

G R O U P
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S A N T E
C L I N I
F U T U R



Prise en charge de la syncope en 2023

**CARDIO
RUN
2023**

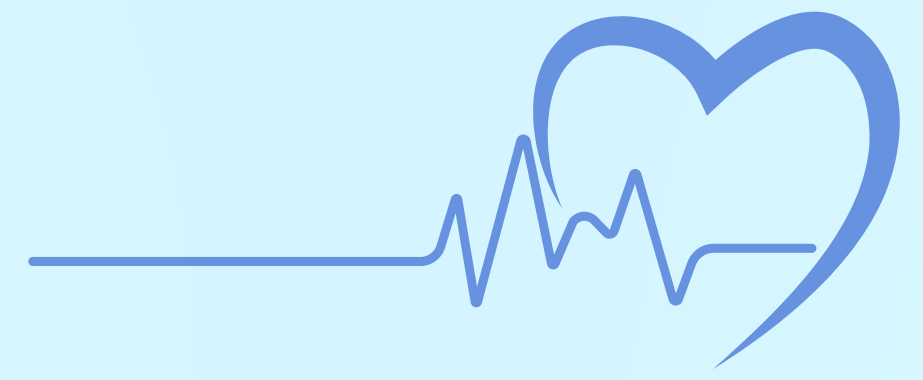
**15^{eme} CONGRÈS
DE PATHOLOGIE
CARDIO-VASCULAIRE**

27-28-29 SEPTEMBRE 2023

Hôtel Saint Alexis
ILE DE LA REUNION
France

CARDIORUN.ORG

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- (1) Epidémiologie et pronostic
- (2) Définition et classification
- (3) Affirmer le diagnostic de syncope
- (4) Evaluation initiale et stratification du risque
- (5) Bilan en unité syncope
- (6) Traitement
- (7) Algorithme décisionnel

CHANGE IN RECOMMENDATIONS 2009		2018	
Contraindications to CSM			
Tilt testing: indication for syncope ^{23, 24, 105-109, 111-117}			
Tilt testing for educational purposes ¹¹⁹⁻¹²¹			
Tilt testing: diagnostic criteria ^{23, 24, 105-109, 111-117}			
Tilt testing for assessing therapy			
Holter for unexplained syncope ¹⁶¹			
ECG monitoring: presyncope & asymptomatic arrhythmias			
Adenosine triphosphate test			
EPS-guided pacemaker: prolonged SNRT ²¹⁰⁻²¹²			
EPS-guided pacemaker: HV >70 ms ^{188, 214-217, 221}			
Empiric pacing in bifascicular block ^{217, 255, 344}			
Therapy of reflex syncope: PCM ^{119-121, 263, 264}			
Therapy of OH: PCM ³¹⁹			
Therapy of OH: abdominal binders ^{23, 320, 321}			
Therapy of OH: head-up tilt sleeping ^{104, 322, 323}			
Syncope & SVT/VT: AA drugs			
Expert opinion			

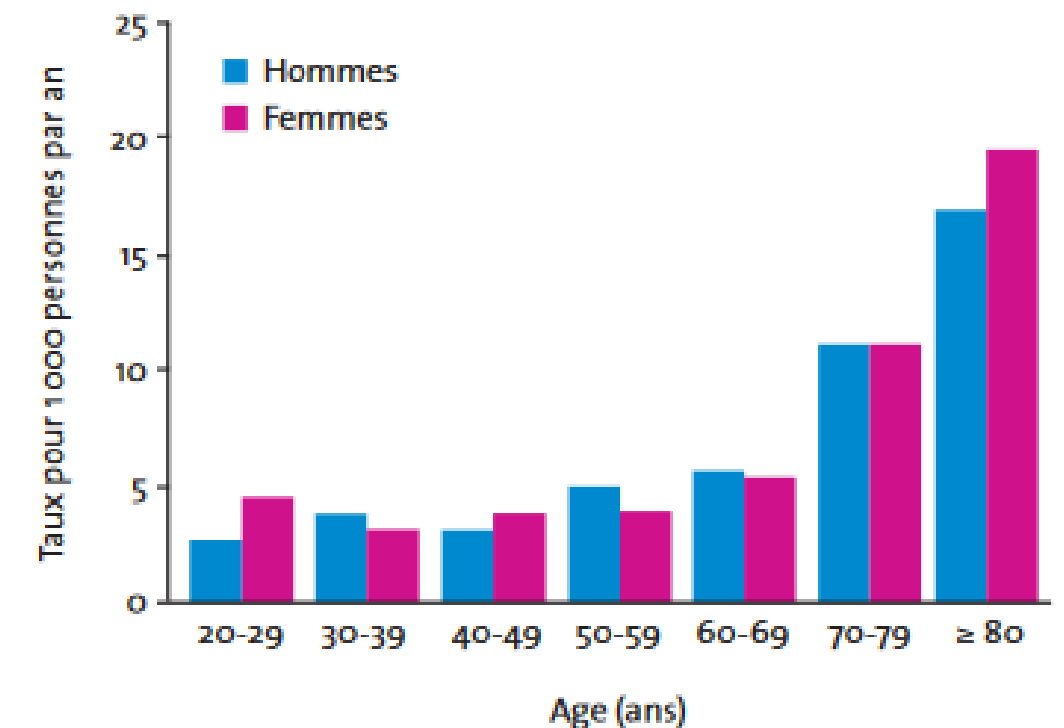
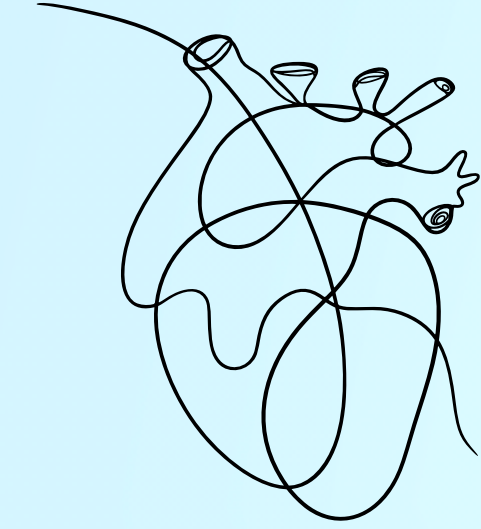
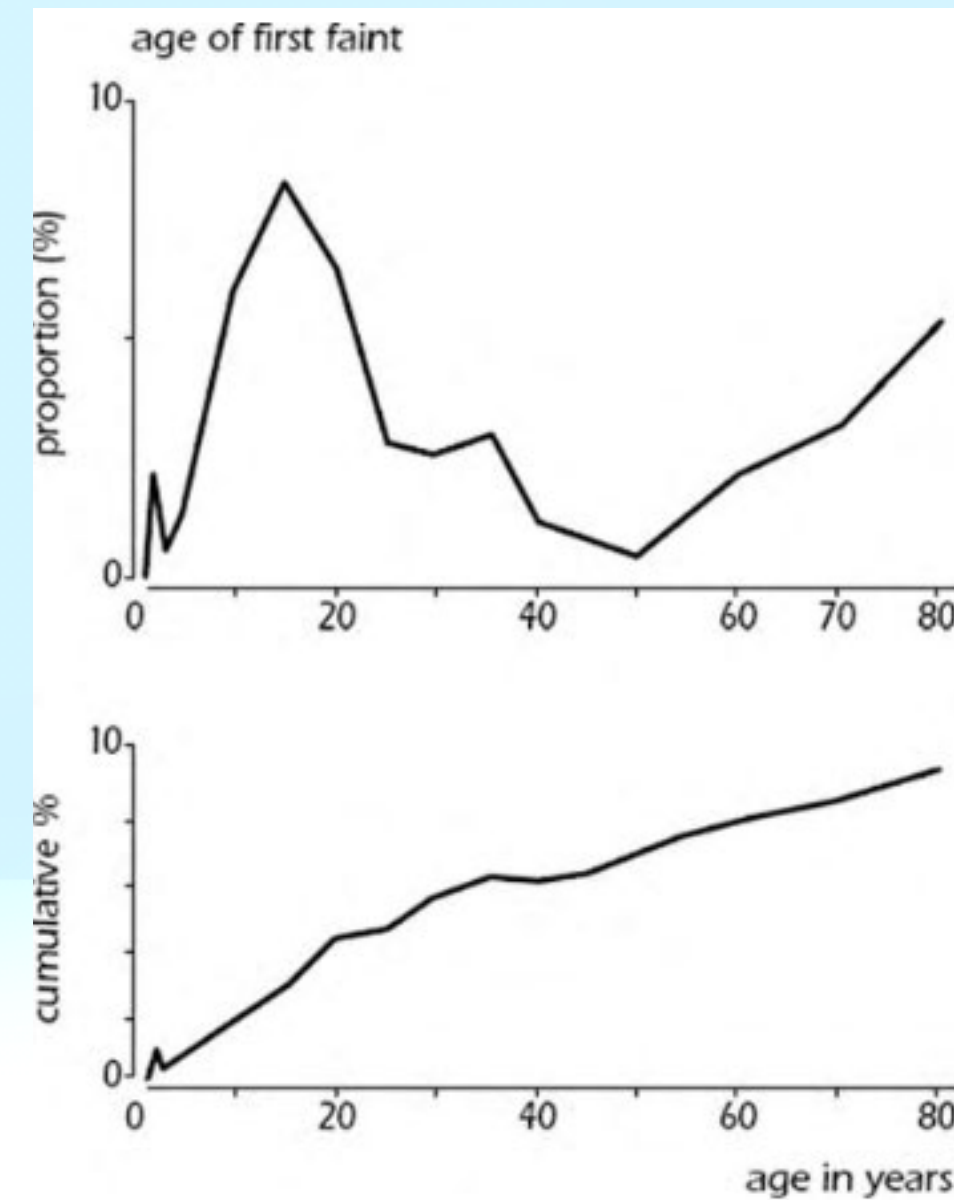
CHANGE IN RECOMMENDATIONS 2009		2018	
Syncope & AF: catheter ablation			
Expert opinion			
ICD: LVEF >35% and syncope ⁴⁶			
Syncope & high risk HCM: ICD ²⁴⁵			
Syncope & ARVC: ICD ⁴⁶			
Psychiatric consultation for PPS			
Expert opinion			

2018 NEW RECOMMENDATIONS (only major included)	
Management of syncope in ED (section 4.1.2)	
• <i>Low-risk</i> : discharge from ED	
• <i>High-risk</i> : early intensive evaluation in ED, SU versus admission	
• <i>Neither high or low</i> : observation in ED or in SU instead of being hospitalized	
Video recording (section 4.2.5):	
• Video recordings of spontaneous events	
ILR indications (section 4.2.4.7):	
• In patients with suspected unproven epilepsy	
• In patients with unexplained falls	
ILR indications (section 5.6):	
• In patients with primary cardiomyopathy or inheritable arrhythmogenic disorders who are at low risk of sudden cardiac death, as alternative to ICD	

I IIa IIb III Taken out

(1) EPIDEMIOLOGIE

- Incidence annuelle entre 6,2 et 9,3 pour 1000 habitants (1,2) => 8000/an à La Réunion (1/h)
- L'incidence suit une courbe bimodale.
- La Prévalence augmente avec l'âge
- 3 à 5% des admissions dans les services d'urgences (3) et 1 à 6% des hospitalisations



1 : Soteriades S : Incidence and prognosis of Syncope in the framingham Study. N Engl J Med 2002.347
2 : Ganzeboom KS : cumulative incidence of syncope in the general population. J Cardiovasc Electrophysiol 2006;17:1172-1176.
3 : Blanc J-J : Prospective evaluation and outcome of patients admitted for syncope. European Heart journal (2002)

Le plus souvent bénin mais...

