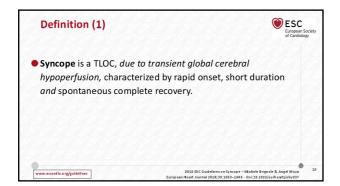
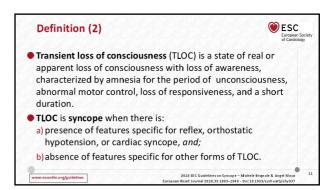
Setting the scene - overview Syncope

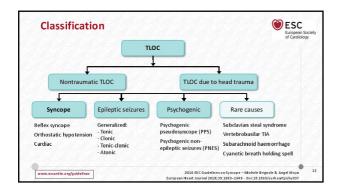
Prof Rose Anne Kenny MISA and TCD

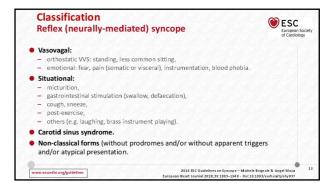
Setting the scene - overview Syncope

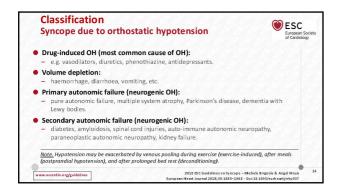
- Arrhythmia important / small contribution
- Syncope QOL
- Related symptoms
- CGA Physiological adjunct



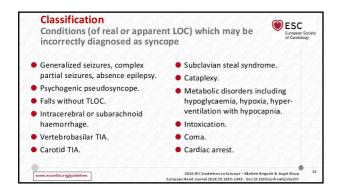


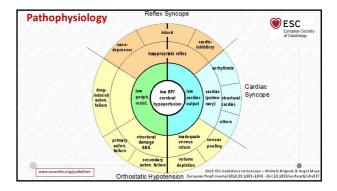


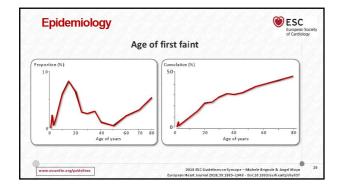


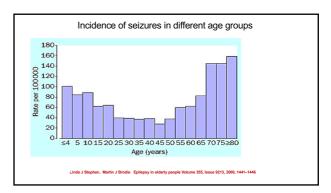


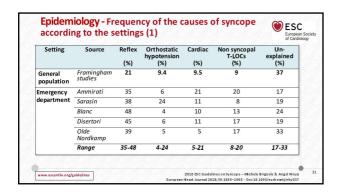


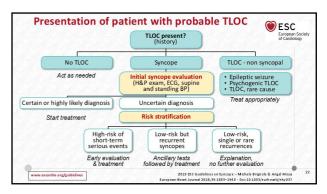


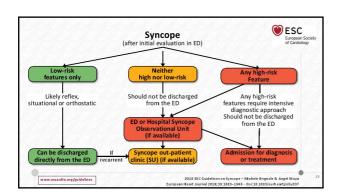












Case 1 • 19 y.o. female • TLOC in toilet • Hyperventilating, can't stop it • RR 35 SO2 98% BP 120/80 HF 120 Temp 37.4 ℃ • What would you do?

Question 1

- A. Instructions to cope with hyperventilation
- B. Do a D-dimer or chest CT for PE
- C. CXR
- D. Refer to SU as outpatient

Question 1

- A. Instructions to cope with hyperventilation
- B. Analyze for PE
- C. Do a CXR
- D. Refer to SU as outpatient



EHRA POSITION PAPER

Syncope Unit: rationale and requirement – the European Heart Rhythm Association position statement endorsed by the Heart Rhythm Society

Rose Anne Kenny* (Chairperson, Ireland), Michele Brignole (Co-chairperson, Italy), Gheorghe-Andrei Dan (Romania), Jean Claude Deharo (France), J. Gert van Dijk (The Netherlands), Colin Doherty (Ireland), Mohamed Hamdan (USA), Angel Moya (Spain), Steve W. Parry (UK), Richard Sutton (UK), Andrea Ungar (Italy), and Wouter Wieling (The Netherlands)

Definition of a Syncope Unit

An SU is a facility featuring a **standard** 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 **load** in educating and training clinicians who encounter syncope.





www.escardio.org/EHRA

Rationale Syncope Unit

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

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Organizational aspects: Syncope Unit

