

The Case of the Missing Blood Transfusions

Jessica Meeker's Severe Maternal Morbidity Project

Silvia P. Canelón, PhD September 04, 2020



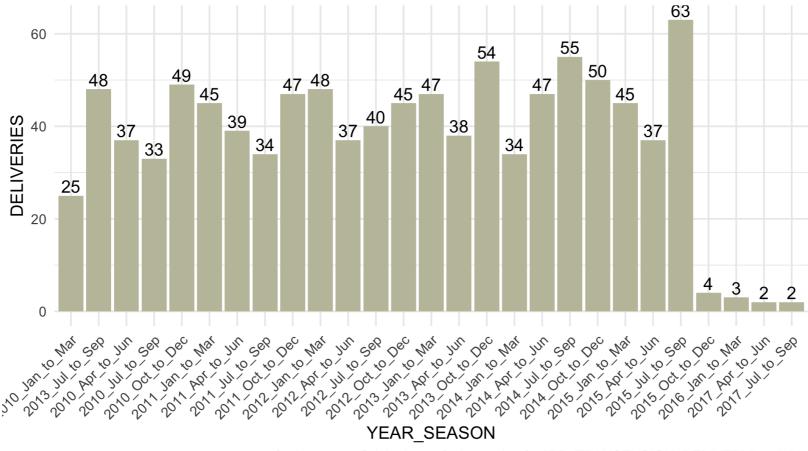
Analysis steps

Identified delivery/pregnancy counts from 2010-2017 by season using additional ICD codes identified by Mary Regina

- keyword "blood"
- keyword "plasma"
- keyword "platelet"
- keywords "transfusion" and "bleeding"
- keywords "blood", "plasma", "platelet", "transfusion",
 "bleeding"
- original blood transfusion codes used in creating "BP_TRANSFUSION_DELIVERY" variable
- **NEW:** blood transfusion-related codes identified at Sept 4th meeting

