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# Syncope: Cas Clinique

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- Hôpital Jacques Cartier, Massy

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# DÉCLARATION DE RELATIONS PROFESSIONNELLES

► Consultant chez Cardiologs

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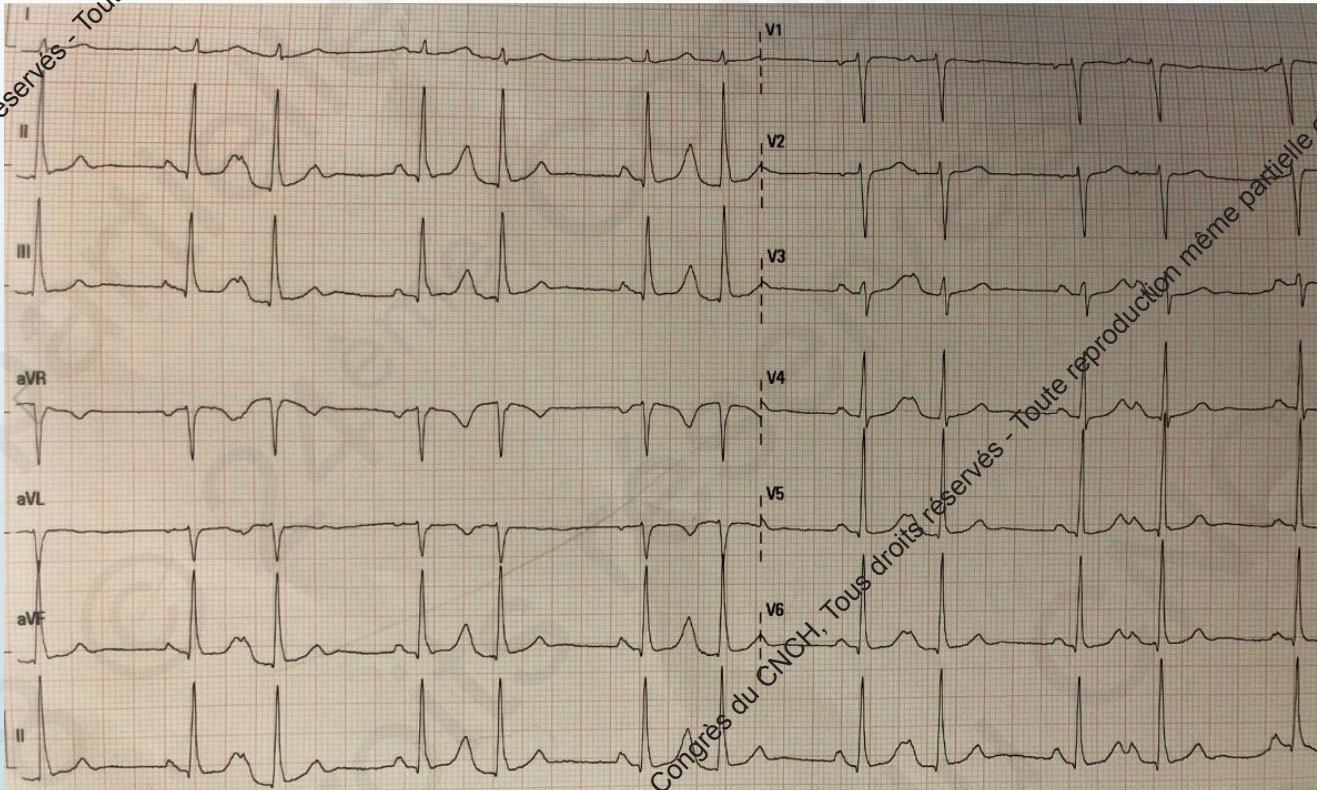
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- ▶ Mme V. 45 ans consulte aux urgences suite à une syncope sur son lieu de travail alors qu'elle était assise au bureau
  - ▶ Quelques ecchymoses, pas de TC
  - ▶ Pas d'ATCD
  - ▶ Ne prend aucun traitement
  - ▶ 5-6 épisodes lipotymiques et 1 syncope dans des circonstances identiques dans les 2 dernières années
  - ▶ Bilan il y a 1an: ECG, ETT et Holter ECG normaux

## Questions à poser

- ▶ Palpitations?
- ▶ Douleur?
- ▶ Dyspnée, avion..?
- ▶ À l'effort?
- ▶ En se levant?
- ▶ En urinant?
- ▶ En toussant?
- ▶ En se rasant?
- ▶ En sciant??
- ▶ En se couchant sur le côté???

