

Ministry of Health

PPB Pharmacovigilance Centre

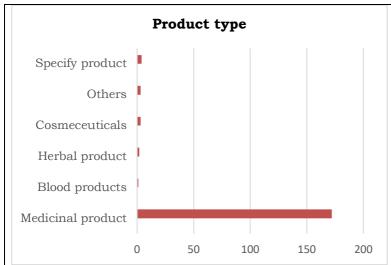
Pharmacovigilance Summary Report: January-June 2021 (Q3 & 4)

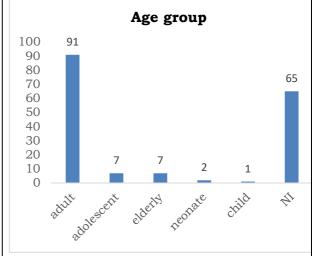
The Pharmacy and Poisons Board is the Drug Regulatory Authority established under the Pharmacy and Poisons Act, Chapter 244 of the Laws of Kenya. The Board regulates the Practice of Pharmacy and the manufacture and trade in drugs and poisons.

PPB has 4 directorates of which the Directorate of Medicines Information and Pharmacovigilance (MIPV) is responsible for Pharmacovigilance, Post-Market Surveillance, Clinical Trials & Medicines Information activities. MIPV shares quarterly pharmacovigilance reports with stakeholders to serve as a feedback mechanism and also encourage all stakeholders to report.

Since the introduction of PV in Kenya, a total of **14,589** individual case safety reports has been submitted to the global data reports **26,863,169** (0.05%).

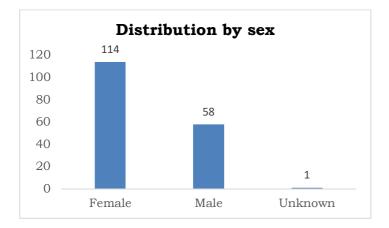
Suspected Adverse Drug Reactions (SADRs)



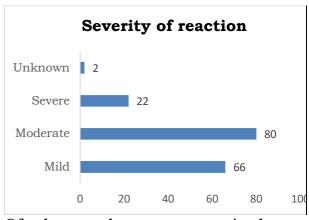


Majority of the reports (94.5%) of the reports submitted were medicinal products while 2.6 % of the products were not specified.

The incidence of SADRs was highest amongst the adult (52.6%) age group in comparison to the children.37.5% of the total reports did not have age indicated.

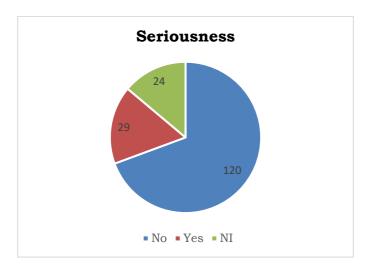


The frequency of reported SADRs was higher in female (65%) compared to male.

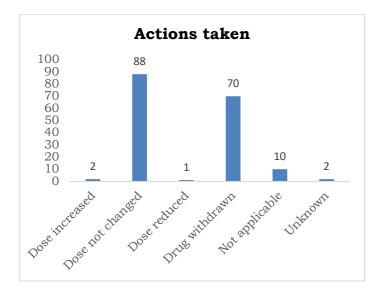


Of the total reports received on SADRs, (12.9 %) were classified as severe while majority were moderate (47%).

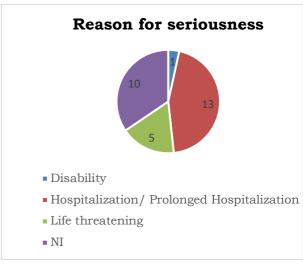




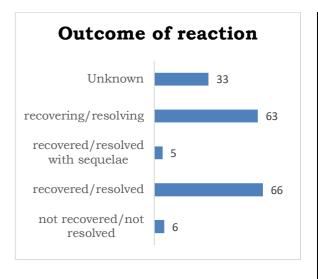
Of the total reports received in SADRs, 69.4% were classified as serious.



