

Improving compliance to follow-up alerts in chest x-rays with consolidation through clinician education

ADENIRAN-BABATUNDE. S¹, GBEDE. O², OGUNTOYE. O³, ALKHOULY. M⁴

1. Senior House Officer 2. Senior House Officer 3. Senior House Officer 4. Consultant Radiologist (@ The Shrewsbury & Telford Hospital NHS Trust)



The Shrewsbury and
Telford Hospital
NHS Trust

Introduction

BTS recommended follow up CXRs after completing treatment for patients with consolidation in CXR to ensure resolution of initial consolidation or diagnosing other sinister pathology. A review of compliance to follow up alert by radiologist for CXR with consolidation was done and based on this intervention was initiated in Shrewsbury and Telford NHS Trust

Methodology

The first audit was a retrospective review of 100 chest x-rays with consolidation that were done in the trust between June 2021 and June 2022. The result of the first audit and the important of compliance to follow-up alert was presented in a clinician teaching. The re-audit was done 3 months after the teaching by reviewing another 100 chest x-rays that were done in the trust between January and April 2024.

Objectives

- To ensure all patient with consolidation in initial CXR have a follow up XR
- To ensure that the follow up CXR are done within the time frame recommended by the radiologist on the report

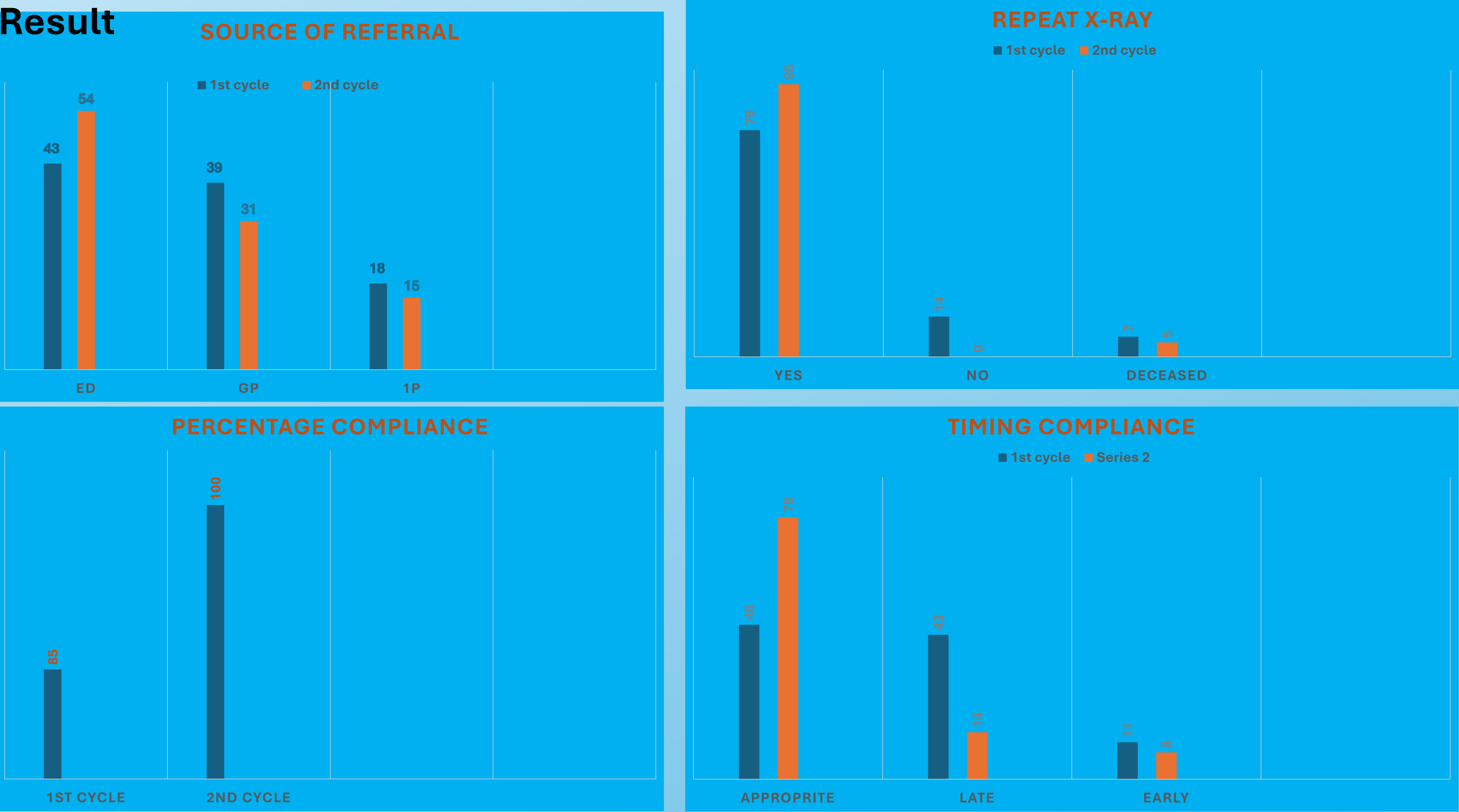
Conclusion

Most of the patients from both cycles were from the ED and GP with very little percentage from the ward.

There was significant improvement in compliance with repeat chest x-rays as well as timing after our presentation to the physician.

We hope to do further study to identify proportion of patient with abnormality in follow-up chest as well as the nature of these abnormalities.

Result



References

- B Bryl, E Barlow, & H Davies. (2018). P182 Follow up chest X-rays (CXR) after community acquired pneumonia (CAP): Are they done and are they useful? *Thorax*, 73(Suppl 4), A199. <https://doi.org/10.1136/thorax-2018-212555.339>
- Peter Dobson, Dominic Marshall, Amy Dewar, Alex West, & Anne Collett. (2020). Performing follow up chest x-rays for patients with a recent pneumonia leads to a significant number of other malignant and non-malignant pathologies being diagnosed. *European Respiratory Journal*, 56(suppl 64), 3089. <https://doi.org/10.1183/13993003.congress-2020.3089>
- W S Lim, S V Baudouin, R C George, A T Hill, C Jamieson, I Le Jeune, J T Macfarlane, R C Read, H J Roberts, M L Levy, M Wani, & M A Woodhead. (2009). BTS guidelines for the management of community acquired pneumonia in adults: Update 2009. *Thorax*, 64(Suppl 3), iii1. <https://doi.org/10.1136/thx.2009.121434>