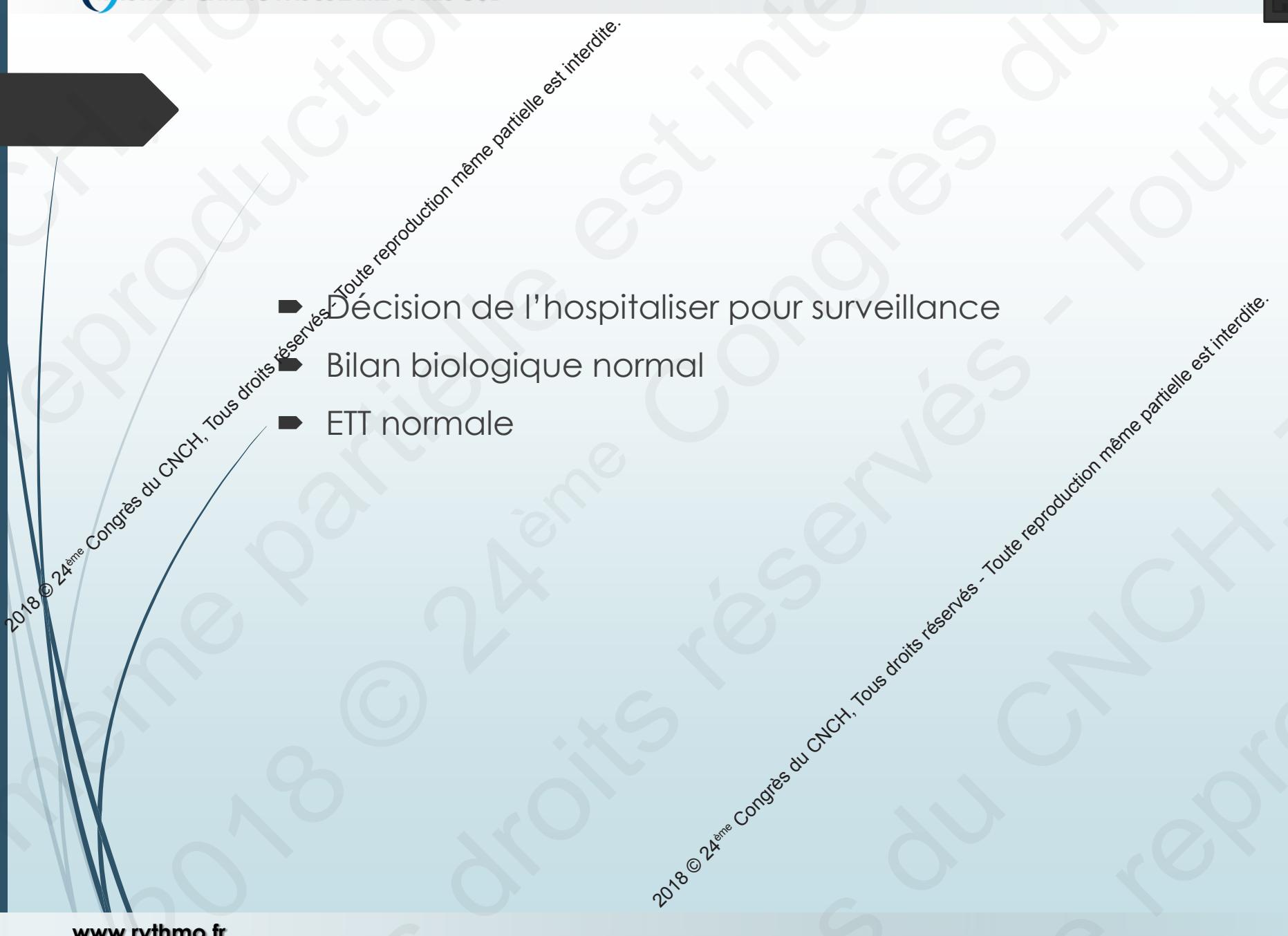


# ECG aux urgences



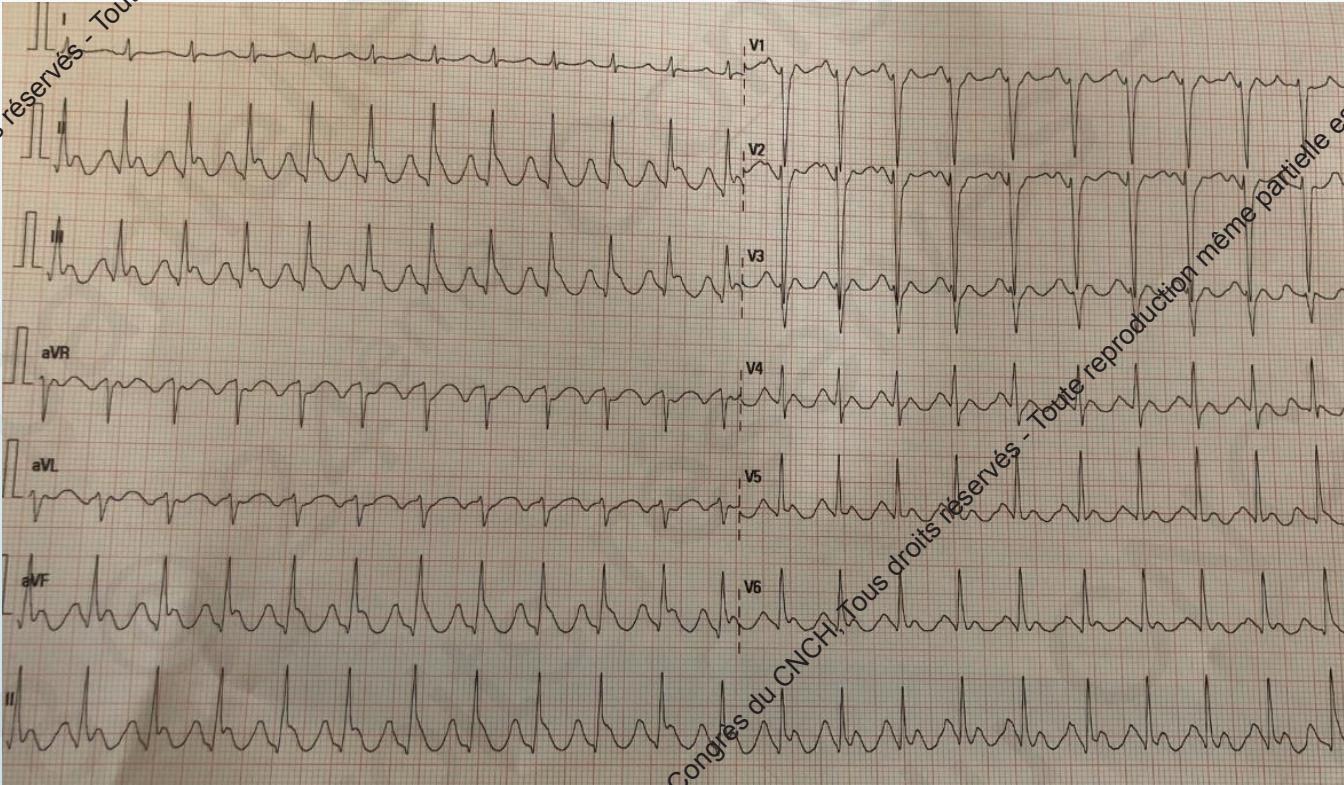
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