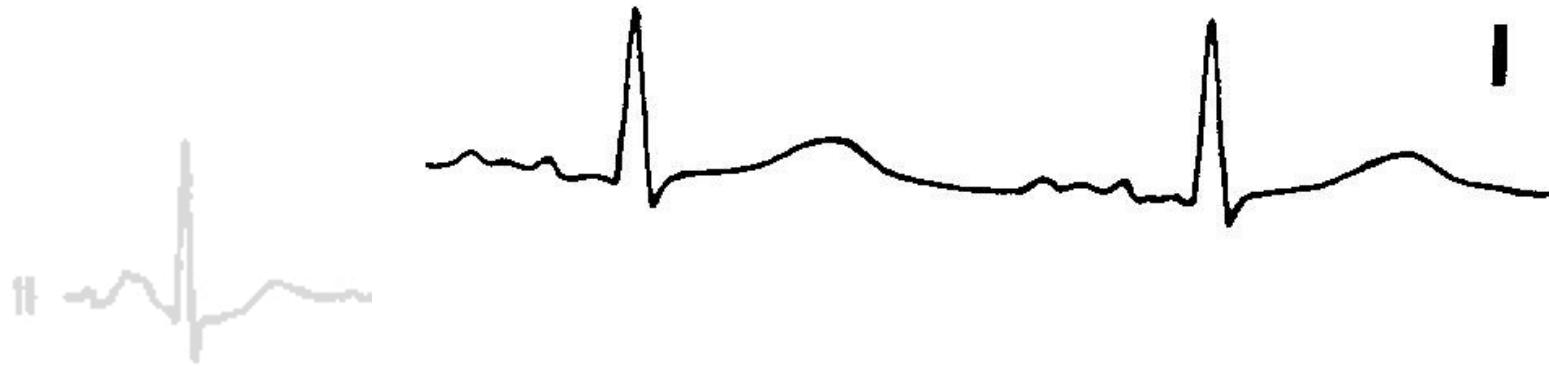


Extra Systole Atriale



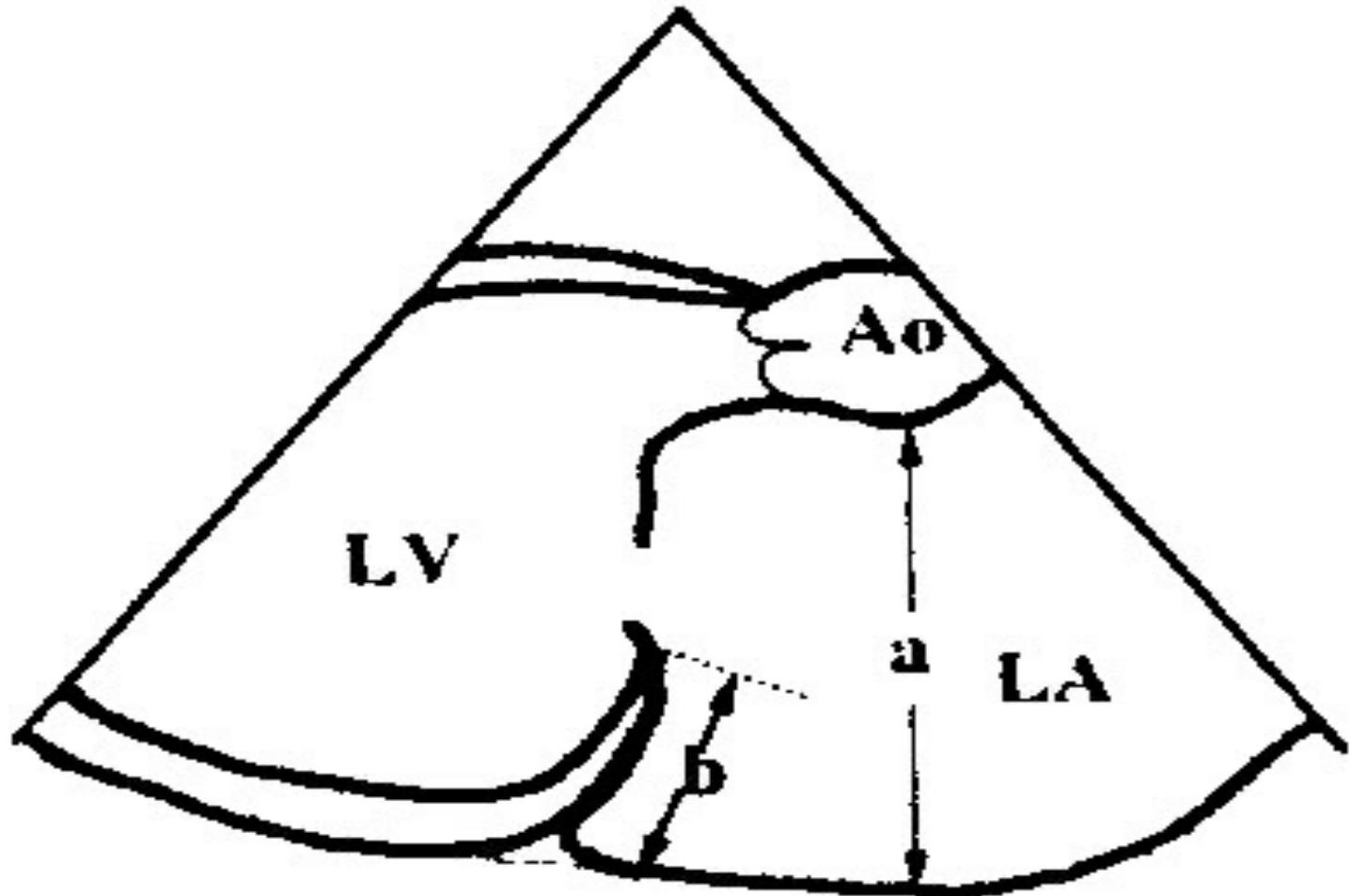
Extra Systole Atriale





II





FA et remodelage anatomique

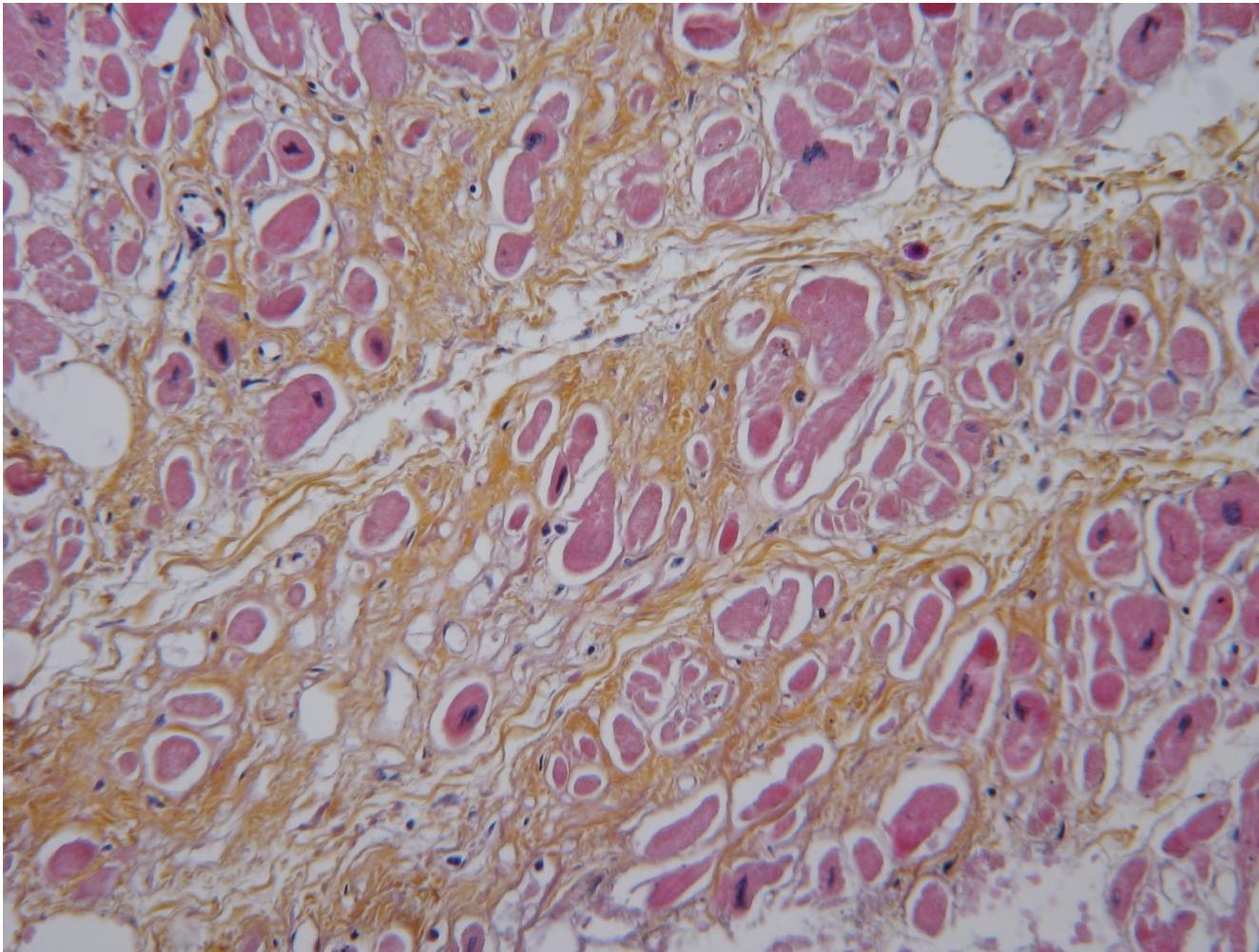


Rythme sinusal

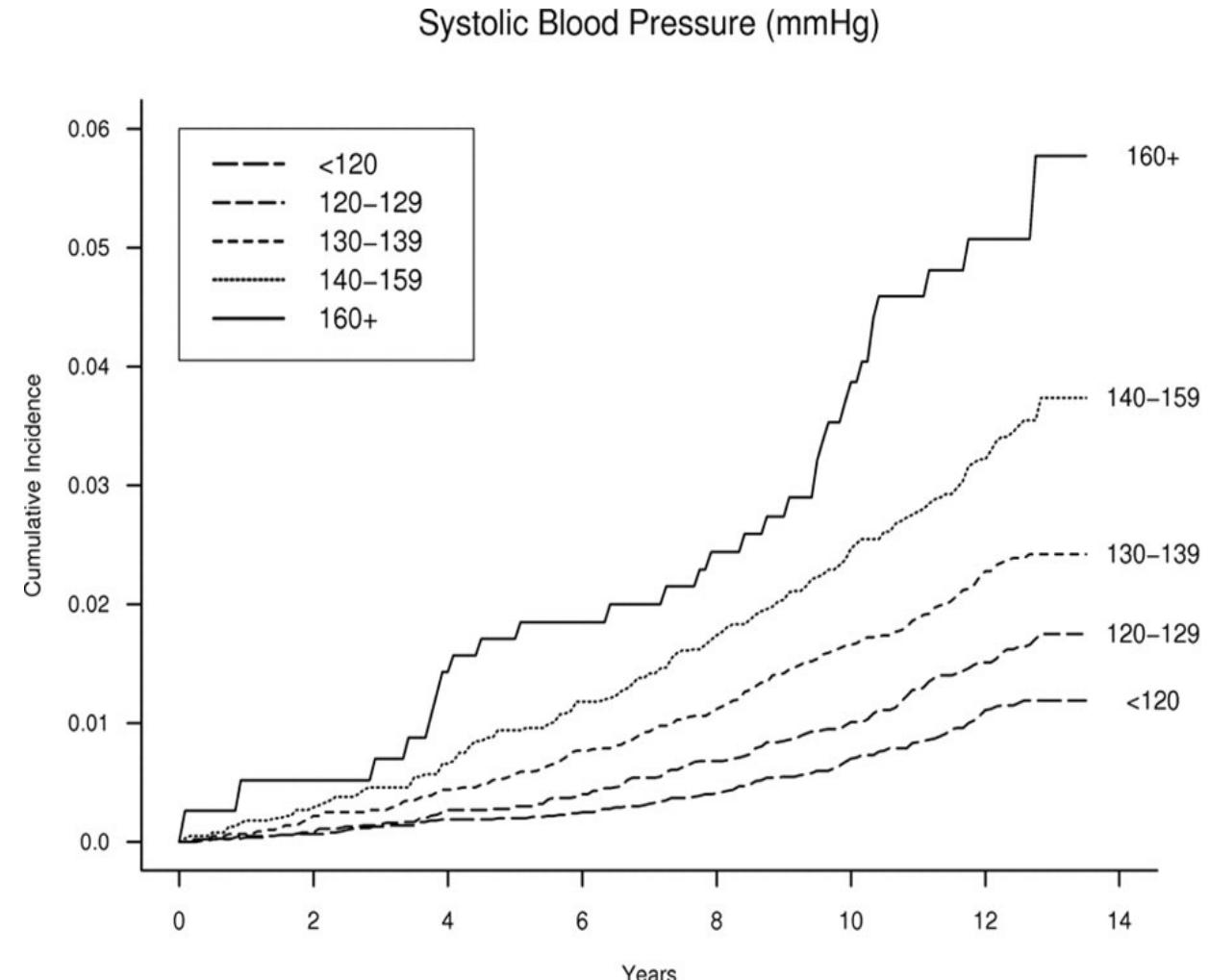


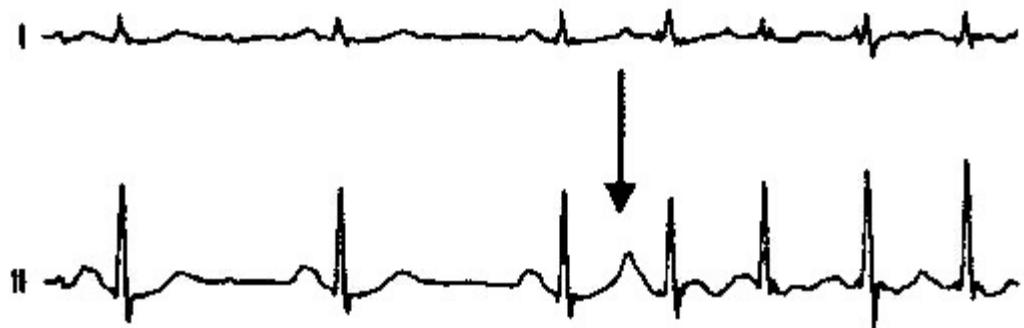
Fibrillation auriculaire

Myopathie atriale

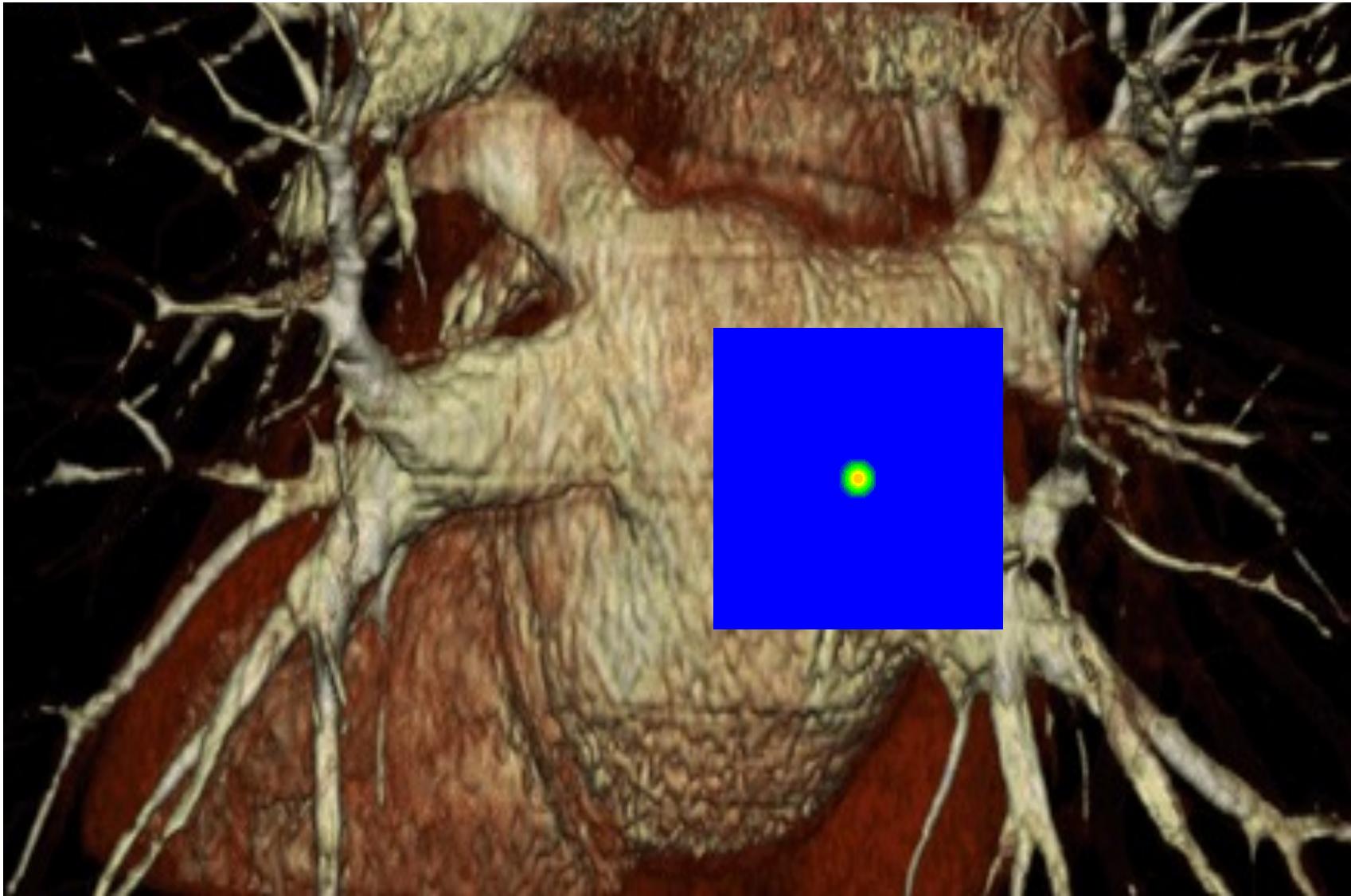


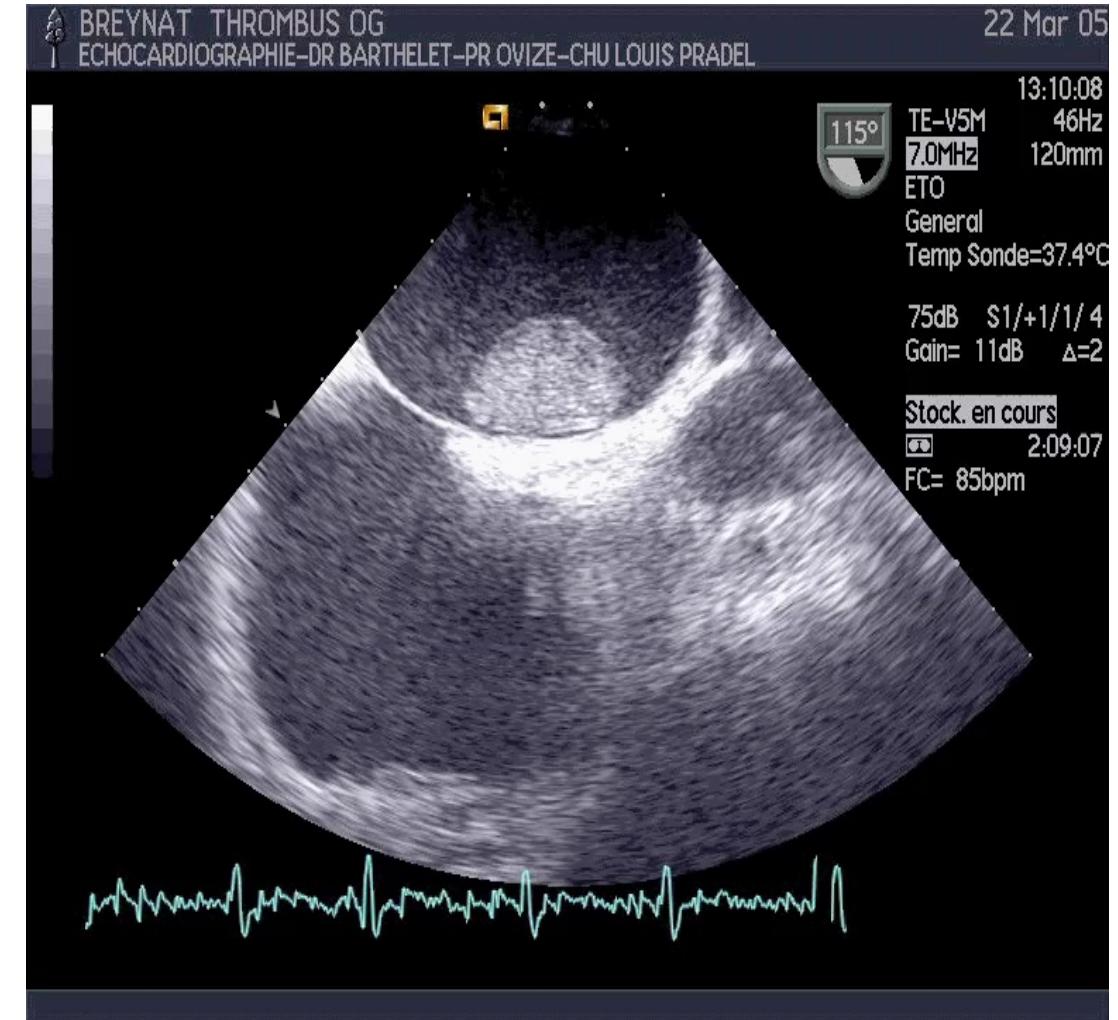
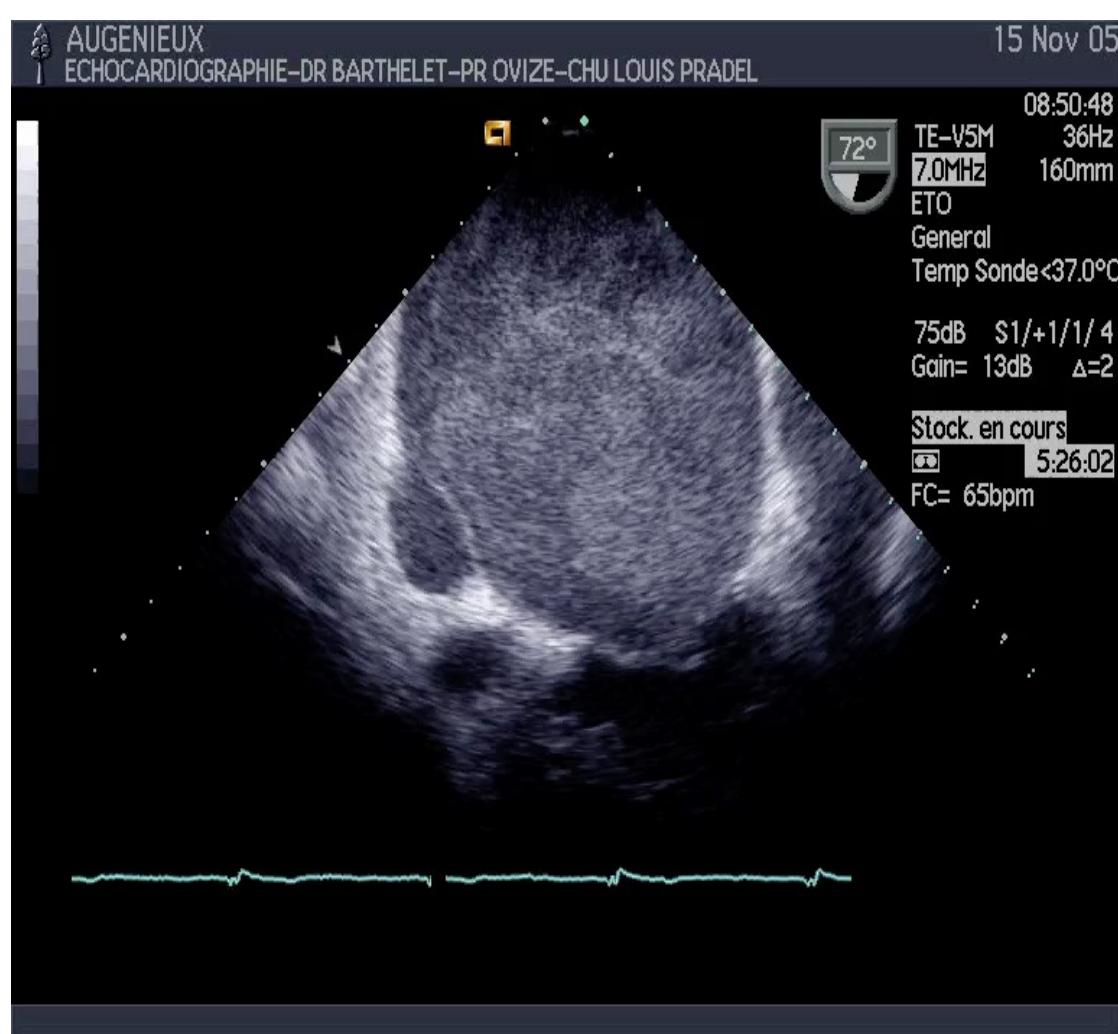
38 876 patients
Rôle de la pression artérielle systolique





