Pre-Accessioning in Anatomic Pathology (AP) – Utilizing a Cloud Based Laboratory COREPATH Information System (LIS) reducing AP Error and Improving Patient Safety.

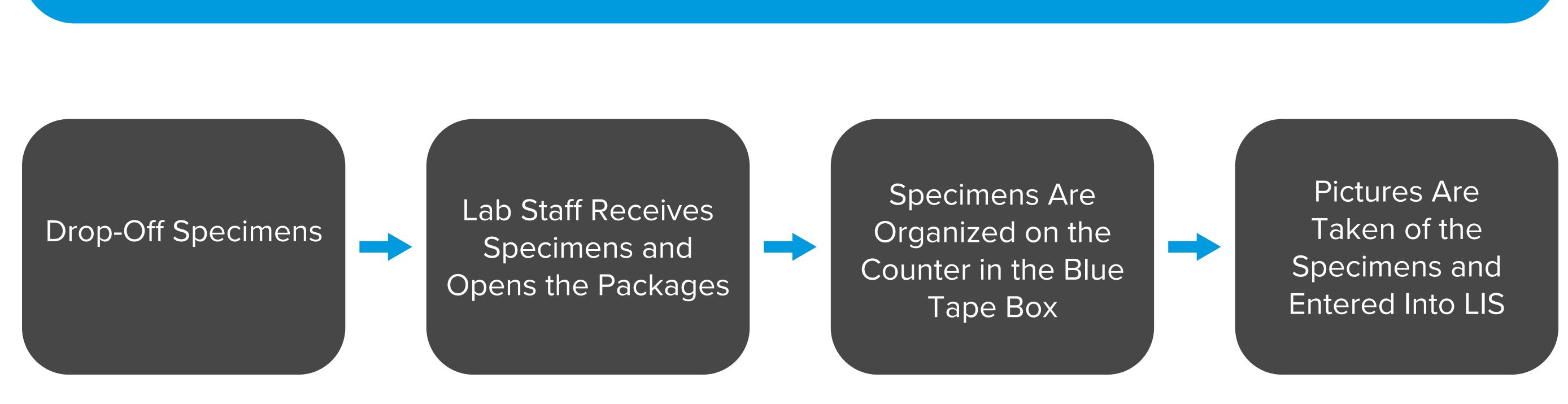


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Introduction

Typical workflow in AP starts from accessioning of cases to sign out. Most LIS follow this cycle of sample tracking. However, at certain times, either samples are not received or get lost in transit without lab being notified. There is a need of pre-accessioning in AP especially for samples received from outpatients' sites, so labs not only track samples during transit but also reduce typographical errors (name, DOB, Unique ID) and assess workload before arrival.