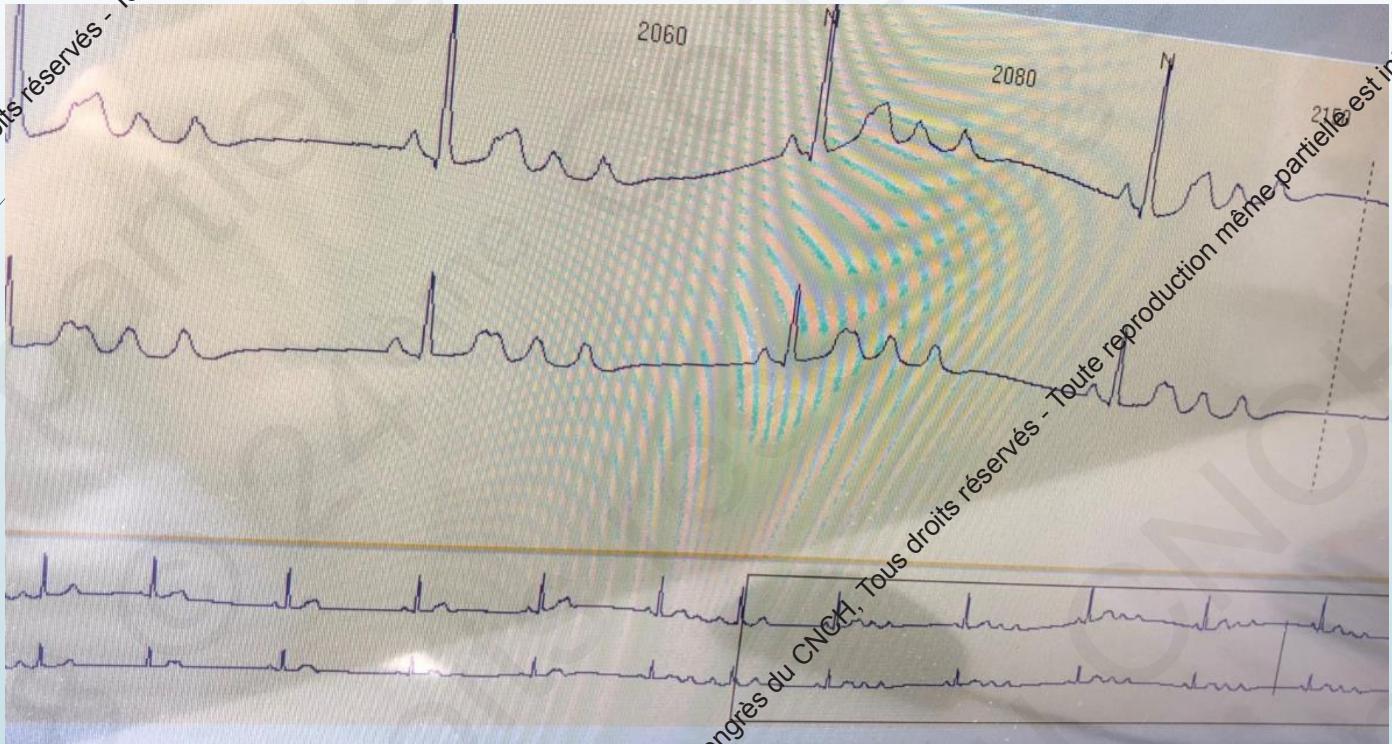
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# Holter ECG/24h