The original culprit 🧟

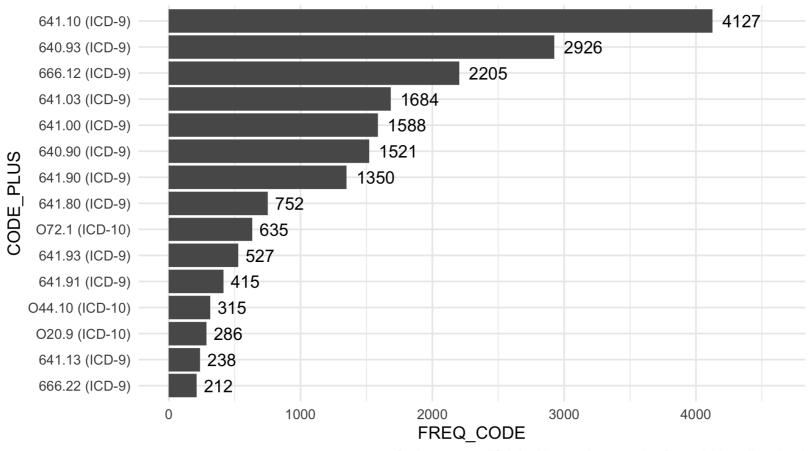




Code source: Original transfusion codes for "BP_TRANSFUSION_DELIVERY" variable

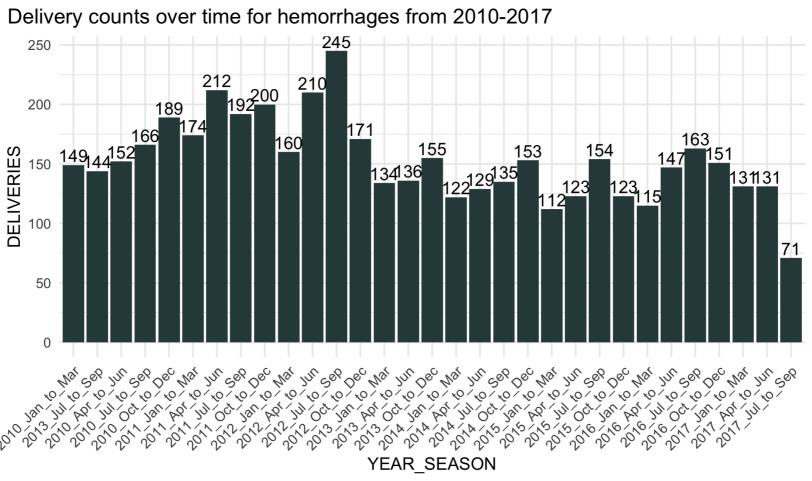
Usage of original hemorrhage codes 🔍

Usage of original hemorrhage codes from 2010-2017



Code sources: "Original hemorrhage codes from sickle cell project"

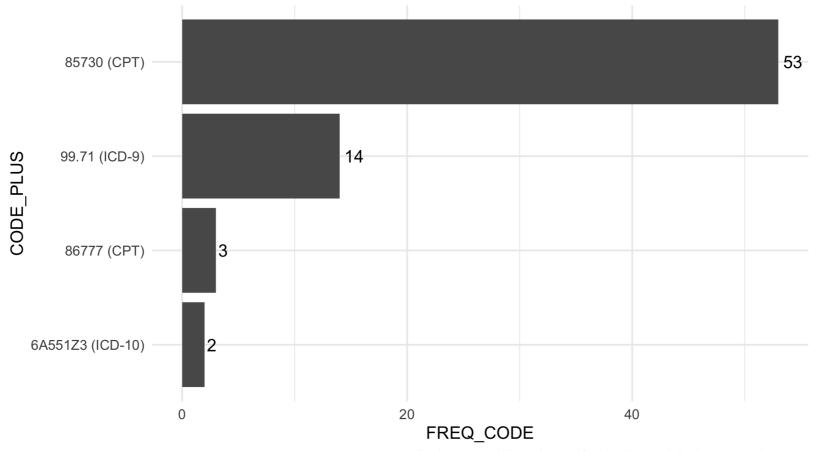
Original hemorrhage codes over time 🔍



Code source: Original codes used in sickle cell project

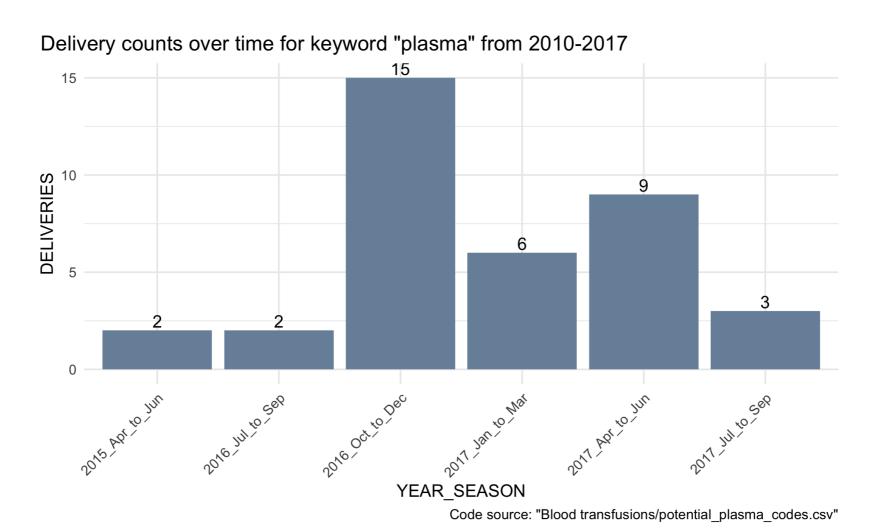
Usage of keyword "plasma" codes 🔍





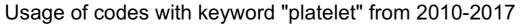
Code source: "Blood_transfusions/potential_plasma_codes.csv"