Risque de décès après syncope cardiaque de 1,31 fois plus élevés que les sujets sans syncope (1)
Incidence élevées de mort subite après syncope d'origine cardiaque : 24% à 1 an (1)
Syncope reflexe : excellent pronostic avec survie identique à la population générale

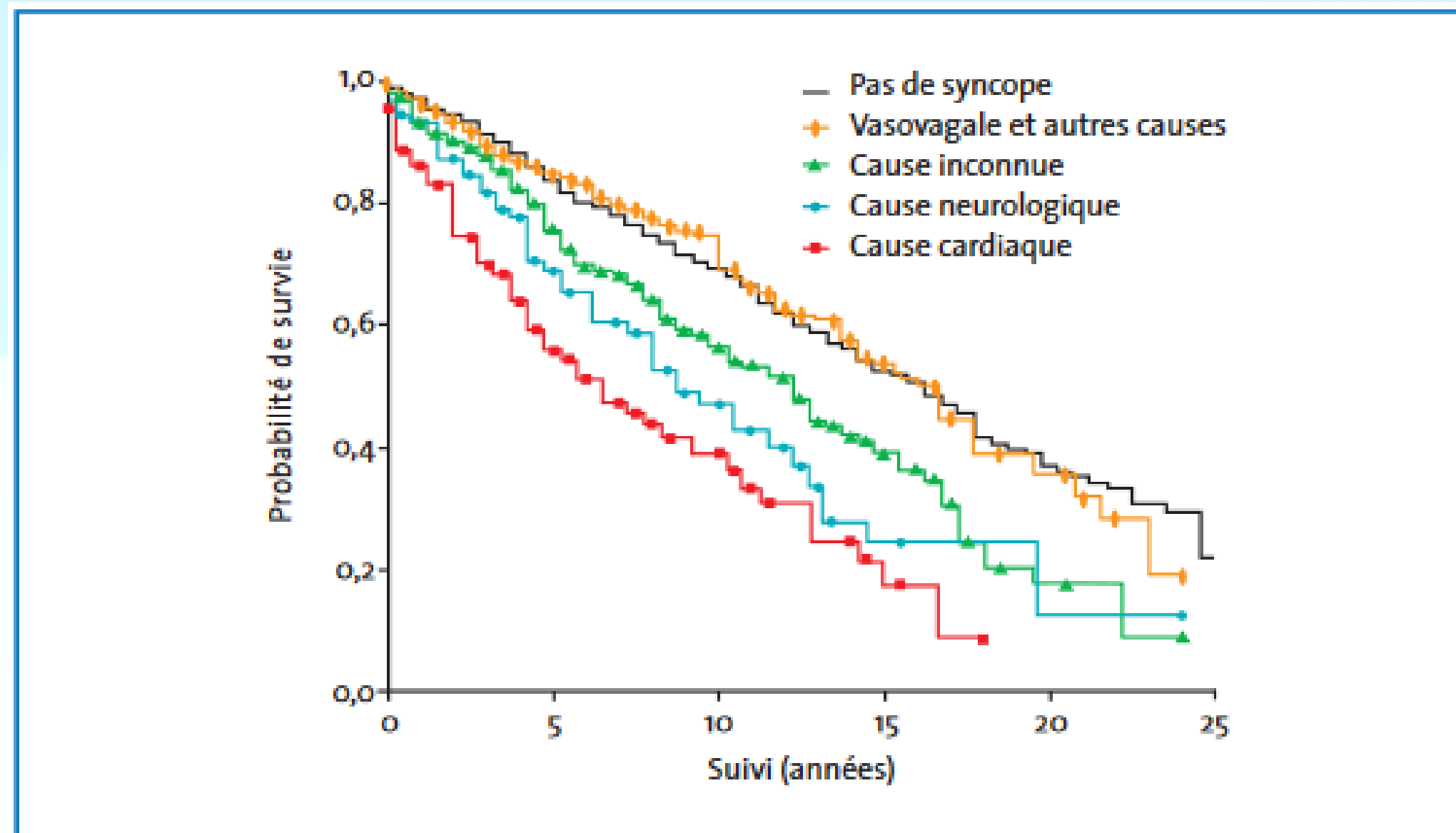
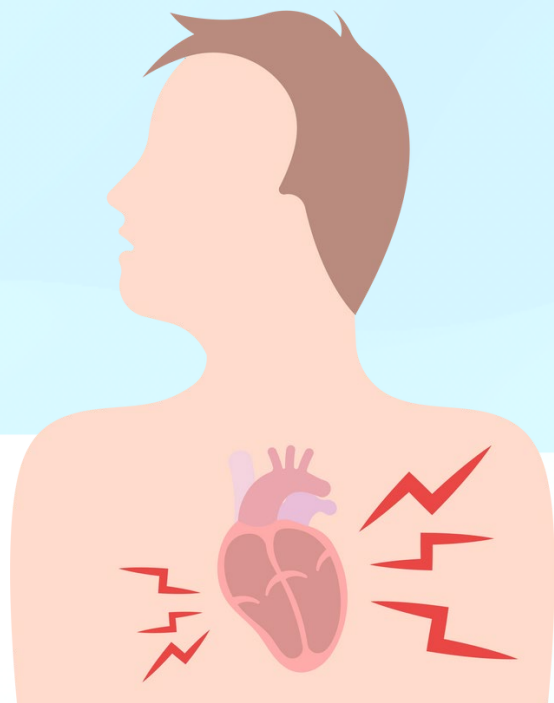
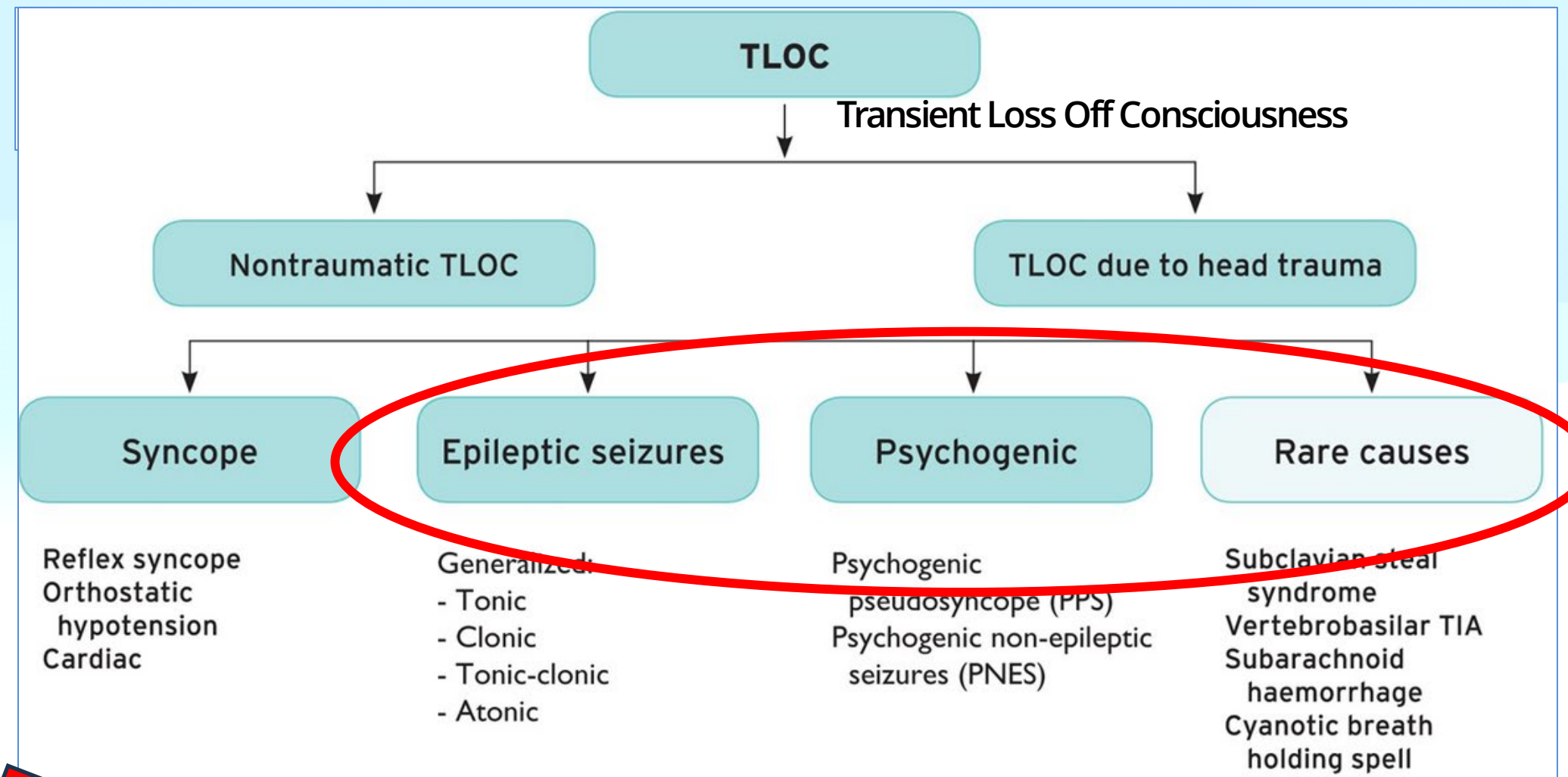


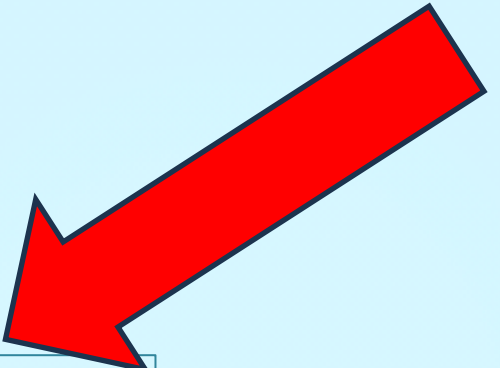
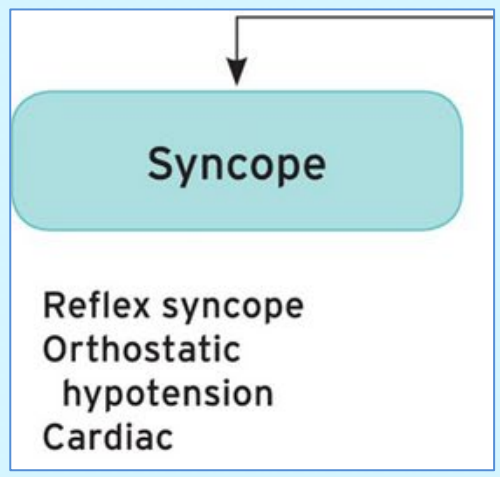
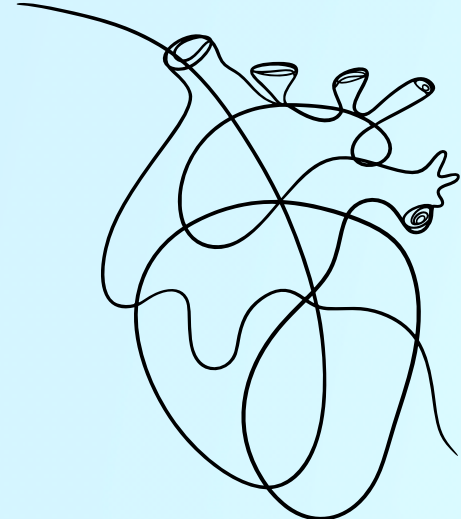
FIG. 5 : Signification pronostique des syncopes en fonction des différentes étiologies d'après Soteriades *et al.* [1].