Actions taken by the health care workers Most of the reported SADR cases had included; withdrawal of the offending drug recovered (36%). 19 % of the reports (40.4%).50.8 % reported that no change in had no outcome indicated on them dosage was made while, 1.16% did not indicate the action taken.



Out of the serious reactions reported, hospitalization (44.8%) was the major reason for seriousness.



Reporting facilities

Facility		Numbe r of report s n=173	Frequency
The	Mater		
Hospital			
Mukuru		~ .	19.7

Reporting counties

County	Number of reports. n=173	Frequenc y (%)
Siaya	60	34.6
Nairobi		22.5
County	39	
Kakamega	9	5.2
Kirinyaga	9	5.2



77.1		_
Yala Sub-		
District		
Hospital	27	15.6
EMMAH		
RANDIKI	22	12.7
Taveta District		
Hospital	8	4.6
Kibwezi Sub		
District		
Hospital	7	4.0
Navakholo		
Sub-District		
Hospital	5	2.8
Kirinyaga		
county	4	2.3
Migori District		
Hospital	3	1.7
AMBIRA SCH	3	1.7
Kilifi District	_	
Hospital	2	1.2
Lumakanda	_	
District		
Hospital	2	1.2
Malindi District	4	1,2
Hospital	2	1.2
Maralal		1,4
District		
Hospital	2	1.2
Muhuru Health	4	1.4
Centre	2	1.2
	4	1.4
Njegas	2	1.0
Dispensary		1.2
Sega		1.0
Dispensary	2	1.2
Siaya District		1.0
Hospital	2	1.2
Ambira Sub-		
District	1	0.6
Hospital	1	0.6
Arombe		0.6
Dispensary	1	0.6
Bahati District	1	0.6
Hospital	1	0.6
Bristol park		
hospital	1	0.6
Cheptais Sub		
District		
Hospital	1	0.6
Chulaimbo		
Sub District		
Hospital	1	0.6
Dreams Center		
Dispensary		
(Lang'ata)	1	0.6
Emali Health		
Centre	1	0.6
-		

Makueni	9	5.2
Migori	8	4.6
Taita Taveta	8	4.6
Kiambu	5	2.89
Kilifi	4	2.3
Mombasa	3	1.7
Nakuru	3	1.7
Embu	2	1.2
Kisii	2	1.2
Kisumu	2	1.2
Meru	2	1.2
Samburu	2	1.2
Bung'oma	1	0.6
Kericho	1	0.6
Murang'a	1	0.6
Nandi	1	0.6
Nyeri	1	0.6
West Pokot	1	0.6
Total		
	170	

reports 173

SADR reports were received from 22 of the 47 counties. Siaya county submitted the highest number of SADR reports (60) followed by Nairobi (39), Kakamega (9), Kirinyaga (9) and (9).The other reporting Makueni counties with less than 3 reports were Embu, Kisii, Kisumu, Meru, Samburu, Kericho, Bungoma, Murang'a and Nandi.



		_
Embu		
Provincial		
General		
Hospital	1	0.6
Gatundu		
District		
Hospital	1	0.6
Gesusu Sub-	1	0.0
District		
	1	0.6
Hospital	1	0.6
GOODLIFE		
PHARMACY	_	0.6
LIMITED	1	0.6
Got Agulu Sub-		
District		
Hospital	1	0.6
IQVIA	1	0.6
Kaboi	_	0.0
Dispensary	1	0.6
	1	0.0
Kapenguria District		
	1	0.6
Hospital	1	0.6
Kapkatet		
District		
Hospital	1	0.6
Kehancha		
Subcounty		
Hospital	1	0.6
Kenyatta		
University		
Teaching		
Referral and		
Research		
Hospital	1	0.6
Kiambu		
District		
Hospital	1	0.6
Kijabe (AIC)	1	0.0
Hospital	1	0.6
	1	0.0
Kisii Hospital	1	0.6
(Level 5)	1	0.6
Likoni District		
Hospital	1	0.6
Madiany Sub		
District		
Hospital	1	0.6
Makueni		
District		
Hospital	1	0.6
Mama Lucy		
Kibaki Hospital		
- Embakasi	1	0.6
Matete Health	_	J.U
Centre	1	0.6
Meru District	1	0.0
	1	0.6
Hospital	1	0.6



