

# Barcoded Blood Product Administration Management (BPAM)

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## INTRODUCTION

Blood product transfusions have specific risks resulting in significant adverse effects, including catastrophic morbidity and mortality.

## AIM

Closed Loop BPAM:

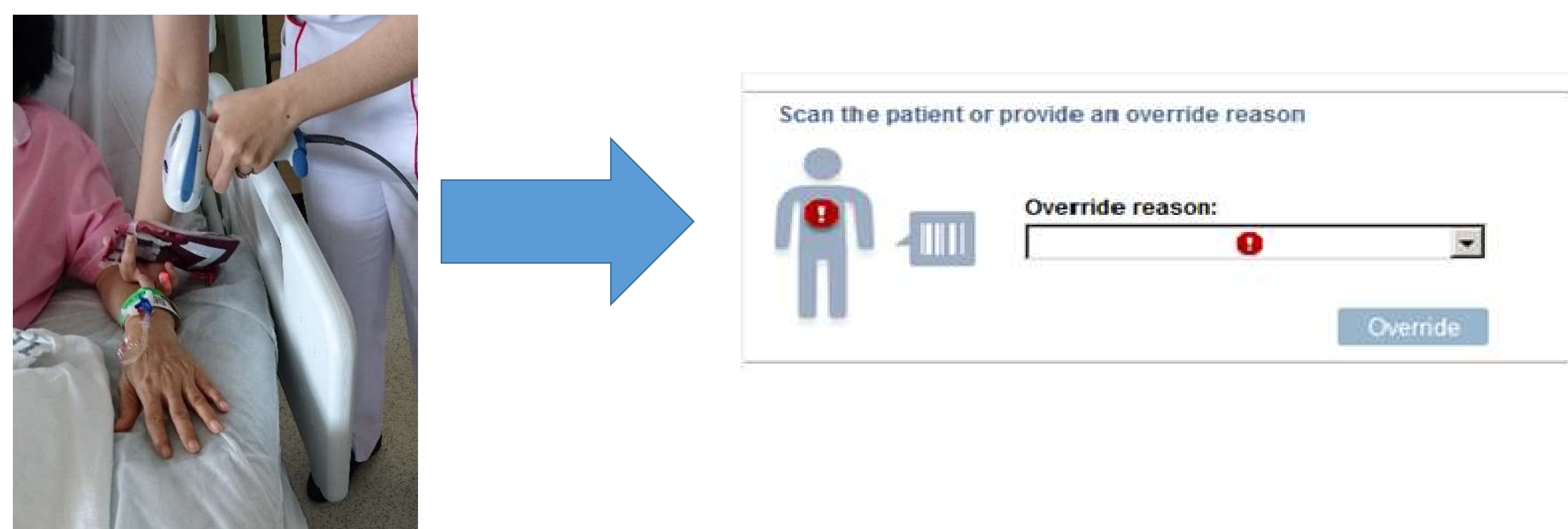
- Reduce errors, through EMR guided orders,
- Positive identification (both patient and blood products) through Bar-Codes
- Safer blood product administrations

## RESULTS

Standard hospital incident reporting database was reviewed. Whilst this is a voluntary, self-reported approach, our organization has consistently educated, trained and encouraged staff to report clinical incidents. Blood product related incidents were reviewed in particular and plotted over time.

We observed a marked drop in blood product related incident reports from 2.1 incidents/1000 bed days before BPAM, to a low rate of just 0.1 incident/1000 bed days after BPAM.

## METHODOLOGY



Patient ID barcode scanned

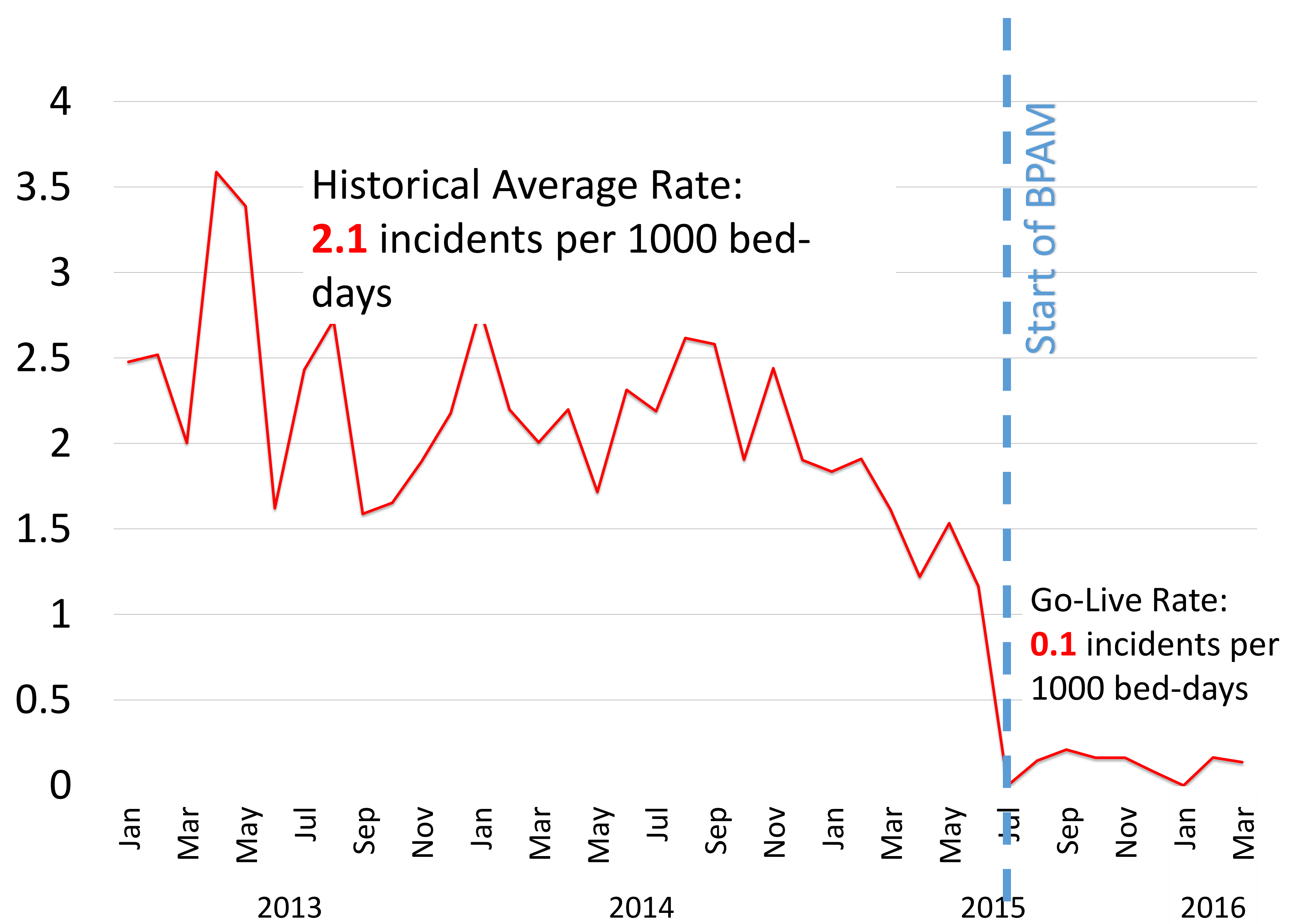
EMR-Blood product documentation



Blood administration



Blood product ID validation



## CONCLUSION

Positive bar-coded identification of patients' blood products through an EMR validated ordering system appears to reduce blood product related incidents. We believe this will contribute to better patient safety through reductions in identification errors.