

# CANADIAN SYNCOPE PATHWAY

## Whom & Why

For emergency department patients who present within 24 hours of their syncope. Predicts the 30-day risk of serious outcomes after ED discharge

## Testing

Patients who fulfill ultra-low risk criteria\* do not require troponin testing measured and can be assumed as normal

### \*Ultra-low-risk criteria:

- Age  $\leq$  50 years
- No heart disease
- Normal triage systolic blood pressure  $>$  90 mmHg and  $<$  180 mmHg
- Normal ECG (QRS axis  $\geq -30^\circ$  to  $\leq +100^\circ$ , QRS  $\leq 130$ ms, cQT  $\leq 480$ ms)
- Clinical impression: non-cardiac syncope

CANADIAN SYNCOPE RISK SCORE (CSRS)	
Category	Points
<b>Clinical evaluation</b>	
Predisposition to vasovagal symptoms (Triggered by warm crowded place, prolonged standing, fear, emotion, or pain)	-1
History of heart disease (coronary/valvular heart disease, cardiomyopathy, congestive heart failure or non-sinus rhythm)	1
Any systolic pressure reading $<90$ or $>180$ mm Hg in the ED	2
<b>Electrocardiogram</b>	
Abnormal QRS axis ( $<-30^\circ$ or $>100^\circ$ )	1
QRS duration $>130$ milliseconds	1
Corrected QT interval $>480$ milliseconds	2
<b>Laboratory result</b>	
Elevated troponin ( $>99^{\text{th}}$ percentile or $> 14$ ng/L); assume not elevated if patient is ultra-low risk	2
<b>Diagnosis in emergency department</b>	
Vasovagal syncope	-2
Cardiac syncope	2
Cause unknown	0
<b>Total score</b>	<b>(-3 to 11)</b>

## Risk Stratification CSRS and Practice Recommendation

Low Risk	Medium Risk	High Risk
<b>Score -3 to 0</b>	<b>Score 1 to 3</b>	<b>Score 4 to 11</b>
Recommendation:	Recommendation:	Recommendation:
Discharge from ED	Discharge with outpatient cardiac monitoring for 15 days	Consider short course of hospitalization 15-day outpatient cardiac monitoring highly recommended if discharged



How to complete the form?



Online Calculator

Questions? Please contact our research team at [teamvenk@ohri.ca](mailto:teamvenk@ohri.ca) or 613-823-1299 or through EPIC chat message to 'Team Venk' under group