2018 ESC Guidelines for the diagnosis and management of syncope



Key Messages & Recommendations

Professor Rose Anne Kenny

https://www.escardio.org/Guidelines/...Guidelines/Syncope-Guidelines-on-Diagnosis-a...

The 2018 Guidelines on Syncope consist of a Full text, a supplementary data document giving

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ESC GUIDELINES

2018 ESC Guidelines for the diagnosis and management of syncope

The Task Force for the diagnosis and management of syncope of the European Society of Cardiology (ESC)

Developed with the special contribution of the European Heart Rhythm Association (EHRA)

Endorsed by: European Academy of Neurology (EAN), European Federation of Autonomic Societies (EFAS), European Federation of Internal Medicine (EFIM), European Union Geriatric Medicine Society (EUGMS), European Society of Emergency Medicine (EuSEM)

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Key messages

- Diagnosis: initial evaluation
- Diagnosis: subsequent investigations
- Treatment

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Key messages

Diagnosis: initial evaluation

- 1. At the initial evaluation answer the following four key questions:
- Was the event TLOC?
- In cases of TLOC, are they of syncopal or non-syncopal origin?
- In cases of suspected syncope, is there a clear aetiological diagnosis?
- Is there evidence to suggest a high risk of cardiovascular events or death?

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The initial evaluation of T-LOC 4 key questions Question #1 Does the event concern TLOC? If yes Question #2 Is TLOC of syncopal origin? If yes Question #3 Which is the risk? Question #4 Is there a diagnosis?

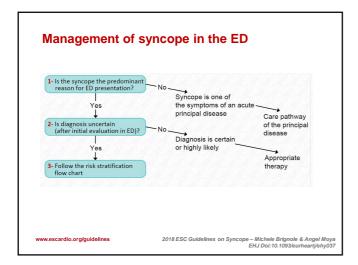
Key messages

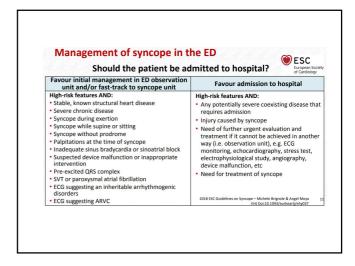
Diagnosis: initial evaluation

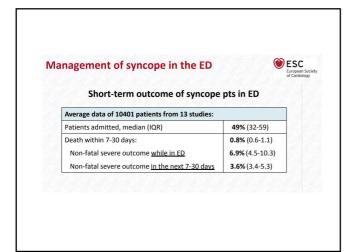
- 2. At the evaluation of TLOC in the ED, answer the following three key questions:
- Is there a serious underlying cause that can be identified?
- If the cause is uncertain, what is the risk of a serious outcome?
- Should the patient be admitted to hospital?

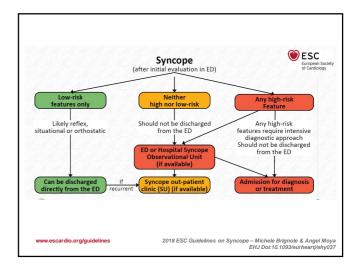
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Key messages

Diagnosis: initial evaluation

- 3. In all patients, perform a complete history taking, physical examination (including standing BP measurement), and standard ECG.
- 4. Perform immediate ECG monitoring (in bed or telemetry) in high risk patients when there is a suspicion of arrhythmic syncope.
- 5. Perform echocardiogram when there is previous known heart disease, or data suggestive of structural heart disease or syncope secondary to cardiovascular cause.

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Key messages

Diagnosis: initial evaluation

- **6.** Perform CSM in patients >40 years of age with syncope of unknown origin compatible with a reflex mechanism.
- 7. Perform tilt testing in cases where there is suspicion of syncope due to reflex or an orthostatic cause.
- 8. Perform blood tests when clinically indicated, e.g. haematocrit and cell blood count when haemorrhage is suspected, oxygen saturation and blood gas analysis when hypoxic syndromes are suspected, transpir when cardiac ischaemia-related syncope is to a Angel Moya suspected, and D-dimer when pulmonary embolisms its nearly lengos?