(2) DEFINITION :

- ✓ Perte de connaissance transitoire, brève
- ✓ Sans traumatisme cranien
- ✓ spontanément résolutive
- ✓ s'accompagnant d'une perte de tonus postural
- ✓ retour rapide à un état de conscience normale





(1) Syncope reflexes

- Syncope vaso-vagale
- Hypersensibilité sino-carotidienne
- Situationnelle : miction, douleur intense, stimulation gastro-intestinale

(2) Hypotension orthostatique

- Médicamenteuse
- Dysautonomie : Alcool, Parkinson, neuropathie diabétique
- Hypo volémie

(3) Causes cardiaques

- Rythmique : +++
- Bradycardie : Dysfonction sinusale, BAV complet
- Tachycardie : TV/FV, TSV
- Structurelles : RAO, CMHO, Embolie pulmonaire, HTAP, myxome ...

Table 3 Classification of syncope

<p>Reflex (neurally mediated) syncope</p> <p>Vasovagal:</p> <ul style="list-style-type: none"> - orthostatic VVS: standing, less common sitting - emotional: fear, pain (somatic or visceral), instrumentation, blood phobia <p>Situational:</p> <ul style="list-style-type: none"> - micturition - gastrointestinal stimulation (swallow, defaecation) - cough, sneeze - post-exercise - others (e.g. laughing, brass instrument playing) <p>Carotid sinus syndrome</p> <p>Non-classical forms (without prodromes and/or without apparent triggers and/or atypical presentation)</p>
<p>Syncope due to OH</p> <p><i>Note that hypotension may be exacerbated by venous pooling during exercise (exercise-induced), after meals (postprandial hypotension), and after prolonged bed rest (deconditioning).</i></p> <p>Drug-induced OH (most common cause of OH):</p> <ul style="list-style-type: none"> - e.g. vasodilators, diuretics, phenothiazine, antidepressants <p>Volume depletion:</p> <ul style="list-style-type: none"> - haemorrhage, diarrhoea, vomiting, etc. <p>Primary autonomic failure (neurogenic OH):</p> <ul style="list-style-type: none"> - pure autonomic failure, multiple system atrophy, Parkinson's disease, dementia with Lewy bodies <p>Secondary autonomic failure (neurogenic OH):</p> <ul style="list-style-type: none"> - diabetes, amyloidosis, spinal cord injuries, auto-immune autonomic neuropathy, paraneoplastic autonomic neuropathy, kidney failure
<p>Cardiac syncope</p> <p>Arrhythmia as primary cause:</p> <p>Bradycardia:</p> <ul style="list-style-type: none"> - sinus node dysfunction (including bradycardia/tachycardia syndrome) - atrioventricular conduction system disease <p>Tachycardic:</p> <ul style="list-style-type: none"> - supraventricular - ventricular <p>Structural cardiac: aortic stenosis, acute myocardial infarction/ischaemia, hypertrophic cardiomyopathy, cardiac masses (atrial myxoma, tumours, etc.), pericardial disease/tamponade, congenital anomalies of coronary arteries, prosthetic valve dysfunction</p> <p>Cardiopulmonary and great vessels: pulmonary embolus, acute aortic dissection, pulmonary hypertension</p>

(3) Affirmer le diagnostic de syncope : évaluation initiale : repose quasi exclusivement sur l'interrogatoire

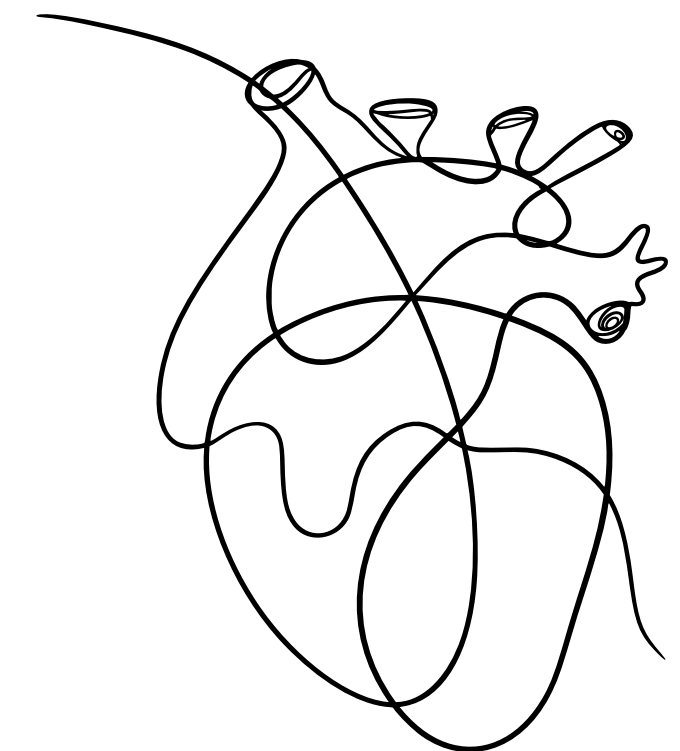
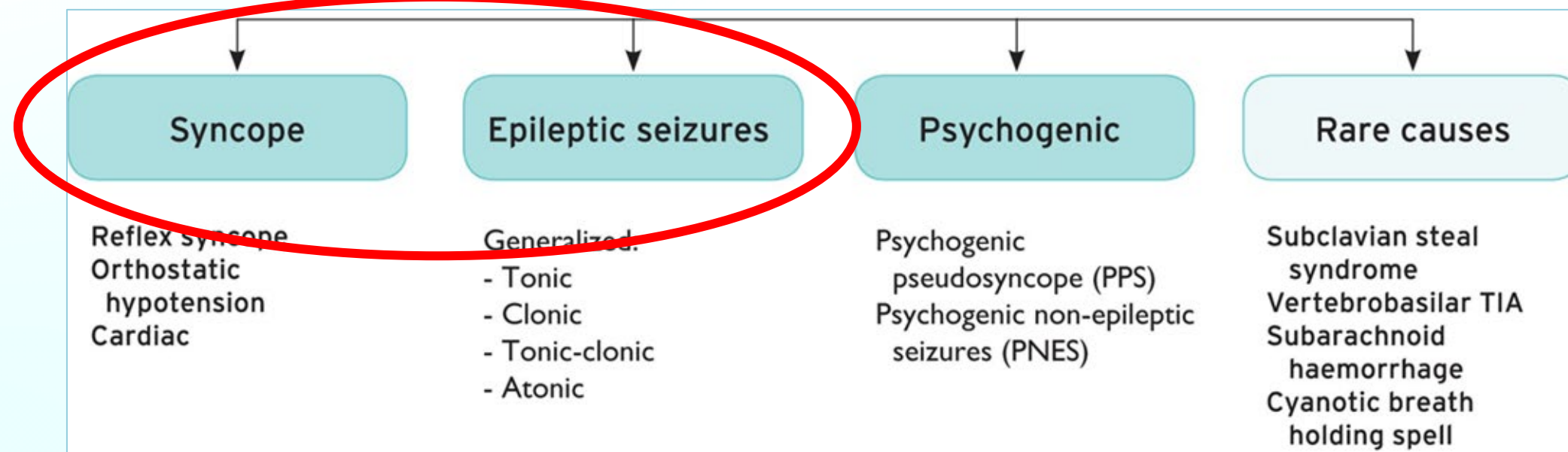
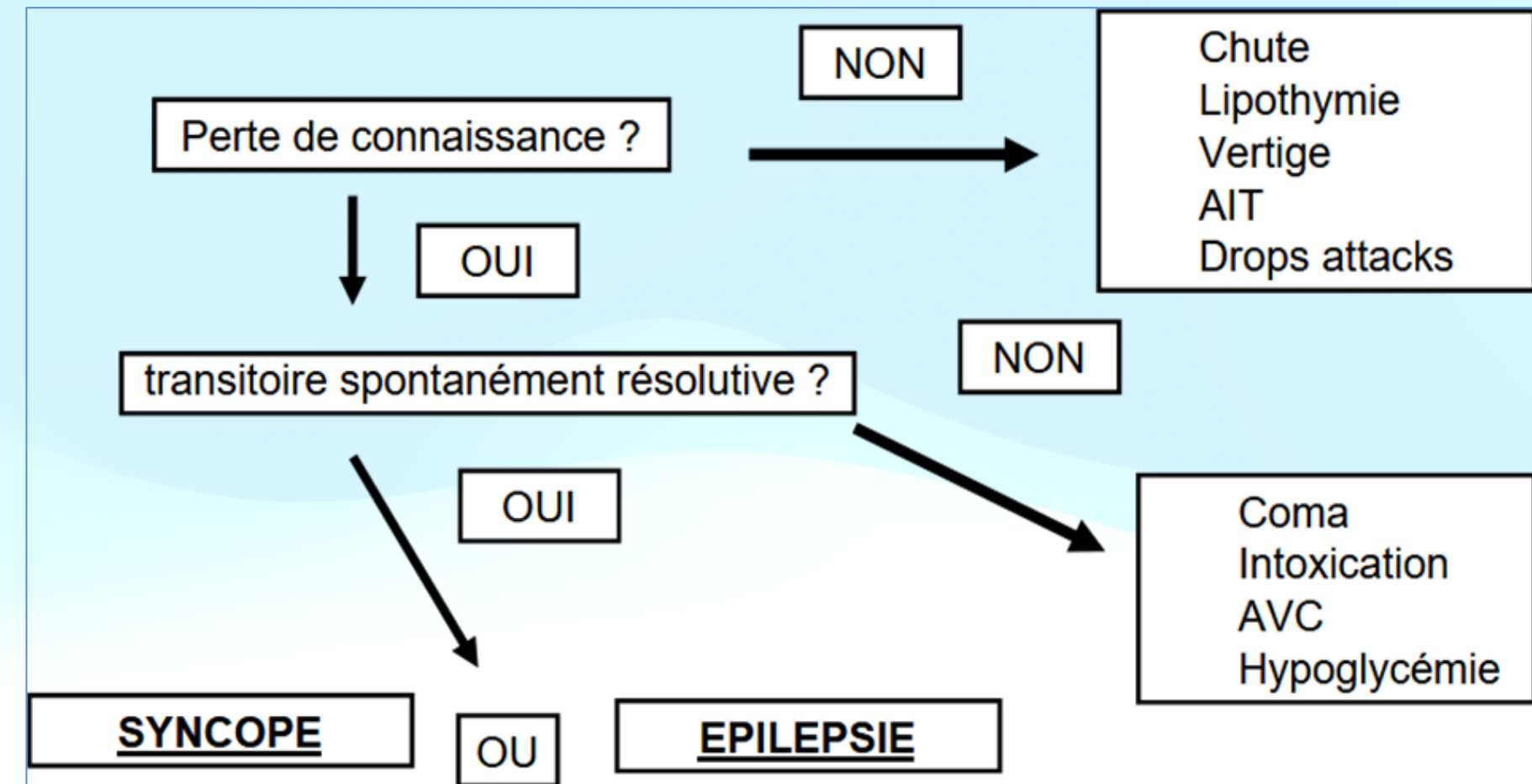
• Ya-t-il eu perte de connaissance complète (TLOC = Transient loss of consciousness) ?

• Transitoire et spontanément résolutive ?