ESA d'origine atriales gauches

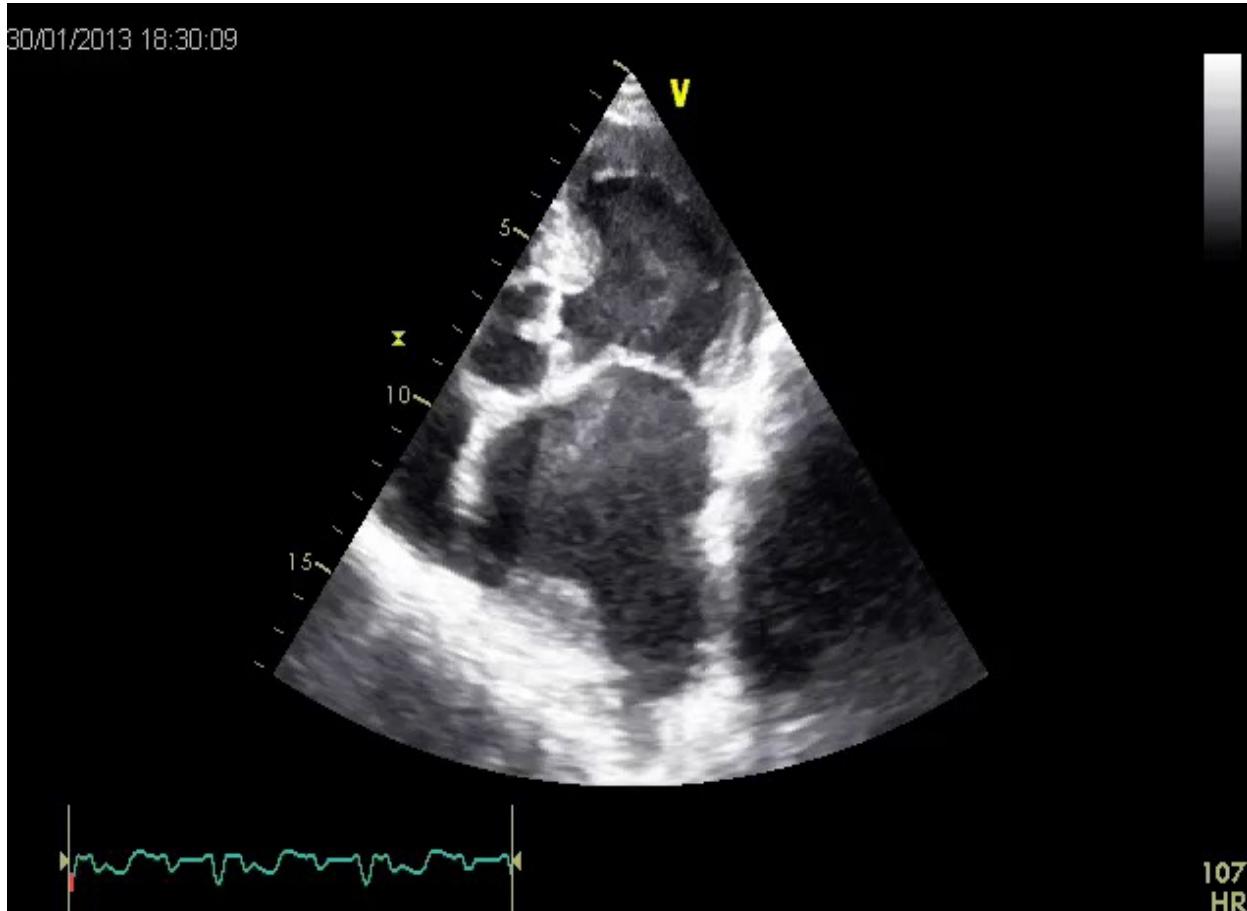




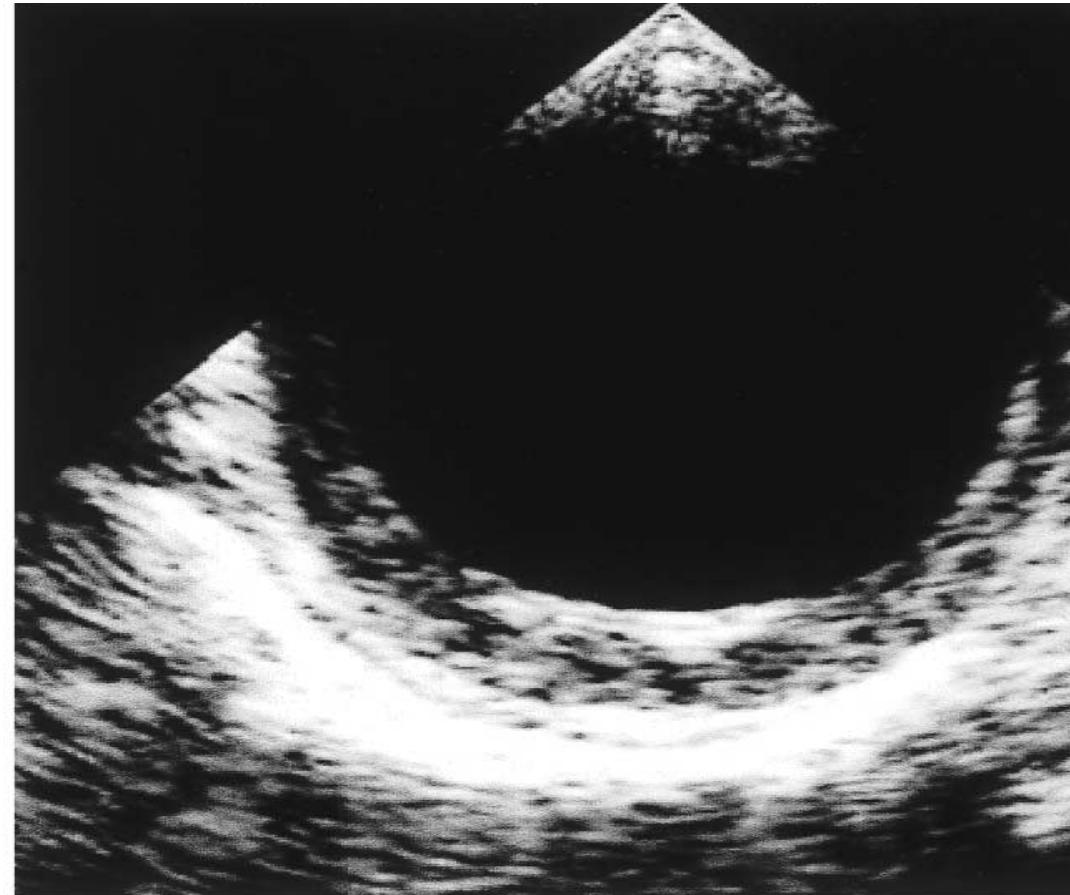
ETO
Fibrillation atriale : risque thromboembolique

Accident vasculaire cérébral : Quelle origine?

Oreillette Gauche?

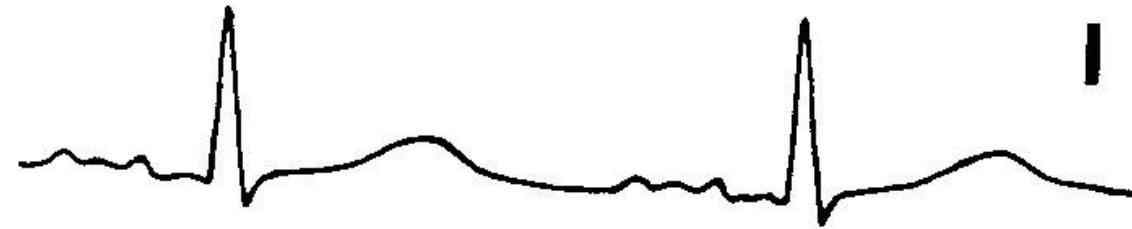


Athérome aortique?



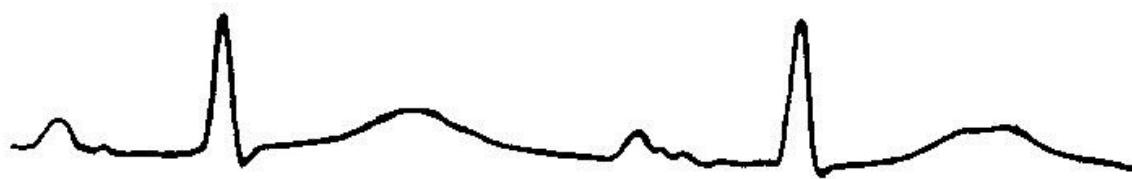
Fibrillation atriale: Formes cliniques

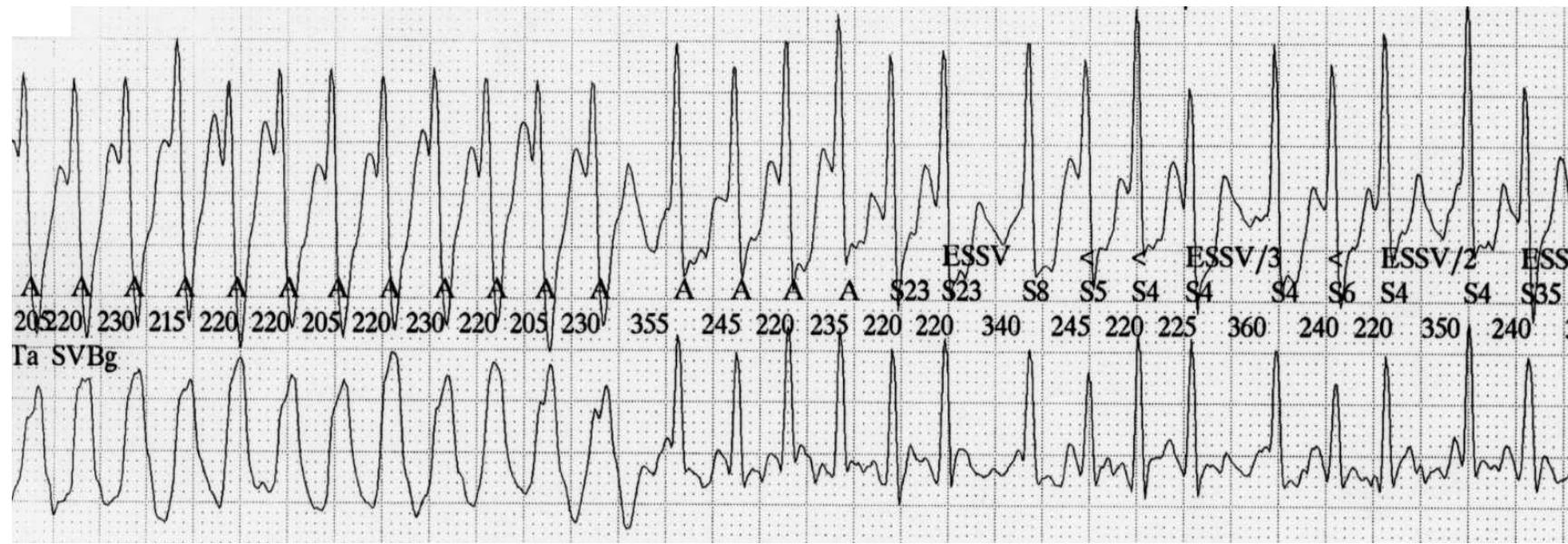
Hypertension artérielle



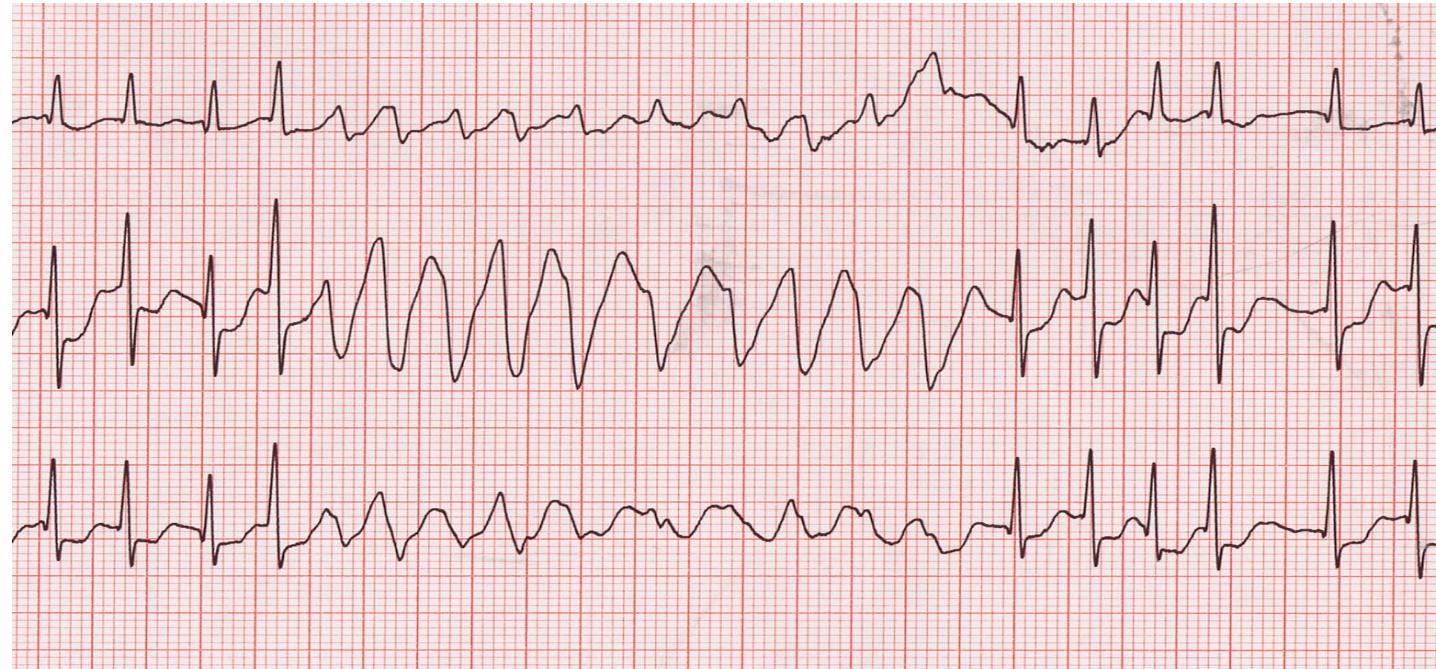
Onde P anormale

||



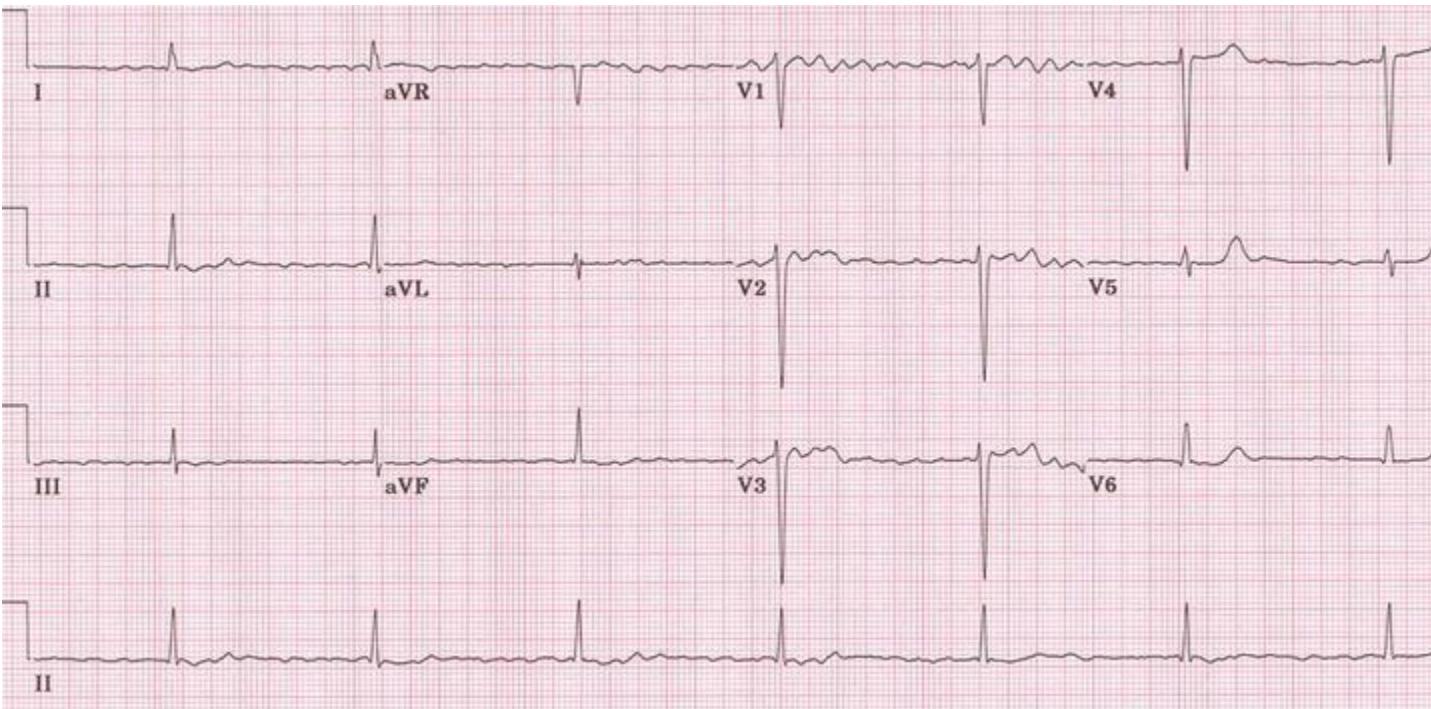


40 ans : fatigue au début d'une course à pied?



50 ans, palpitations à l'effort : Epreuve d'effort

72 ans,
Syncope au repos Fibrillation Atriale
Digoxine, amiodarone



Femme, 67 ans
HTA, Diabète



Fibrillation atriale : Traitement médicamenteux

- ✓ Anticoaguler
- ✓ Ralentir
- ✓ Réduire
- ✓ Prévenir

Fibrillation atriale : Traitement médicamenteux

✓ *Anticoaguler*

- ✓ Si la FA dure plus de 48 heures
- ✓ Selon le score de risque
CHADS2Vasc
- ✓ Un mois avant et un mois après
cardioversion électrique externe

Fibrillation atriale : Traitement médicamenteux

- ✓ Anticoaguler
- ✓ Ralentir
- ✓ Réduire
- ✓ *Prévenir*

Contrôle du rythme

Cardioversion Electrique

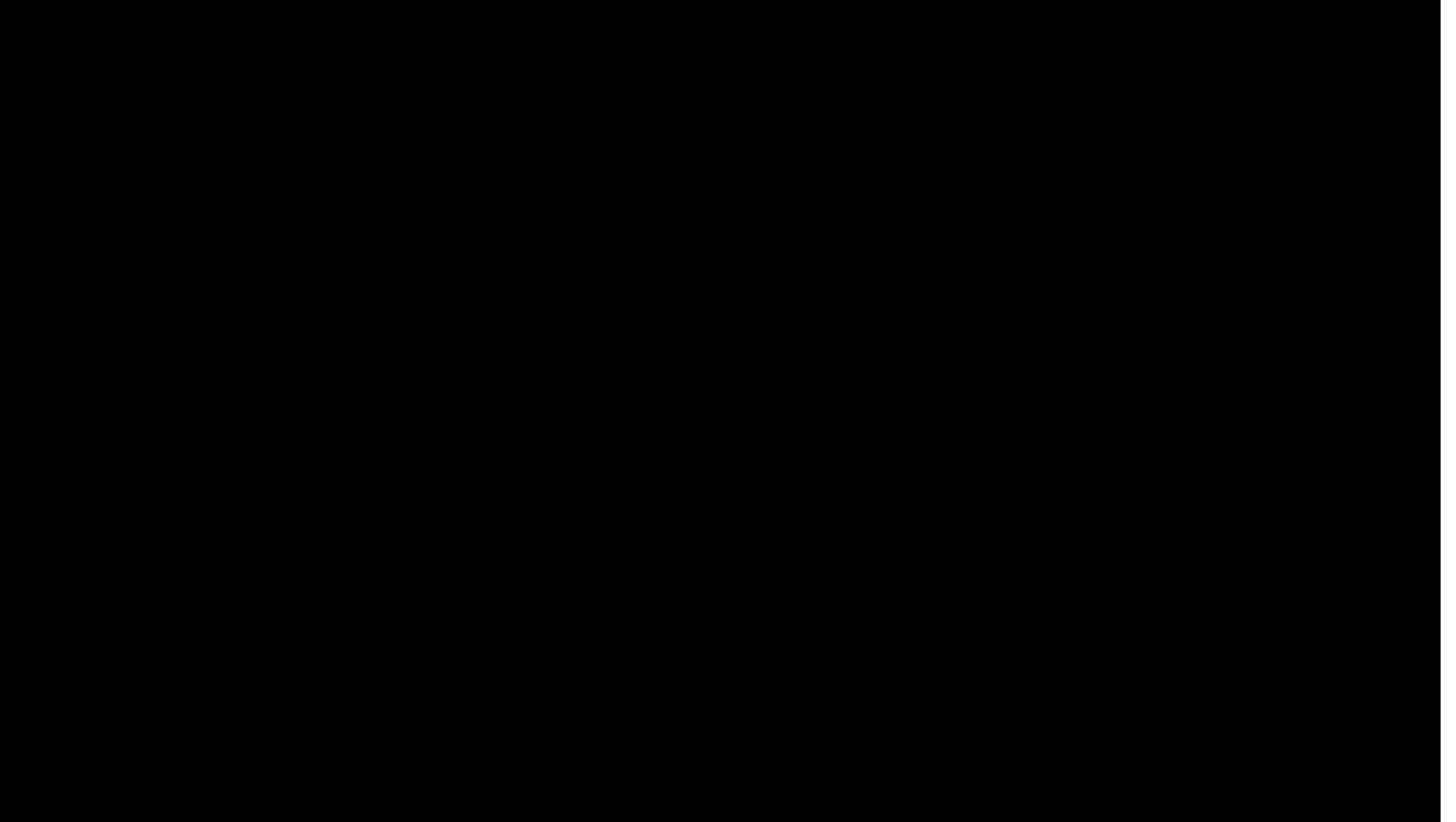
1. Flécaïnide
2. Sotalex
3. (Amiodarone)

Si récidive : Cardioversion Electrique

Médication essai 2

Si nouvelle récidive : Cardioversion Electrique

Ablation des veines pulmonaires



CONTRÔLE DE LA CADENCE VENTRICULAIRE (âge, symptômes,
cardiopathie sous-jacente)

Béta-bloquants
Inhibiteurs calciques
Digoxine...