# Options thérapeutiques

- ▶ Anti-arythmiques
- ▶ Pace-maker
- ▶ Ablation par radiofréquence

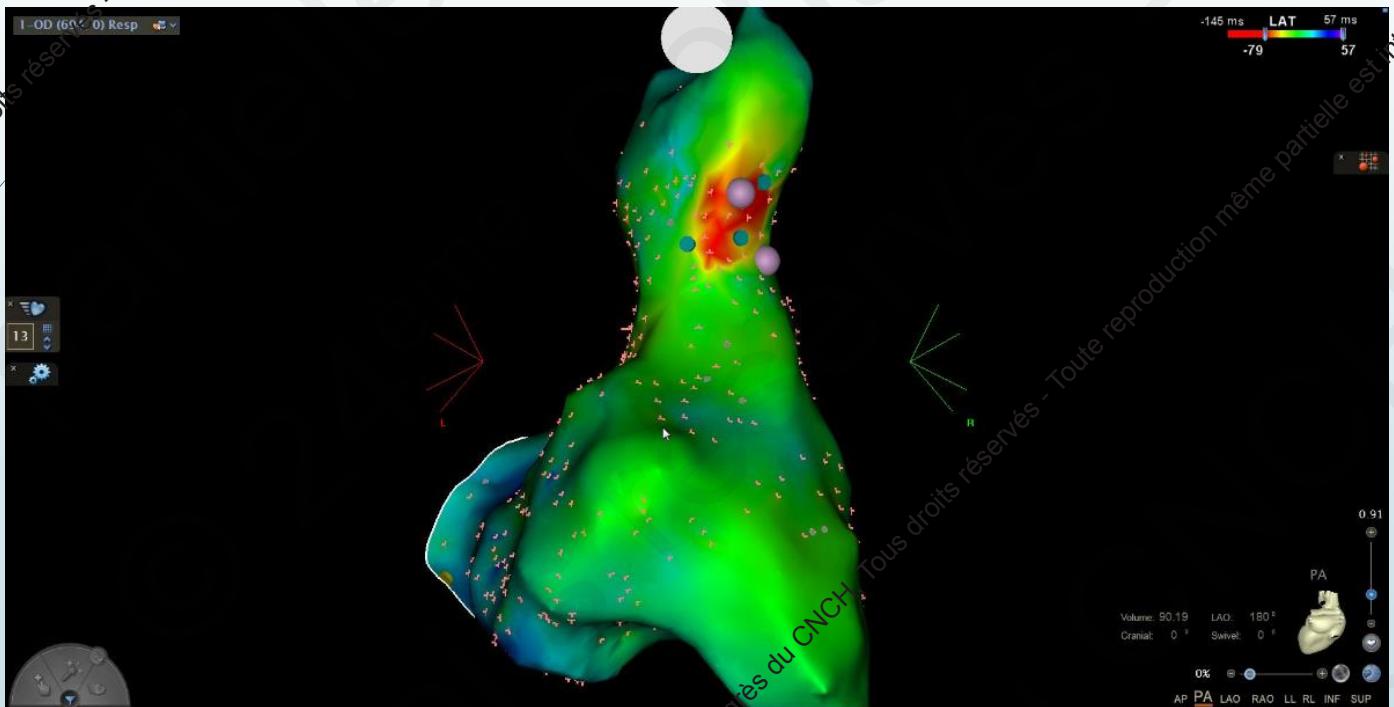