• Si la réponse est oui :

=> Syncope

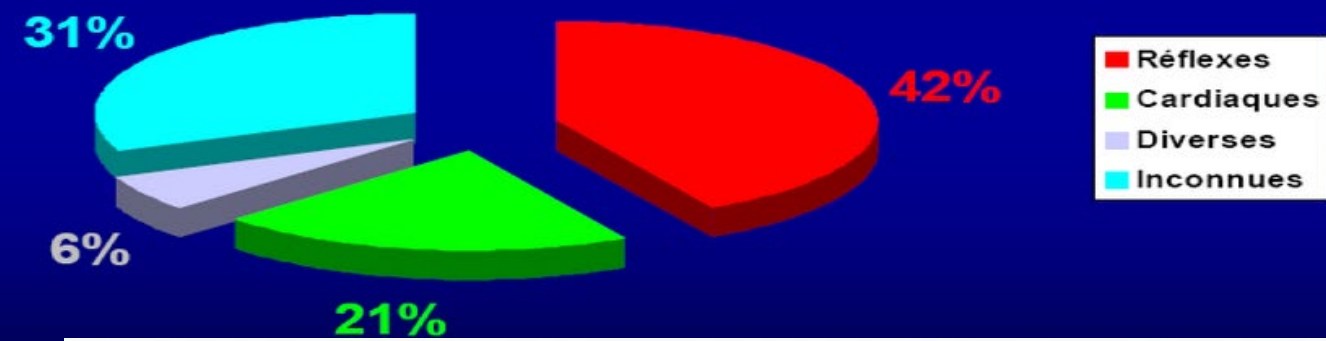
=> TLOC non syncopal => épilepsie



Syncope ou épilepsie ?

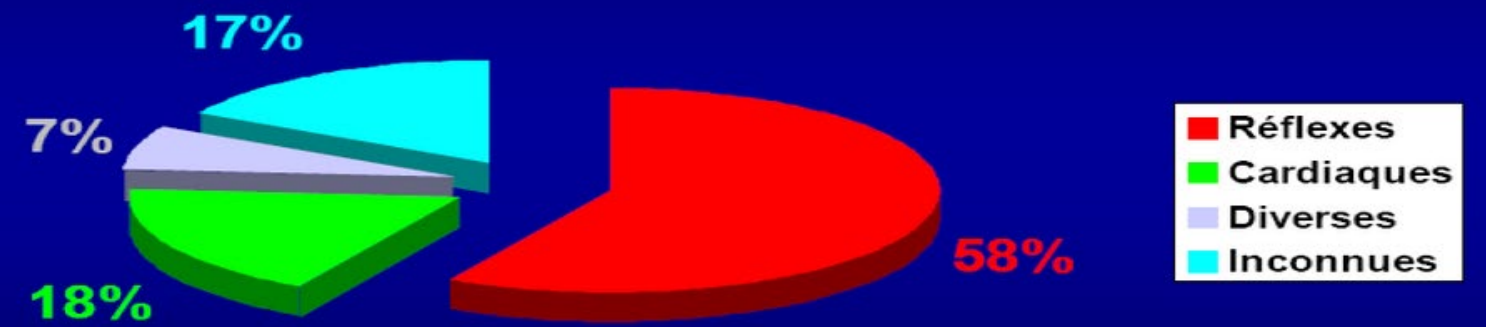
En faveur de :	<u>syncope</u>	<u>Epilepsie</u>
<u>Avant la PDC</u>	Nausées, vomissements, froid, sueurs, douleurs abdo	Aura (visuelle, auditive, olfactive), cri
<u>Pendant la PDC</u>	Durée courte (1 à 2 minutes) Perte de contact complète Mouvements tonico-cloniques brefs (<15sec) qui débutent après la PDC	Durée prolongée Mouvements tonico-cloniques prolongés qui coïncident avec le début de la PDC Mouvements automatiques (mastications) Mouvements cloniques d'un hémicorps Morsure de langue
<u>Après la PDC</u>	Nausées, pâleur	Confusion, amnésie, courbature

ETIOLOGIES



Jean Jacques BLANC
DIU 2007

ETIOLOGIES



Alboni JACC 2001
385 Pts

Setting	Source	Reflex, %	OH, %	Cardiac, %	Non-syncopal T-LOCs, %	Unexplained, %	Notes
General population	Framingham studies ³	21	9.4	9.5	9	37	Mean age at entry of 51 ± 14 years, adolescents excluded. Other causes of syncope (medication, etc.) were found in 14.3% of the population. Furthermore, 44% of population did not seek a medical visit.
ED	Ammirati ²⁹	35	6	21	20	17	*Some differences in diagnostic definitions
	Sarasin ³⁵	38*	24*	11	8	19	
	Blanc ³⁰	48	4	10	13	24	
	Disertori ³⁴	45	6	11	17	19	
	Olde Nordkamp ²⁸	39	5	5	17	33	
	Range	35-48	4-24	5-21	8-20	17-33	
Syncope Unit (dedicated facility)	Alboni ⁶⁸	56	2	23	1	18	In the Cardiology Department.
	Chen ³⁶	56	6	37	3	20	In the Cardiology Department. Total percentage is >100% because 18.4% of the patients had multiple diagnoses
	Shen ²¹³	65	10	6	2	18	In the ED
	Brignole ⁶⁴	65	10	13	6	5	Multicentre study of 19 syncope units with referral from Emergency Department and standardized diagnostic pathway (interactive decision-making software and central monitoring)
	Ammirati ⁶²	73	1	6	2	18	Out-patient referral
	Range	56-73	1-10	6-37	1-6	5-20	

ED = Emergency Department; OH = orthostatic hypotension; T-LOC = transient loss of consciousness.

(4)Evaluation initiale

Evaluation initiale :

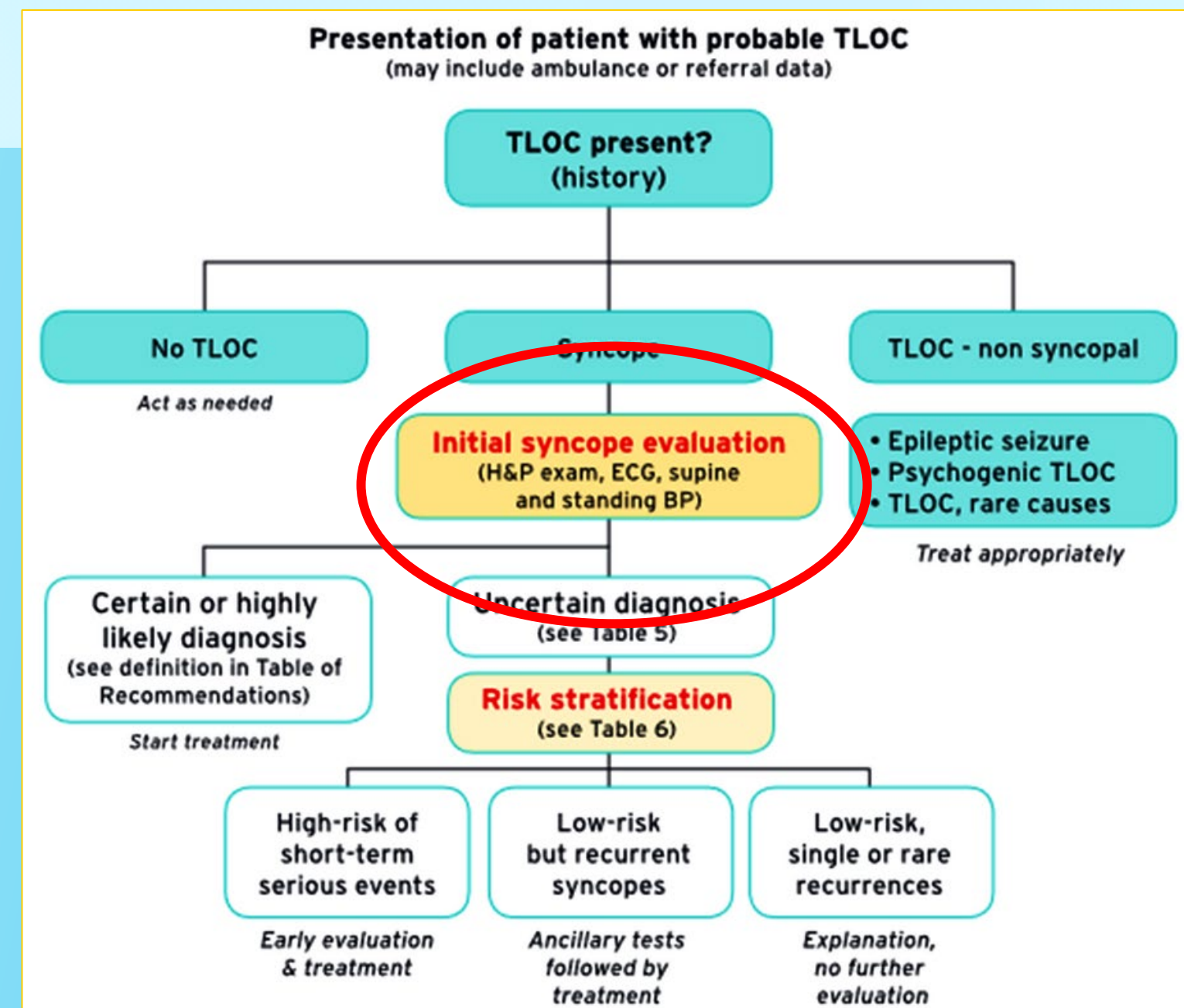
- Interrogatoire avec arbre généalogique
- Examen clinique avec recherche d'hypo TA orthostatique et MSC
- ECG
- Biologie selon orientation clinique

Question 1 : Présentations stéréotypées ?

- Syncope reflexe
- Hypotension orthostatique

Question 2 : Quel est le risque rythmique ?

- Faible : sortie possible et prise en charge ambulatoire
- Risque élevé : nécessité d'hospitalisation (unité syncope)



(4)Evaluation initiale

Cardiac sinus massage

Recommendations	Class ^a	Level ^b
Indications		
CSM is indicated in patients >40 years of age with syncope of unknown origin compatible with a reflex mechanism. ⁹²⁻⁹⁴	I	B
Diagnostic criteria		
CSS is confirmed if CSM causes bradycardia (asystole) and/or hypotension that reproduce spontaneous symptoms, and patients have clinical features compatible with a reflex mechanism of syncope. ^{89,90,92,93,98-102}	I	B

Active standing

Recommendations	Class ^a	Level ^b
Indications		
Intermittent determination by sphygmomanometer of BP and HR while supine and during active standing for 3 min are indicated at initial syncope evaluation. ^{20,103,104}	I	C

Diagnostic criteria

Syncope due to OH is confirmed when there is a fall in systolic BP from baseline value ≥ 20 mmHg or diastolic BP ≥ 10 mmHg, or a decrease in systolic BP to < 90 mmHg that reproduces spontaneous symptoms.^{6,20,103,104}

Syncope due to OH should be considered likely when there is an asymptomatic fall in systolic BP from baseline value ≥ 20 mmHg or diastolic BP ≥ 10 mmHg, or a decrease in systolic BP to < 90 mmHg, and symptoms (from history) are consistent with OH.^{6,20,103,104}