Critères d 'efficacité : symptômes, fonction ventriculaire gauche

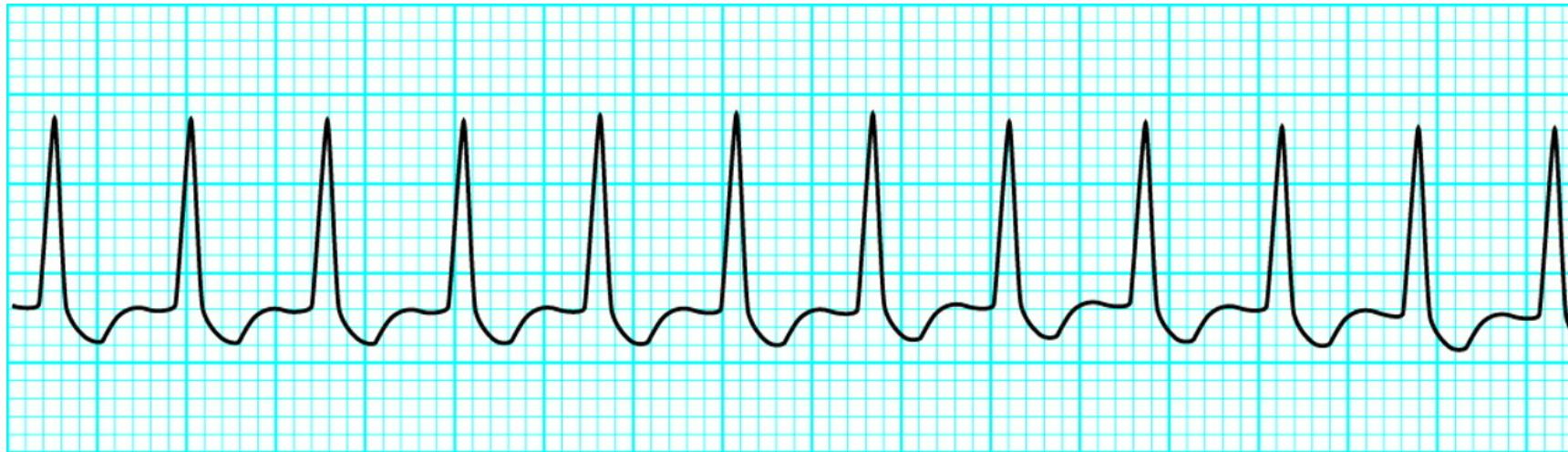
Flutter atrial commun : aspect en dents de scie

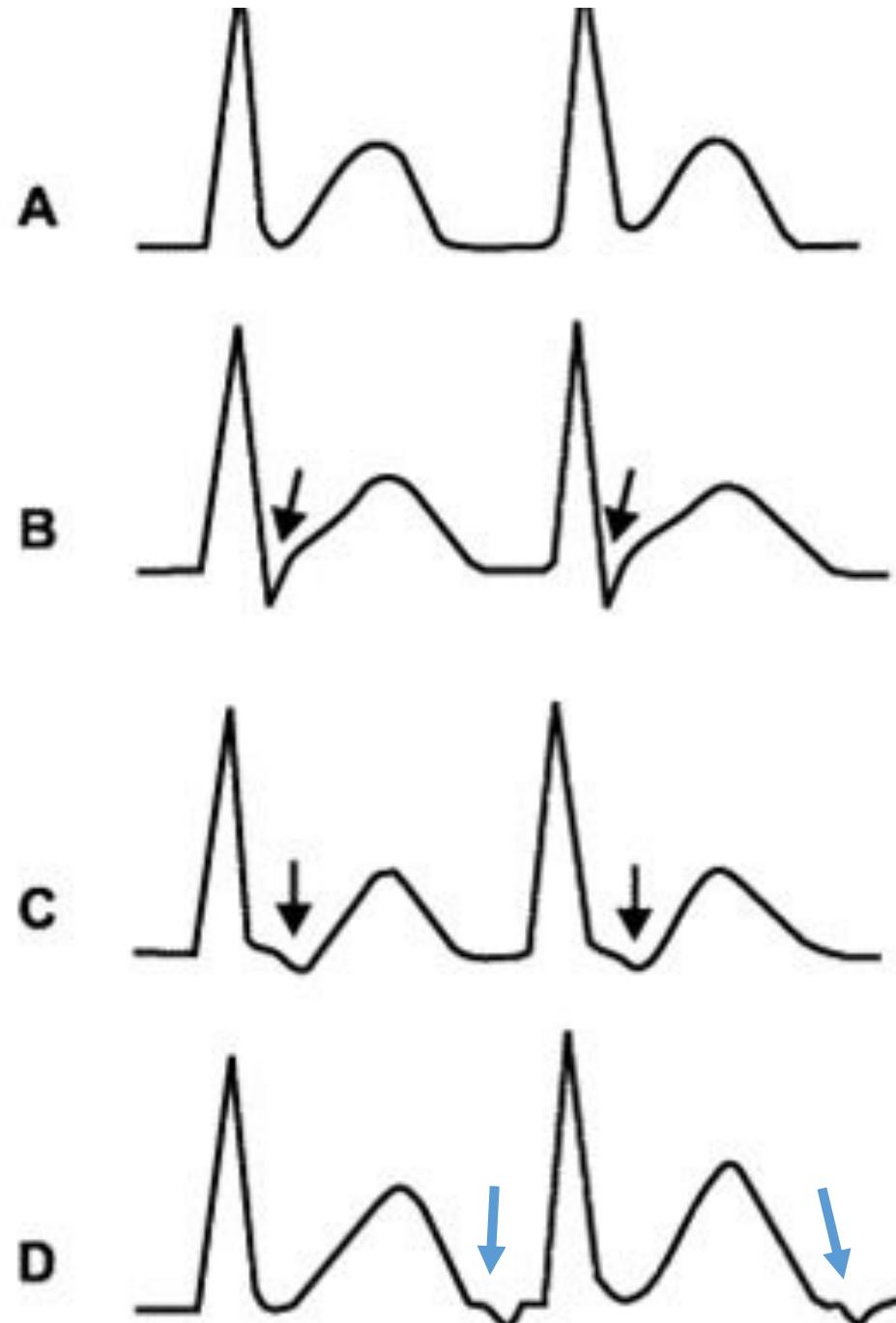


Tachycardies

- 1) Tachycardies atriales
- 2) Tachycardies jonctionnelles
- 3) Tachycardies ventriculaires

Tachycardie jonctionnelle

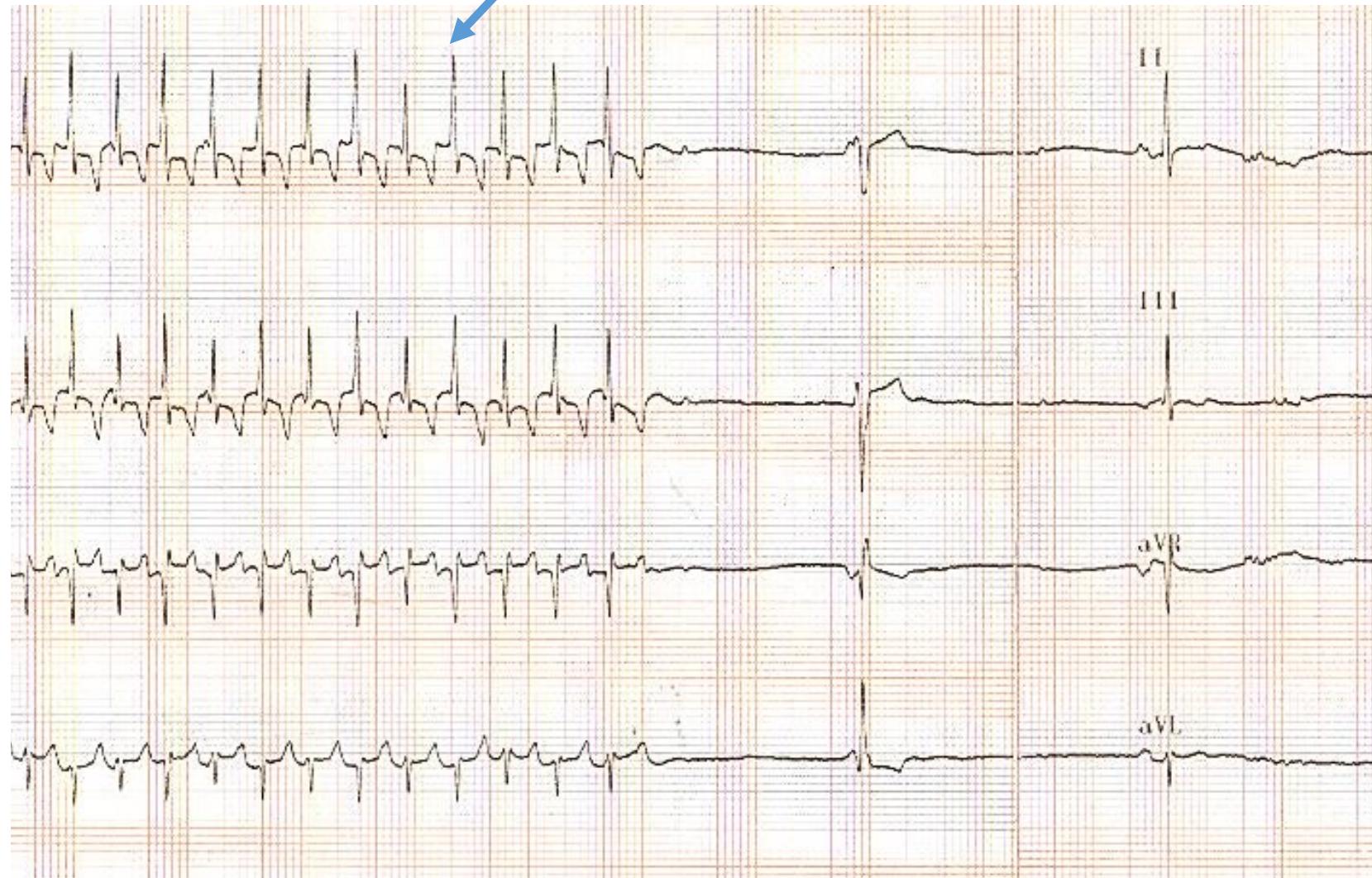




Place de l'onde P
en cas de tachycardie
jonctionnelle à QRS fins
(TPSV)

Adénosine/Striadyne

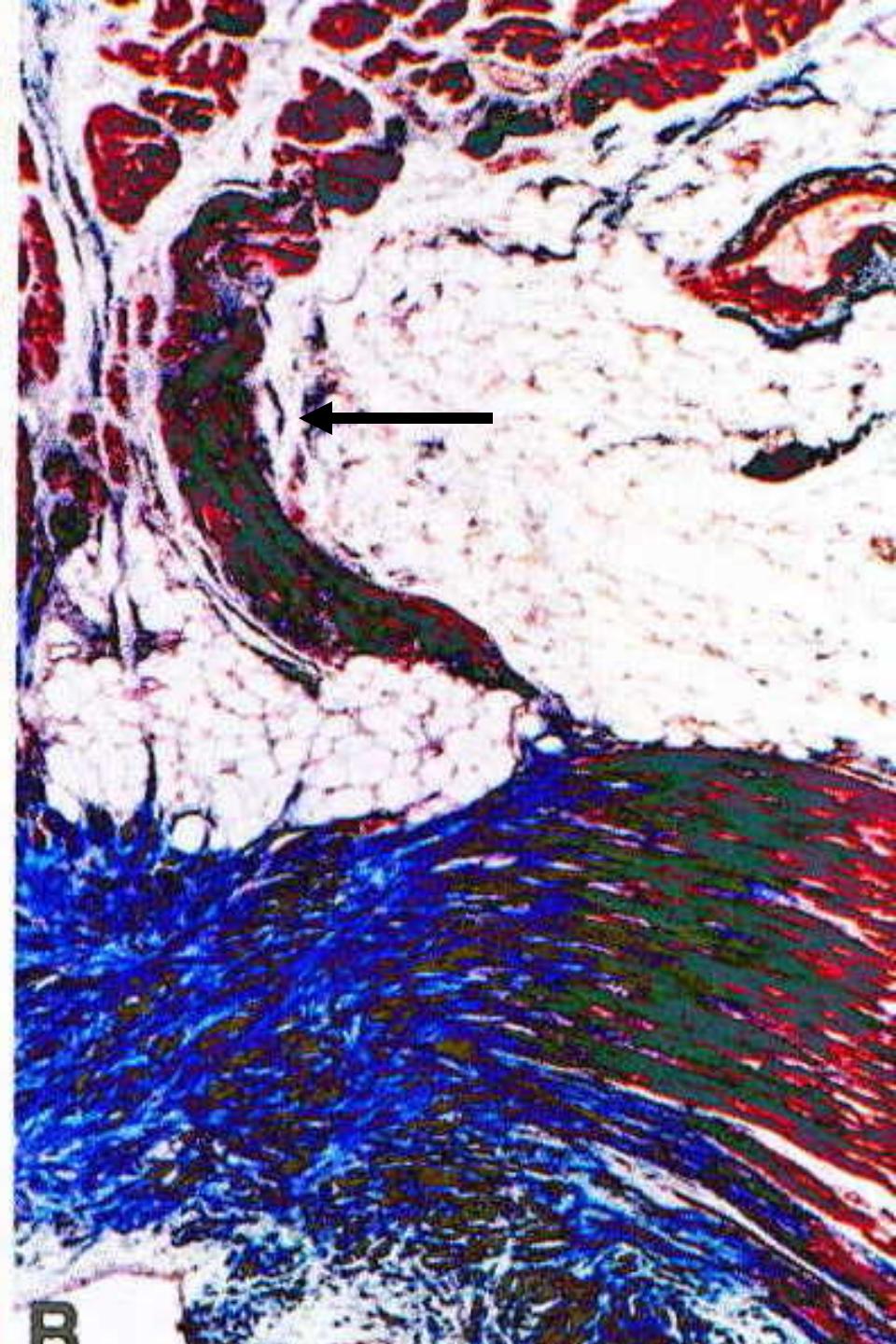
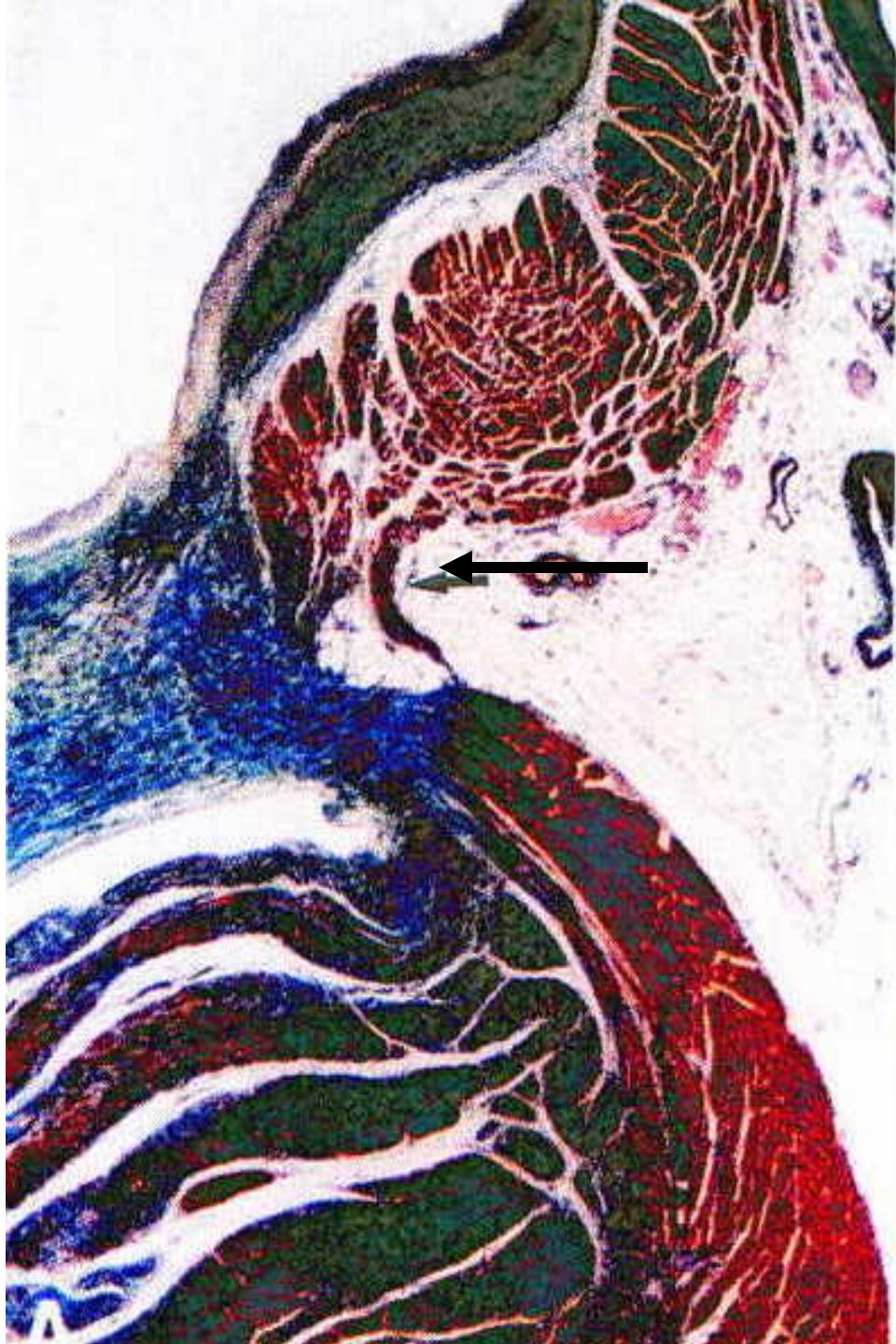
IV flash



Aspect Electrocardiographique de *Wolff-Parkinson-White* de découverte fortuite.