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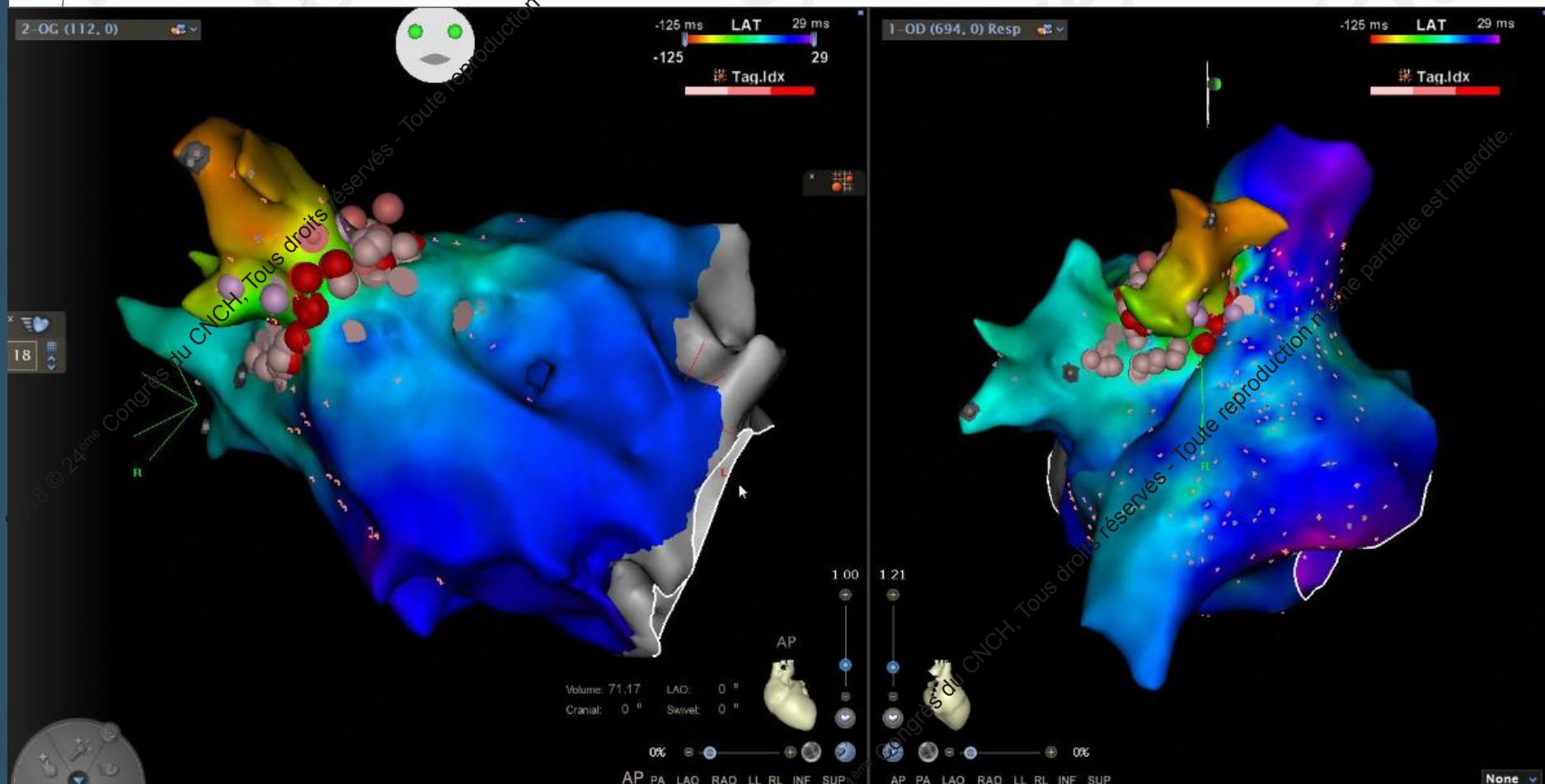