	T	T
Miathene		
District		
Hospital	1	0.6
MUMIAS		
LEVEL IV		
HOSPITAL	1	0.6
Murang'a		
District		
Hospital	1	0.6
Mutithi Health		
Centre	1	0.6
Nakuru		
Provincial		
General		
Hospital (PGH)	1	0.6
Nazareth		
Hospital	1	0.6
Nguka		
Dispensary	1	0.6
Nyeri		
Provincial		
General		
Hospital (PGH)	1	0.6
Port Reitz		
District		
Hospital	1	0.6
Rongo District		
Hospital	1	0.6
Sagana Rural		
Health		
Demonstration		
Centre	1	0.6
Social service		
league Mp.		
Shah Hospital	1	0.6
St Clare Bolo		
Health Centre	1	0.6
St. Anthony	1	0.6
Tudor District		
Hospital		
(Mombasa)	1	0.6
Uradi Health		
Centre	1	0.6
	•	•

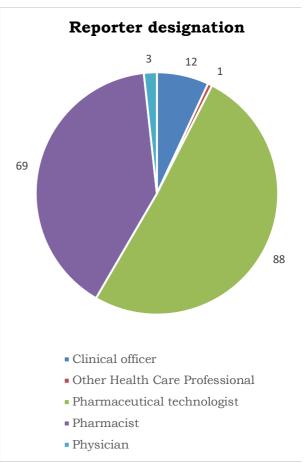
In this 3rd and 4th Quarter, only 61 facilities out of the 9,000 facilities listed in the Kenya Master facility reported SADRs. 6 facilities reported at least 5 reports and above. The top leading facilities were The Mater Hospital Mukuru with 34 reports (19.7%), followed by Yala Sub-District Hospital 27 reports (15.6 %) , Emmah Randiki Hospital 22 reports (12.7%) ,Taveta Hospital 8 reports District (4.6)



%),Kibwezi subdistrict Hospital 7 reports (4.0%) and Navakholo Sub-District Hospital .

Below is a list of top 14 facilities

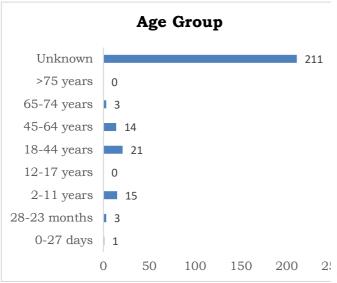
S/No	Facility	Reports
1	The Mater Hospital	34
	Mukuru	
2	Yala Sub-District Hospital	27
3	EMMAH RANDIKI	22
4	Taveta District Hospital	8
5	Kibwezi Sub District	7
	Hospital	
6	Navakholo Sub-District	5
	Hospital	
7	Kirinyaga county	4
8	Migori District Hospital	3
9	AMBIRA SCH	3
10	Kilifi District Hospital	2
11	Lumakanda District	2
	Hospital	
12	Malindi District Hospital	2
13	Maralal District Hospital	2
14	Muhuru Health Centre	2

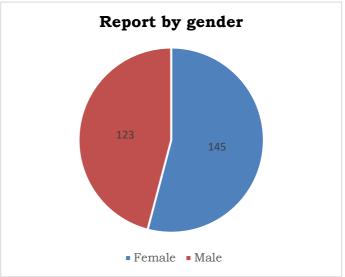


Majority of the reports (50.8%) of the reports were submitted by Pharmaceutical technologists while non-health professionals submitted 0.6% of the reports.

