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Outpatient Treatment of Pulmonary Embolism: A Single-Center Case Series
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BACKGROUND & OBJECTIVE
Pulmonary embolus (PE) is associated with significant utilization of health care resources and financial burden

Several additions that have allowed us to look at safely treating patients with PEs as outpatients:

- Simplified Pulmonary Embolism Severity Index (SPESI)
  - Risk stratifies patients based on their age, vital signs, and past medical history
- Novel oral anticoagulants

Primary Objective: To describe the population, treatment strategies, short-term complications and outcomes associated with outpatient management of PE following treatment in the ED.

METHODS
Retrospective health records survey investigated a 4-year cohort of consecutive patients presenting with PE who received treatment in an academic, tertiary ED and were discharged to home.

151 patients with median age 56 years (20-94 years), 58% male and 96% white, for which the following data was collected:
- SPESI score
- Treatment strategy  
  - NOAC vs. LMWH vs. Warfarin with bridge
- Return visits within 7 and 30 days

RESULTS

DISCHARGE DATA
- 118 (58%) were discharged directly home
- 28 (19%) were discharged following treatment in the ED clinical decision unit
- 1 (0.7%) left against medical advice

TREATMENT DATA
- 61 (40%) received a NOAC
- 33 (22%) low molecular weight heparin
- 55 (36%) low molecular weight heparin with a bridge to warfarin

CONCLUSIONS
- Outpatient management was safe and effective for the large majority of patients.
- Outpatient management was associated with few complications with a low return hospitalization rate.
- Future studies are needed with a larger sample size and a more diverse population.