# Cartographie 3D

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# Rétrospectivement

- ▶ Holter longue durée
- ▶ Holter implantable



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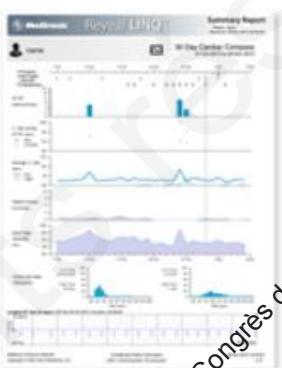
Reveal LINQ™  
ICM



Reveal LINQ™  
Insertion Tool



MyCareLink™  
Patient Monitor



Simplified Reports

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# Take home message

- ▶ Penser au holter longue durée
- ▶ Penser au holter implantable
- ▶ Penser à l'ablation par radiofréquence pour les FA syncopales

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MERCI

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Mozart  
Symphony No. 25  
in G Minor  
K. 183

Allegro con brio.

The musical score consists of six staves representing different instruments: Oboe (Oboi.), Horn in B-flat (Corni in B.), Horn in G (Corni in G.), Violin I (Violino I.), Violin II (Violino II.), and Cello/Bass (Violoncello e Basso.). The score is in common time, key signature of one flat (G minor), and includes dynamic markings such as *f* (fortissimo) and *a 2.* (allegro con brio).

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CHANGE IN RECOMMENDATIONS	
2009	2018
Contraindications <sup>23</sup> CSM	
Tilt testing: indication for syncope <sup>23, 24, 105-109, 111-117</sup>	
Tilt testing for educational purposes <sup>119-121</sup>	
Tilt testing: diagnostic criteria <sup>23, 24, 105-109, 111-117</sup>	
Tilt testing for assessing therapy	
Holter for unexplained syncope <sup>161</sup>	
ECG monitoring: presyncope & asymptomatic arrhythmias	
Adenosine triphosphate test	
EPS-guided pacemaker: prolonged SNRT <sup>210-212</sup>	
EPS-guided pacemaker: HV >70 ms <sup>188, 214-217, 221</sup>	
Empiric pacing in bifascicular block <sup>217, 259, 344</sup>	
Therapy of reflex syncope: PCM <sup>119-121, 263, 264</sup>	
Therapy of OH: PCM <sup>319</sup>	
Therapy of OH: abdominal binders <sup>23, 320, 321</sup>	
Therapy of OH: head-up tilt sleeping <sup>104, 322, 323</sup>	
Syncope & SVT/VT: AA drugs Expert opinion	
I	
IIa	
IIb	
III	
Taken out	

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

### 2018 NEW RECOMMENDATIONS (only major included)

Management of syncope in ED (section 4.1.2)

- Low-risk: discharge from ED
- High-risk: early intensive evaluation in ED, SU versus admission
- Neither high or low: observation in ED or in SU instead of being hospitalized

Video recording (section 4.2.5):