Key components

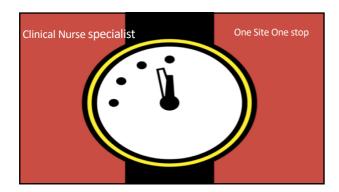
- The syncope unit should take the lead in service delivery for syncope, and in education and training of healthcare professionals who encounter syncope.
- The syncope unit should be led by a clinician with specific knowledge of TLOC and additional necessary team members (i.e. clinical nurse specialist) 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 outhospital 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**.

www.escardio.org/guidelines

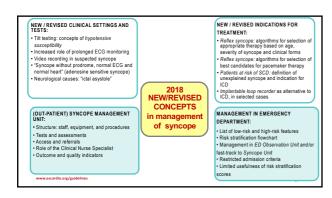
2018 ESC Guidelines on Syncope – Michele brignole & Angel Moy

Organizational aspects: Structure of the SU Staffing of an SU is composed of: One or more physicians of any specialty who are syncope specialists. 2. A team comprised of professionals who will advance the care of syncope patients. 2. Established procedures for: 1. Essential Equipment/tests: Echocardiography 12-lead ECG and 3-lead ECG monitoring, - Electrophysiological - non-invasive beat-to-beat blood pressure monitor, - Stress test - Holter monitors, - Neuroimaging tests - external loop recorders, 3. Specialists' consultancies - follow-up of implantable loop recorders (*), (cardiology, neurology, internal medicine, geriatric - 24-hour blood pressure monitoring, Basic autonomic function tests. medicine, psychology)

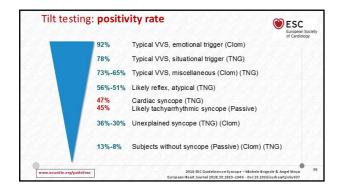




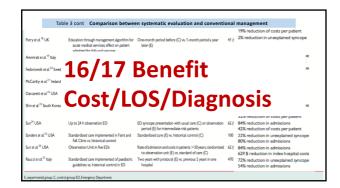
Procedure or test	SU Physician	SU Staff	Non-SU personne
History taking	x		
Structured history taking (e.g., application of software technologies)		×	
12-lead ECG		×	
Blood tests		x	
Echocardiogram and imaging			×
Carotid sinus massage	x		
Active standing test		x	
Tilt table test	(x)	x	
Basic autonomic function test		x	
ECG monitoring (Holter, ELR): administration and interpretation	x	x	
Implantable loop recorder	×	(x)	
Remote monitoring		x	
Others: stress test, electrophysiological study, angiograms			×
Neurological tests (CT, MRI, EEG, video-EEG)			×
Pacemaker and ICD implantation, catheter ablation			×
Patient's education, biofeedback training, and instructions	x	x	
Final report and clinic note	x		
Communication with patients, referring physicians	x	×	
Follow-up	x	x	

