

[2012-2017][2012-2017][AABB[AABB[AABB[AABB[AABB[ABB



KEY NOTES

Reaction rates and the reporting protocols vary among blood collection facilities, even collection sites within the same organization.

The overall donor reaction rates ranged from 20.8 to 24.3 per 1,000 donations.

The most common reaction was vasovagal reaction without loss of consciousness.

AABB Donor Hemovigilance data represented approximately one tenth of the US blood donations*.

Number of Donations and Reactions



Reaction Rates per 1,000 Donations

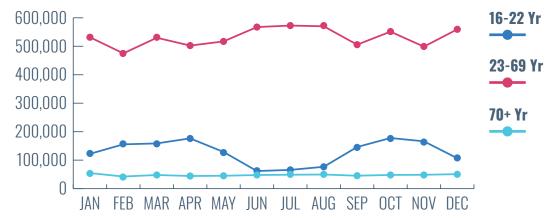
REACTION TYPE	2012	2013	2014	2015	2016	2017
Overall Reactions	22.2	24.3	22.8	21.9	22.2	20.8
VASOVAGAL	15.9	17.4	16.3	14.8	14.4	13.2
Loss of consciousness (LOC)	2.3	2.5	2.3	2.6	2.4	2.3
Prefaint, no LOC (uncomplicated or minor)	13.6	14.9	14.0	12.2	12.1	10.8
LOCAL INJURY RELATED TO NEEDLE	3.0	3.3	3.1	3.5	4.5	3.7
Nerve Irritation	0.2	0.2	0.2	0.2	0.2	0.2
Hematoma / Bruise	2.7	3.0	2.8	3.1	4.0	3.0
Arterial Puncture	0.03	0.03	0.03	0.04	0.05	0.05
Painful Arm	0.1	0.1	0.1	0.2	0.2	0.4
Delayed bleeding	—	—	—	—	0.002	0.01
Infection	_	—	_	0.01	0.003	0.01
Major Blood Vessel Injury	—	—	—	—	—	—
INJURY	0.1	0.1	0.1	0.1	0.06	0.06
Major Injury	0.01	0.01	0.01	0.1	0.03	0.02
Minor Injury	0.1	0.1	0.1	0.02	0.03	0.04
APHERESIS-RELATED	2.8	3.1	2.9	3.3	3.0	3.8
Citrate	0.2	0.2	0.2	0.2	0.2	0.3
Hemolysis	0.004	0.005	0.004	0.005	0.006	0.001
Air Embolus	0.001	0.001	0.001	—	0.001	—
Infiltration	2.6	2.8	2.7	3.1	2.7	3.6
ALLERGIC	0.2	0.2	0.2	0.04	0.04	0.03
Local	0.2	0.2	0.2	0.03	0.03	0.03
Systemic	0.04	0.04	0.04	0.01	0.004	0.004
Anaphylaxis	_	—	_	—	0.001	—
MAJOR CARDIOVASCULAR EVENT	0.001	0.001	0.001	0.001	—	_
Angina pectoris within 24 hours	0.001	0.001	0.001	_	_	_
Cardiac arrest	_	—	—	—	—	—
Cerebrovascular accident	_	—	—	0.001	—	—
Myocardial infarction within 24 hours	_	_	_	_	—	_
Transient Ischemic Attack (TIA) within 24 hours	_	_	_	_	_	_

*National Blood Collection and Utilization Survey

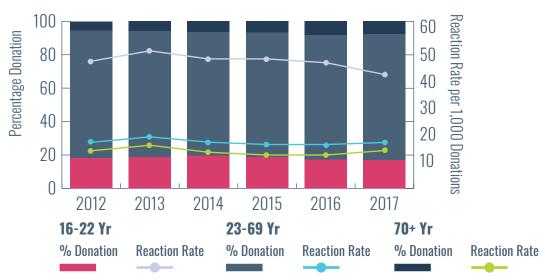


AGE COMPARISON

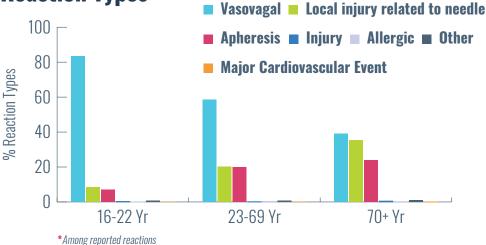
Seasonal Donation Pattern



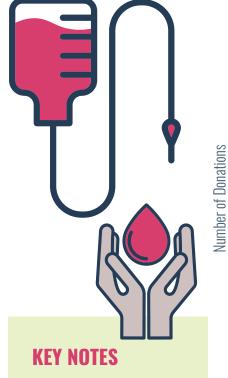
Donation and Reaction Rates



Reaction Types*



Source: AABB Hemovigilance System – DonorHART™ | ©AABB 2019



Fewer donations by young donors (age 16-22) during the summer months, were compensated by donation from adult donors (age 23-69).

