

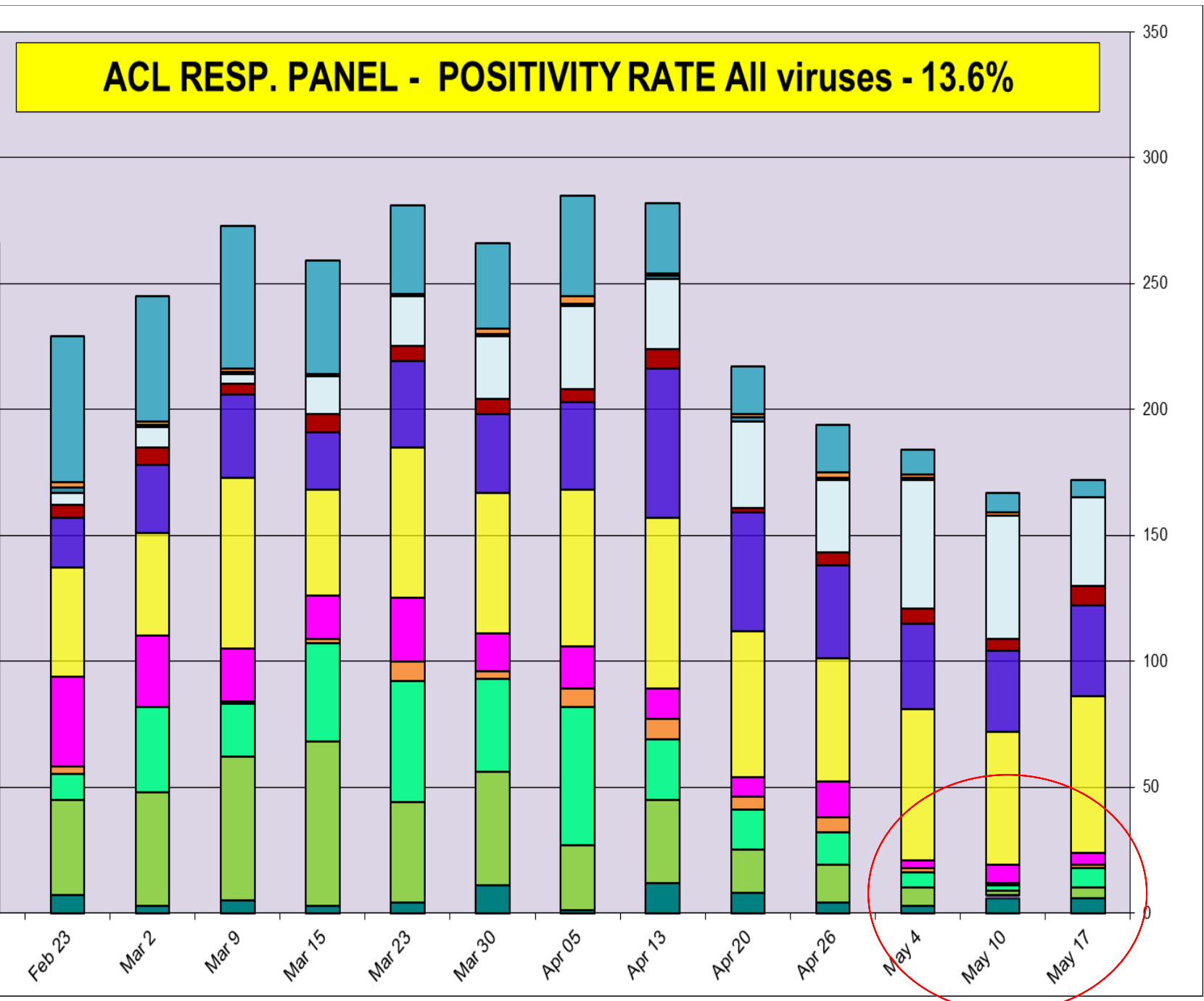
Respiratory Pathogens Feb 15 - May 17 2019