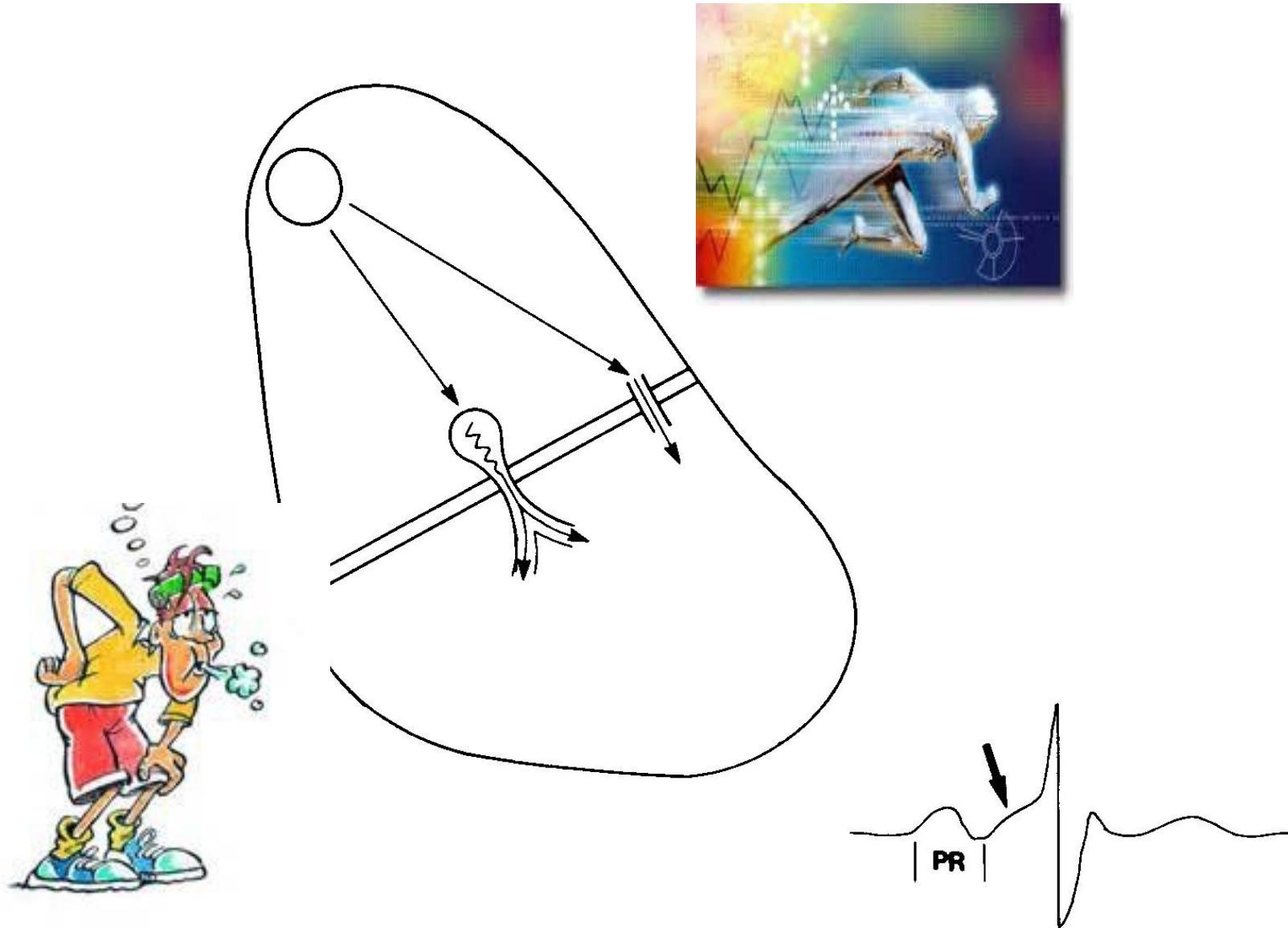


Préexcitation atrio ventriculaire
intermittente **WPW**

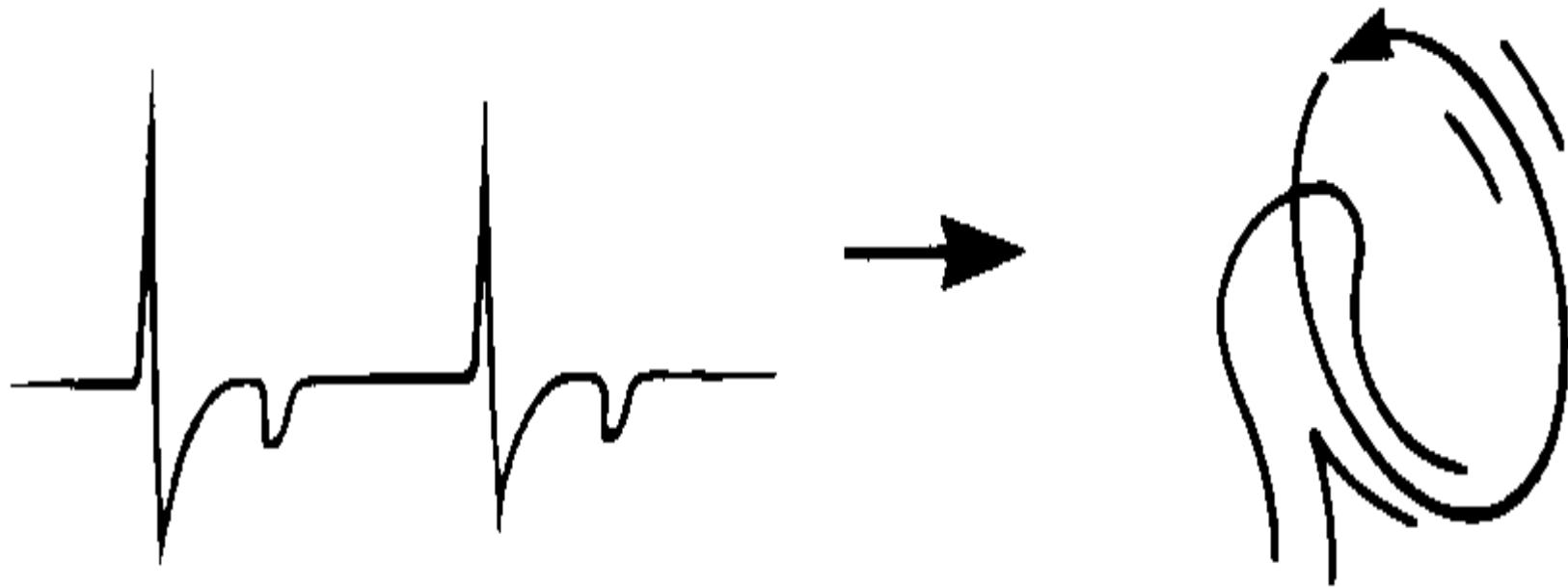


WPW

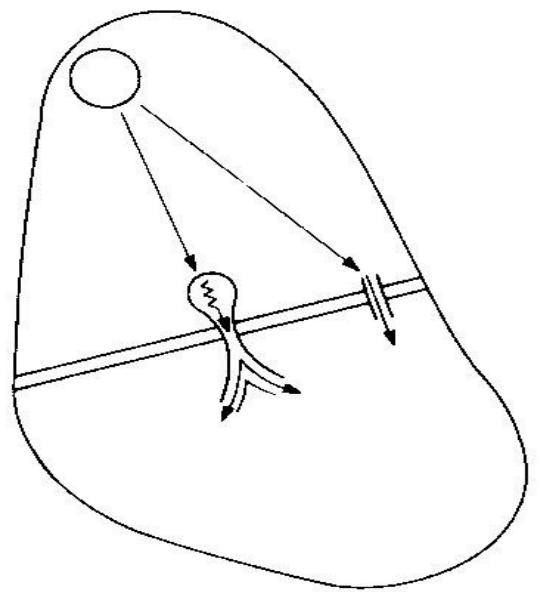
B



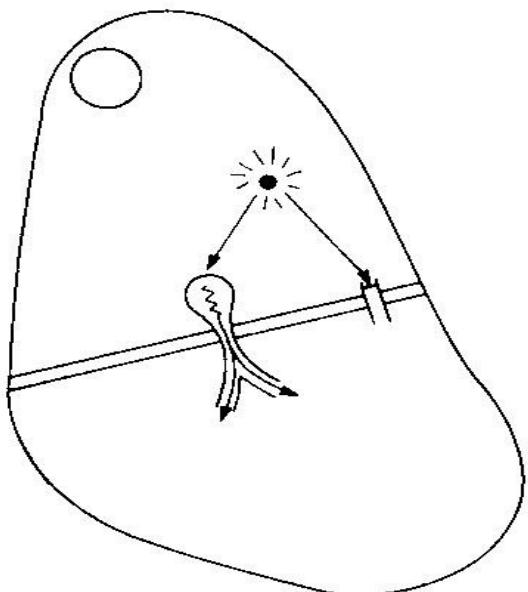
WPW



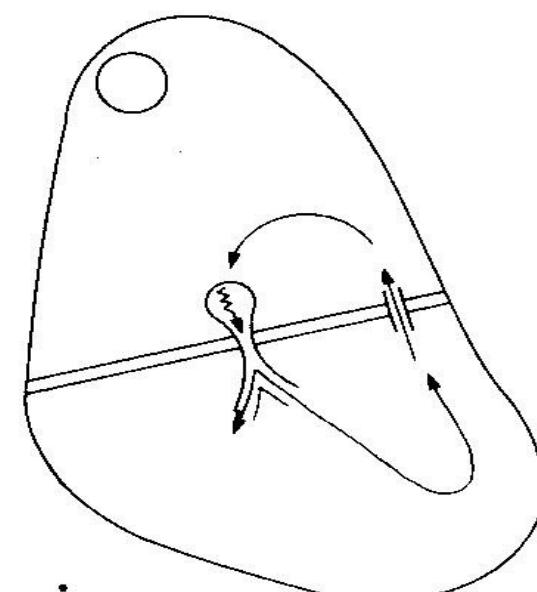
Wolff-Parkinson-White



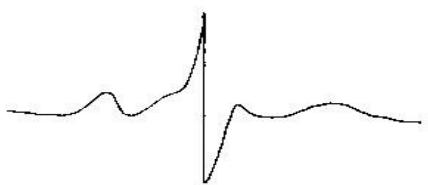
A



B

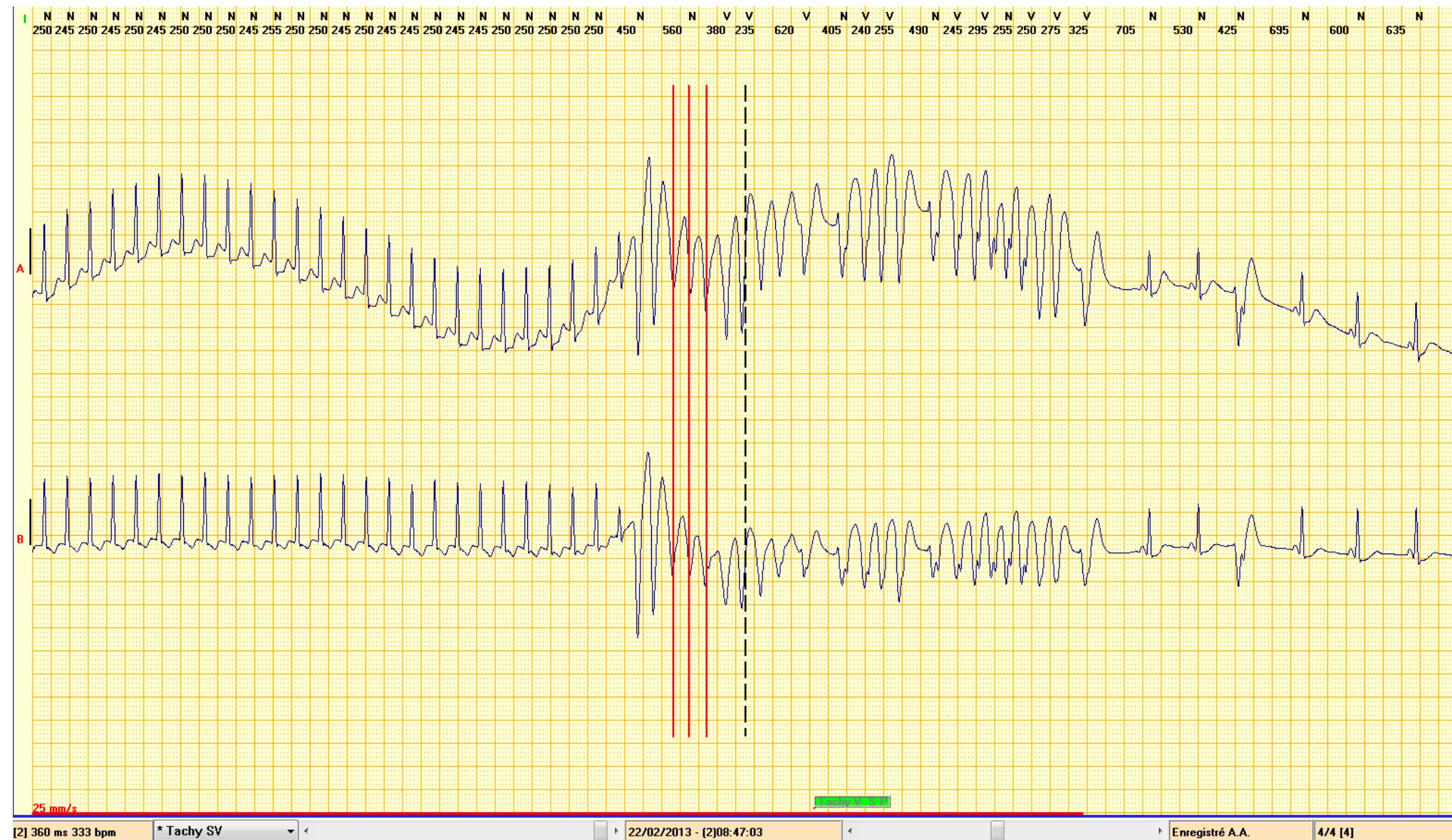


C



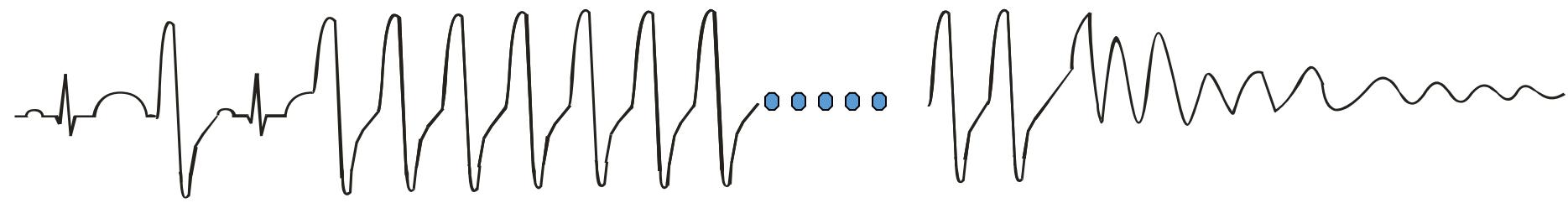
WPW Tachycardie jonctionnelle

Syndrome de WPW: TJ puis FA avec aberration ventriculaire (QRS larges)



Tachycardies

- 1) Tachycardies atriales
- 2) Tachycardies jonctionnelles
- 3) *Tachycardies ventriculaires*