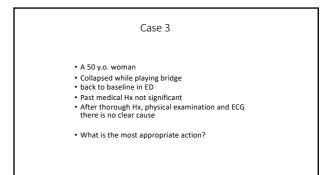




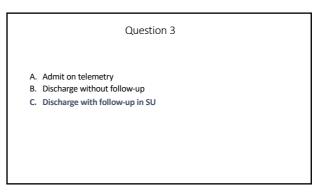


				19% reduction of costs per patient
Parry et al. ¹⁶ UK	Education through management algorithm for acute medical services; effect on patient admitted for falls and syncope	One-month period before (C) vs. 1-month period a year later (E)	41 (2% reduction in unexplained syncope
Ammirati et al. 19 Italy	Syncope Unit	Unexplained syncope referred to Syncope Unit; period before patients visited Syncope Unit (C) vs. after visit (E)	96	82% reduction in unexplained syncope -85% reduction of costs per patient
Fedorowski et al. ²⁰ Sweden	Syncope Unit	Unexplained syncope patients discharged from ED or hospital ward (C) vs. the same patients evaluated by SU (E)	101	87% reduction in unexplained syncope
McCarthy et ol. ²¹ Ireland	Using ESC Guidelines	Utilization of resources in ED (C) vs. re-evaluation of same patients using ESC guidelines; 6-month period	214	54% reduction in admissions
Daccarett et al ²² USA	ESC Guidelines incorporated in Faint-Algorithm'	Retrospective assessment of ED admissions	254	52% reduction in admissions
Shin et al. ²³ South Korea	Standardized ED protocol for syncope based on ESC guidelines	Period before (C) and after (E) standardization	116	28% reduction in unexplained syncope 39% reduction in admissions 32% reduction of costs per patient
Sun ²⁴ USA	Up to 24 h observation ED	ED syncope presentation with usual care (C) or observation period (E) for intermediate-risk patients	62 (84% reduction in admissions 42% reduction of costs per patient
Sanders et al. ²⁵ USA	Standardized care implemented in Faint and Fall Clinic vs. historical control	Standardized care (E) vs. historical control (C)	100	22% reduction in unexplained syncope 80% reduction in admissions
Sun et al. ²⁶ USA	Observation Unit in five EDs	Rate of admission and costs in patients > 50 years, randomized to observation unit (E) vs. standard of care (C)	62 (84% reduction in admissions 629 \$ reduction in index hospital costs
Raucci et al. ²⁷ Italy	Standardized care implemented of paediatric guidelines vs. historical control in ED	Two years with protocol (E) vs. previous 2 years in one hospital	470	72% reduction in unexplained syncope 54% reduction in admissions



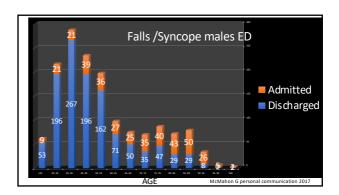


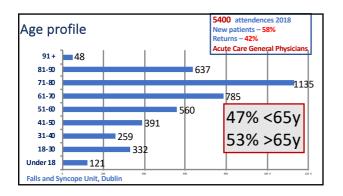
Question 3 A. Admit on telemetry B. Discharge without follow-up C. Discharge with follow-up in SU

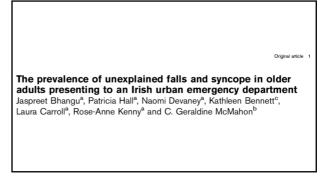


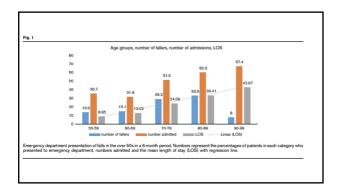
F...?

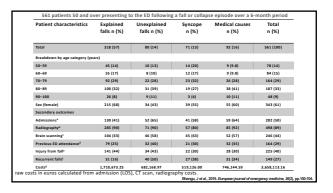
FAINT
FALL
FUNNY DOS

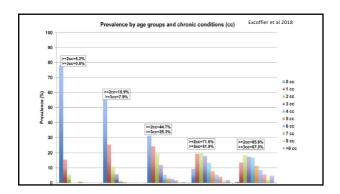


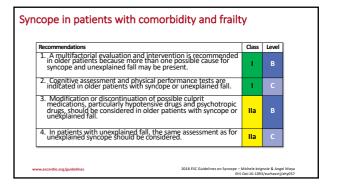


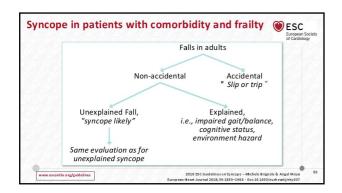


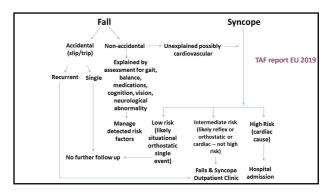


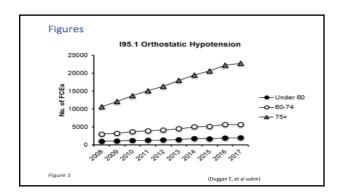


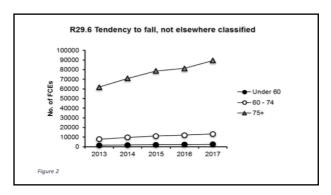












Setting the scene - overview Syncope

- Arrhythmia important / small contribution
- Syncope QOL
- Related symptoms
- CGA Physiological adjunct

Congress of the European Federation of Autonomic Societies Leiden, 9-10 May 2019

The Role of a Syncope Unit
Rationale
Requirements – staff/equipment
EHRA/ESC Guidelines
TIME
Clinical Nurse Specialist