

PATIENT'S INFORMATION (Please Stick Label)

RISK ASSESSMENT - PULMONARY ARTERIAL HYPERTENSION

Diagnosis			
The ESC guidelines recommend using the criteria below to periodically re-evaluate Pulmonary Arterial Hypertension (PAH) patients.			
Determinants of prognosis (estimated 1-year mortality)	Low risk <5%	Intermediate risk 5-10%	High risk >10%
Clinical signs of right heart failure	Absent	Absent	Present
Progression of symptoms	No	Slow	Rapid
Syncope	No	Occasional ^b	Repeated ^c
WHO functional class	I, II	<u> </u>	□ IV
6-minute walking distance	>440 m	165-440 m	<165 m
Cardiopulmonary exercise testing	Peak VO ₂ >15ml/min/kg (>65% pred.) VE/VCO ₂ slope <36	Peak VO ₂ 11-15ml/min/kg (35-65% pred.) VE/VCO ₂ slope 36-44.9	Peak VO₂ <11ml/min/kg (<35% pred.) VE/VCO₂ slope ≥45
NT-proBNP plasma levels	BNP <50 ng/l NT-proBNP <300 ng/ml	BNP 50-300 ng/l NT-proBNP 300-1400 ng/ml	BNP >300 ng/l NT-proBNP >1400 ng/ml
Imaging (echocardiography, CMR imaging)	RA area <18 cm² No pericardial effusion	RA area 18-26 cm ² No or minimal pericardial effusion	RA area >26 cm² Pericardial effusion
Haemodynamics	RAP <8 mmHg CI≥2.5 I/min/m² SvO2 >65%	RAP 8-14 mmHg CI 2.0 - 2.4 l/min/m ² SvO ₂ 60-65%	RAP >14 mmHg CI <2.0 l/min/m ² SvO ₂ <60%
aMost of the proposed variables and cut-off values are based on expert opinion. They may provide prognostic information and may be used to guide therapeutic decisions, but application to individual patients must be done carefully. One must also note that most of these variables have been validated mostly for IPAH and the cut-off levels used above may not necessarily apply to other forms of PAH. Furthermore, the use of approved therapies and their influence on the variables should be considered in the evaluation of the risk. *Occasional by snoope during birsk or heavy exercise, or occasional orthostatic syncope in an otherwise stable patient. *Repeated episodes of syncope, even with little or regular physical activity. BNP=Brain Natriuretic Peptide; Cl=Cardiac Index; CMR=Cardiac Magnetic Resonance; ESC=European Society of Cardiology; IPAH=Idiopathic Pulmonary Arterial Hypertension; NT-proBNP=N-terminal fragment of pro-Brain			
Natriuretic Peptide; PAH=Pulmonary Arterial Hypertension; Pred.=Predicted; RA=Right Atrium; RAP=Right Atrial Pressure. SvO ₂ =Mixed Venous Oxygen Saturation; VE/VCO ₂ =Ventilating Equivalents for Carbon Dioxide; VO ₂ =Oxygen Consumption; WHO=World Health Organization			
Assessed by: Doctor's Signature :		Total score =	
Doctor's Name :			
Date :			
Time : Low risk = 1, Intermediate risk = 2, High risk = 3, n = no. of assessed parameter			

Effective Date: 25 November 2019