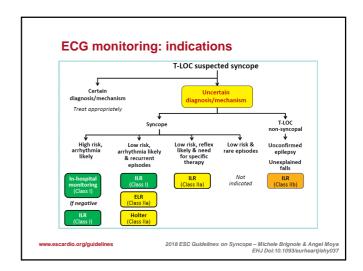
Key messages

Diagnosis: subsequent investigations

- 9. Perform prolonged ECG monitoring (external or implantable) in patients with recurrent severe unexplained syncope who have all of the following three features:
- Clinical or ECG features suggesting arrhythmic syncope.
- A high probability of recurrence of syncope in a reasonable time.
- Who may benefit from a specific therapy if a cause for syncope is found.

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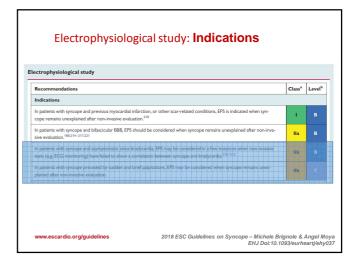
Key messages

Diagnosis: subsequent investigations

10. Perform EPS in patients with unexplained syncope and bifascicular BBB (impending high-degree AV block) or suspected tachycardia

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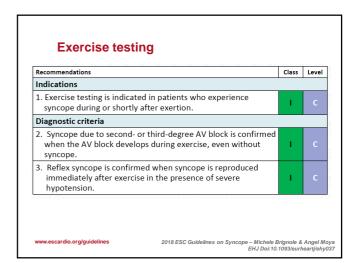
Key messages

Diagnosis: subsequent investigations

11. Perform an exercise stress test in patients who experience syncope during or shortly after exertion.

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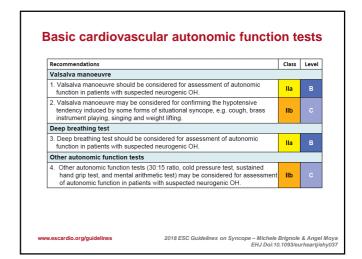
Key messages

Diagnosis: subsequent investigations

12. Consider basic autonomic function tests (Valsalva manoeuvre and deepbreathing test) and ABPM for the assessment of autonomic function in patients with suspected neurogenic OH.

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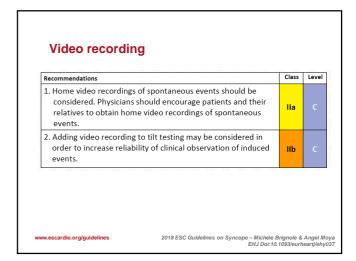
Key messages

Diagnosis: subsequent investigations

13. Consider video recording (at home or in hospital) of TLOC suspected to be of non-syncopal nature.

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Key messages

Treatment

14. To all patients with reflex syncope and OH, explain the diagnosis,

reassure, explain the risk of recurrence, and give advice on how to avoid triggers and situations. These measures are the cornerstone of treatment and have a high impact in reducing the recurrence of syncope.

Reflex and orthostatic intolerance

Education, reassurance avoidance o triggers usually

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Key messages

Treatment

15. In patients with severe forms of reflex syncope, select one or more of the following additional specific treatments according to the clinical features:

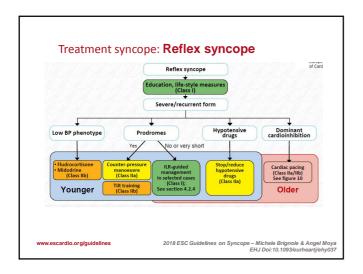
- Midodrine or fludrocortisone in young patients with low BP phenotype.
- Counter-pressure manoeuvres (including tilt training if needed) in

young patients with prodromes.
- ILR-guided management strategy in selected patients without or with

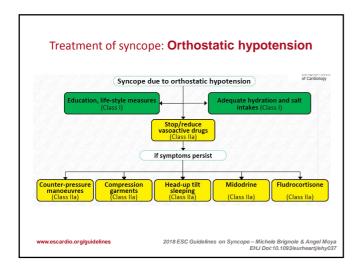
- short prodromes.
 Discontinuation/reduction of hypotensive therapy targeting a systolic BP
- of 140 mmHg in old hypertensive patients.

