LETTER TO THE EDITOR

Morning Discharges Are Also Not Associated With Emergency Department Boarding Times

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We thank Dr Zorian and colleagues for their editorial¹ addressing our retrospective multicenter cohort study, “Morning Discharges and Patient Length-of-Stay in Inpatient General Internal Medicine.”² Dr Zorian and colleagues raised a question about whether morning discharges were associated with emergency department (ED) boarding times (ie, the time between the decision to admit a patient and their departure from the ED). We also received correspondence from other readers expressing interest in this metric.

We measured the association between morning discharges from general internal medicine (GIM) and ED boarding time using the same methodology and cohort as previously described in our article.² A total of 37 admissions out of 189,781 admissions (<0.1%) did not have an ED boarding time available and were excluded. The mean (SD) boarding time for the remaining cohort (n = 189,744) was 9.63 (11.67) hours. After categorizing days in the study period into quartiles based on the number of morning discharges from GIM, we did not find a strong unadjusted association with ED boarding times (Table).

After multivariable adjustment with negative binomial regression models, as previously described,² there was a weak, statistically significant association between the number of morning discharges and ED boarding time (adjusted rate ratio, 0.995; 95% CI, 0.991-1.000), corresponding to 2.4 minutes less in ED boarding time for every additional morning discharge. Ultimately, we agree with Dr Zorian and colleagues that, instead of focusing on discharge-before-noon, hospitals should consider patient flow and discharge quality more holistically.

Disclosures: Drs Razak and Verma report personal fees from Ontario Health, outside the submitted work.

References


TABLE. Association Between Morning Discharges and Emergency Department Boarding Time in General Internal Medicine

<table>
<thead>
<tr>
<th>Total cohort (n = 189,744)</th>
<th>Q1 (lowest)</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4 (highest)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED boarding time, mean (SD), h</td>
<td>9.63 (11.67)</td>
<td>10.07 (12.67)</td>
<td>9.74 (11.88)</td>
<td>9.34 (11.33)</td>
</tr>
</tbody>
</table>

Each day in the study period was categorized into quartiles based on the number of morning discharges from general internal medicine. Abbreviations: ED, emergency department; Q1, quartile with the lowest number of morning discharges; Q4, quartile with the highest number of morning discharges.

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