I

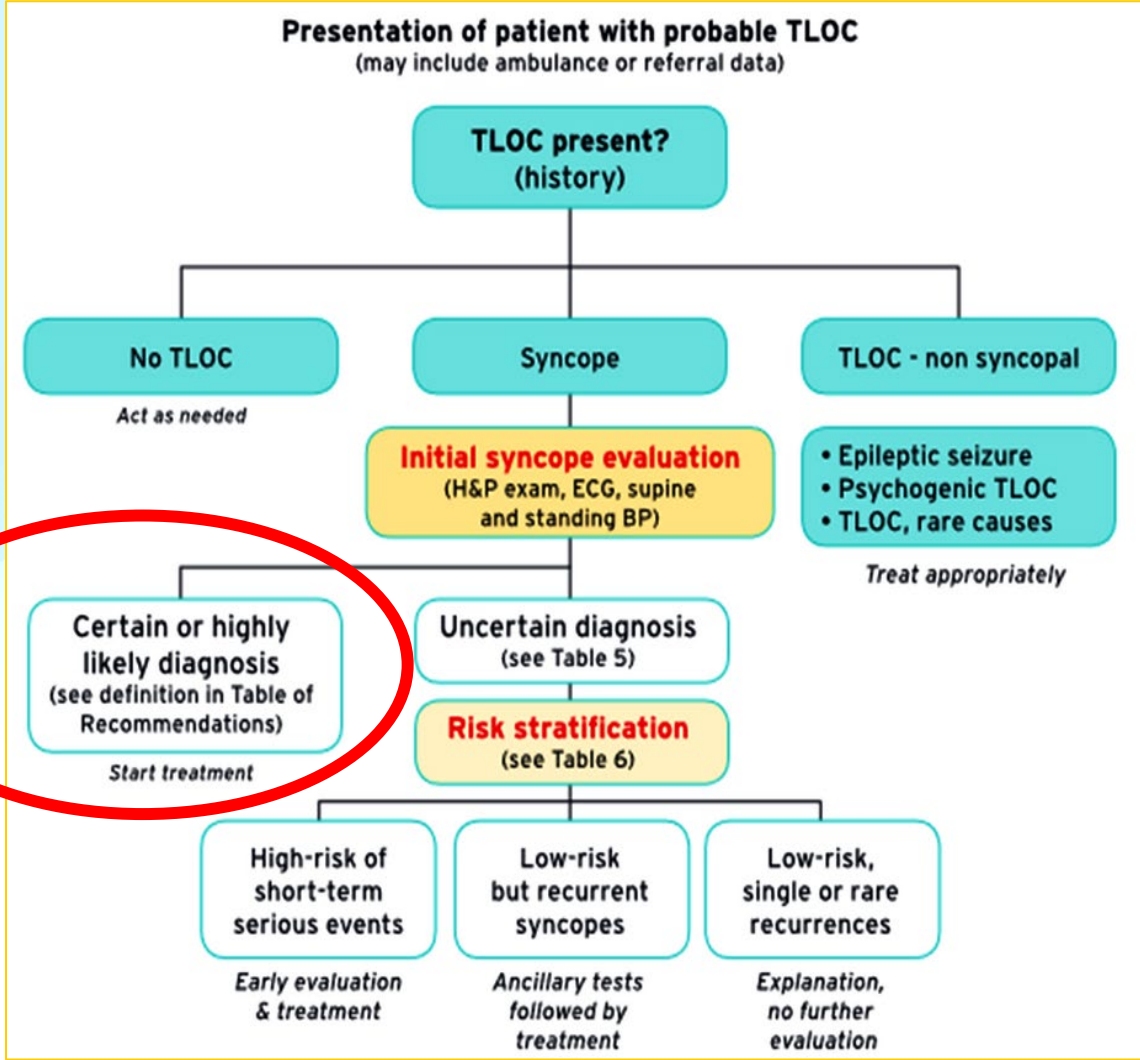
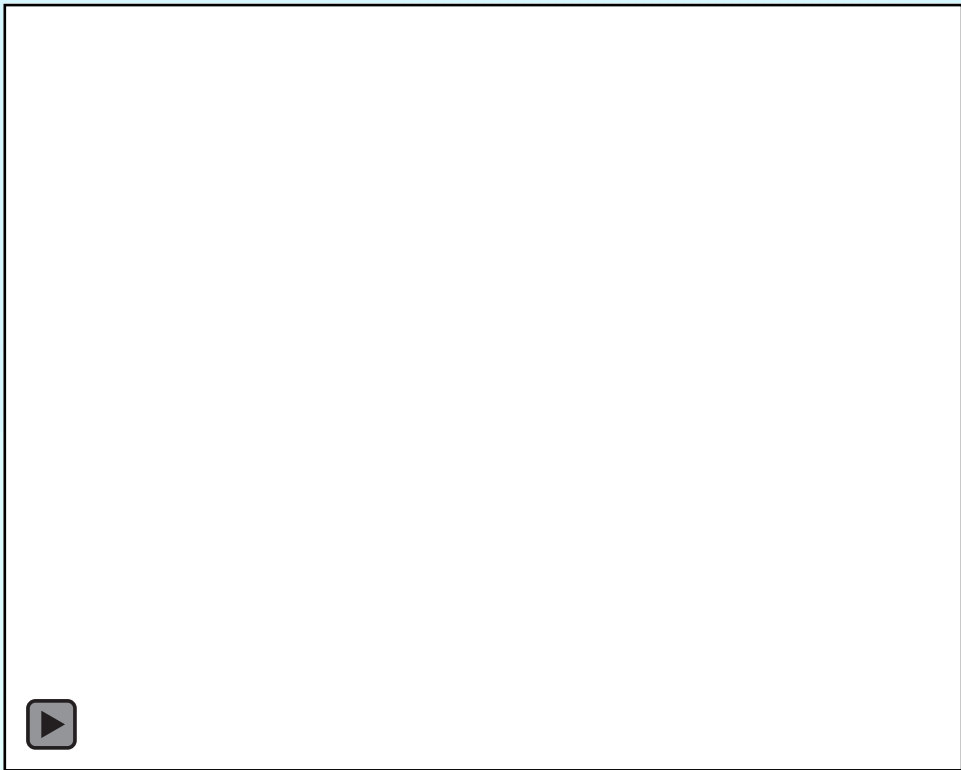
C

IIa

C

Questions 1: Présentations stéréotypées ?

- Syncope reflexe



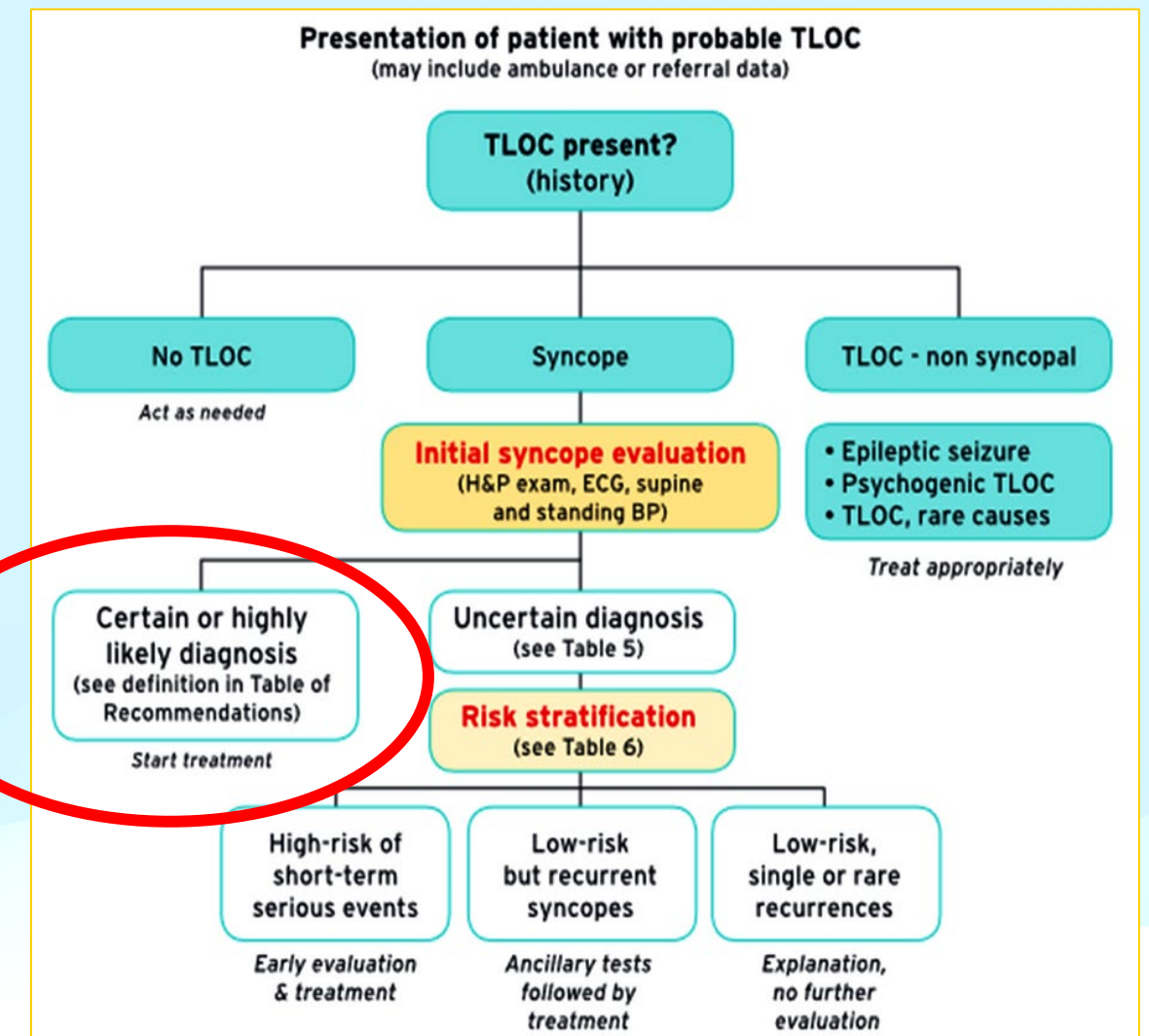
Diagnostic criteria with initial evaluation

Recommendations	Class ^a	Level ^b
Reflex syncope and OH		
VVS is highly probable if syncope is precipitated by pain, fear, or standing, and is associated with typical progressive prodrome (pallor, sweating, and/or nausea). ^{8,13-17}	I	C
Situational reflex syncope is highly probable if syncope occurs during or immediately after specific triggers, listed in Table 3. ^{8,13-17}	I	C
Syncope due to OH is confirmed when syncope occurs while standing and there is concomitant significant OH. ¹⁸⁻²⁴	I	C
In the absence of the above criteria, reflex syncope and OH should be considered likely when the features that suggest reflex syncope or OH are present and the features that suggest cardiac syncope are absent (see Table 5).	IIa	C

Questions 1: Présentations stéréotypées ?

- Hypotension orthostatique

- Sujet âgé
- Passage en orthostatisme
- Traitement hypotenseur
- Dysautonomie : Maladie de parkinson, diabète, éxogénose chronique
- Hypovolémie
- Peut être confirmé par la recherche d'une hypotension orthostatique