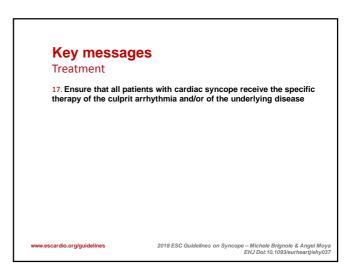
 Pacemaker implantation in old patients with dominant cardioinhibitory

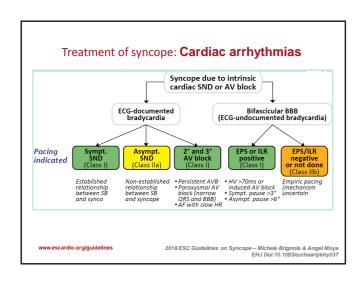
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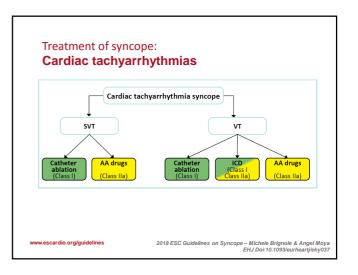














Definition of a Syncope Unit

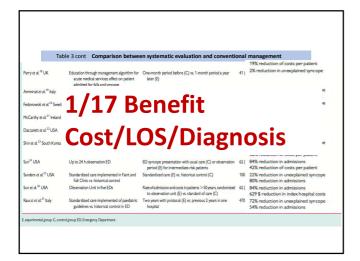
An SU is a facility featuring a **standardized** approach to the diagnosis and management of T-LOC and related symptoms,

with **dedicated staff** and **access** to appropriate diagnostics and therapies.

The SU should also take the **lead** in educating and training clinicians who encounter syncope.

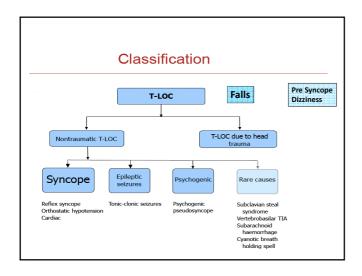


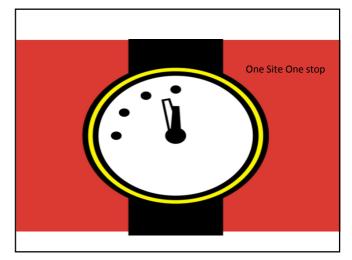




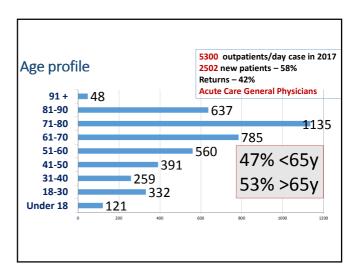
Rationale Syncope Unit

- wide variation in practice of syncope evaluation
- wide variation in adoption of recommendations from published guidelines
- evidence benefit systematic approach









ESC Guidelines: Key Components of a Syncope Unit

- The syncope unit should take the lead in service delivery for syncope, and in education and training of healthcare professionals who encounter syncope
- The syncope unit should be led by a clinician with specific knowledge of TLOC and additional necessary team members (i.e. clinical nurse speci ist) depending on the local model of service delivery.
- The syncope unit should provide minimum core treatments for reflex syncope and OH, and treatments or preferential access for cardiac syncope, falls, psychogenic pseudosyncope, and epilepsy.
- Referrals should be directly from family practitioners, EDs, in-hospital and out-hospital services, or self-referral depending on the risk stratification of referrals. Fast-track access, with a separate waiting list and scheduled follow-up visits, should be recommended.
- Syncope units should employ quality indicators, process indicators, and desirable outcome targets.

ED = emergency department; OH = orthostatic hypotension; TLOC = transient loss of consciousness.

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