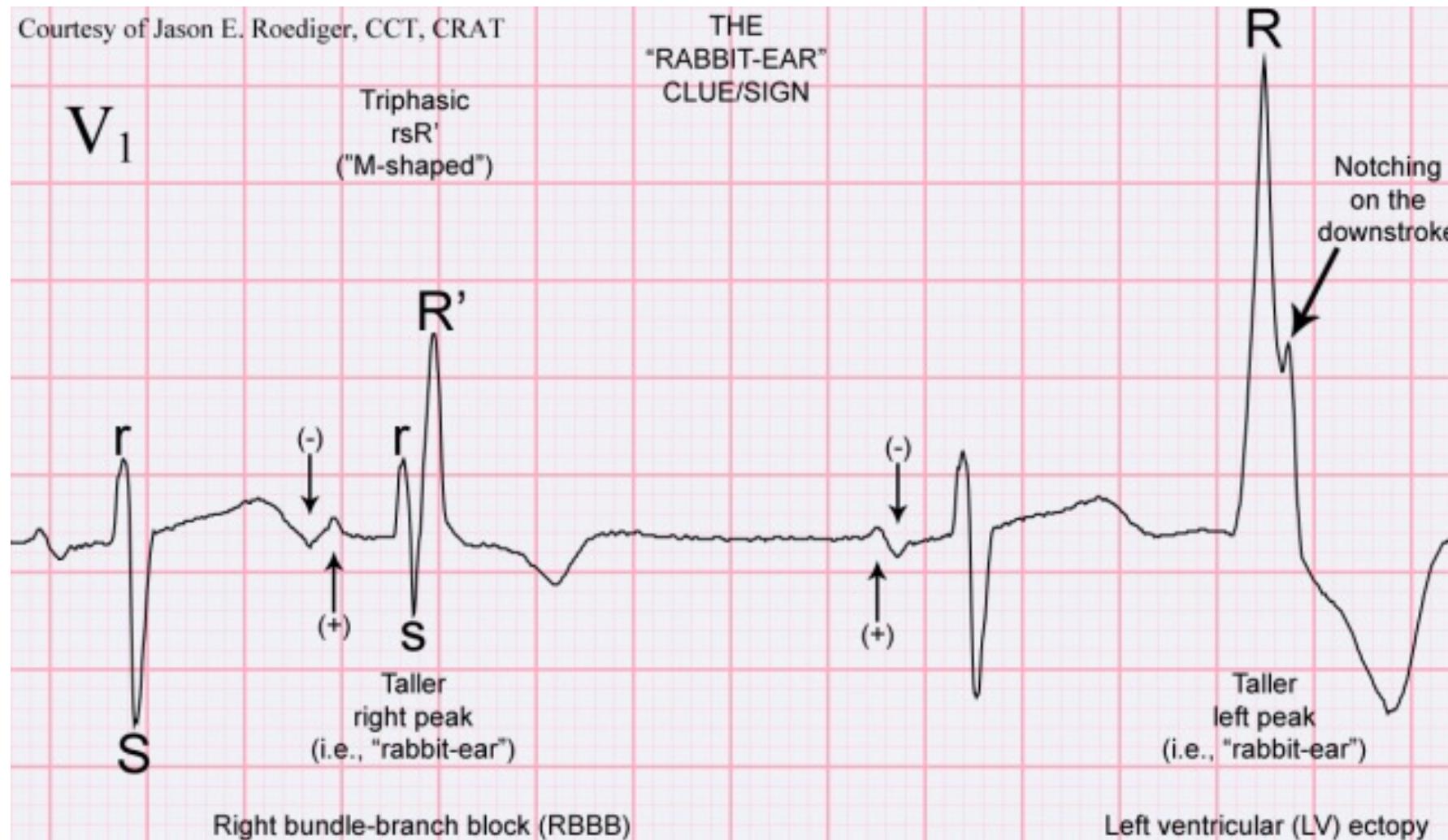
ESV

TV monomorphe

TV polymorphe

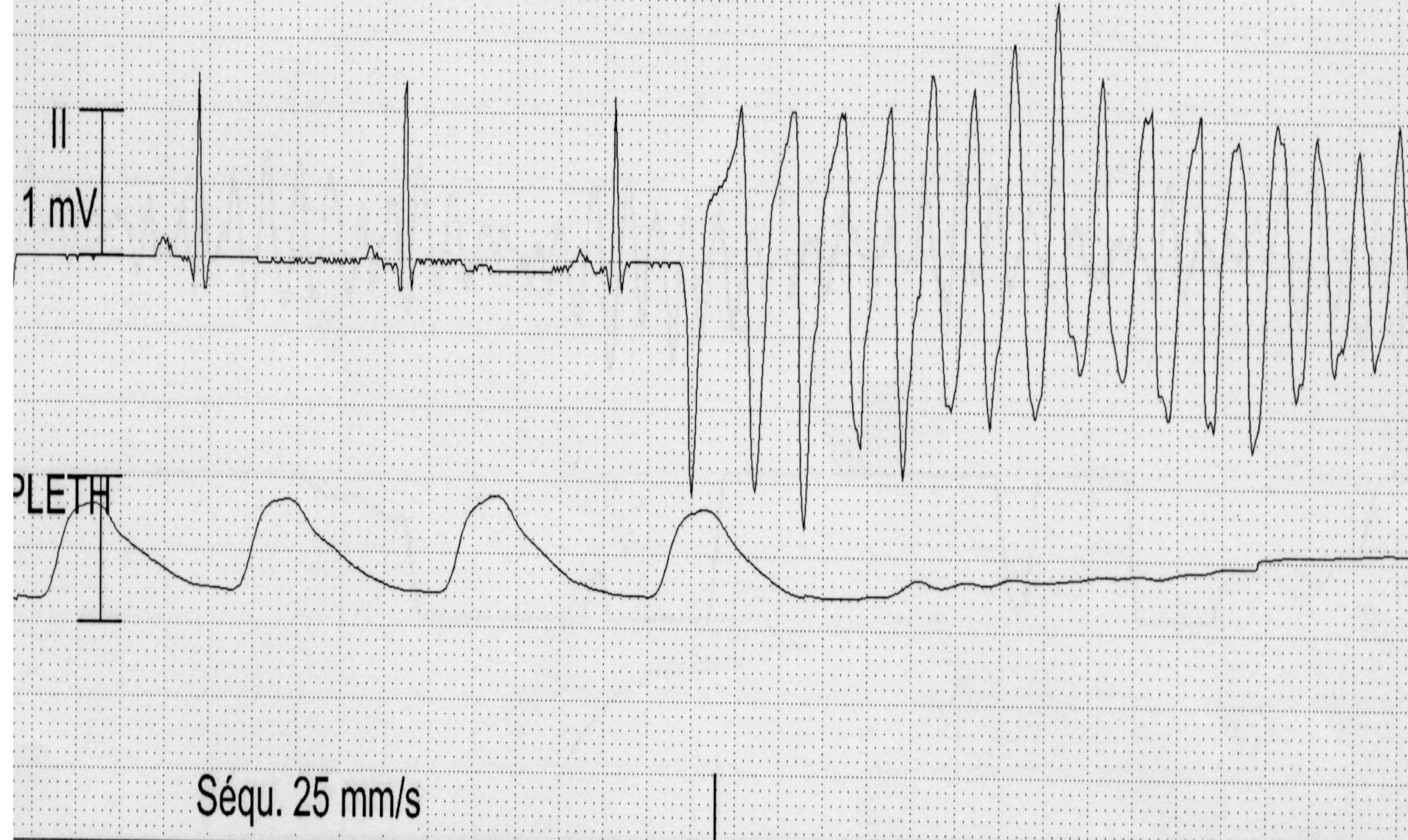
FV

ESV et aberration ventriculaire : deux causes de QRS larges



N N N V V V V V V V V V V

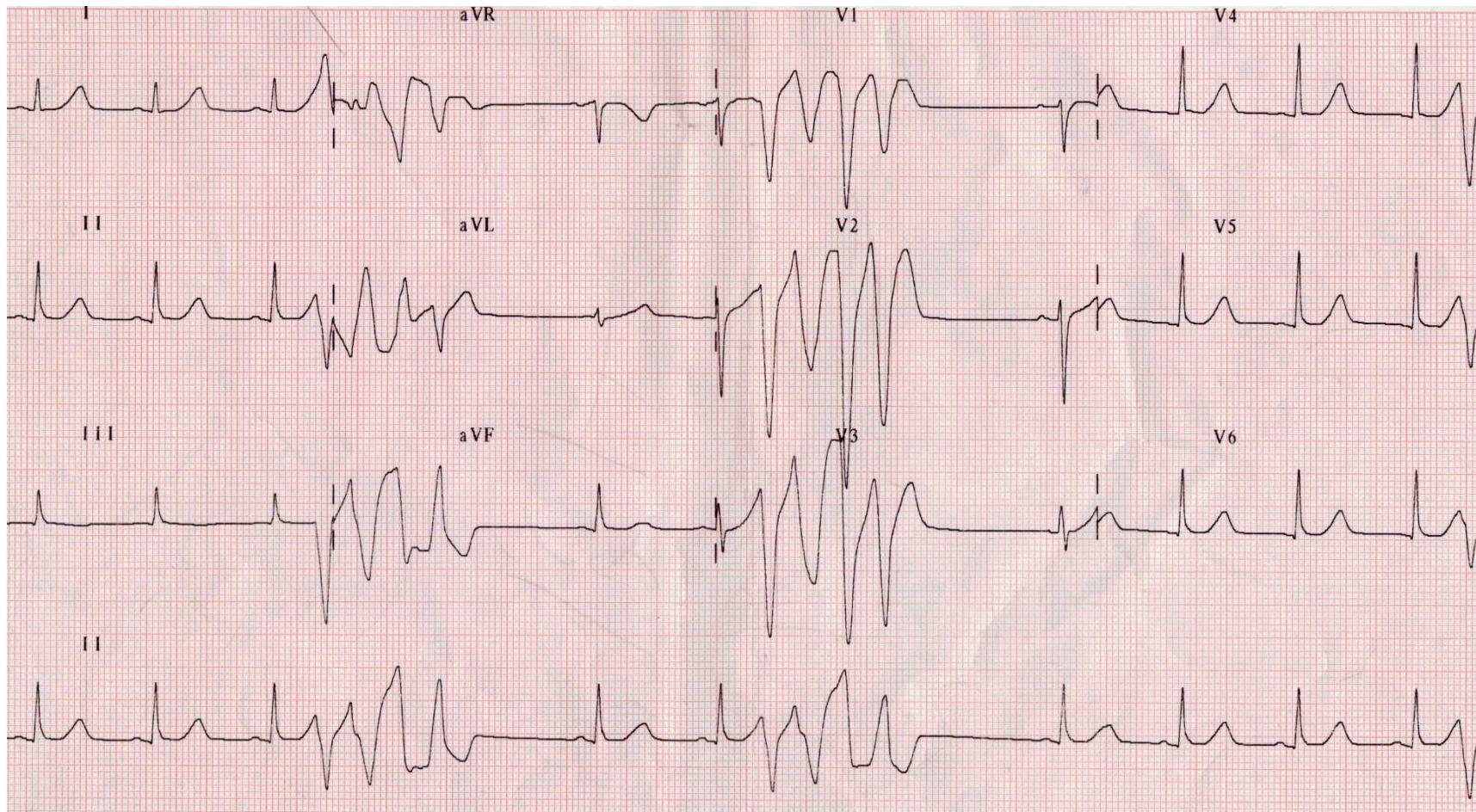
ESV avec couplage R/T



Femme, 84 ans, malaises, ESV répétées polymorphes

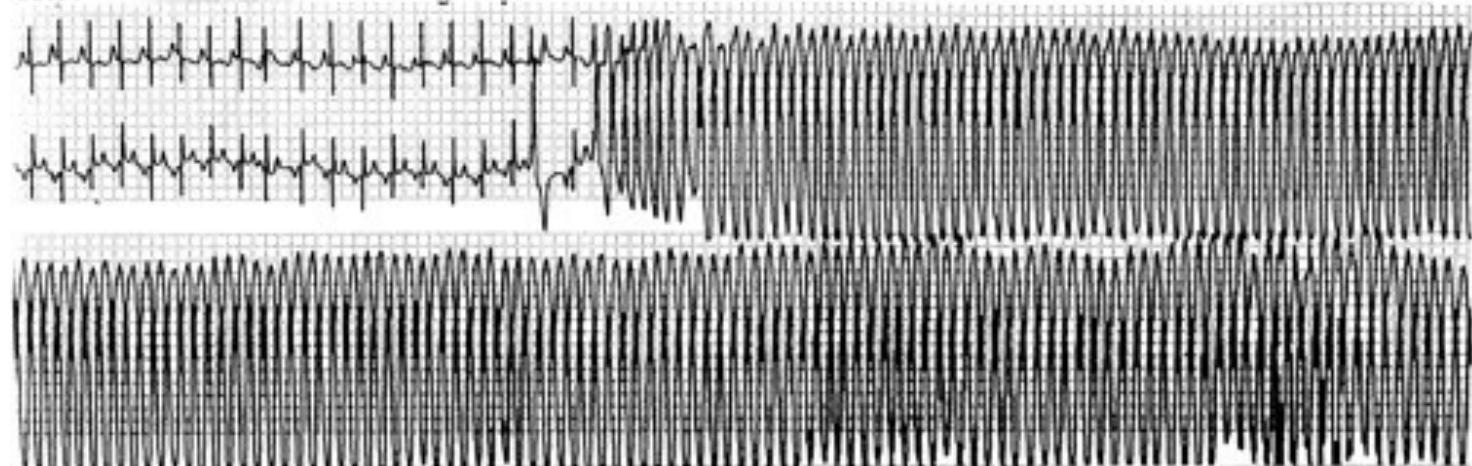


TV non soutenue

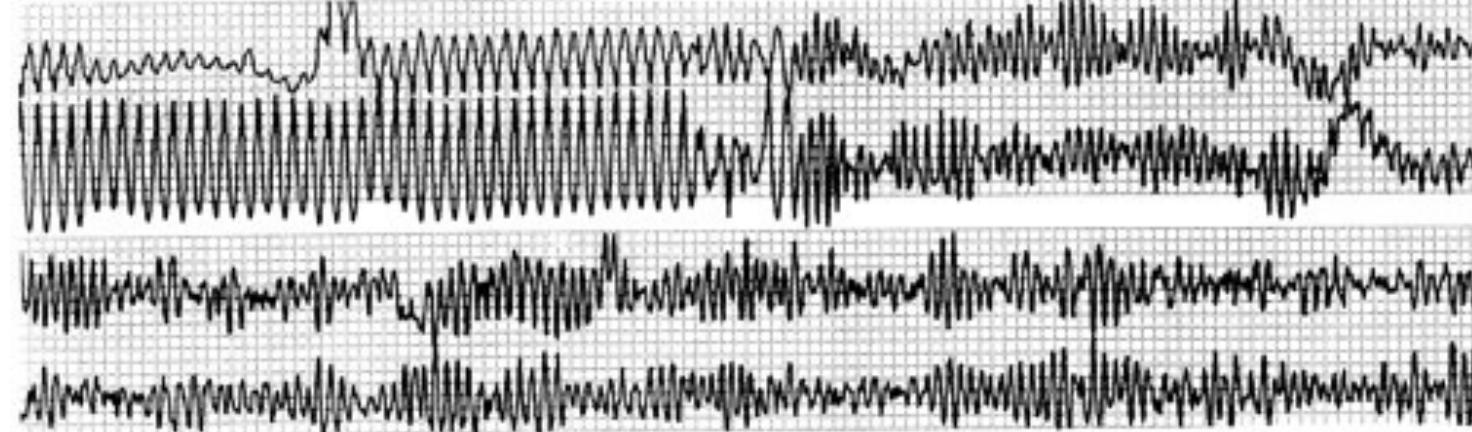


ESV , TV monomorphe puis
TV polymorphe suivie
d'une Fibrillation Ventriculaire

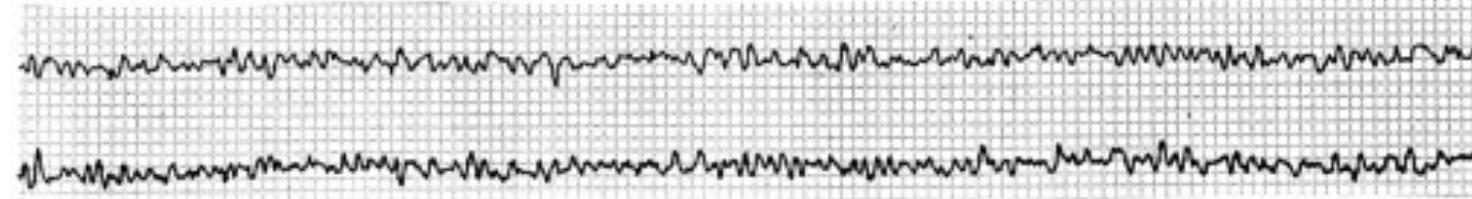
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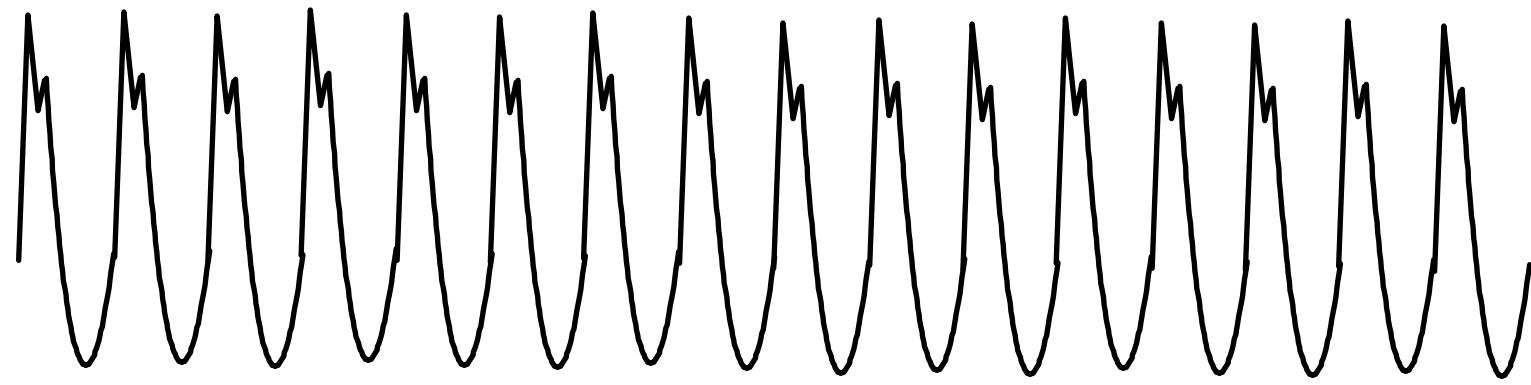


01:02

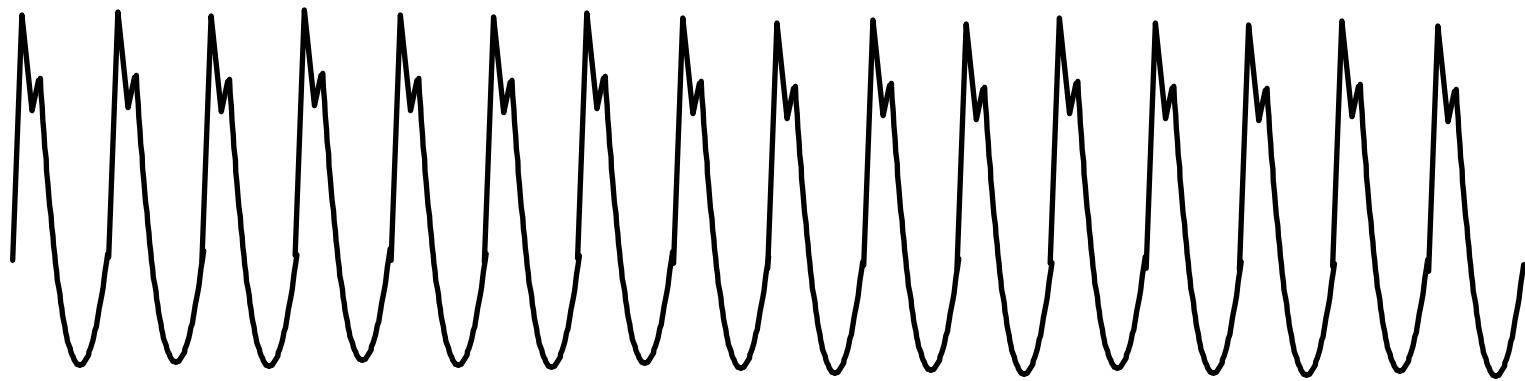


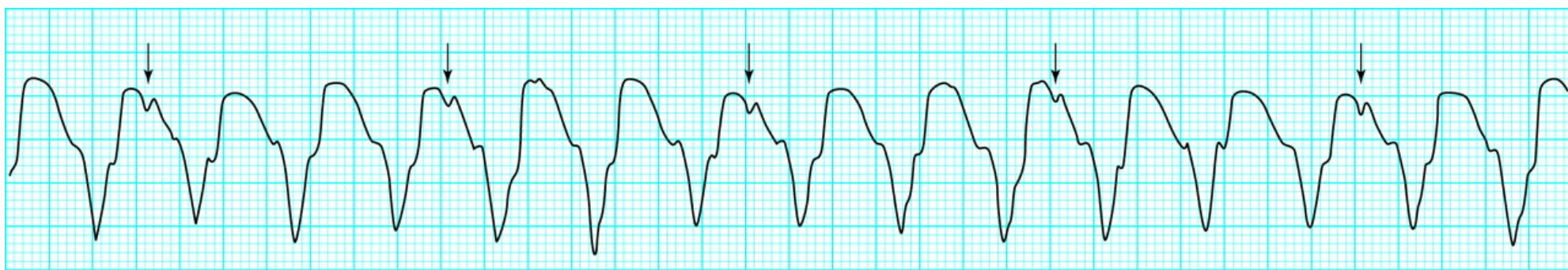
01:10



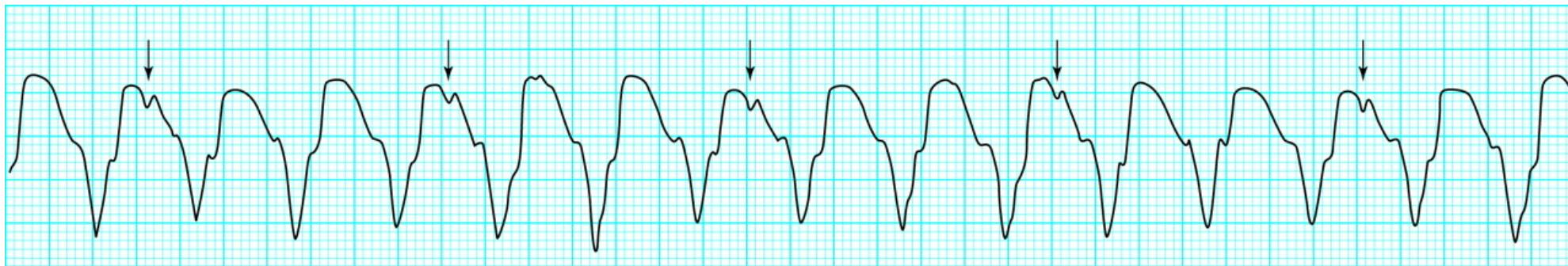


Tachycardie Ventriculaire
monomorphe (régulière à QRS
larges)



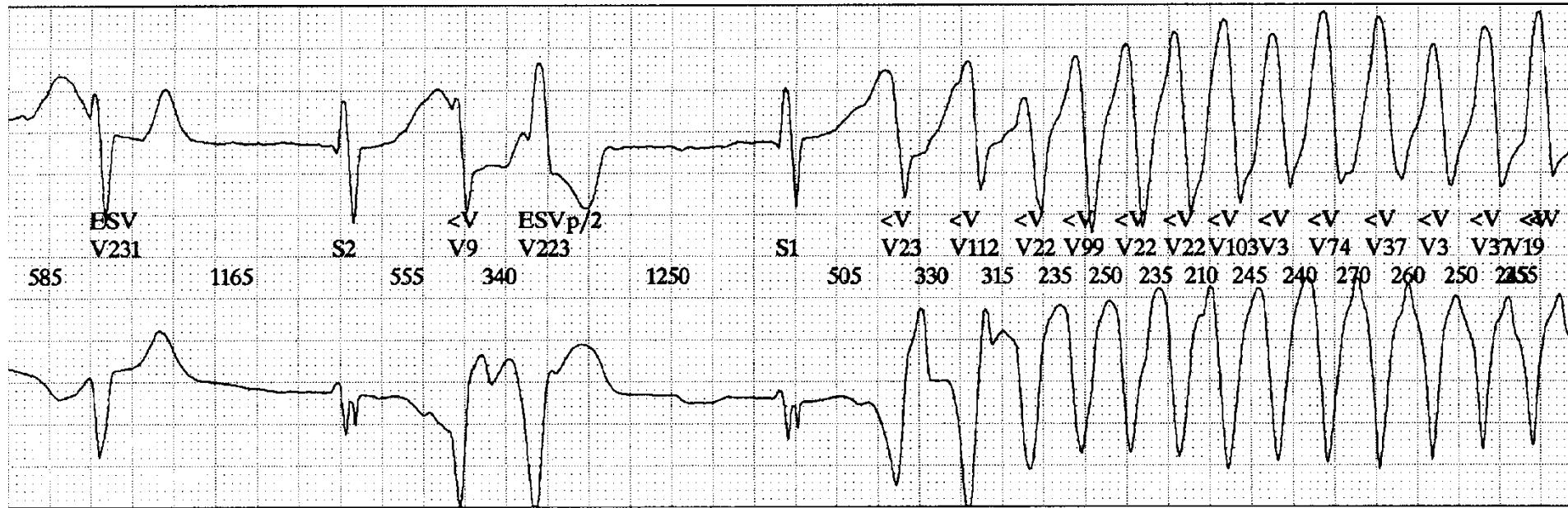


Tachycardie ventriculaire monomorphe

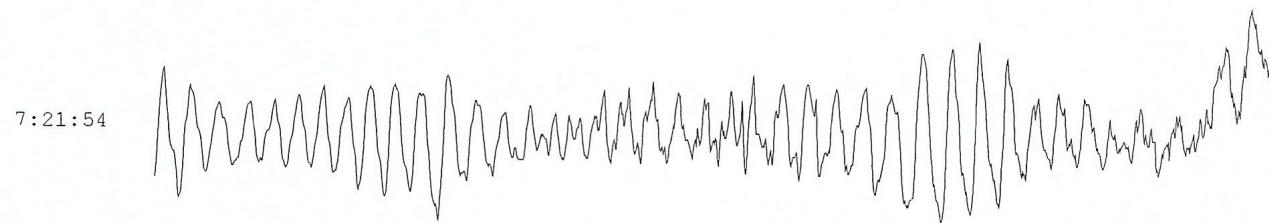
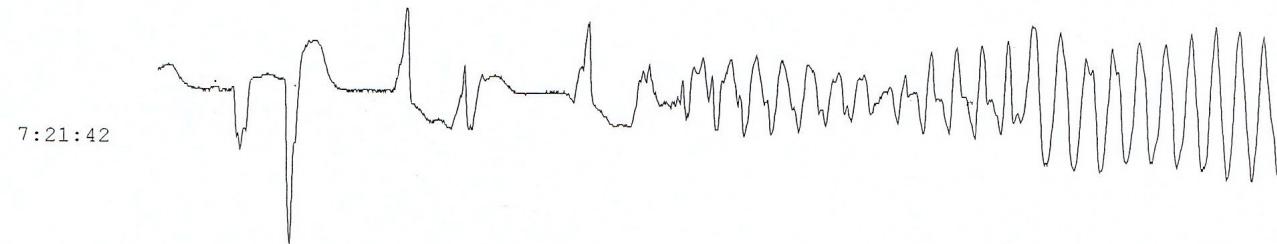


Le terrain...

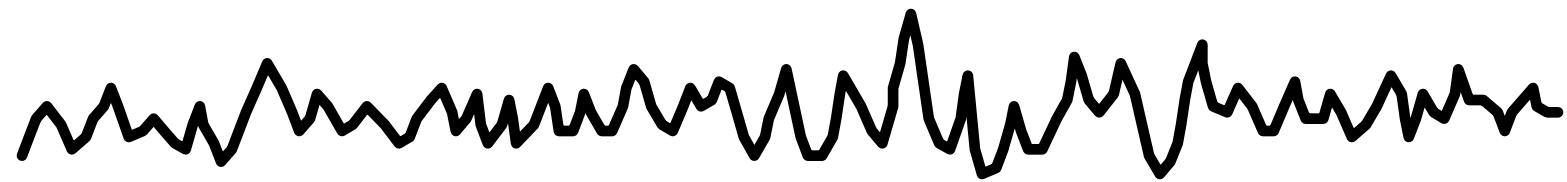
Médications torsadogènes



Intervalle QT long : Torsades de pointes



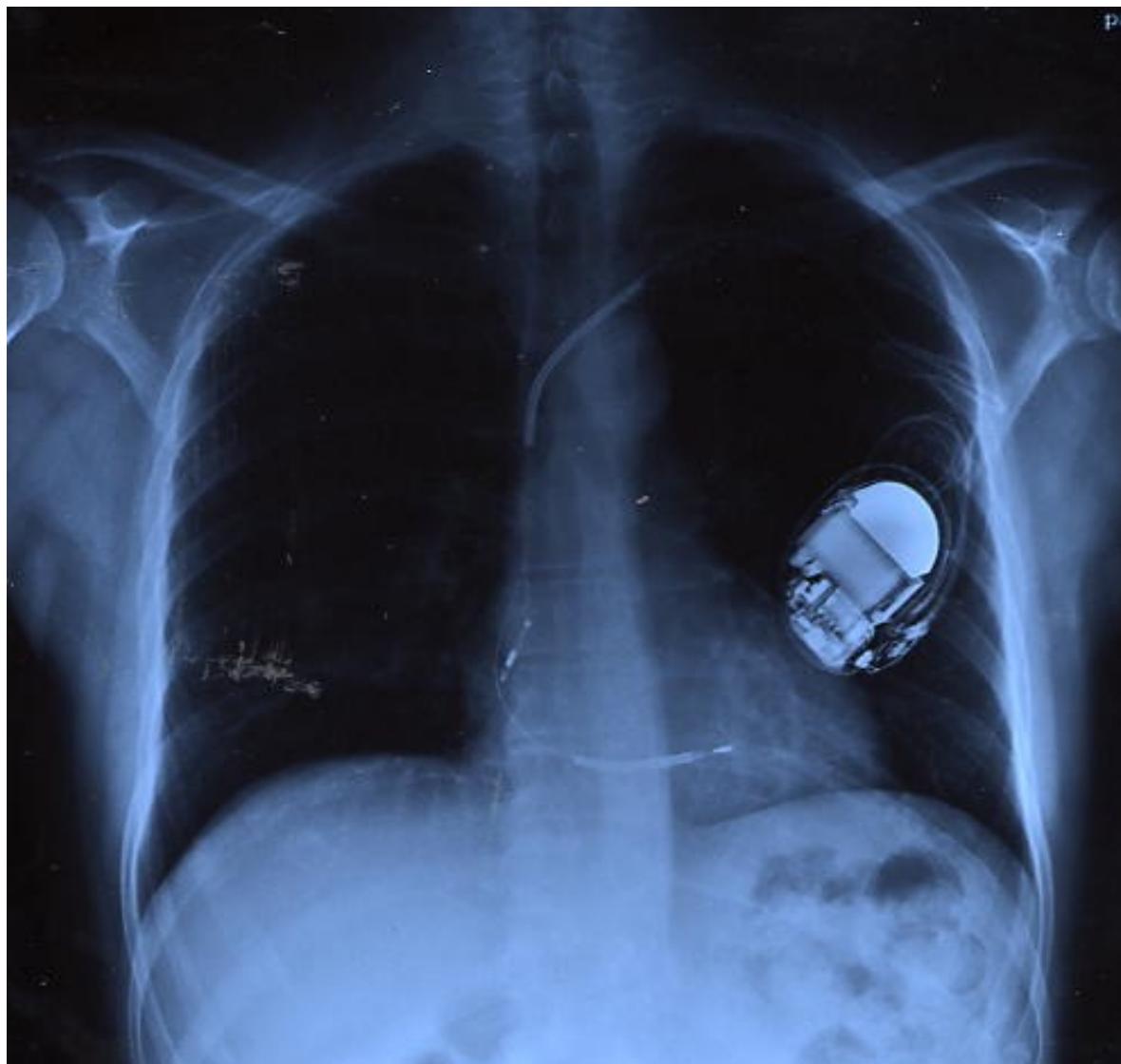
Fibrillation Ventriculaire



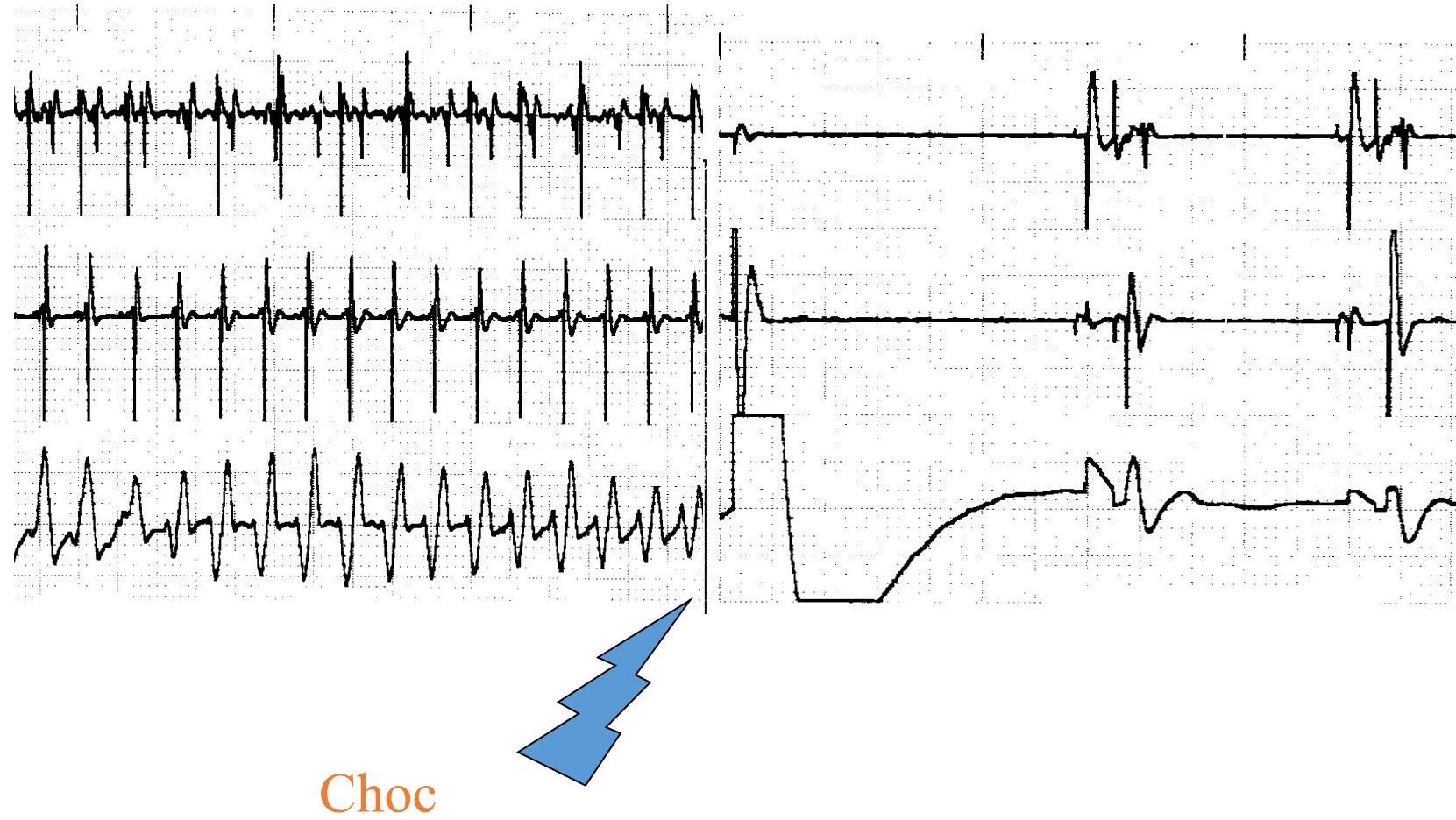
† en moins de 3 mn !