Adverse Events Following Immunizations (AEFIs)

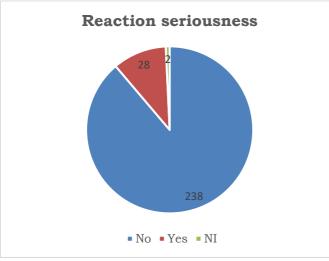


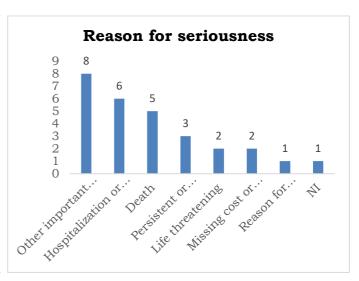




The incidence of AEFIs was highest amongst the adult age group (18-44 and 45-64) in comparison to the others. 78.7 % of the total reports did not have age indicated.

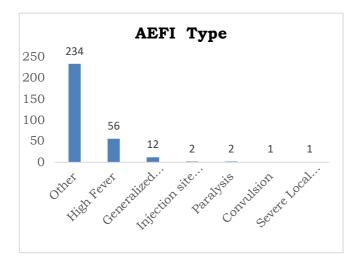
The frequency of reported AEFIs was higher in female (54%) compared to male.

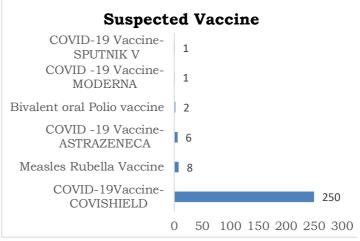




Of the total reports received in AEFI, 10.4 % were classified as serious.

Out of the serious reactions reported, hospitalization (21.4%) was the major reason for seriousness.

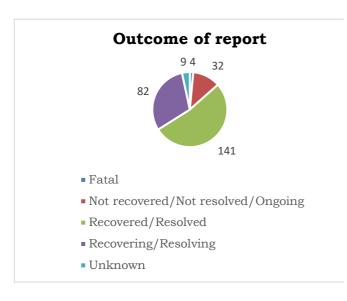


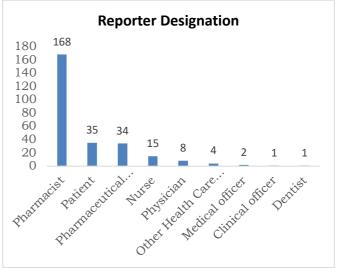




high fever and urticaria.

Most commonly reported AEFIs type were The most commonly reported vaccine causing adverse reactions was Covid-19 Vaccine-Covishield (93%), Measles Rubella Vaccine (2.98%) followed by Covid -19 Vaccine- Astrazeneca (2.2%), Bivalent oral Polio vaccine (0.8%), Covid -19 Vaccine-Moderna (0.3%) and Covid-19 Vaccine-Sputnik V (0.3%).





Most of the reported AEFIs cases had Majority of the reports (62.6%) the reports had no outcome indicated on reports submitted. them.

either recovered 52.6 % or were e were submitted by pharmacists while nonrecovering 30.5% respectively. 3.4 % of health professionals submitted 1.49 % of the

	Frequenc y	Proportio
Facilities	n=268	n (%)
Embu		
Provincial		
General		
Hospital	49	18.3
Webuye		
Hospital	27	10.1
Kakamega		
Provincial		
General		
Hospital		
(PGH)	20	7.5
Uasin Gishu		
District		
Hospital	18	6.7
Kilifi District		
Hospital	12	4.5

	Numbe	
	r of	
	reports	Frequenc
County	n=268	у (%)
Kakamega	55	20.6
Embu	49	18.4
Nairobi County	32	12.0
Bung'oma	28	10.5
Uasin Gishu	27	10.1
Kilifi	12	4.5
Kirinyaga	11	4.1
Machakos	11	4.1
Kiambu	10	3.7
Mombasa	5	1.9
Turkana	5	1.9
Garissa	3	1.1
Kisumu	3	1.1
Nyeri	3	1.1
Kajiado	2	0.7