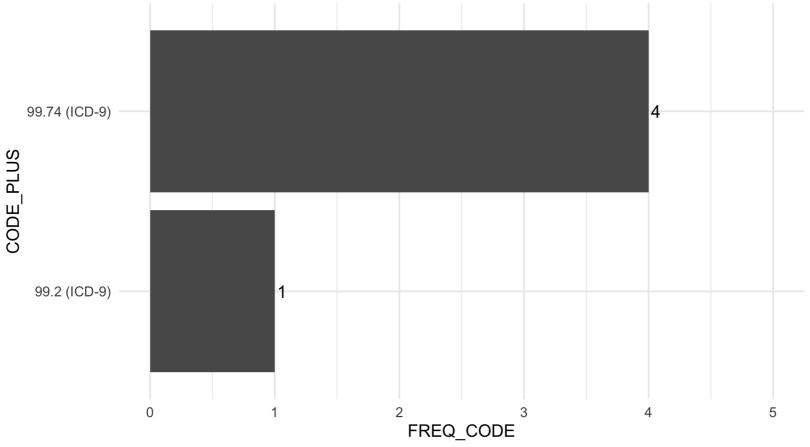
Keyword "plasma" codes over time 🔍



Usage of keyword "platelet" codes 🔍

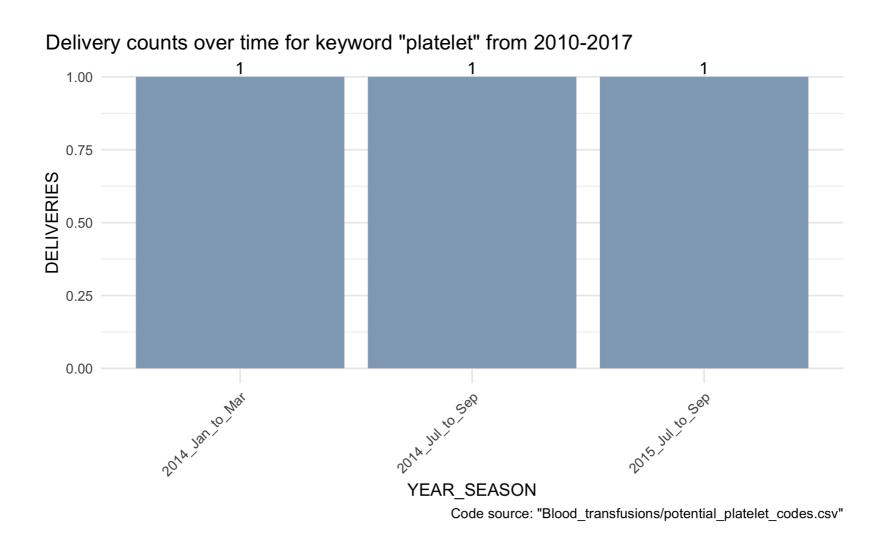






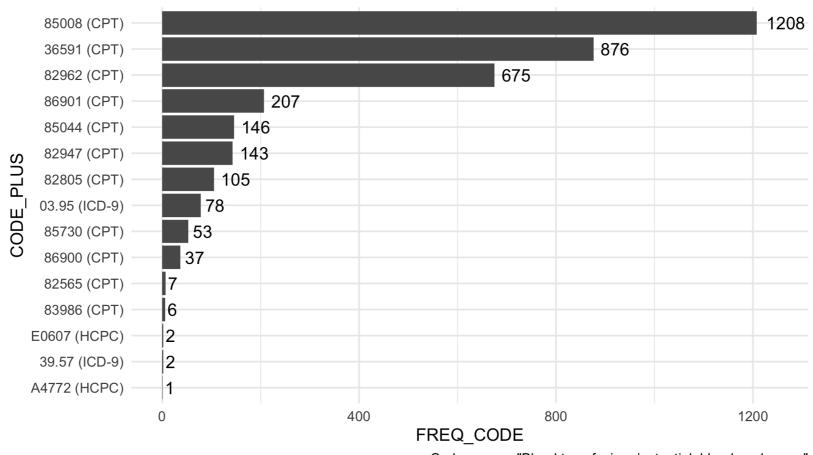
Code source: "Blood transfusions/potential platelet codes.csv"

