

1 YEAR-MORTALITY RISK ASSESSMENT IN PULMONARY ARTERIAL HYPERTENSION PATIENTS. A MULTICENTRE RETROSPECTIVE STUDY.

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Background and importance

2022 ESC/ERS Guidelines for pulmonary arterial hypertension [PAH] recommend treatment decisions based on patient's 1-year mortality risk.

Aim and objectives

 To assess whether patients' mortality risk is estimated and registered in clinical charts to guide treatment decisions in a cohort of PAH patients.

This guidelines provide a simplified four-strata riskassessment tool to estimate patient's 1-year mortality risk To assess whether it is possible to measure patients' risk with the simplified tool using medical chart data.

Material and methods

Study design: A cross-sectional, retrospective, descriptive



Study period: January 2016 – March 2022



Setting: 2 tertiary hospitals



Population: adult PAH patients who initiated a PAH-specific therapy after 2016.



Variables: PAH subsets, PH-specific drug initiated, year of the initiation, and physician's explicit assertions of the patient risk.

Simplified four-strata risk-assessment tool calculated with:

- World Health Organization functional class [WHO-FC]
- 6-minute walking distance [6MWD],
- N-terminal pro-brain natriuretic peptide [NTproBNP



Results



145 changes in PAH-specific therapy.



13.8% patient's risk registered at treatment initiations by physicians.

X 56 (18-99)% years

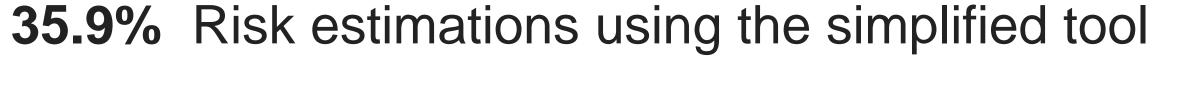
n= 102

Patients' HAP subsets

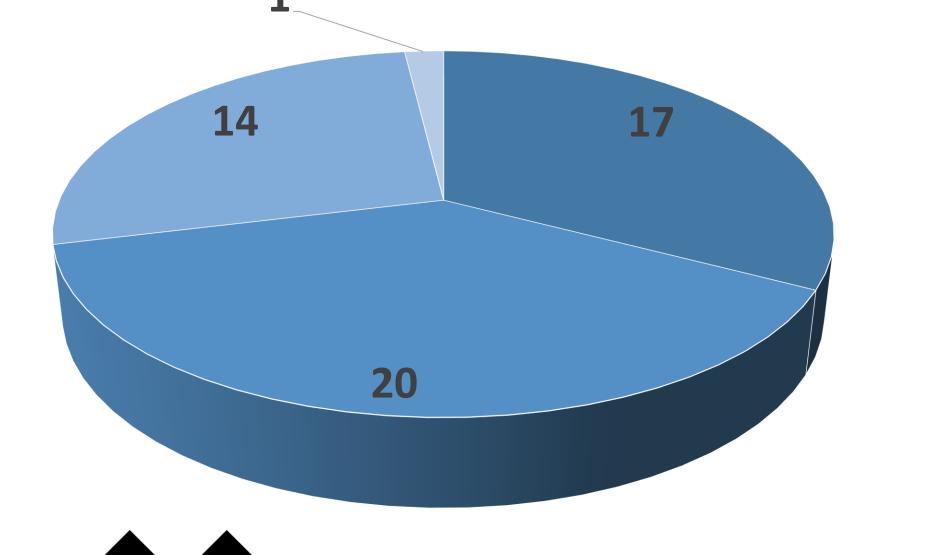
35.5%

64.5%

- Congenital heart disease 35%
- Connective tissue disease 29%
- portal hypertension 9%
- HIV infection 3%
- Drugs and toxins 2%,
- Idiopathic HAP 22%.



Estimates 1-year patients risk



Low risk
Intermediate-low
Intermediate-high
High risk

64.5% Insufficient data to calculate risk

Conclusions

Patients' mortality risk was rarely claim by physicians. Assessing patient's risk with the simplified tool, was impossible to estimate it for most patients. Therefore, this process is missing critical clinical variables, even if the mortality risk is being assessed but not registered in clinical charts.