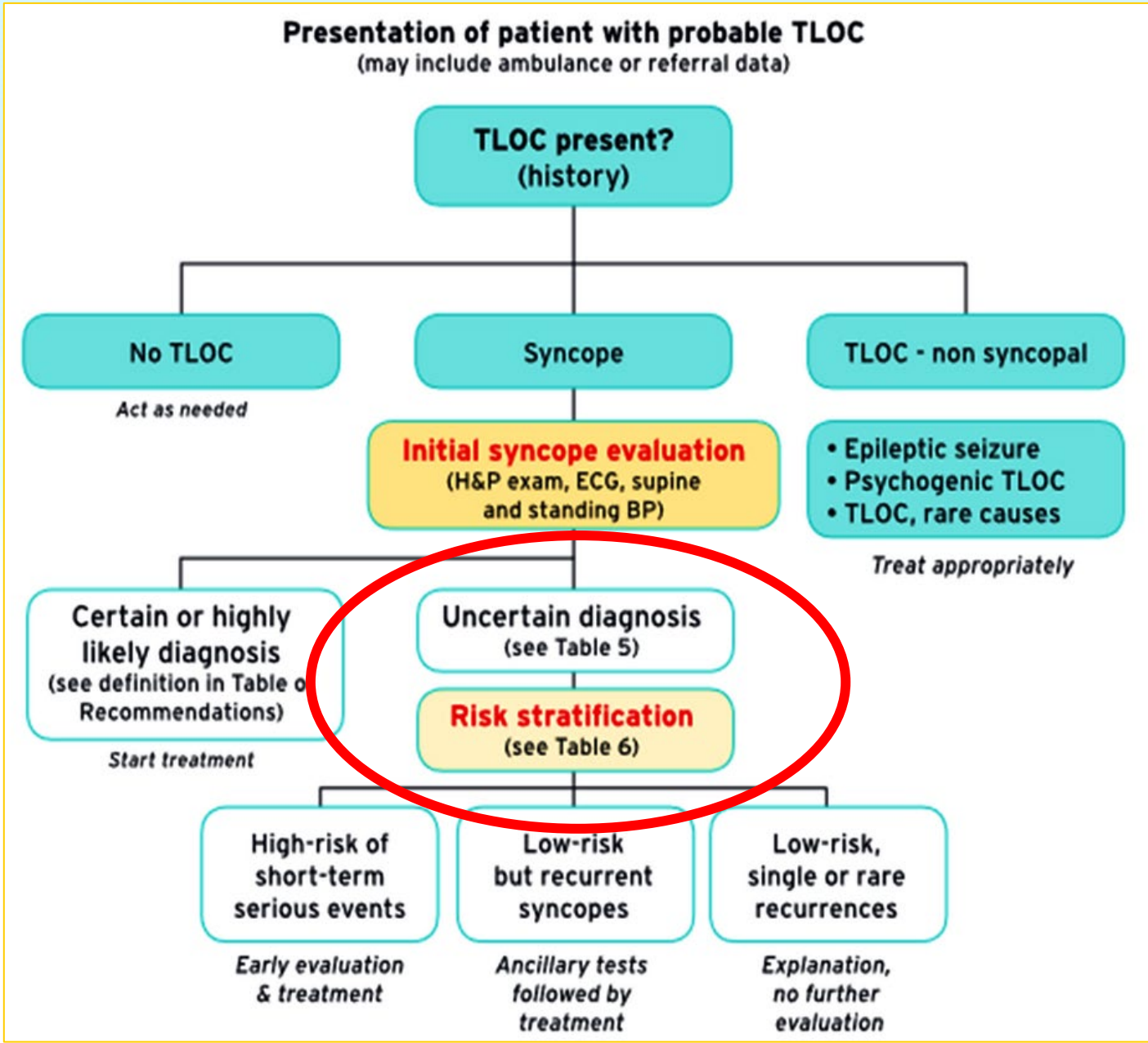


Active standing		
Recommendations	Class ^a	Level ^b
Indications		
Intermittent determination by sphygmomanometer of BP and HR while supine and during active standing for 3 min are indicated at initial syncope evaluation. ^{20,103,104}	I	C
Diagnostic criteria		
Syncope due to OH is confirmed when there is a fall in systolic BP from baseline value ≥ 20 mmHg or diastolic BP ≥ 10 mmHg, or a decrease in systolic BP to < 90 mmHg that reproduces spontaneous symptoms. ^{6,20,103,104}	I	C
Syncope due to OH should be considered likely when there is an asymptomatic fall in systolic BP from baseline value ≥ 20 mmHg or diastolic BP ≥ 10 mmHg, or a decrease in systolic BP to < 90 mmHg, and symptoms (from history) are consistent with OH. ^{6,20,103,104}	IIa	C

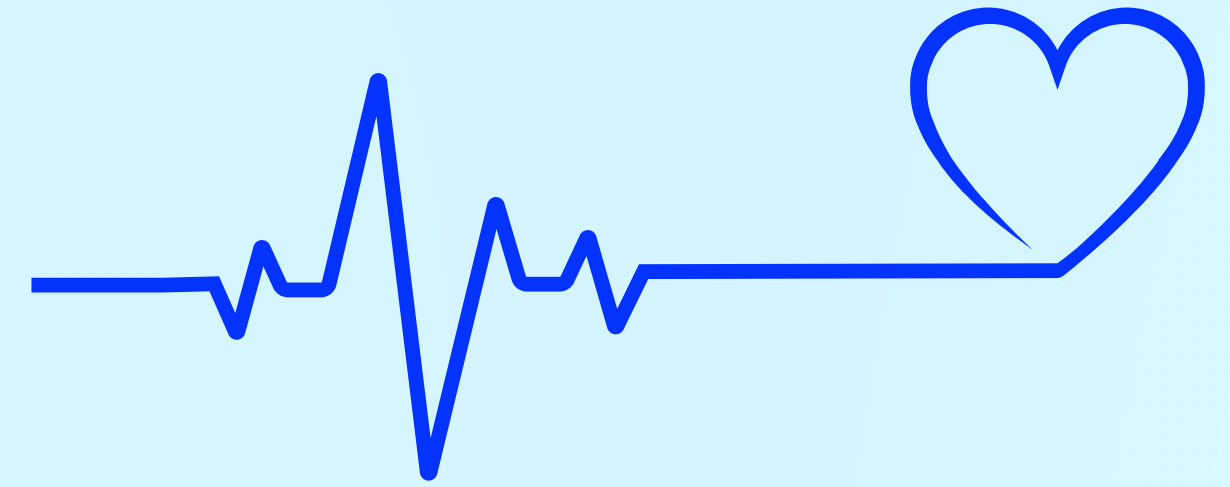
Présentations non stéréotypées = diagnostic incertain

Question 2 : Quel est le risque rythmique ?

- During exertion or when supine
- Sudden onset palpitation immediately followed by syncope
- Family history of unexplained sudden death at young age
- Presence of structural heart disease or coronary artery disease
- ECG findings suggesting arrhythmic syncope:
 - Bifascicular block (defined as either left or right BBB combined with left anterior or left posterior fascicular block)
 - Other intraventricular conduction abnormalities (QRS duration ≥ 0.12 s)
 - Mobitz I second-degree AV block and 1° degree AV block with markedly prolonged PR interval
 - Asymptomatic mild inappropriate sinus bradycardia (40–50 b.p.m.) or slow atrial fibrillation (40–50 b.p.m.) in the absence of negatively chronotropic medications
 - Non-sustained VT
 - Pre-excited QRS complexes
 - Long or short QT intervals
 - Early repolarization
 - ST-segment elevation with type 1 morphology in leads V1-V3 (Brugada pattern)
 - Negative T waves in right precordial leads, epsilon waves suggestive of ARVC
 - Left ventricular hypertrophy suggesting hypertrophic cardiomyopathy



Présentations non stéréotypées : diagnostic incertain Question 2 : Quel est le risque rythmique ?



Anamnèse

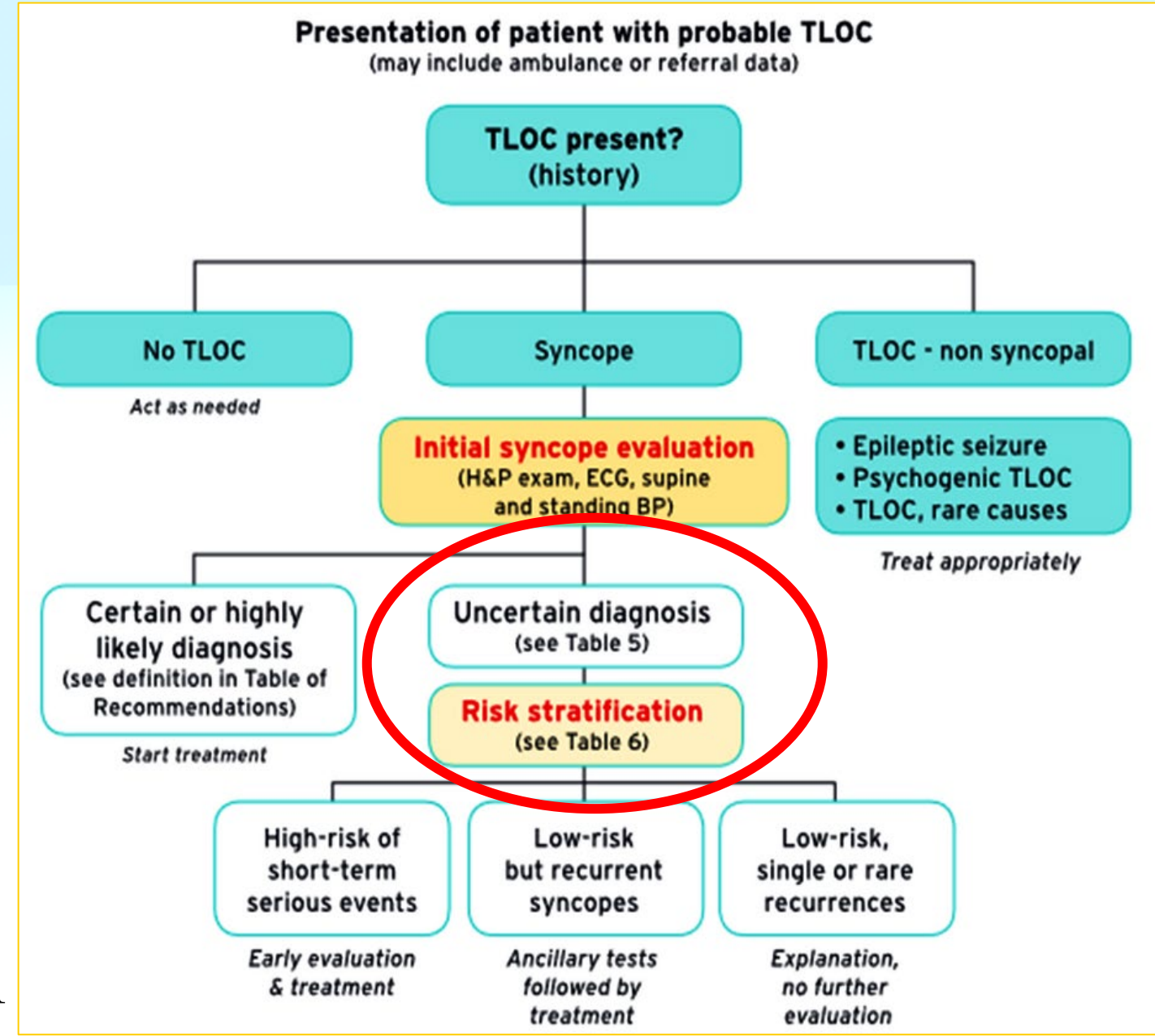
- ATCD d'IDM +++, de coronaropathie ou de cardiopathie structurelle : CMH, CMD, RAO
- ATCD de mort subite familiale

Clinique

- Douleur thoracique d'apparition récente
- Syncope à l'effort +++, Palpitations associées
- Souffle non connu

ECG

- Trouble conductifs : Bloc Bifascilaire
- Dysfonction sinusale avec FC < 40-50 bpm
- Pré-excitation
- Canalopathie : QT long
- T négatif dans 2 dérivation différentes (en dehors de V1 et AVR), onde epsilon
- HVG électrique



L'ELECTROCARDIOGRAMME

Box 6

18/09/2023 07:23:59

56.4

39 142, 173

26/2

30 116/77

ledoyen Né 11/09/1958 65 Ans

15/09/2023 13:49:40

FC 51 . Rythme sinusal..... axe P normal, fréq.V 50- 99
 . Extrasystole auriculaire..... complexe supravent. avec R-R court
 PR 158 . HVG+retard cond.intra.V.& trble repol.sec....nb critères, QRS large, anomalies ST-T
 QRSD 117
 QT 494
 QTc 456