Keyword "platelet" codes over time 🔍



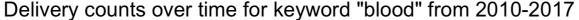
Usage of keyword "blood" codes 🔍

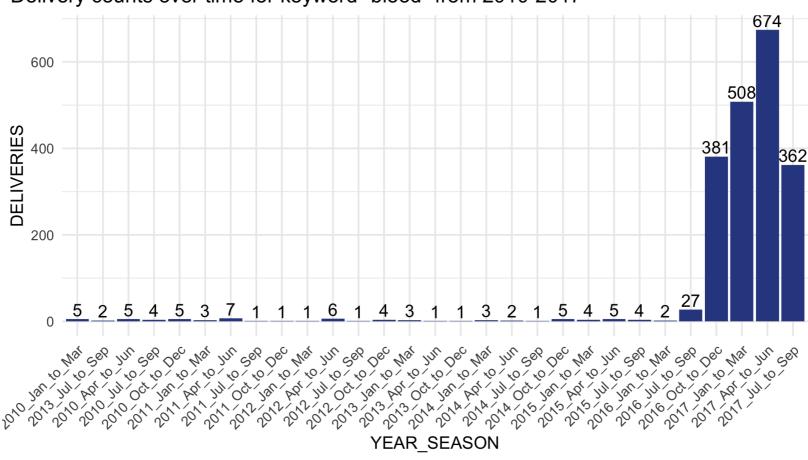
Usage of codes with keyword "blood" from 2010-2017



Keyword "blood" codes over time $\searrow \uparrow$



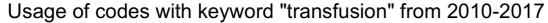


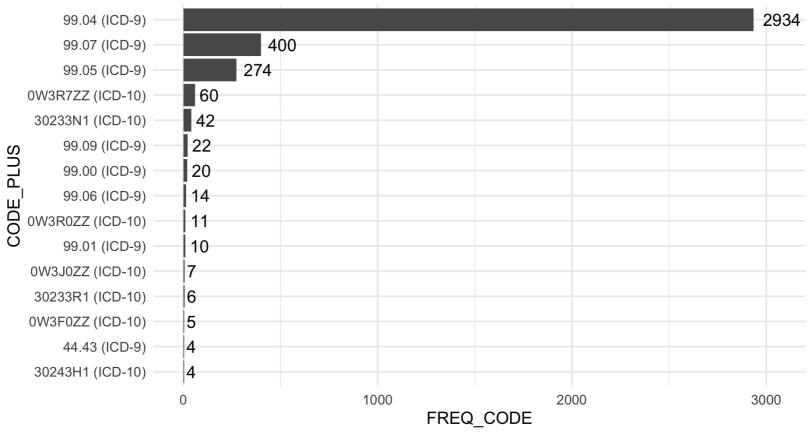


Code source: "Blood transfusions/potential blood codes.csv"

Usage of "additional transfusion" and "bleeding" codes + original codes \triangleleft



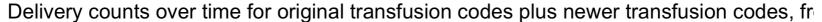


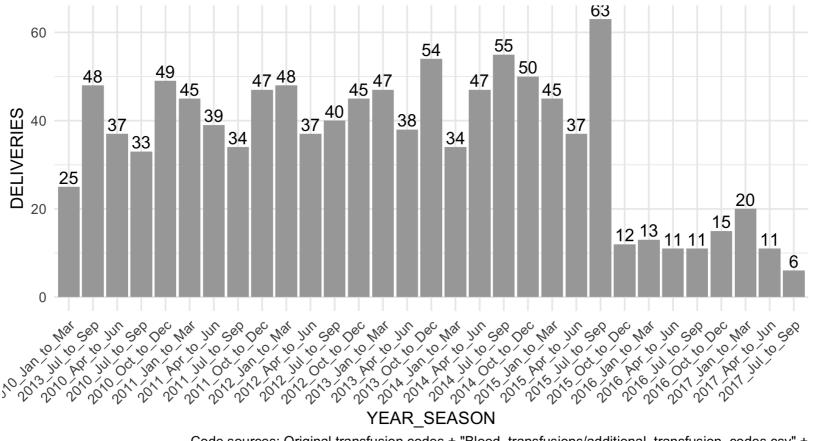


Code sources: Original transfusion codes + "Blood transfusions/additional transfusion codes.csv" + "Blood transfusions/transfusion and bleeding codes NEW.csv"