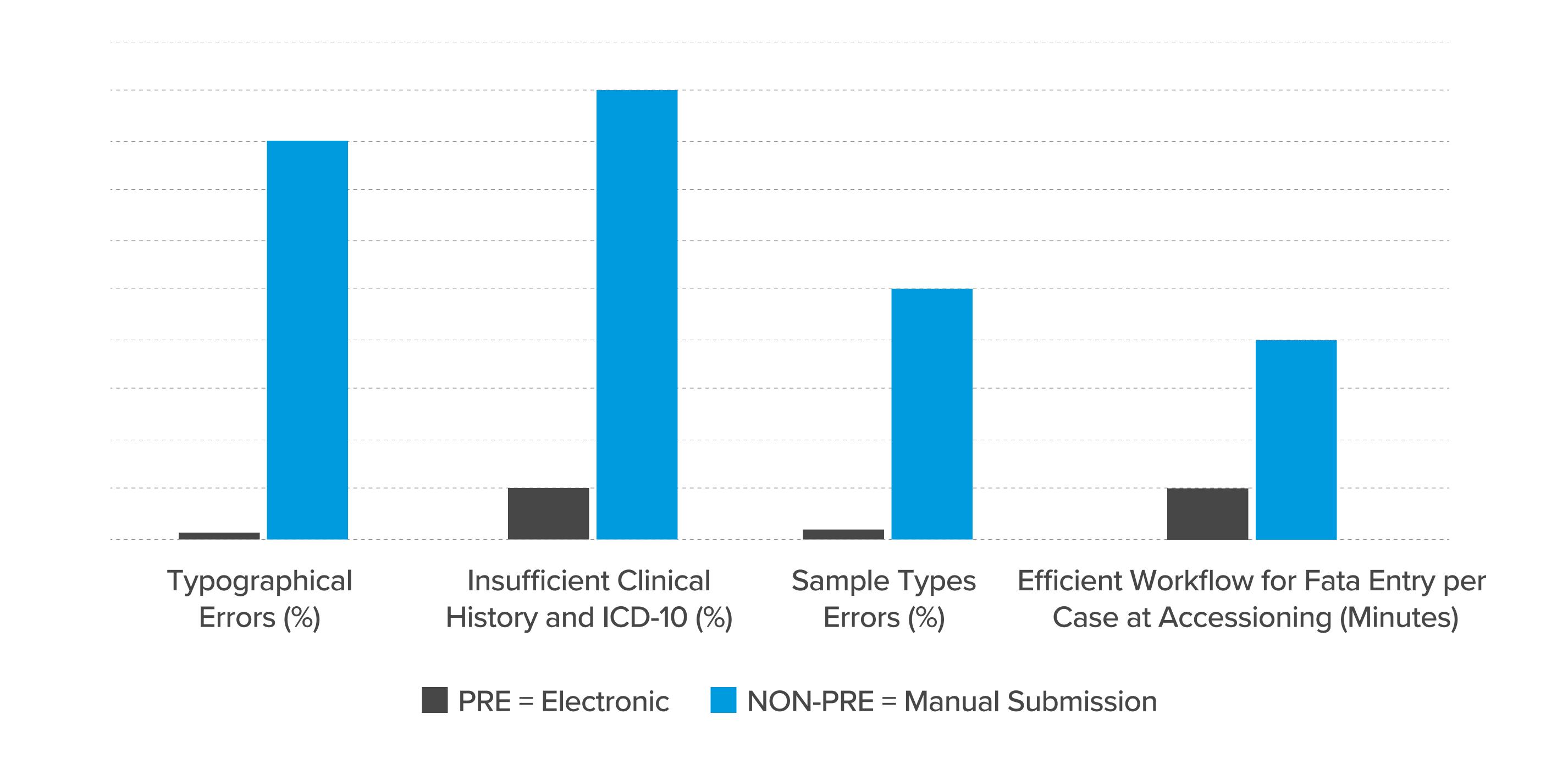
Methods



From 2020-2022, we initiated e-requisition utilizing online cloud-based portal for submitting AP cases obtained at physician offices, clinics, and outreach satellite sites. Insurance information and clinical history were scanned and uploaded with e-requisition submission. Retrospective analysis was performed, and data was analyzed and compared for errors, QA metrics and workflow analysis on samples obtained with PRE (840 cases) and without pre-accessioning NON-PRE (1280 cases).

Results

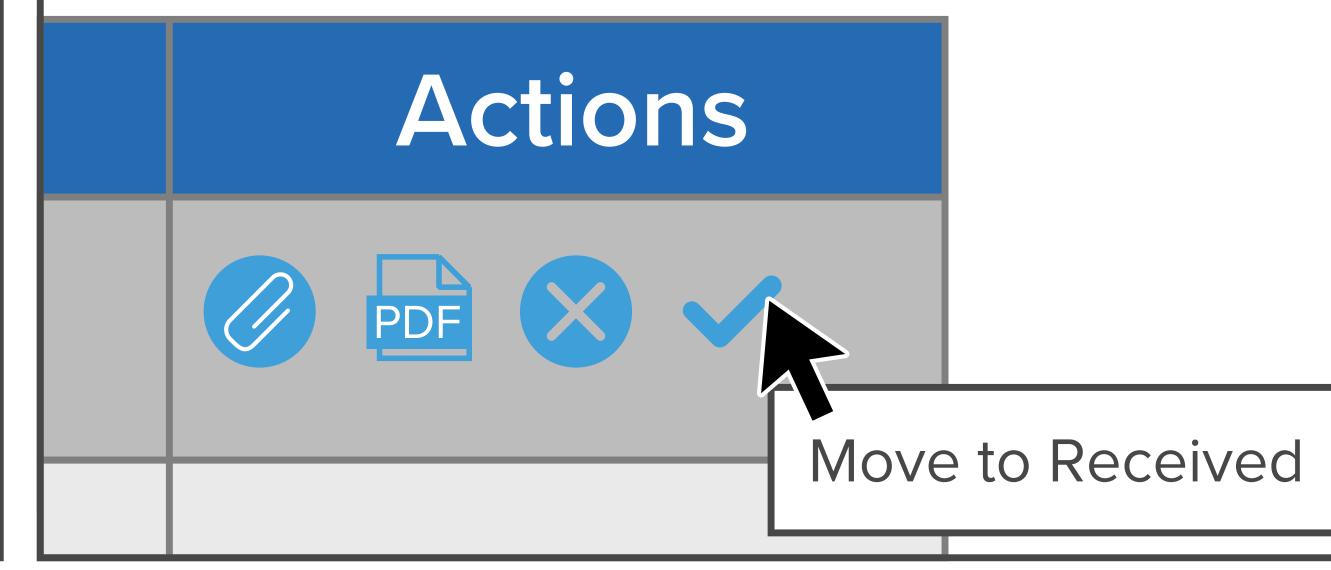
Pre-Accessioning in Anatomic Pathology – Utilizing a Cloud Based Laboratory Information System reducing Error in Anatomic Pathology and Improving Patient Safety.



PRE and NON-PRE (handwritten and manual submission) were compared. Results were as follows for PRE vs NON-PRE:

- . Typographical errors (0.1% vs 8%);
- 2. Insufficient clinical history and ICD-10 (1% vs 9%);
- 3. Sample types errors (0.2% vs 5%); and
- 4. Efficient workflow for data entry per case at accessioning (1min vs 4min)





Left Image:

Pre-accessioning – Electronic requisition (E-req) form entered at facility with counter shown.

Right Image:

Paperclip Icon – Attached documents uploaded.

PDF Icon — Insurance information.

X Icon — Cancel the order.

Check Icon – To accept the order and patient demographic get entered by LIS ('Move to Received').

Conclusion

We demonstrated pre-accessioning feature for AP samples utilizing cloudbased portal of LIS is an important tool that can:

- 1. Prevent/reduce laboratory accessioning errors.
- 2. Help labs monitor sample tracking from the time sample is obtained to the time it got accessioned in the lab.
- 3. Help labs improve turn around time in their workflow for quick accessioning.
- 4. Improve patient safety by reducing errors for AP samples.
- 5. Can be integrated with any clinical electronic medical record.