

Successful rollout of a Transfusion Dashboard

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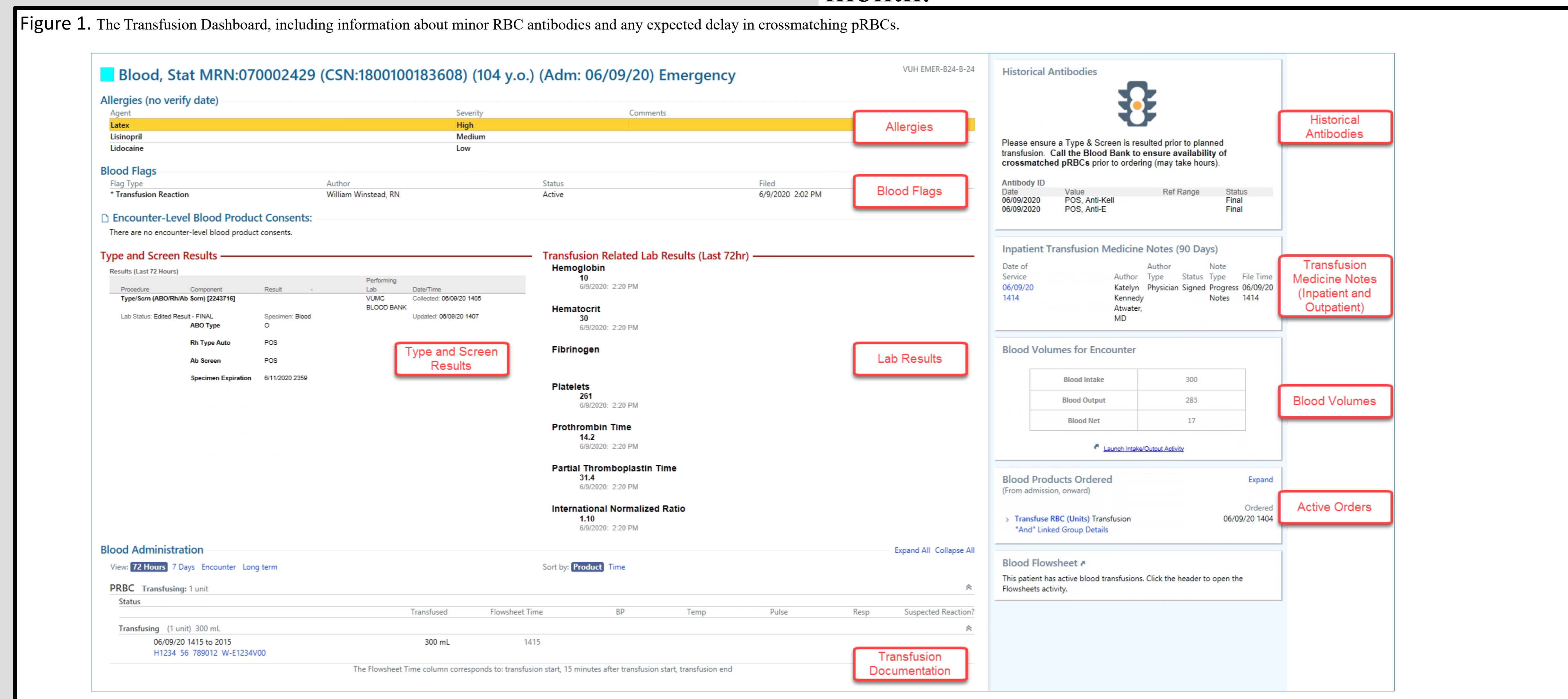
INTRODUCTION

Blood transfusions are the most common procedure ordered in a hospital (1). Providers need multiple discrete pieces of information prior to ordering the right dose and right blood product, including recent laboratory data like hemoglobin, platelet count, PTT, PT/INR or fibrinogen, patient allergies, results and expiration date of a type and screen including any minor red blood cell (RBC) antibodies and anticipated delay in RBC crossmatching. All this data is scattered in multiple locations in Electronic Medical Record (EMR) systems, and not presented in an easy-to-understand format.

METHODS/RESULTS

With a multidisciplinary group of nurses, informaticists, physicians, blood bank staff and leaders at our institution, we designed our Transfusion Dashboard over several months with feedback and multiple iterative improvements. We designed it to bring disparate discrete data to one screen in a format with ‘just in time’ education about minor RBC antibodies to increase provider efficiency and understanding (see Figure 1). Additionally, we tabulated transfusions on this screen since this information is not easily available in all commercially available EMRs and it is important to know how many transfusions a patient has received. The final Transfusion Dashboard went live on April 1, 2020 and is now viewed over 1400 times per month.

Figure 1. The Transfusion Dashboard, including information about minor RBC antibodies and any expected delay in crossmatching pRBCs.



DISCUSSION AND CONCLUSION

We successfully built and deployed a Transfusion Dashboard to help providers with their efficiency around ordering blood products.

REFERENCE

Goel R, Chappidi MR, Patel EU, Ness PM, Cushing MM, Frank SM, et al. Trends in red blood cell, plasma, and platelet transfusions in the United States, 1993–2014. *JAMA*. 2018; 319:825–7.