Keywords "transfusion" or "bleeding" + original transfusion codes 🔍



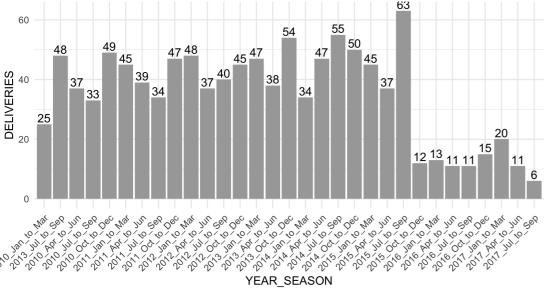




Code sources: Original transfusion codes + "Blood transfusions/additional transfusion codes.csv" + "Blood transfusions/transfusion and bleeding codes NEW.csv"

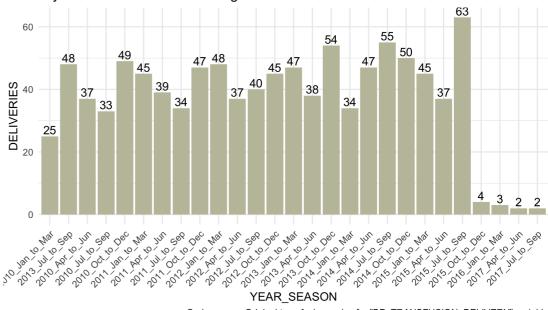
Keywords "transfusion" or "bleeding" + original vs. just original codes





Code sources: Original transfusion codes + "Blood_transfusions/additional_transfusion_codes.csv" + "Blood_transfusions/transfusion and bleeding codes NEW.csv"

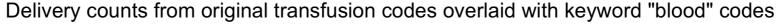
Delivery counts over time for the original transfusion codes from 2010-2017