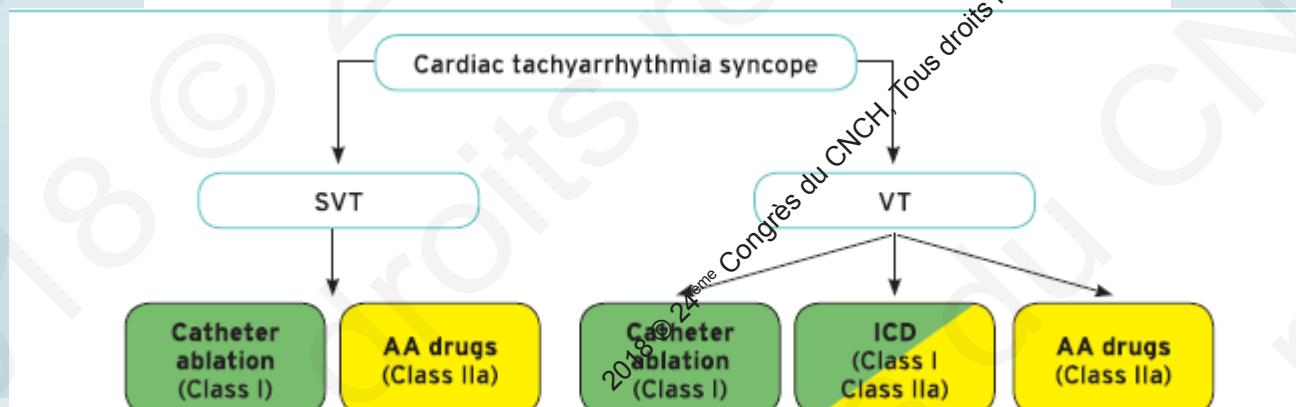
- Video recordings of spontaneous events

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



Recommendations			Class <sup>a</sup>	Level <sup>b</sup>
<b>Indications</b>				
Immediate in-hospital monitoring (in bed or by telemetry) is indicated in high-risk patients (defined in Table 6).		I	C	
Holter monitoring should be considered in patients who have frequent syncope or presyncope ( $\geq 1$ episode per week). <sup>161</sup>		IIa	B	
External loop recorders should be considered, early after the index event, in patients who have an inter-symptom interval $\leq 4$ weeks. <sup>162,166,168,201</sup>		IIa	B	
ILR 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. <sup>173,176,181–184,202</sup> , Supplementary Data Table 5		I	A	
ILR is indicated in patients with high-risk criteria (listed in Table 6) 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. <sup>174,180,187,188,195</sup> , Supplementary Data Tables 5 and 6		I	A	
ILR should be considered in patients with suspected or certain reflex syncope presenting with frequent or severe syncope episodes. <sup>184–186</sup>		IIa	B	
ILR may be considered in patients in whom epilepsy was suspected but the treatment has proven ineffective. <sup>189–191</sup> , Supplementary Data Table 7		IIb	B	
ILR may be considered in patients with unexplained falls. <sup>191–194</sup> , Supplementary Data Table 8		IIb	B	
<b>Diagnostic criteria</b>				
Arrhythmic syncope is confirmed when a correlation between syncope and an arrhythmia (bradycardia or tachyarrhythmia) is detected. <sup>172,184–186,188,200</sup>		I	B	
In the absence of syncope, arrhythmic syncope should be considered likely when periods of Mobitz II second- or third-degree AV block or a ventricular pause $> 3$ s (with the possible exception of young trained persons, during sleep or rate-controlled atrial fibrillation), or rapid prolonged paroxysmal SVT or VT are detected. <sup>185,188,197–199</sup>		IIa	C	
<b>Additional advice and clinical perspectives</b>				
<ul style="list-style-type: none"> <li>Be aware that the pre-test selection of the patients influences the subsequent findings. Include patients with a high likelihood of arrhythmic events. The duration (and technology) of monitoring should be selected according to the risk and the predicted recurrence rate of syncope.<sup>158–160,183</sup></li> <li>Exclude patients with a clear indication for ICD, pacemaker, or other treatments independent of a definite diagnosis of the cause of syncope.</li> <li>Include patients with a high probability of recurrence of syncope in a reasonable time. Owing to the unpredictability of syncope recurrence, be prepared to wait up to 4 years or more before obtaining such a correlation.<sup>203</sup></li> <li>In the absence of a documented arrhythmia, presyncope cannot be considered a surrogate for syncope, whereas the documentation of a significant arrhythmia at the time of presyncope can be considered a diagnostic finding.<sup>199</sup></li> <li>The absence of arrhythmia during syncope excludes arrhythmic syncope.</li> </ul>				