Lumakanda		
District		
Hospital	12	4.5
Machakos		
Level 5		
Hospital	8	3.0
Kerugoya		
District		
Hospital	7	2.6
National		
Vaccines		
program	6	2.2
Kijabe (AIC)		
Hospital	5	1.9
Mama Lucy		
Kibaki		
Hospital -		
Embakasi	5	1.9
Burnt Forest		
RHDC		
(Eldoret East)	4	1.5
Coast		
General		
Teaching &		
Referral		
Hospital	4	1.5
Iguhu		
District		
Hospital	4	1.5
Kiambu		
District		
Hospital	4	1.5
Kirinyaga		
county	4	1.5
Likuyani		
Sub-District		
Hospital	4	1.5
Lopiding		
Sub-District		
Hospital	4	1.5
Mumias		
Dispensary	4	1.5
Kayole II		
Sub-District		
Hospital	3	1.1
Kesses		
Health		
Centre	3	1.1
Malava		
District		
Hospital	3	1.1
-		

Murang'a	2	0.7
Siaya	2	0.7
Homa Bay	1	0.4
Kisii	1	0.4
Laikipia	1	0.4
Makueni	1	0.4
Nakuru	1	0.4
Taita Taveta	1	0.4
Wajir	1	0.4

Additionally, AEFIs reports were received from 24 of the 47 counties. Kakamega submitted county the highest number of AEFI reports (55) followed by Embu (49), Nairobi County (32), Bungoma (28) and Uasin Gishu (27). The other reporting counties with less than 3 reports were Kajiado ,Murang'a ,Siaya ,Homabay Laikipia Makueni ,Kisii, ,Taita Taveta ,Wajir Nakuru.



35 1 9 1		_
Mumias Sub-		
District		
Hospital		
(Matungu)	3	1.1
Special		
Treatment		
Clinic	3	1.1
Butere		
District		
Hospital	2	0.7
Kajiado		
District		
Hospital	2	0.7
Navakholo	4	0.1
Sub-District		
		0.7
Hospital	2	0.7
Nyeri		
Provincial		
General		
Hospital		
(PGH)	2	0.7
Umoja Health		
Centre	2	0.7
UNON Joint		
Medical		
Service	2	0.7
bliss medical		
center	1	0.4
Bondo		
District		
Hospital	1	0.4
Cheptais Sub	_	0.1
District		
Hospital	1	0.4
	1	0.4
Chiga	1	0.4
Dispensary	1	0.4
Garissa		
Provincial		
General		
Hospital		
(PGH)	1	0.4
Gatundu		
District		
Hospital	1	0.4
Hagadera		
Hospital	1	0.4
Henry		
Amdany	1	0.4
International		
Rescue		
Committee	1	0.4
		J. 1



77 1		
Kakuma		
Health		
Centre	1	0.4
Kalala		0.4
Dispensary	1	0.4
Kangundo		
District		
Hospital	1	0.4
Karen		
surgery	1	0.4
Kemri		
wellcome		
trust		
research		
programme	1	0.4
Kigumo		
Health		
Centre		
(Muranga		
South)	1	0.4
Kisii Hospital		
(Level 5)	1	0.4
Kombewa		
District		
Hospital	1	0.4
Madiany Sub		
District		
Hospital	1	0.4
Makueni		
District		
Hospital	1	0.4
Mama Vero		
Clinic	1	0.4
Mathare		
North Health		
Centre	1	0.4
Matuu		
District		
Hospital	1	0.4
Mautuma		
Sub-District		
Hospital	1	0.4
Mbagathi		
District		
Hospital	1	0.4
Mogotio		
RHDC	1	0.4
Murang'a		
District		
Hospital	1	0.4