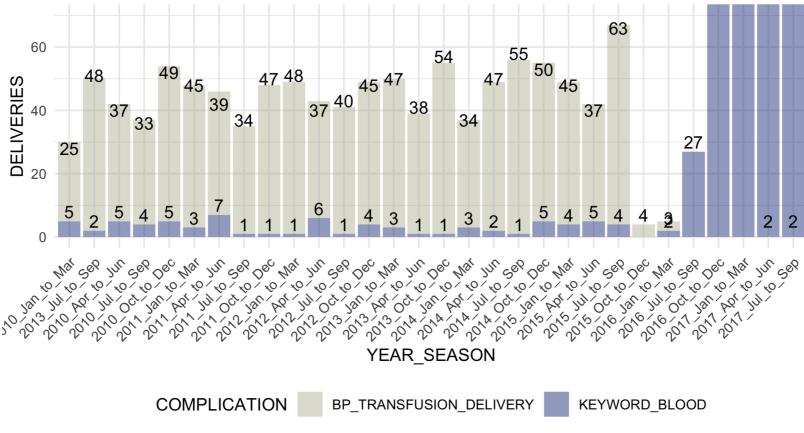


Code source: Original transfusion codes for "BP_TRANSFUSION_DELIVERY" variable

Overlaid transfusion codes from 09/04/2020 and "blood" codes



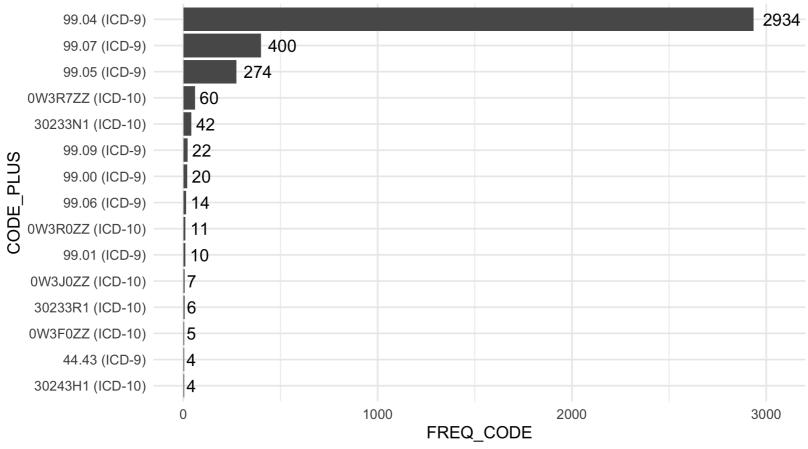




Code sources: Original transfusion codes for "BP_TRANSFUSION_DELIVERY" variable + "Blood transfusions/potential blood codes.csv"

Usage of transfusion codes from 09/04/20 meeting 🔍

Usage of codes with keyword "transfusion" from 2010-2017

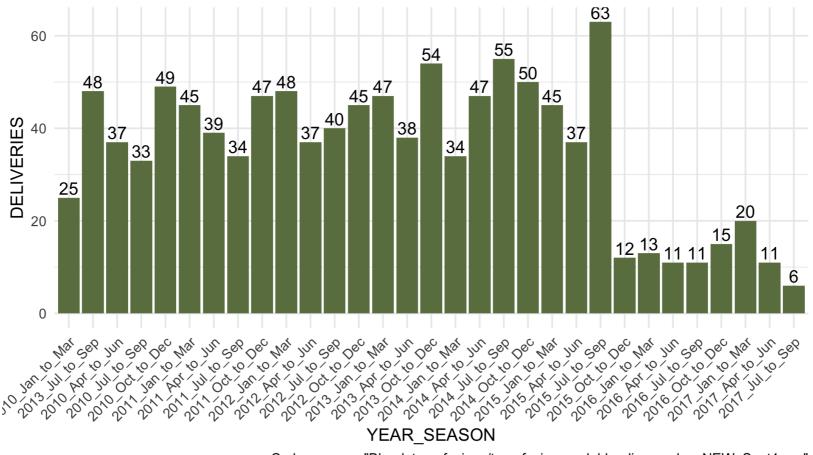


Code sources: "Blood_transfusions/transfusion_and_bleeding_codes_NEW_Sept4.csv"

Transfusion codes identified at 09/04/2020 meeting over time 🔍

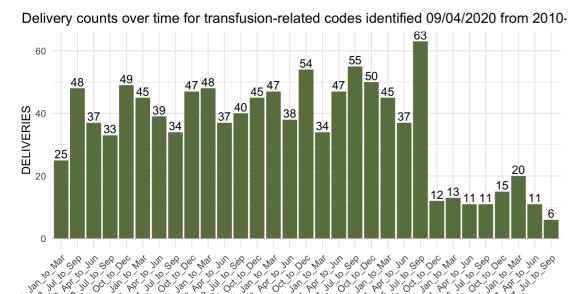






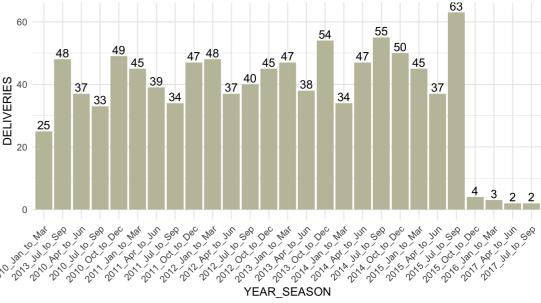
Code sources: "Blood transfusions/transfusion and bleeding codes NEW Sept4.csv"

09/04/2020 transfusion codes vs. just original codes



Code sources: "Blood transfusions/transfusion and bleeding codes NEW Sept4.csv"

Delivery counts over time for the original transfusion codes from 2010-2017



Code source: Original transfusion codes for "BP TRANSFUSION DELIVERY" variable

Fin!