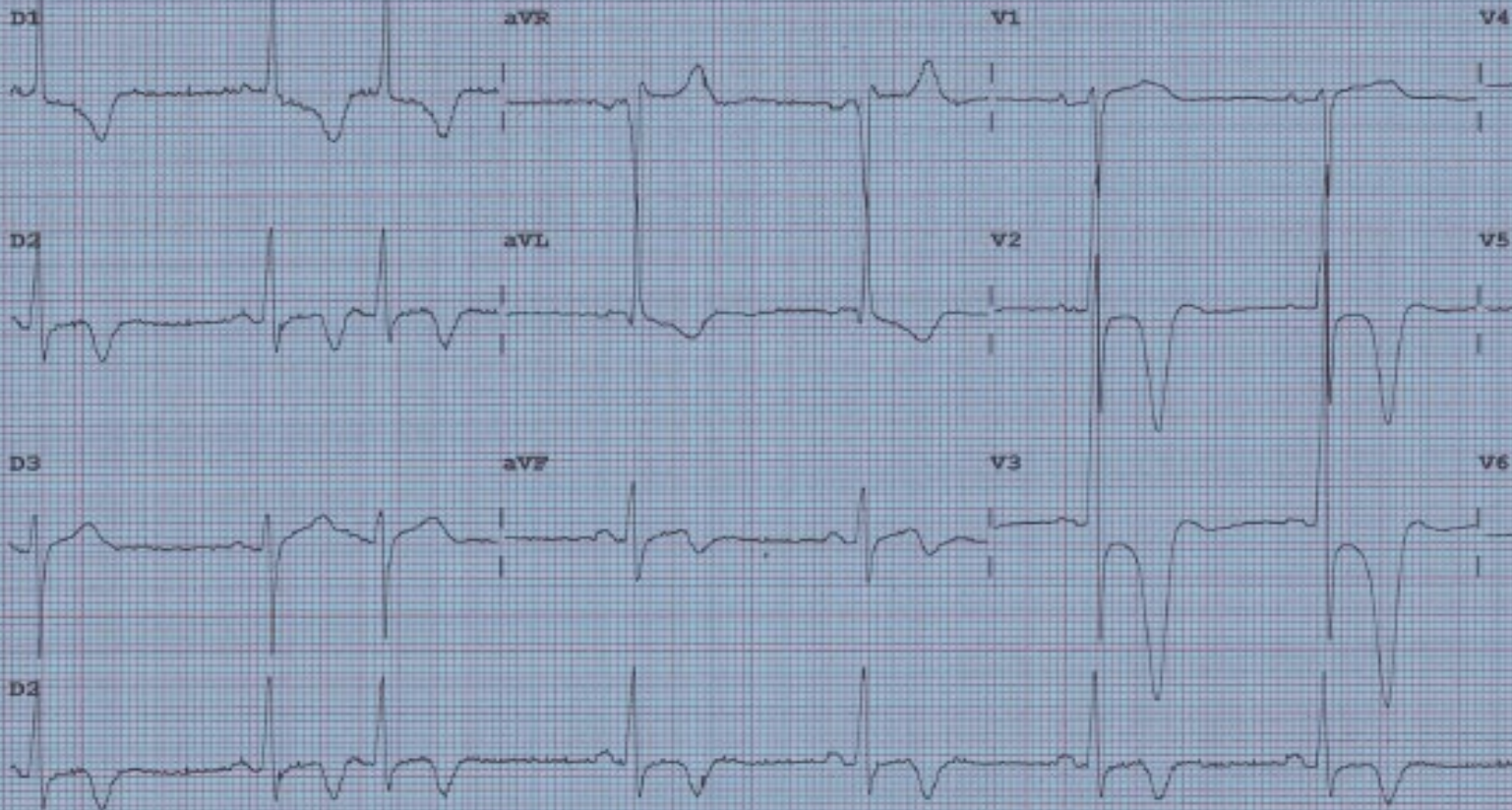
--AXES--

P 66
 QRS 11
 T 174

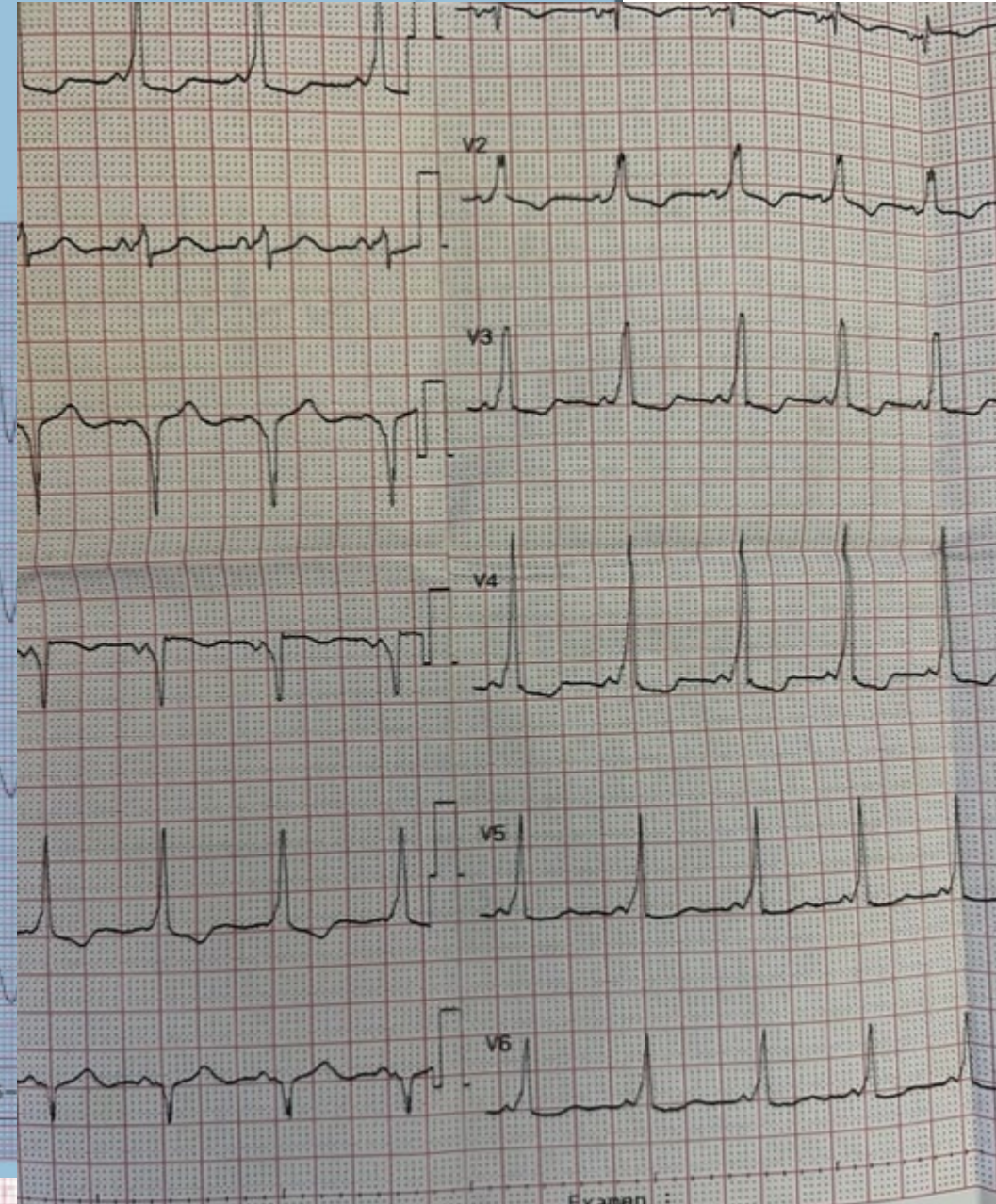
- ECG ANORMAL -

Unconfirmed Diagnosis

12 dériv. ; position standard



Dispos. Vit. : 25 mm/s Pérph: 10 mm/mV Préc : 10,0 mm/mV F 50~ 0,15



Examen :



Dispos. Vit. : 25 mm/s Pérph: 10 mm/mV Préc : 10,0 mm/mV F 50~ 0,15-100 Hz 100B CL P?

Bas risque (stéréotypées)

- Associé à prodrome de syncope réflexe
- Après une douleur, vue, odeur...
- Lors d'une station debout prolongée, chaleur, foule
- Pendant repas ou post prandial
- Déclanchée par la toux, défécation, miction
- Lors de rotation de la tête, pression du sinus carotidien
- Passage de la position allongée/assise, debout

• Haut risque : (diagnostic incertain)

• Anamnèse

- ATCD d'IDM +++, de coronaropathie ou de cardiopathie structurale : CMH, CMD, RAO
- ATCD de mort subite familiale

• Clinique

- Douleur thoracique d'apparition récente
- Syncope à l'effort +++, Palpitations associées
- Souffle non connu

• ECG

- Trouble conductifs : Bloc Bifascilaire
- Dysfonction sinusale avec FC < 40-50 bpm
- Pré-excitation
- Canalopathie : QT long
- T négatif dans 2 dérivation différentes (en dehors de V1 et AVR), onde epsilon
- HVG électrique

Management of syncope in the ED		
It is recommended that patients with low-risk features, likely to have reflex or situational syncope or syncope due to OH, are discharged from the ED. ^{27,35,36,49-54,58,62,69}	I	B
It is recommended that patients with high-risk features receive an early intensive prompt evaluation in a syncope unit or in an ED observation unit (if available), or are hospitalized. ^{26,27,35,36,44-46,50,55-57,59,60,70-76}	I	B
It is recommended that patients who have neither high- nor low-risk features are observed in the ED or in a syncope unit instead of being hospitalized. ^{40,63-65,77}	I	B

UNITE SYNCOPE

ECG monitoring

Immediate in-hospital monitoring (in bed

Echocardiography

Recommendations

Indications

Echocardiography is indicated for diagno

Two Tilt testing

prov
or p

Recommendations

Indications

Tilt testing should be considered in patients with suspected reflex syncope, OH, POTS, or PPS.^{23,24,105–109,111–117}

Tilt testing may be considered to educate patients to recognize symptoms and learn physical manoeuvres.^{119–121}

Exercise testing

Recommendations

Class^a

Level^b

Indications

Exercise testing is indicated in patients who experience syncope during or shortly after exertion.

I

C

Diagnostic criteria

Syncope due to second- or third-degree AV block is confirmed when the AV block develops during exercise, even without syncope.^{253–257}

I

C

Table 6).

