Where Do Your Patients Want to Be in 5 Years?

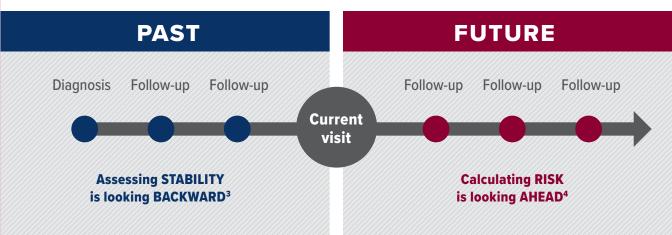
Help your patients improve their prognosis by achieving low-risk status¹⁻⁴



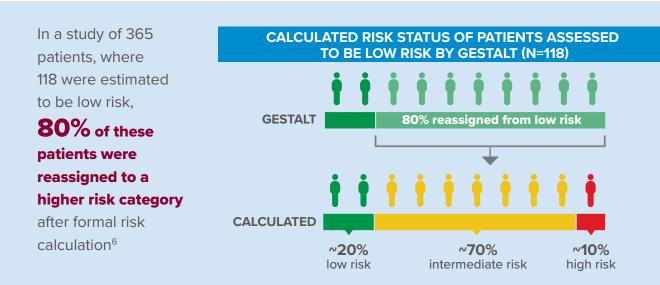
Formally Calculate Risk to Help Accurately Assess Your Patients^{4,5}

Know how your patients are doing today and how they will be doing in the future¹⁻³

Calculate your patients' risk status today to estimate their 5-year prognosis¹⁻³



2015 ESC/ERS guidelines recommend a multiparameter approach to risk assessment because no single variable provides sufficient prognostic information.⁴



WSPH 2018 Recommends Comprehensive Risk Assessments Every 3 to 6 Months⁵

Calculate Your Patients' Risk Status Using Only 3 Noninvasive Criteria^{1,4}



Functional Class

Widely used as a measure of a patient's functional status⁴

Low-risk goal⁴ Functional Class I/II



6-Minute Walk Distance

Most predictive parameter of 5-year survival in 2 European registries^{1,3}

Low-risk goal⁴ >440 m



NT-proBNP/BNP

- Indicator of RV function in $\ensuremath{\mathsf{PAH}^7}$
- A normal NT-proBNP/BNP has a 98% sensitivity to exclude the presence of either RAP >8 mm Hg, Cl <2.5 L/l/m², or both¹

Low-risk goals⁴

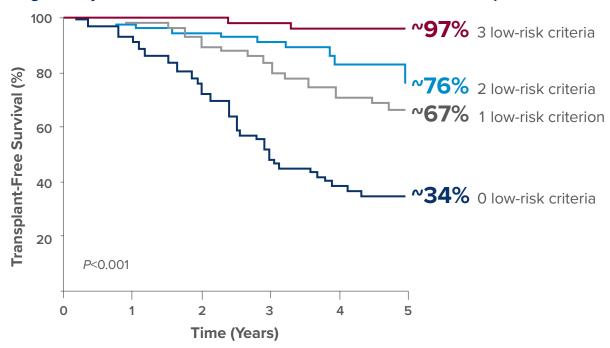
- NT-proBNP <300 ng/L
- BNP <50 ng/L

Make Low Risk the Goal^{4,5}

Achieving more low-risk criteria can improve your patients' 5-year prognosis¹

The French PAH Registry*: In an exploratory subanalysis, patients were assessed for 3 low-risk criteria: transplant-free survival was estimated based on number of low-risk criteria present at first follow-up (n=603).1

- WHO/NYHA: FC I/II
- 6MWD: >440 m
- NT-proBNP: <300 ng/L or BNP: <50 ng/L



Prognosis by number of noninvasive low-risk criteria at first follow-up^{1†}

Is it time to adjust your patients' treatment to help them reach low risk?⁵

*Patients enrolled in the French PAH Registry had idiopathic, heritable, or drug-induced PAH. Of these patients, 603 had baseline and follow-up with WHO/NYHA FC, 6MWD, and NT-proBNP or BNP measurements documented within 1 year of diagnosis.¹ ⁺Median (IQR) follow-up, 4.4 (3.6-6.4) months.¹

Today's Risk Assessment

Circle the values from today's assessment.

| | | Low Risk | Intermediate Risk | High Risk |
|--------------|-----------------------|--|---|--|
| <u>_</u> | Functional Class | I, II | 111 | IV |
| Ö | 6-Minute Walk Test | >440 m | 165-440 m | <165 m |
| \bigotimes | NT-proBNP/ BNP | NT-proBNP <300 ng/L BNP <50 ng/L | NT-proBNP 300-1400 ng/L BNP 50-300 ng/L | NT-proBNP >1400 ng/L BNP >300 ng/L |
| | | | How many low-risk goals has your patient met today? | |

What else can you do to help your patients meet more low-risk goals?



Your healthcare provider may use these 3 evaluations to perform a risk assessment to know if your treatment plan needs to be adjusted to help you feel better and do more.



Functional Class

Shows how your symptoms impact your day-to-day activities

Functional Class is divided into 4 groups



Class 1

Can you ride a bike or go for a long walk without getting breathless?



Class 2

Do you need to pause to catch your breath when you climb stairs or go shopping?



Class 3

Can you walk to the end of your driveway without stopping to rest?



Class 4

Do you experience symptoms of PAH even when resting?



6-Minute Walk Test

Evaluates how far you can walk in 6 minutes



NT-proBNP or BNP

Measures a chemical in your blood that shows how much strain is on your heart

People who are able to achieve more low-risk goals sooner have a higher survival rate*

Ask your healthcare provider how you can achieve more low-risk goals



Is it time to adjust your patients' treatment to help them reach low risk?

6MWD=6-minute walk distance; BNP=B-type natriuretic peptide; CI=cardiac index; ESC/ERS=European Society of Cardiology/European Respiratory Society; FC=Functional Class; NT-proBNP=N-terminal pro–B-type natriuretic peptide; NYHA=New York Heart Association; PAH=pulmonary arterial hypertension; RAP=right atrial pressure; RHC=right heart catheterization; RV=right ventricle; WHO=World Health Organization; WSPH=World Symposium on Pulmonary Hypertension.

References: 1. Boucly A, et al. *Eur Respir J.* 2017;50:1700889. **2.** Kylhammar D, et al. *Eur Heart J.* 2018;39(47):4175-4181. **3.** Hoeper MM, et al. *Eur Respir J.* 2017;50:1700740. **4.** Galiè N, et al. *Eur Heart J.* 2016;37(1):67-119. **5.** Galiè N, et al. *Eur Resp J.* 2019;53(1):1801889. **6.** Simons JE, et al. *Adv Ther.* 2019;36(9):2351-2363. **7.** Warwick G, et al. *Eur Resp J.* 2008;32:503-512.

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