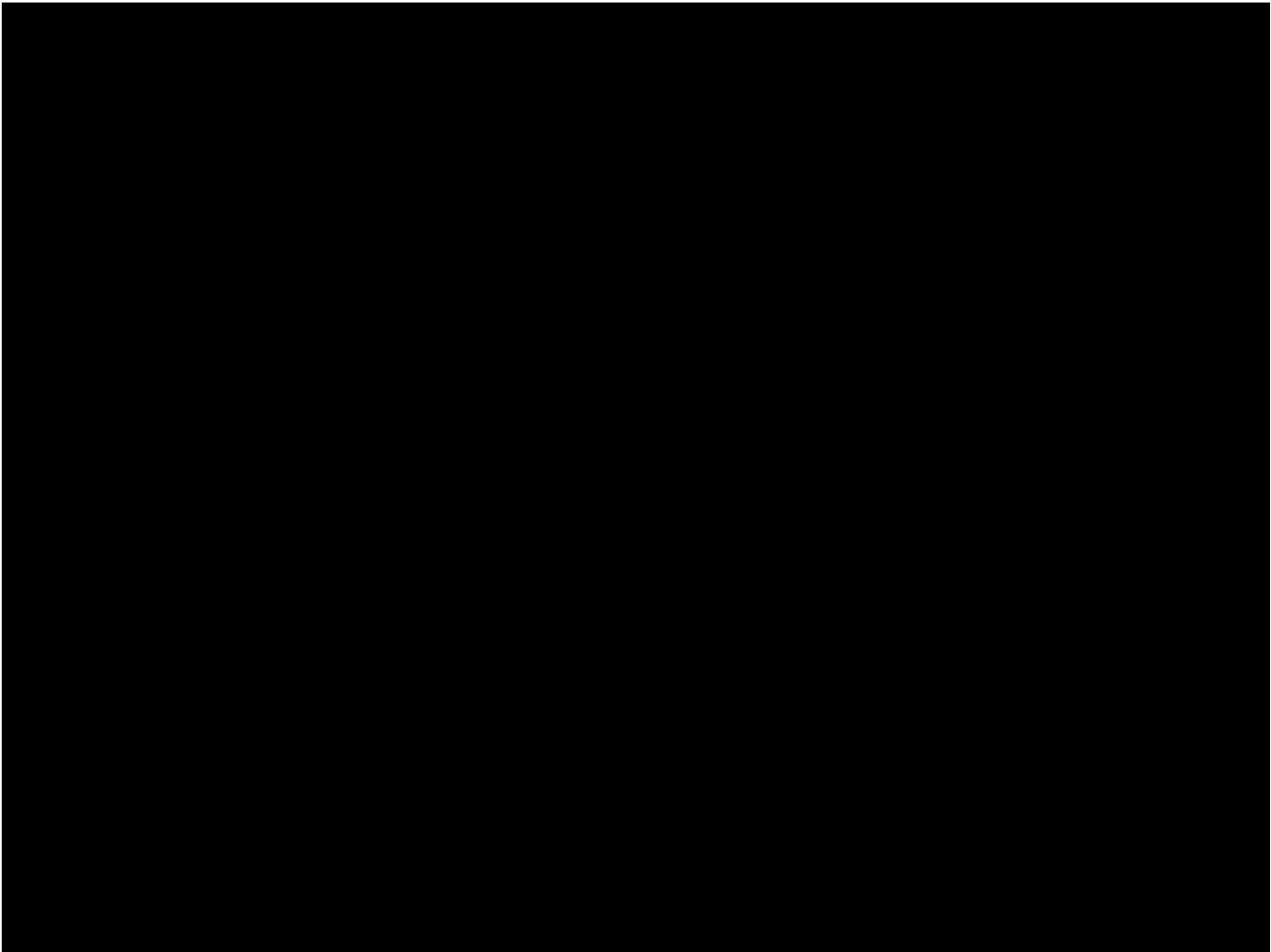
Mort subite

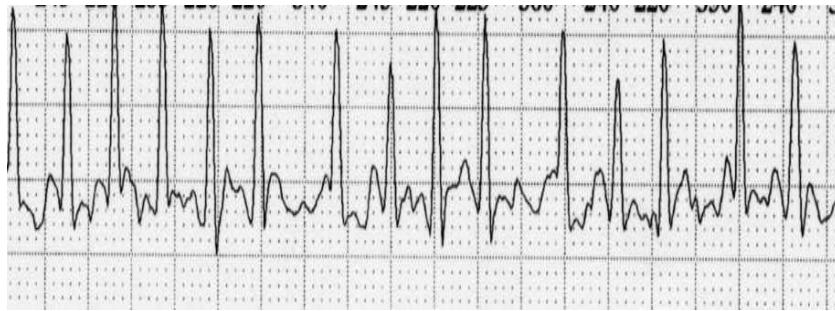




Syncope avant choc électrique d'un défibrillateur implantable

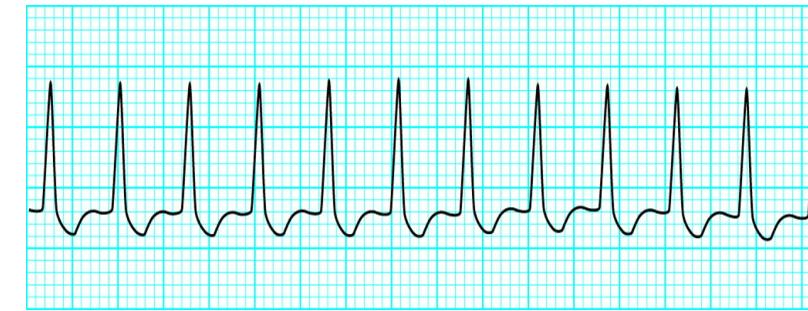




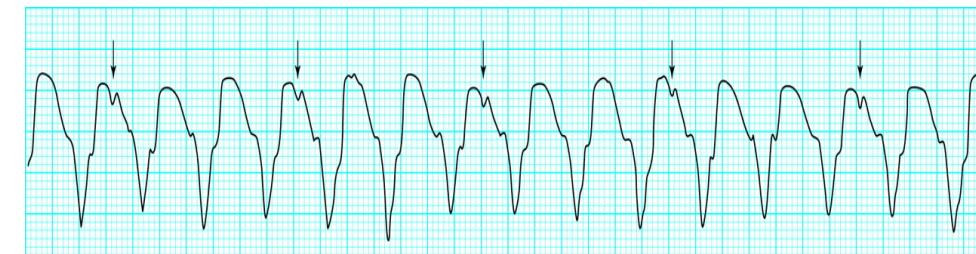


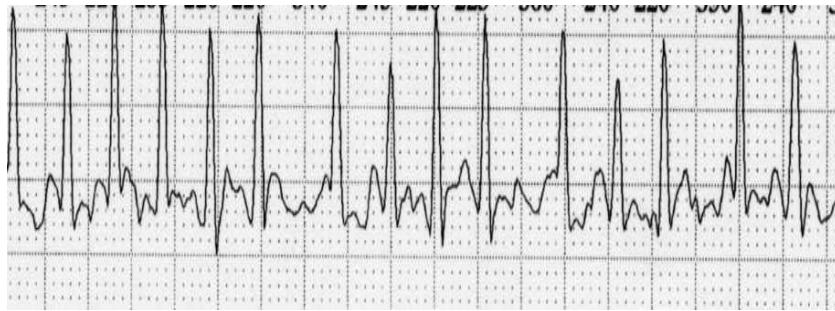
QRS fins

Tachycardies

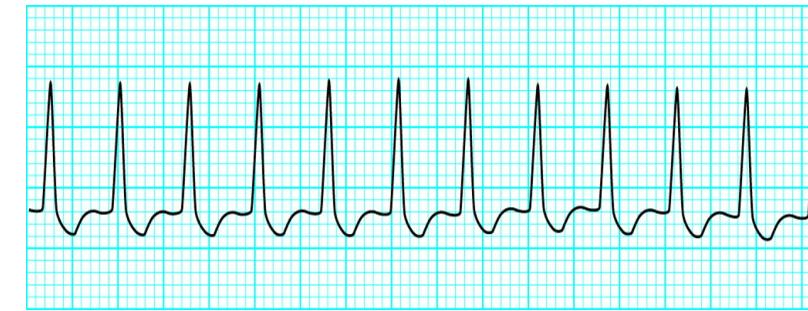


QRS larges



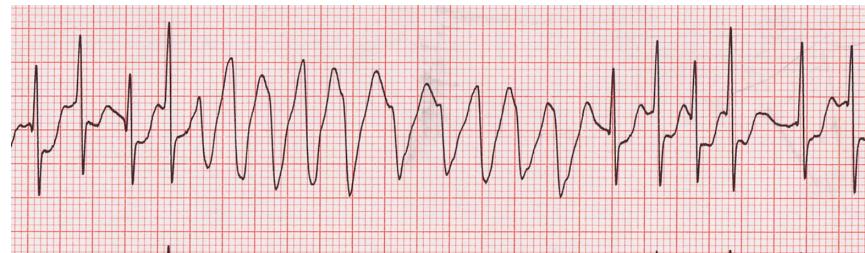


QRS fins



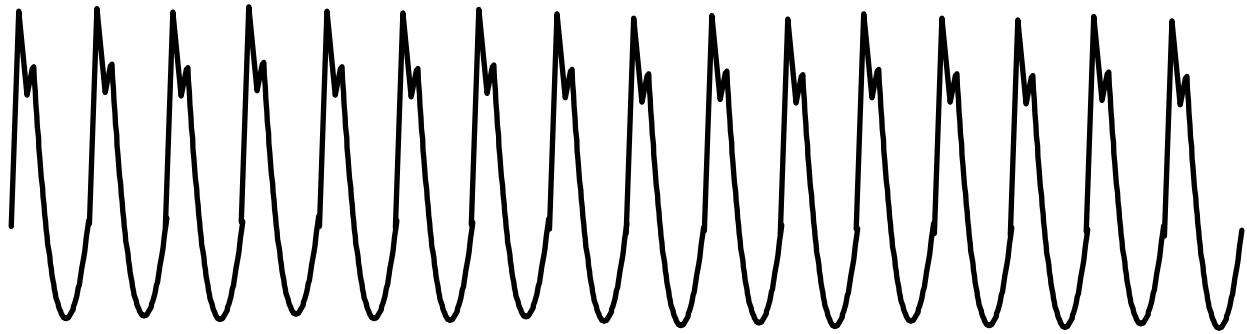
Tachycardies

QRS larges

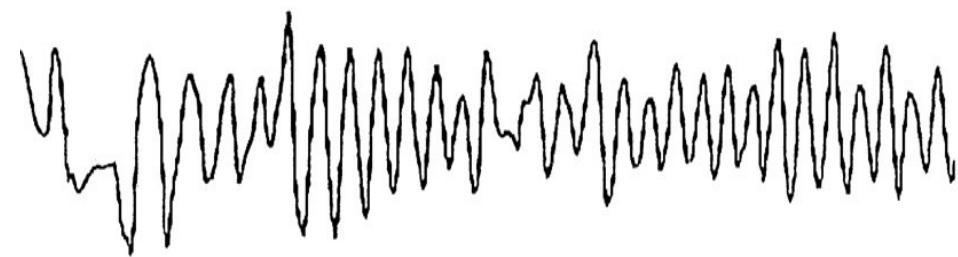


Jeune femme 25 ans

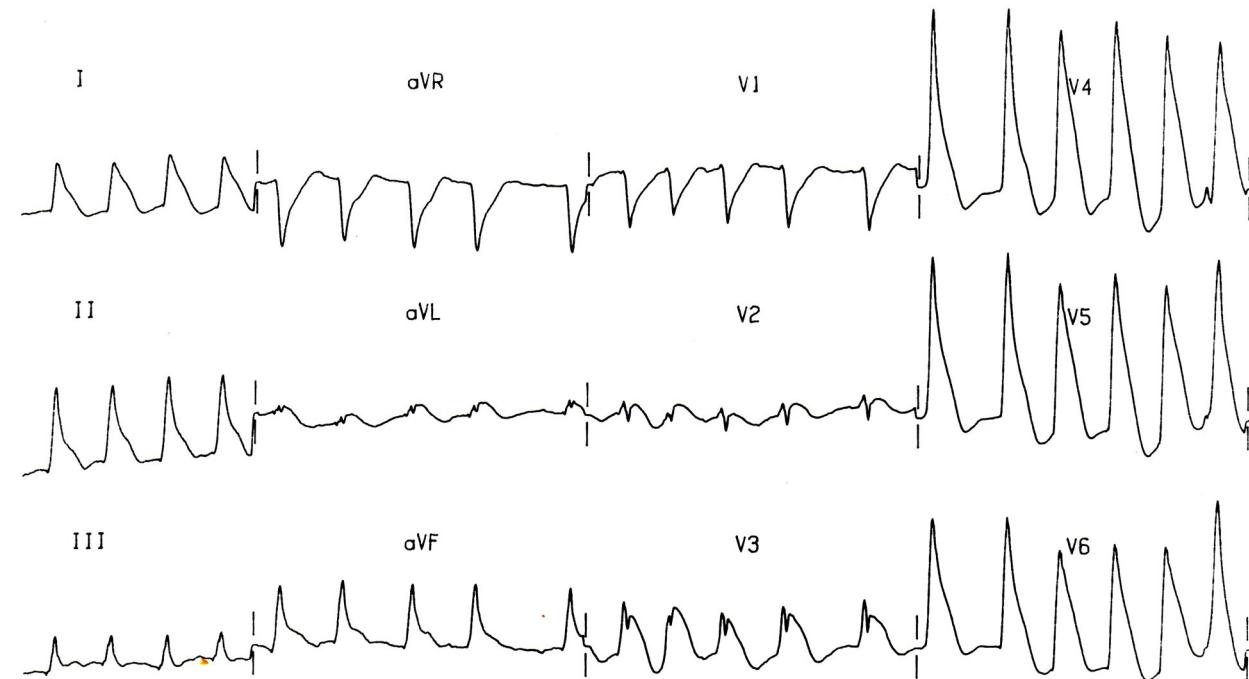




Tachycardies polymorphes

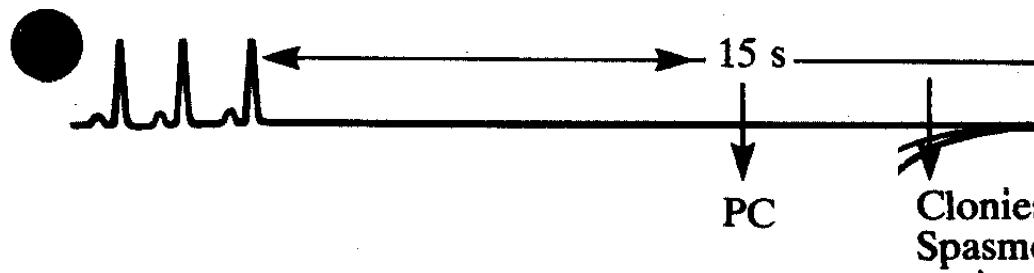
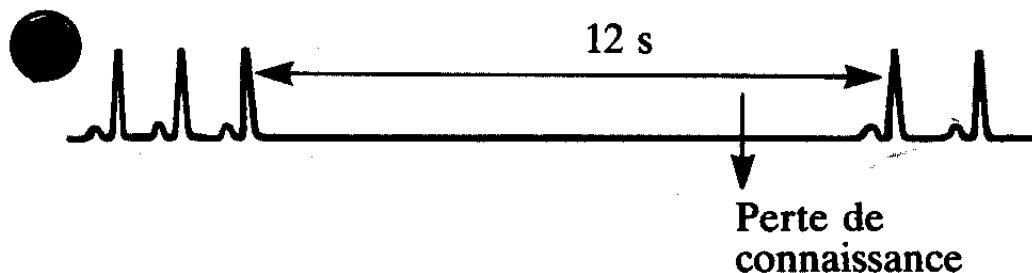
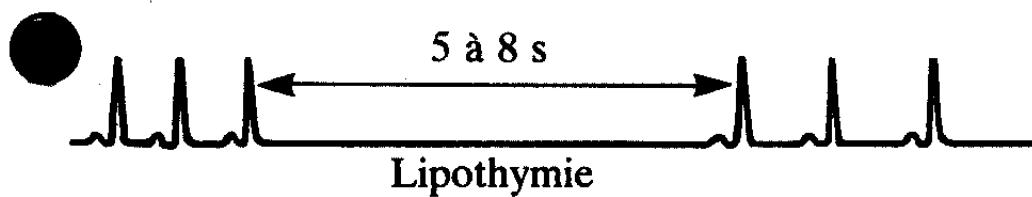
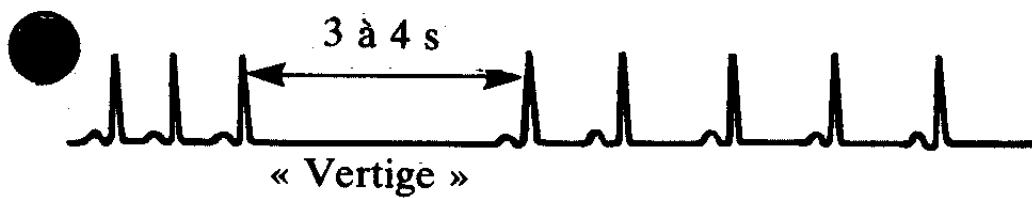


Fibrillation atriale au décours d'un infarctus du myocarde



Rythmologie

- ✓ Rappel
- ✓ Syncopes.Troubles de la conduction
- ✓ Palpitations/Tachycardies



Après une pause....

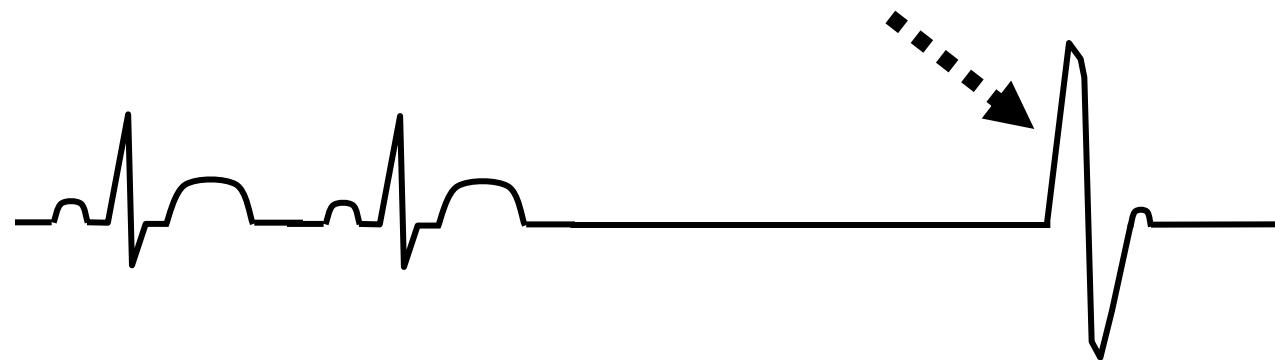
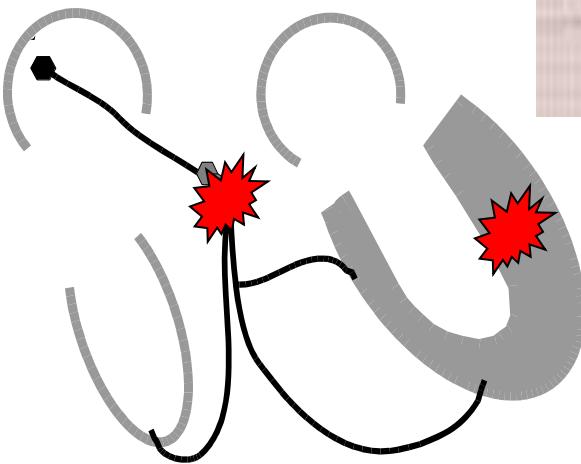
Échappement