		_
Nanyuki		
District		
Hospital	1	0.4
Provide		
International		
Kayole Clinic	1	0.4
Rangwe		
subcounty		
hospital	1	0.4
Ruaraka		
Uhai Neema		
Hospital	1	0.4
self	1	0.4
Sex Workers	1	0.1
Operation		
Project		
(SWOP)	1	0.4
social service	1	0.4
league Mp.		
Shah		
Hospital	1	0.4
St Elizabeth	1	0.4
Chiga Health Centre	1	0.4
Taveta	1	0.4
District		
Hospital	1	0.4
Tridem	1	0.4
Pharma		
Kenya	1	0.4
Limited	1	0.4
Tudor		
District		
Hospital	1	
(Mombasa)	1	0.4
Tumutumu		
(PCEA)	1	
Hospital	1	0.4
Wajir District	1	
Hospital	1	0.4
Ziwa Sub-		
District	1	
Hospital	1	0.4
Total Reports	268	

In this 3rd Quarter, only 70 facilities out of the 9,000 facilities listed in the Kenya Master facility reported AEFIs.11 facilities reported at least 5 reports and above. The top leading facilities were Embu Provincial General

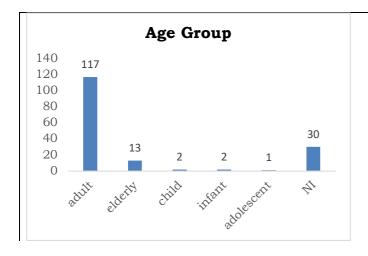


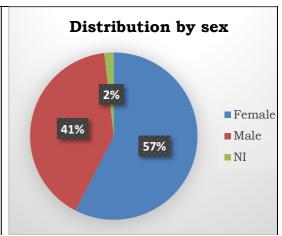
Hospital 49 reports (18.3%), Webuye Hospital 27 Reports (10.1%), Kakamega Provincial General Hospital (PGH) 20 reports (7.5%), Uasin Gishu District Hospital 18 reports (6.7%), Kilifi District Hospital and Machakos Level 5 Hospital 12 reports each (4.5%).

Below is a list of top 14;

	Name of facility	Frequency	Proportion
1	Embu Provincial General Hospital	49	18.3
2	Webuye Hospital	27	10.1
	Kakamega Provincial General		
3	Hospital (PGH)	20	7.5
4	Uasin Gishu District Hospital	18	6.7
5	Kilifi District Hospital	12	4.5
6	Lumakanda District Hospital	12	4.5
7	Machakos Level 5 Hospital	8	3.0
8	Kerugoya District Hospital	7	2.6
9	National Vaccines program	6	2.2
10	Kijabe (AIC) Hospital	5	1.9
	Mama Lucy Kibaki Hospital -		
11	Embakasi	5	1.9
12	Burnt Forest RHDC (Eldoret East)	4	1.5
	Coast General Teaching & Referral		
13	Hospital	4	1.5
14	Iguhu District Hospital	4	1.5

Public Adverse Reactions (PADRs)





The frequency of reported PADRs was higher in female (57%) compared to male.



The incidence of PADRs was highest amongst the adult age group (70.9%) in comparison to the others. 18.1% of the total reports did not have age indicated