I

C

Class^a

Level^b

heart disease.^{235,236}

I

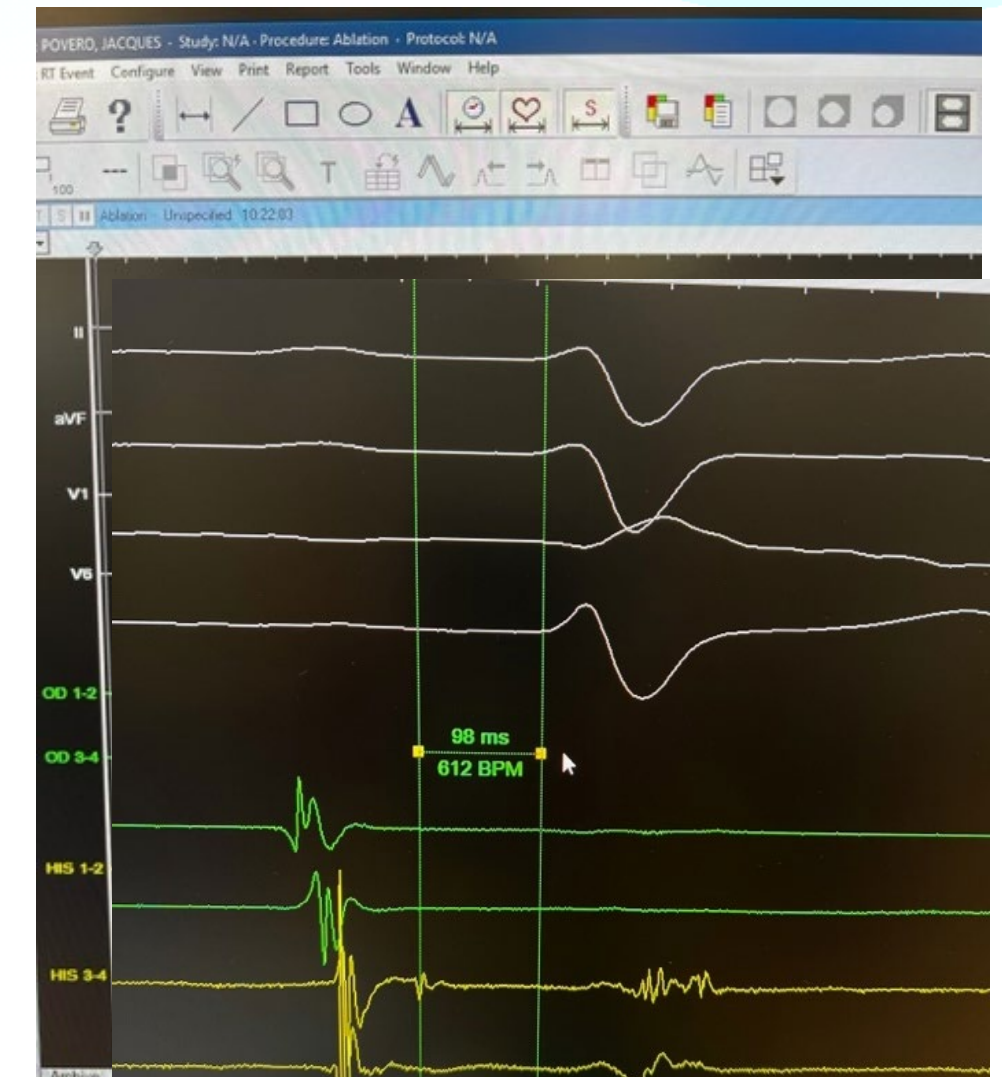
B

Exploration électrophysiologique

EPS		
In patients with syncope and previous myocardial infarction or other scar-related conditions, EPS is indicated when syncope remains unexplained after non-invasive evaluation. ²¹⁸	I	B
In patients with unexplained syncope and bifascicular BBB, a pacemaker is indicated in the presence of either a baseline H-V interval of ≥ 70 ms, second- or third-degree His-Purkinje block during incremental atrial pacing, or with pharmacological challenge. ^{188,214-217,221}	I	B
In patients with unexplained syncope and previous myocardial infarction or other scar-related conditions, it is recommended that induction of sustained monomorphic VT is managed according to the current ESC Guidelines for VA. ⁴⁶	I	B
In patients without structural heart disease with syncope preceded by sudden and brief palpitations, it is recommended that the induction of rapid SVT or VT, which reproduces hypotensive or spontaneous symptoms, is managed with appropriate therapy according to the current ESC Guidelines. ^{46,222}	I	C



- Bloc bifasciculaire
 - Bloc de branche droit et HBAG ou HBPG
 - Bloc de branche gauche
- Antécédent d'IDM
- Palpitations précédents la syncope



Holter implantable

⇒LR is indicated in an early phase of evaluation in patients with recurrent syncope of uncertain origin, absence of high-risk criteria (listed in Table 6), and a high likelihood of recurrence within the battery life of the device.^{175,176,181-184,202},
Supplementary Data Table 5

I

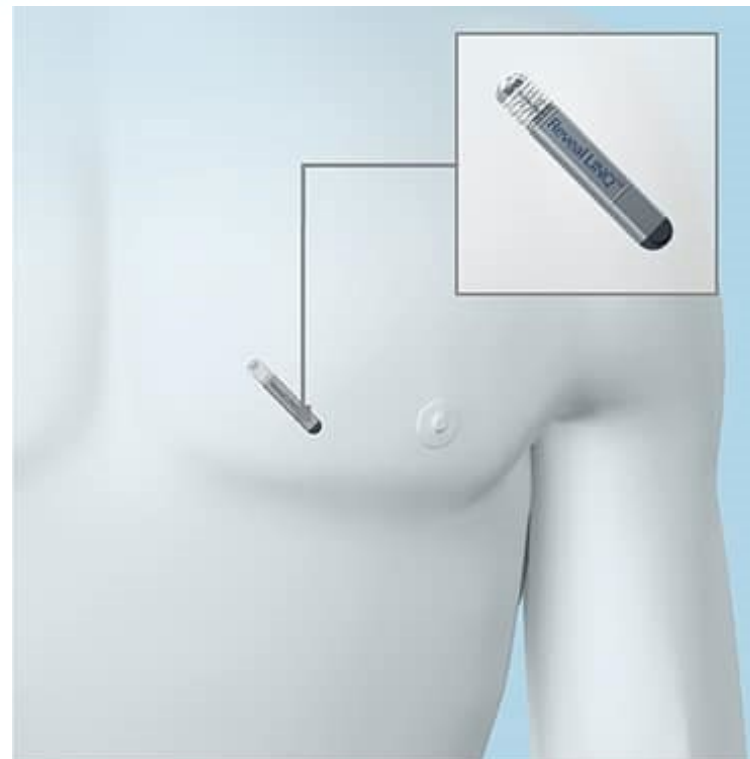
A

ILR is indicated in high-risk (criteria listed in Table 6) patients in whom a comprehensive evaluation did not demonstrate a cause of syncope or lead to a specific treatment, and who do not have conventional indications for primary prevention ICD or pacemaker indication.^{174,180,187,188,195}, Supplementary Data Tables 5 and 6

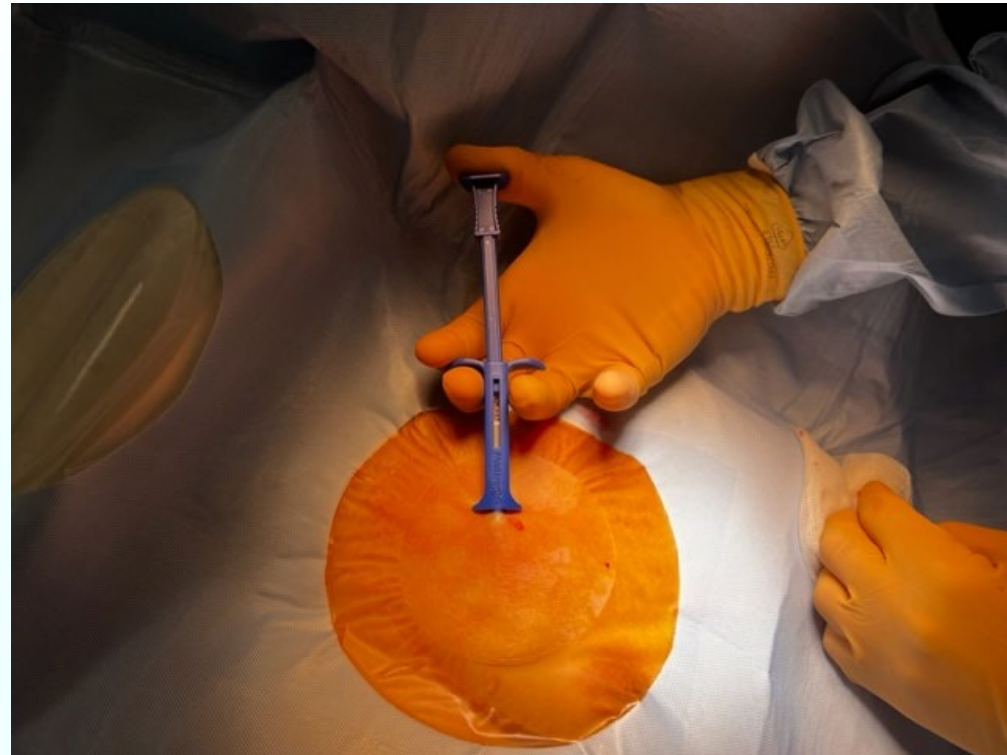
I

A

- Syncopes à haut risque inexplicées
- Syncopes à bas risque récidivantes



Holter implantable



PERTE DE CONNAISSANCE TRANSITOIRE BRÈVE (TLOC)

NON

OUI

- coma
- hypoglycémie
- chute mécanique
- Vertige ORL
- AVC /AIT

Syncope

Non syncopale

- épilepsie
- psychogène
- causes rares

Evaluation initiale

incluant MCS et recherche hypoTA hypostatique

DIAGNOSTIC ETIOLOGIQUE CERTAIN

Hypotension orthostatique

Syncope réflexe

- prise en charge ambulatoire
- éducation du patient.
- arrêt des médicaments ou diminution des traitements hypotenseurs
- contention
- traitement spécifique
Fludocortisone, Milodrine

DIAGNOSTIC ETIOLOGIQUE INCERTAIN

Evaluation du risque rythmique

Haut
risque

Bas
risque

hospitalisation
requisse
(syncope unit)

bilan cardiologique
ambulatoire

EVALUATION DU RISQUE RYTHMIQUE

Haut risque

Bas risque

- Antécédent :
- Clinique :
Palpitations, angor, effort
- ECG

- Bilan cardiologique ambulatoire :
- Holter ECG
 - échographie cardiaque
 - épreuve d'effort

- Hospitalisation en cardiologie (ou syncope unit):
1. Explorations fonctionnelles:
 - monitoring par télémétrie
 - échographie cardiaque
 - épreuve d'effort
 - tests pharmacologiques
 - tilt test
 2. Explorations invasives:
 - Exploration électrophysiologique ± stimulation ventriculaire programmée
 - Coronarographie

Diagnostic établi

Diagnostic incertain

Holter implantable

Si récurrence

- stimulateur cardiaque
- défibrillateur automatique implantable
- traitement spécifique de la cardiopathie mise en évidence

**CARDIO
RUN
2023**

**15^{ème} CONGRÈS
DE PATHOLOGIE
CARDIO-VASCULAIRE**

27-28-29 SEPTEMBRE 2023

Hôtel Saint Alexis
ILE DE LA REUNION
France

CARDIORUN.ORG

MERCI de votre ATTENTION

Treatment of reflex syncope		
Explanation of the diagnosis, provision of reassurance, and explanation of the risk of recurrence and the avoidance of triggers and situations are indicated in all patients. <i>Supplementary Data Table 10</i>	I	B
Beta-adrenergic blocking drugs are not indicated. ^{279,280}	III	A
Cardiac pacing is not indicated in the absence of a documented cardioinhibitory reflex. ^{299,300}	III	B
Treatment of OH		
Explanation of the diagnosis, provision of reassurance, and explanation of the risk of recurrence and the avoidance of triggers and situations are indicated in all patients.	I	C
Adequate hydration and salt intake are indicated. ^{310,311}	I	C



Treatment of syncope due to cardiac arrhythmias

Cardiac pacing is indicated when there is an established relationship between syncope and symptomatic bradycardia. ^{200,210–212,255,334–338,341}	I	B
Cardiac pacing is indicated in patients with intermittent/paroxysmal intrinsic third- or second-degree AV block (including AF with slow ventricular conduction), although there is no documentation of a correlation between symptoms and ECG.	I	C
Cardiac pacing is not indicated in patients when there are reversible causes for bradycardia.	III	C
Cardiac pacing is indicated in patients with syncope, BBB, and a positive EPS or ILR-documented AV block. ^{188,217}	I	B
Catheter ablation is indicated in patients with syncope due to SVT or VT in order to prevent syncope recurrence.	I	C
An ICD is indicated in patients with syncope due to VT and ejection fraction $\leq 35\%$. ⁴⁶	I	A
An ICD is indicated in patients with syncope and previous myocardial infarction who have VT induced during EPS. ²¹⁸	I	C
ICD indications in patients with unexplained syncope and left ventricular systolic dysfunction		
ICD therapy is recommended to reduce SCD in patients with symptomatic heart failure (NYHA class II–III) and LVEF $\leq 35\%$ after ≥ 3 months of optimal medical therapy, who are expected to survive for ≥ 1 year with good functional status. ⁴⁶	I	A