Échappement

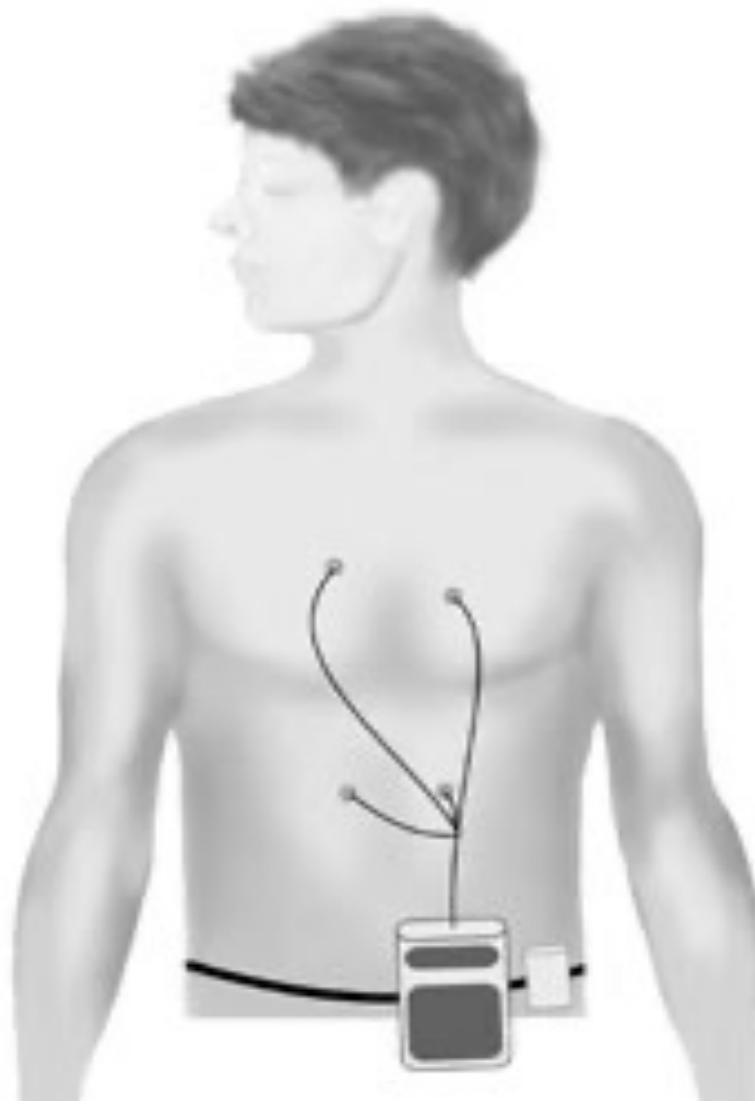


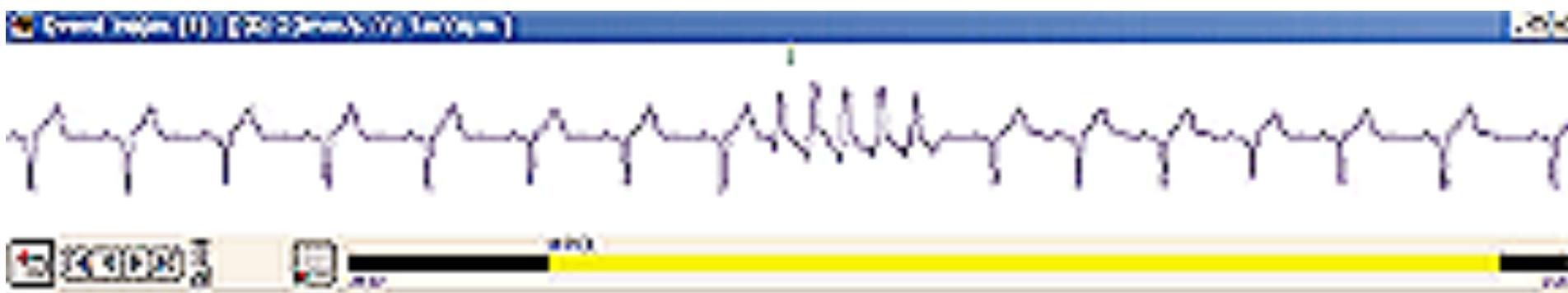
Échappement



Syncope : Les outils diagnostiques

Examen Holter





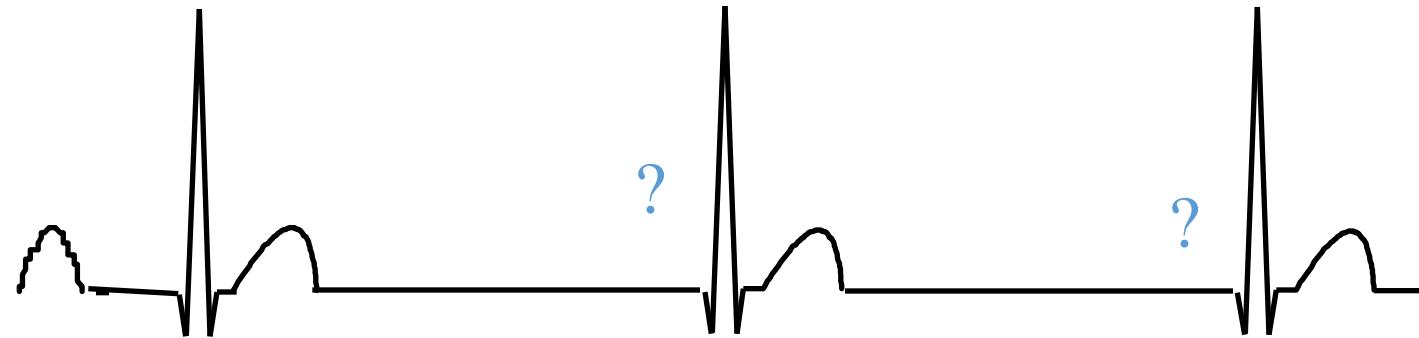


Dysfonction sinusale

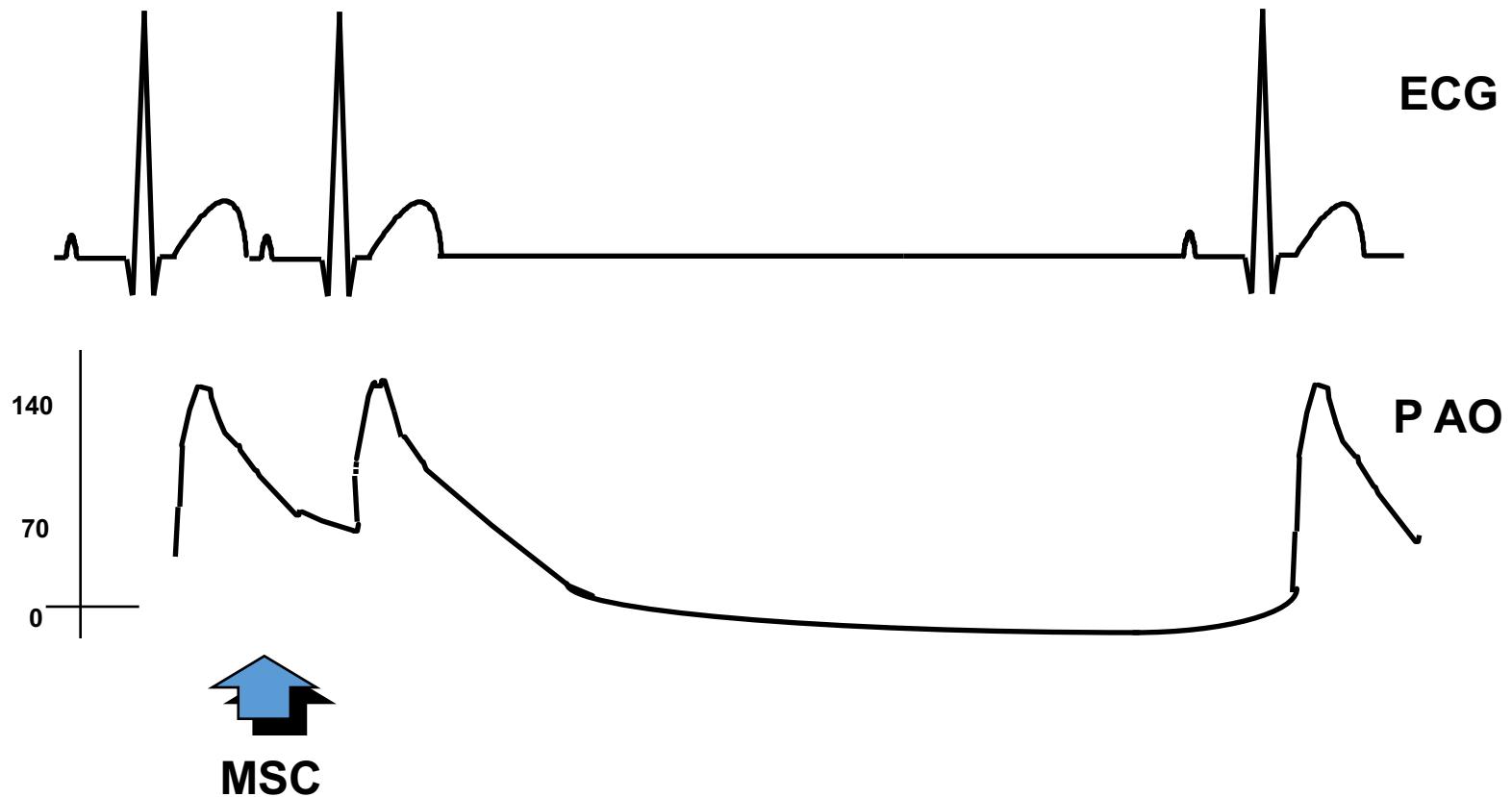
- Bradycardie <50 /min?
- Syndrome brady-tachycardie++++
- *Epreuve d'effort++++*

Bloc Sino-Auriculaire

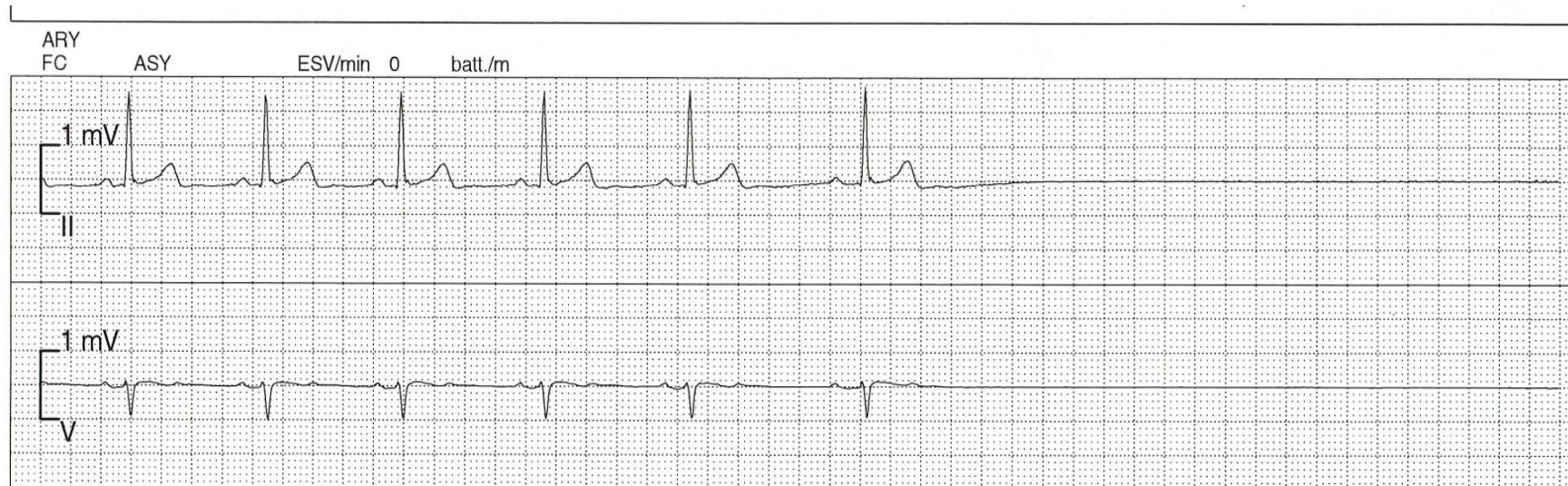
Echappement Jonctionnel



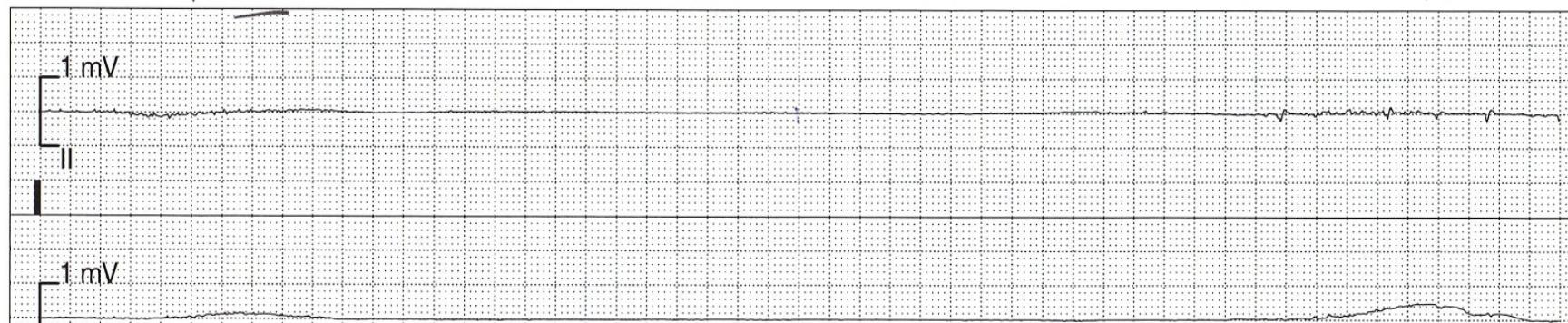
Syndrome Sino-Carotidien



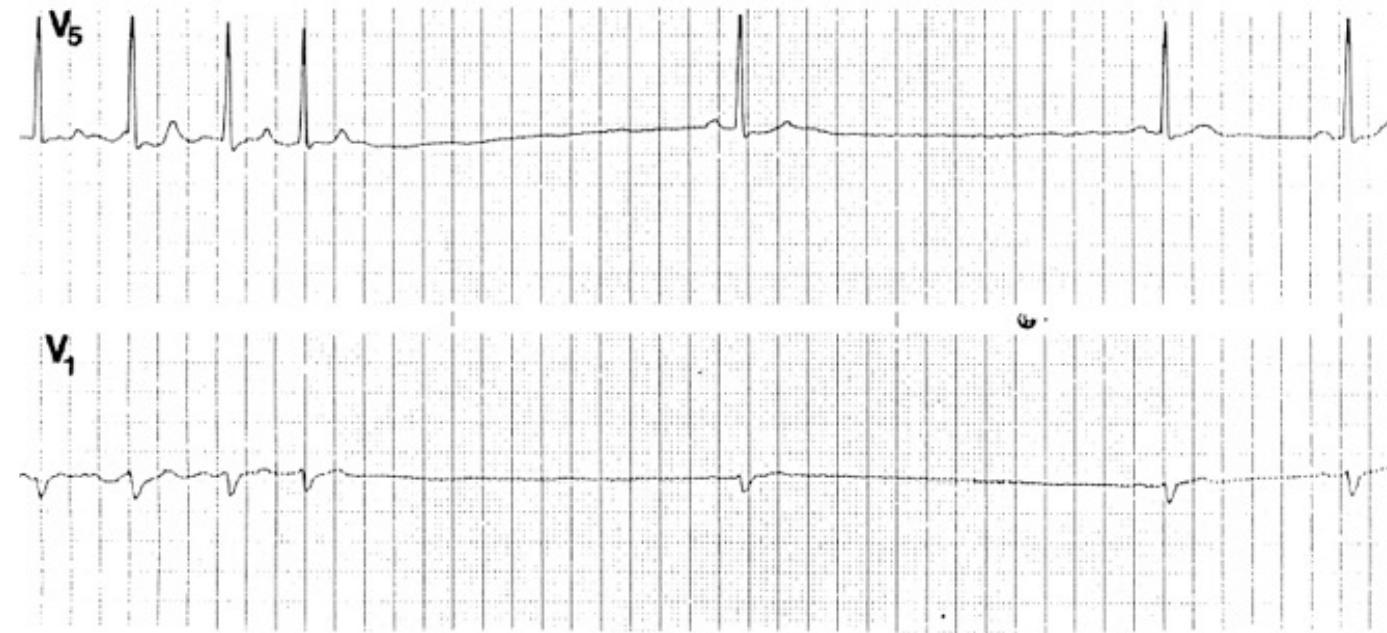
Lipothymies



MALAISE



Maladie de l'oreillette



Blocs atrio-ventriculaires

- Retard ou absence de conduction lorsque la jonction AV n'est pas en période réfractaire.

Bloc atrio-ventriculaire

Symptômes

- Aucun SF
- Lipothymie
- Syncope (Asystole ou tachycardie ventriculaire++++)
- Dyspnée

Blocs atrio-ventriculaires

Degrés

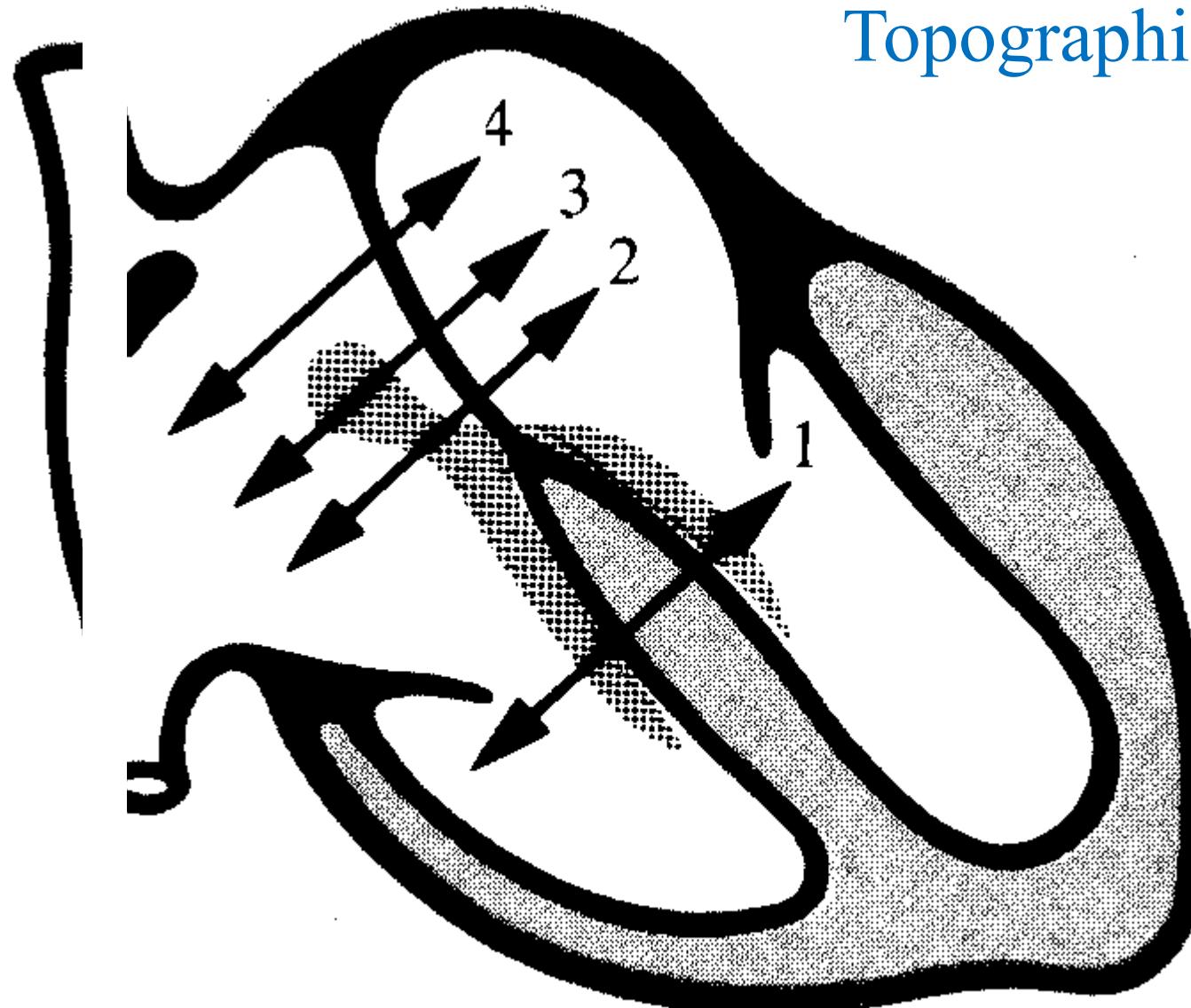
- Premier degré: Conduction prolongée
- Second degré: Conduction intermittente
 - Type I arrêt progressif
 - Type II arrêt brutal
- Deux sur un : Conduction 2/1 (attention DD entre type 1 et type 2)
- Haut degré : Deux ondes P consécutives non conduites
- Troisième degré : Absence de conduction

Bloc atrio ventriculaire

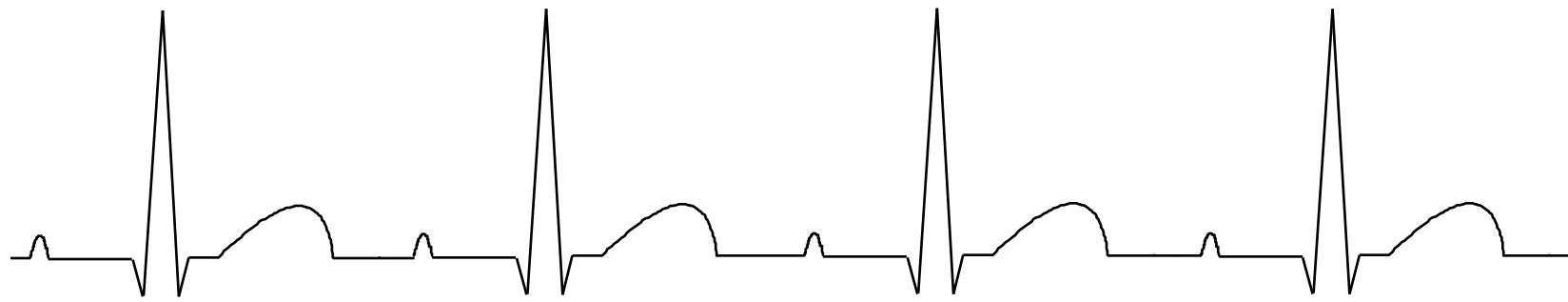
Topographie?

- *QRS fins* : bloc dans le noeud AV
- *Cadence d'échappement* pendant BAV < 30 /min :siège infra hisien;
>50/min supra hisien