Suspected medicine	Freque ncy (n=165)	Proport ion (%)
AstraZeneca Astra	52	31.5
CovidshieldAs	63	38.2
ALTEPLASE	1	0.6
Amoxicillin+ Flucloxacillin	1	0.6
Azithromycin; Zinc Sulfate; Vitamin C; Vitamin D; Paracetamol; Ascard; Montel	1	0.6
cortrimoxazole; TDF/3TC/ATVr	1	0.6
cotrimoxazole 240MG/5M SYRUP	1	0.6
COTRIMOXAZOLE 960MG	2	1.2
COTRIMOXAZOLE; TDF/3TC/DTG	2	1.2
DOLUTEGRAVIR	2	1.2
flagyls	1	0.6
FLUCONAZOLE TABS	1	0.6
Gresiovulvin	1	0.6
Isonizid,Ethambutol,Pyrazinamid e,Rifampicin	2	1.2
MYOCOR	2	1.2
myospaz,rilif MR (chlorzoxazone)	1	0.6
OMNISCON CONTRAST MEDIA	2	1.2
oninjecti Ceftriaxone	1	0.6
Oral Polio Monovalent	1	0.6
PLAZO(AZITHROMYCIN 500 MG)	1	0.6
Profen 400	1	0.6
RHZE/Pyridoxine	1	0.6
sucrafil o gel	1	0.6
TdfTeno	1	0.6
VANCOLON-vancomycin	2	1.2
VEDROX 500	1	0.6
VENTAB XL 75	1	0.6
NI	18	10.9
TOTAL	165	

Commonly reported PADRs	
Vomiting or diarrhea	18
Dizziness or	
drowsiness	61
Headache	81
Joints and muscle	
pain	81
Rash	38
Pain or bleeding in the	
mouth	3
Pain in the stomach	28
Abnormal changes	
with urination	4
Red/ painful eyes	12
Patient died	4
	330

Most commonly reported PADR reactions were joint and muscle pain, headache, dizziness or drowsiness, rash and pain in the stomach.

The most commonly reported suspected medicine causing adverse reactions was Covidshield (38.2 %) and AstraZeneca Astra (31.5 %)

	Numbe	Frequen
County	r of	cy (%)



	1 -	
	report	
Nairobi	S	
- 100 0 10 -	0.2	FO 2
County	83	50.3
Kisumu	10	6.1
Nakuru	10	6.1
Kiambu	9	5.5
Machakos	8	4.8
Siaya	9	5.5
Nyeri	7	4.2
Kilifi	5	3.0
Mombasa	3	1.8
Migori	3	1.8
Uasin		
Gishu	3	1.8
Bung'oma	3	1.8
Kajiado	2	1.2
Kakamega	1	0.6
Kirinyaga	2	1.2
Narok	1	0.6
Busia	1	0.6
Embu	1	0.6
Kericho	1	0.6
Laikipia	1	0.6
Murang'a	1	0.6
Vihiga	1	0.6

TOTAL 165 100.0

Additionally, PADR reports were received from 23 of the 47 counties. Nairobi county submitted the highest number of PADR reports (83) followed by Kisumu (10), Nakuru (10), Kiambu (9) and Machakos (8). The other reporting counties with less than 3 reports were Kajiado, Kakamega, Kirinyaga, Narok, Busia, Embu, Kericho, Laikipia, Murang'a and Vihiga.

Medication Errors

5 reported events, 2 from Kenyatta National Hospital, 2 from Yala-Sub District Hospital and 1 from Lodwar.

Event affected 3 adults and the other 2 were unknown. 4 of the errors occurred at prescribing stage and 1 at administration. 4 errors did not reach the patient as they were intercepted.

Medical device incidence

- 3 reported events from Laikipia
- 2 females and 1 male had mild reaction to intravenous canula product defect.
- 2 are recovering 1 has unknown outcome.

Transfusion reactions (Hemovigilance)

1 reported event



Male adolescent who had visceral leishmaniasis and was being transfused to raise hemoglobin levels do as to start Kal Azar treatment.

Abbreviations: PPB = Pharmacy & Poisons Board; PV = Pharmacovigilance; sADR = suspected Adverse Drug Reaction; PQMP = Poor Quality Medicinal Product; PVERS = PV Electronic Reporting System, SOC = System Organ Classification

For any queries please contact PV department on pv@pharmacyboardkenya.org or call 0795743049.

This document is produced by the National Pharmacovigilance Center

Data sources: PPB PV Center; WHO VigiLyze Database (NB: the information does not represent the opinion of the World Health Organization)