Younger donors were more likely to experience an adverse reaction to blood donation.

Younger donors (age 16-22) made 18% of the total donations, but accounted for higher reaction rates, ranging from 41.41 (2017) to 49.09 per 1,000 donations (2013).

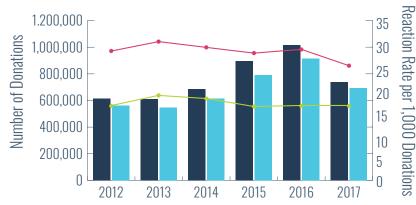
There was a downward trend of vasovagal reactions with increase in donor age.

The margin between vasovagal reactions and local injuries related to needle was narrowest among donors aged 70 years and older.

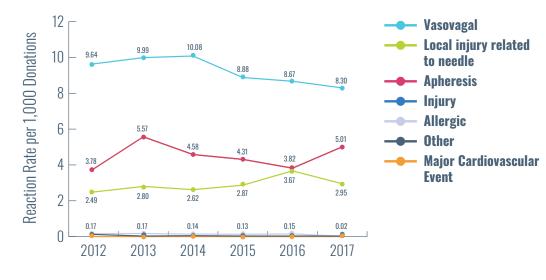


GENDER COMPARISON

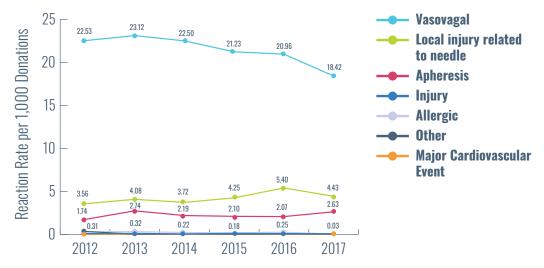
Donation and Reaction Rates



Male Donors



Female Donors



Total Donations Overall Reaction Rate

Female Total Donations

ions Overall Reaction Rate



Although the number of donations by male donors were higher compared with female donors, female donors experienced higher adverse reaction rates, ranging from 25.64 (2017) to 30.40 per 1,000 donations (2013).

Male donors were twice as likely to experience apheresis reactions compared with female donors, making apheresis reactions the second-most common adverse reactions among this donor group.

Among female donors, local injuries related to needle were the secondmost common adverse reactions.

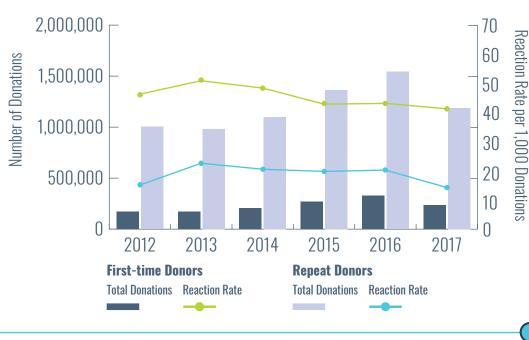
Source: AABB Hemovigilance System – DonorHART™ | © AABB 2019



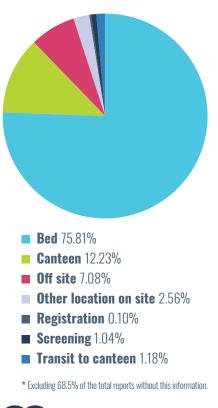
Male

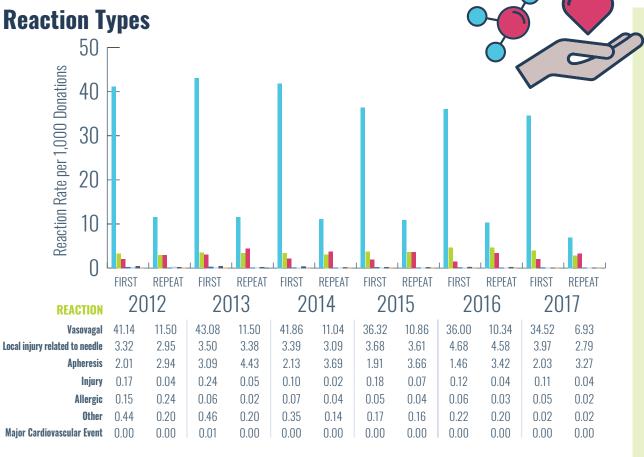
OTHER FINDINGS

Donor History Comparison Donation and Reaction Rates



Reported Reaction Location*





🔳 Vasovagal 📕 Local injury related to needle 📕 Apheresis 🔳 Injury 🔲 Allergic 🔳 Other 💻 Major Cardiovascular Event

repeat donors. **Apheresis** reaction rates were higher

KEY NOTES

Donor bed was the most common location where

the reactions began.

First-time donors

were more likely to experience an adverse reaction

compared with

among repeat

with first-time

donors.

donors compared

addo Association for the