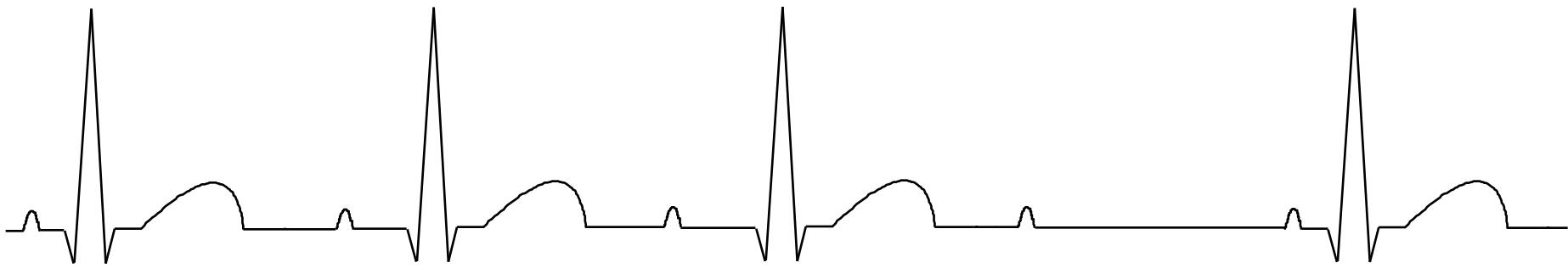
Bloc atrio-ventriculaires: Topographie



Bloc AV 1°



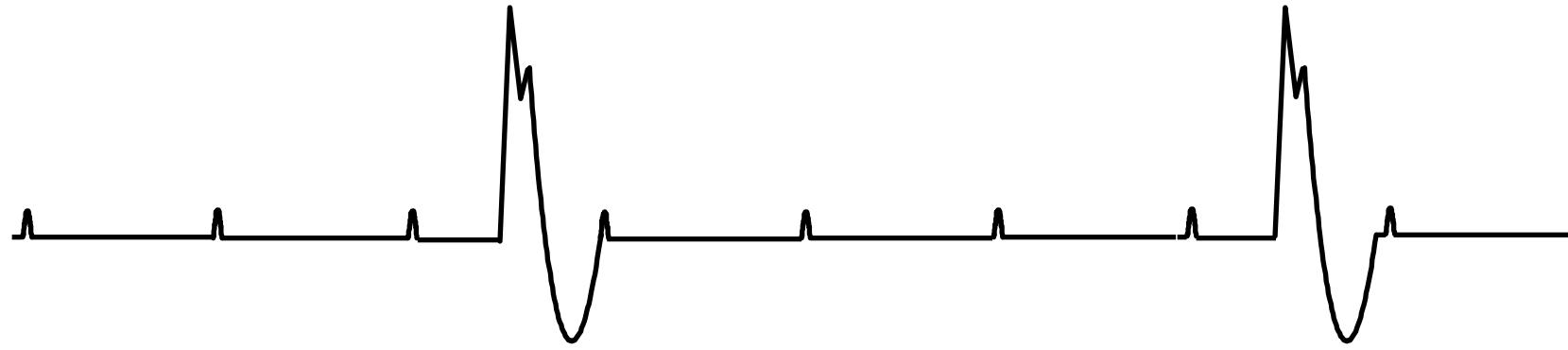
BAV 2°
Luciani Wenckebach



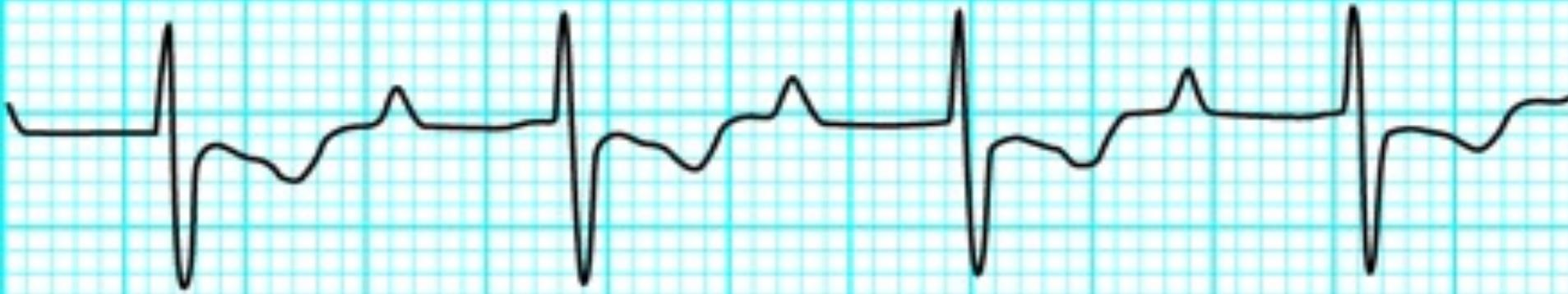
BAV 2°
Mobitz II

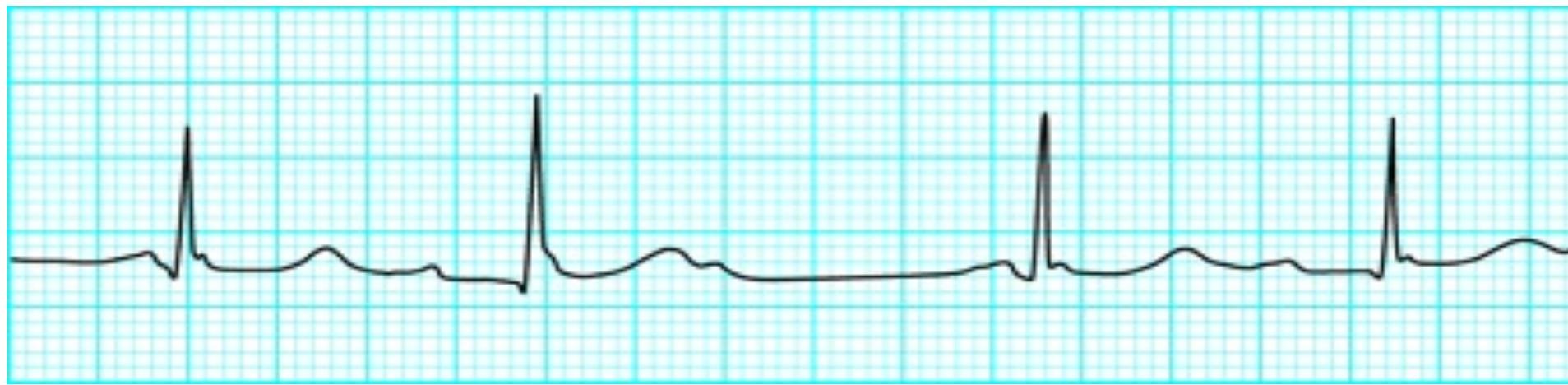


BAV 3°
bloc complet

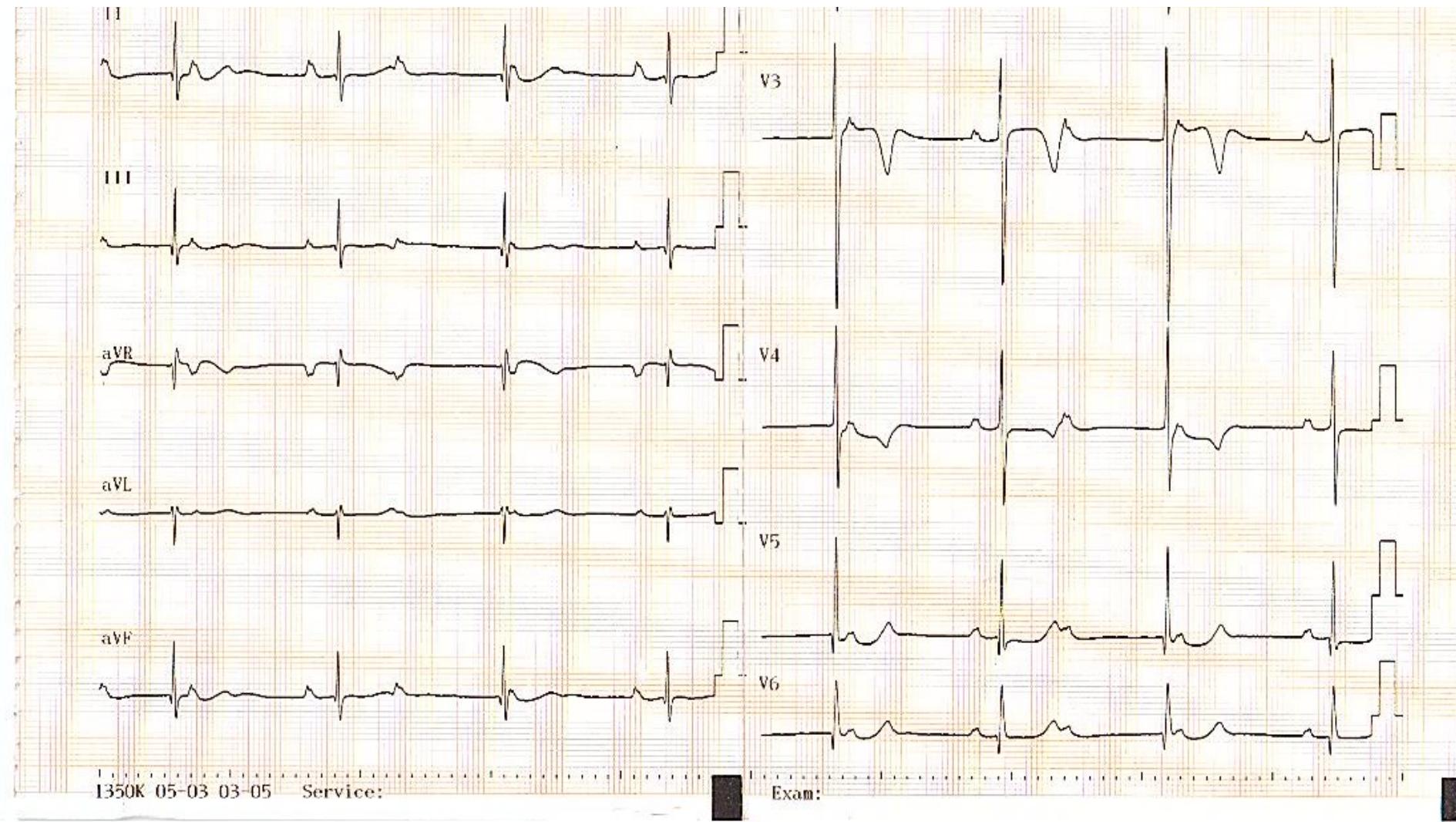


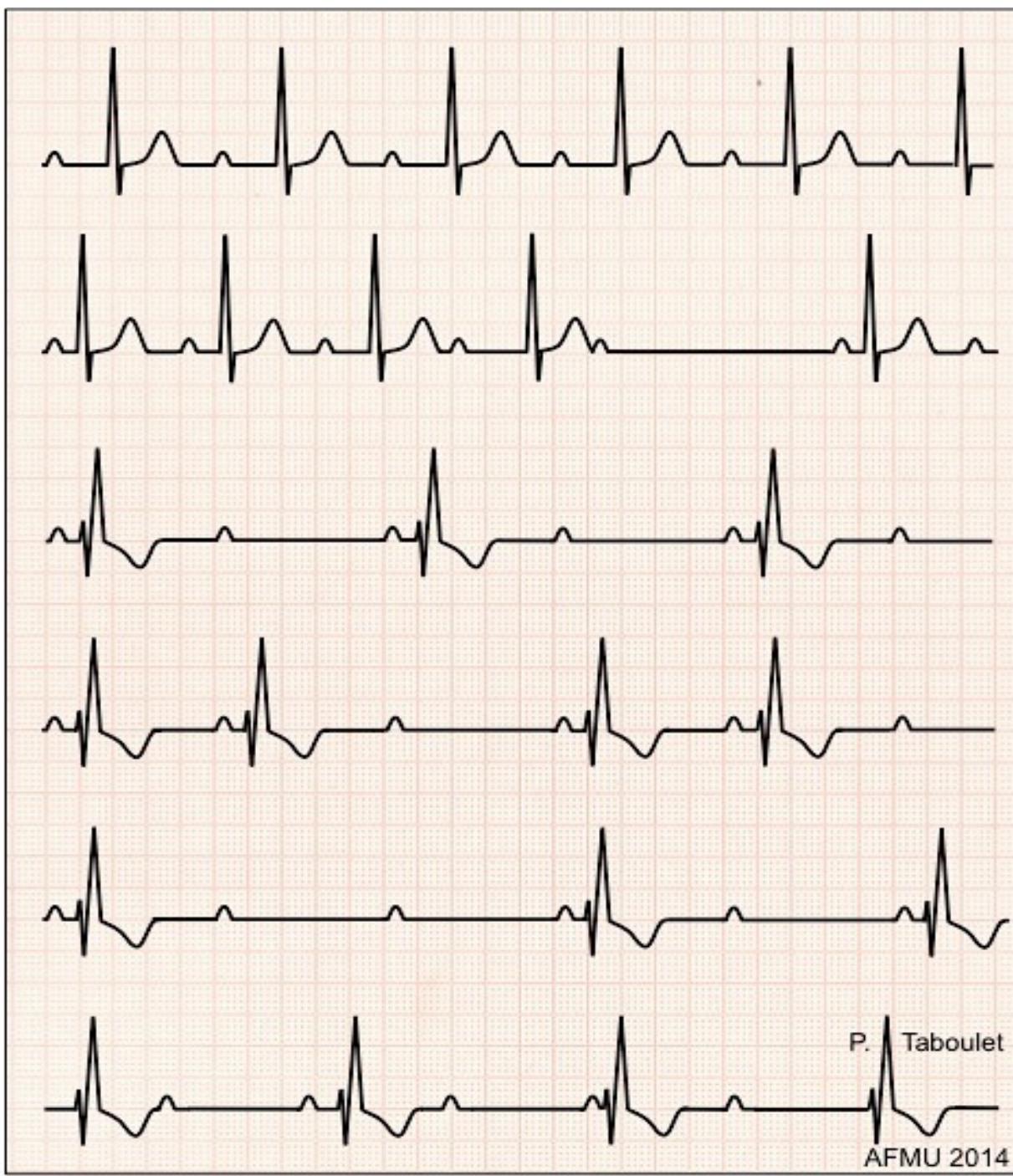
V2

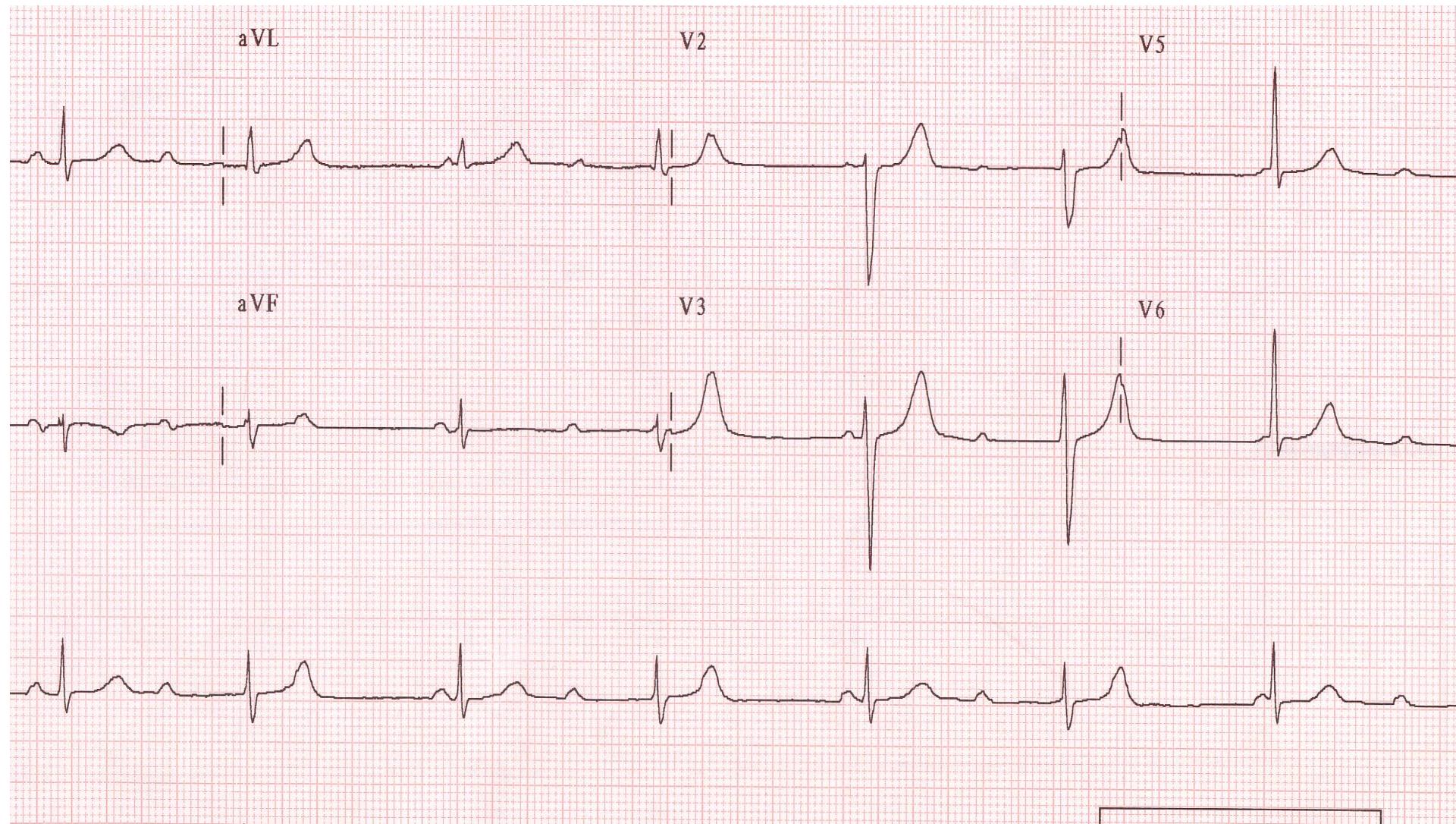


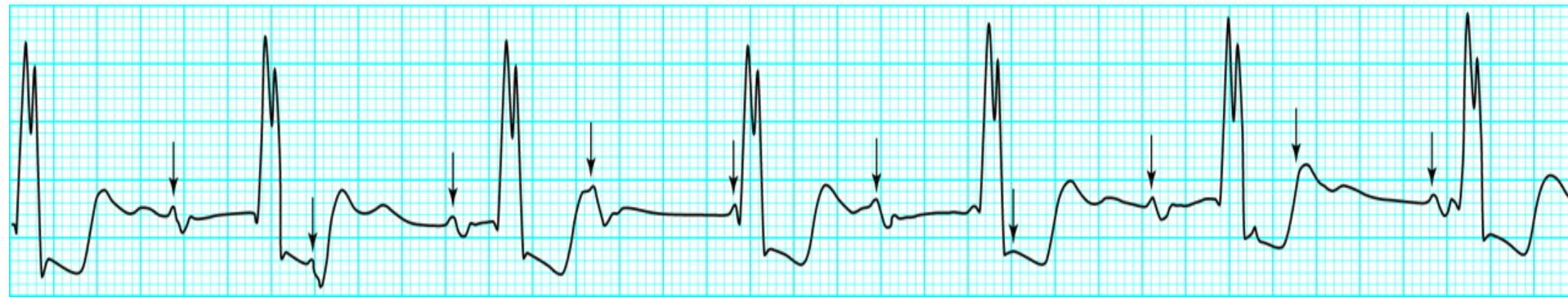
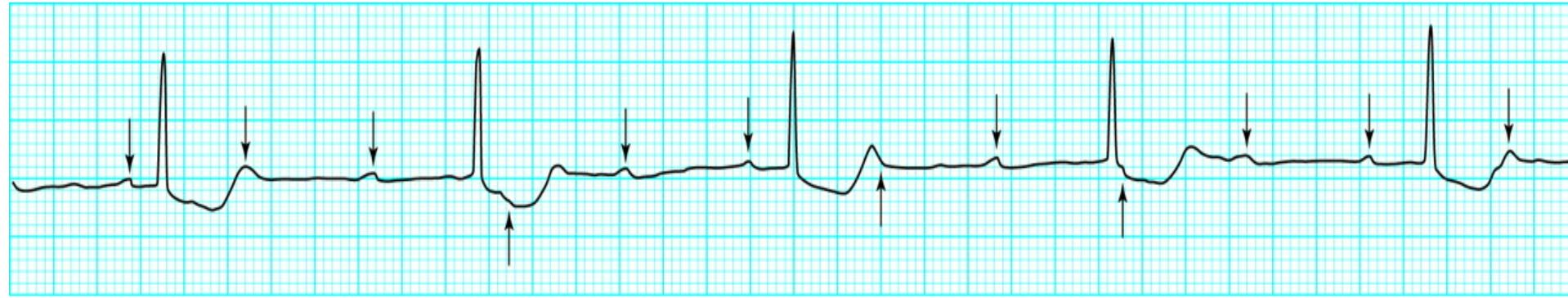




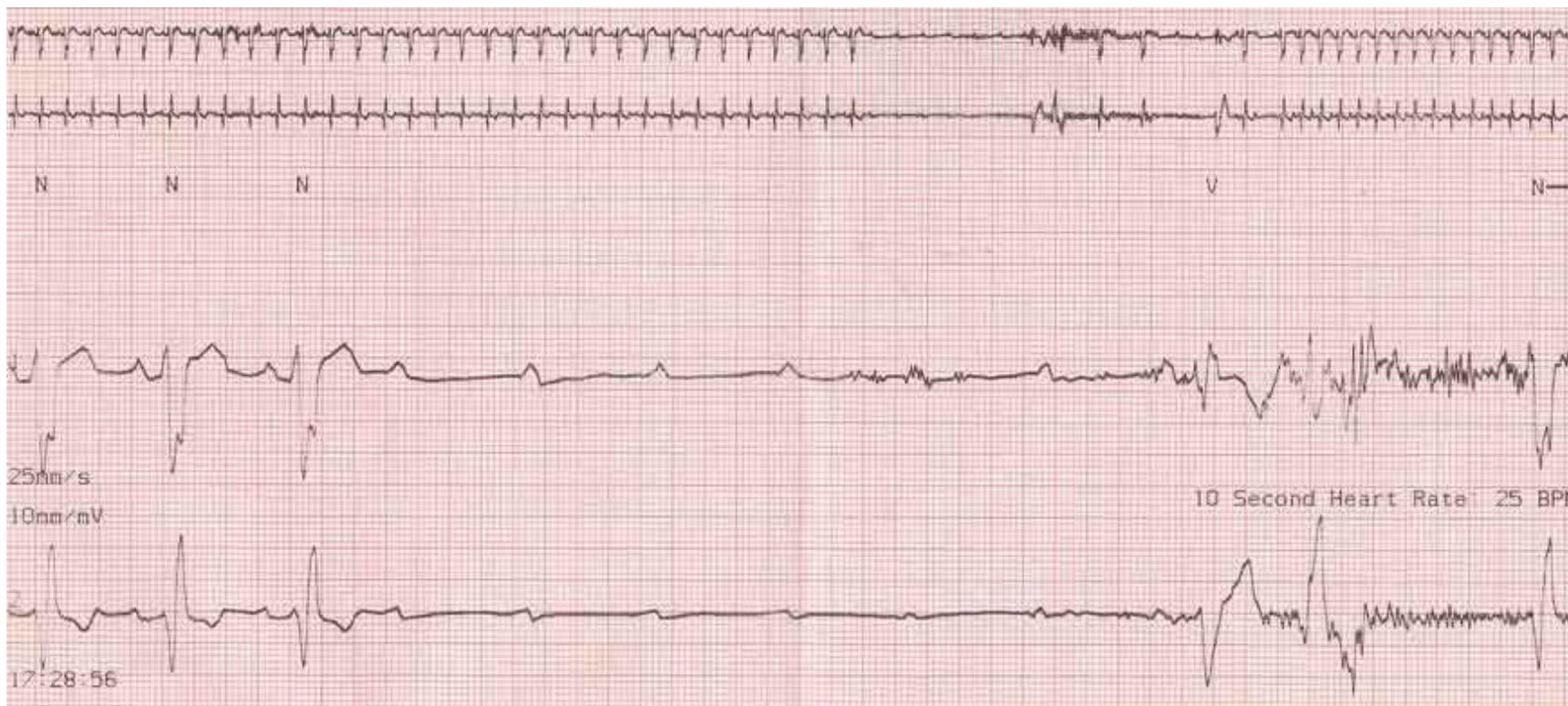




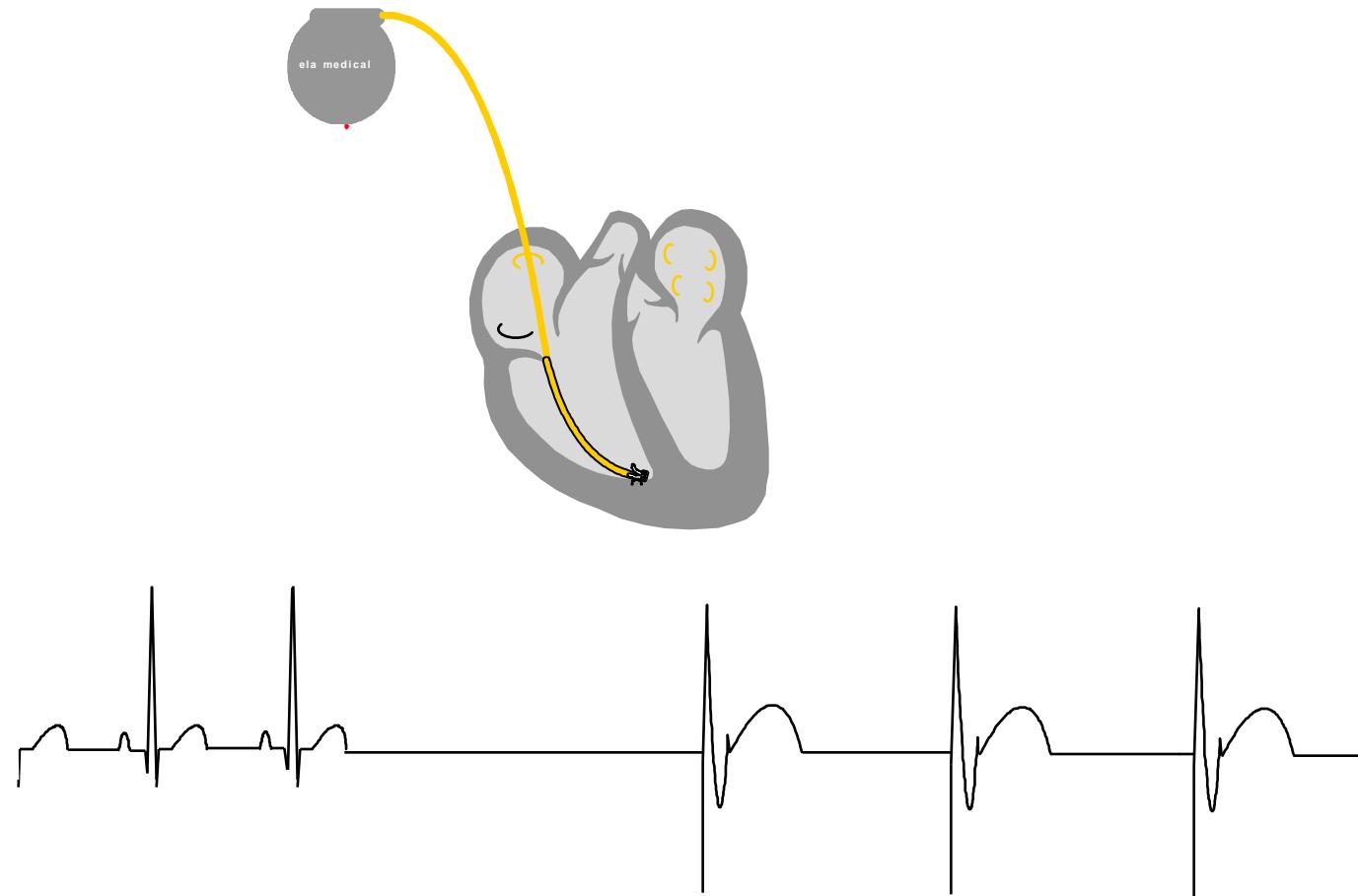




Syncope



Stimulation simple chambre VVI Pace Maker





Resynchronisation ventriculaire