Week	InfA-H1	InfA-H3	2009 H1N1	Inf B	RSV	All Para	EV / Rhino	Meta pneumo	Adeno	All Corona	Bocca	Myco plasma	Chla mydia	Total Pos	POS FLU	Total	ACL %FLU	US %FLU	IL/WI PCR	Sofia EIA
May 17	0	8	4	1	5	35	62	36	8	7	6	0	0	172	13	1268	1.0	n/a	n/a	7.4
May 10	1	2	2	1	7	49	53	32	5	8	6	0	1	167	6	1028	0.6	3.7	6.5	7.2
May 4	0	6	7	2	3	51	60	34	6	10	3	1	1	184	15	761	2.0	4.7	8.2	
Apr 26	0	13	15	6	14	29	49	37	5	19	4	1	2	194	34	800	4.3	5.4	12.5	
Apr 20	0	16	17	5	8	34	58	47	2	19	8	2	1	217	38	827	4.6	8.1	17.5	16.6
Apr 13	0	24	33	8	12	28	68	59	8	28	12	1	1	282	65	893	7.3	11.8	22.7	20.3
Apr 05	0	55	26	7	17	33	62	35	5	40	1	1	3	285	88	893	9.9	15.1	26.7	23.7
Mar 30	0	37	45	3	15	25	56	31	6	34	11	1	2	266	85	936	9.1	18.1	29.8	26.6
Mar 23	0	48	40	8	25	20	60	34	6	35	4	0	1	281	96	984	9.8	22.1	30.4	28.9
Mar 15	0	39	65	2	17	15	42	23	7	45	3	0	1	259	106	1076	9.9	26.0	29.5	29.4
Mar 9	0	21	57	1	21	4	68	33	4	57	5	1	1	273	79	1011	7.8	25.8	29.2	28.9
Mar 2	0	34	45	0	28	8	41	27	7	50	3	1	1	245	79	961	8.2	26.1	28.0	27.2
Feb 23	0	10	38	3	36	5	43	20	5	58	7	2	2	229	51	908	5.6	26.7	22.3	26.5
Feb 15	0	5	47	2	61	11	40	31	9	50	8	1	1	266	54	807	6.7	24.6	19.3	20.7

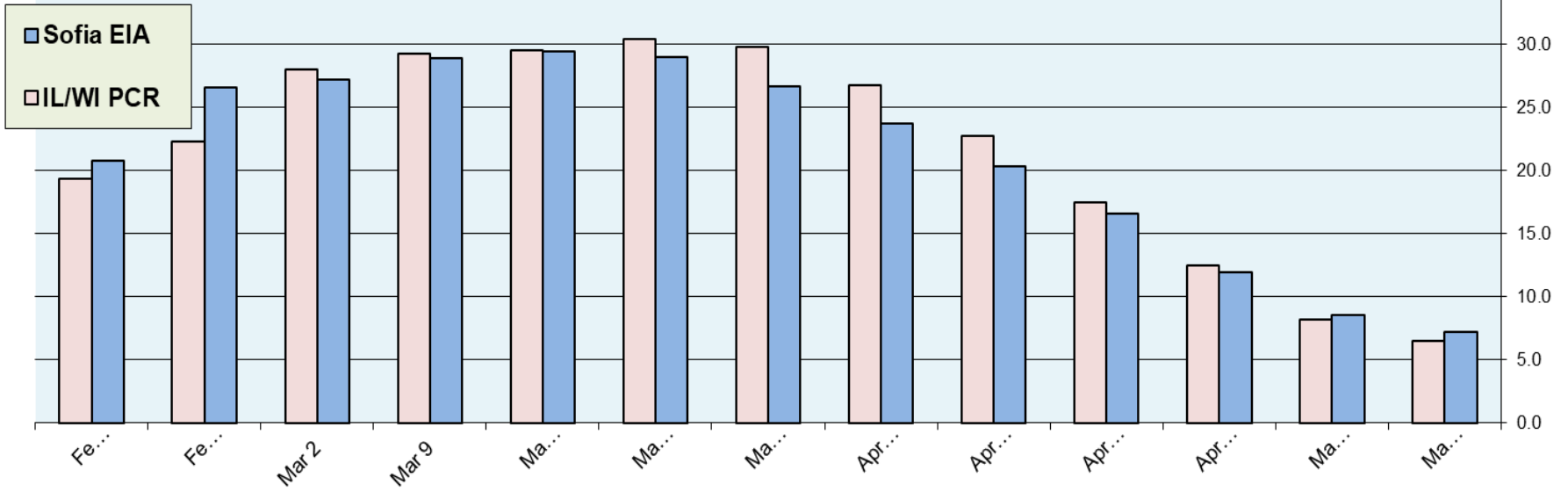
Flu PCR
% Rate

ACL RESP. PANEL - POSITIVITY RATE All viruses - 13.6%

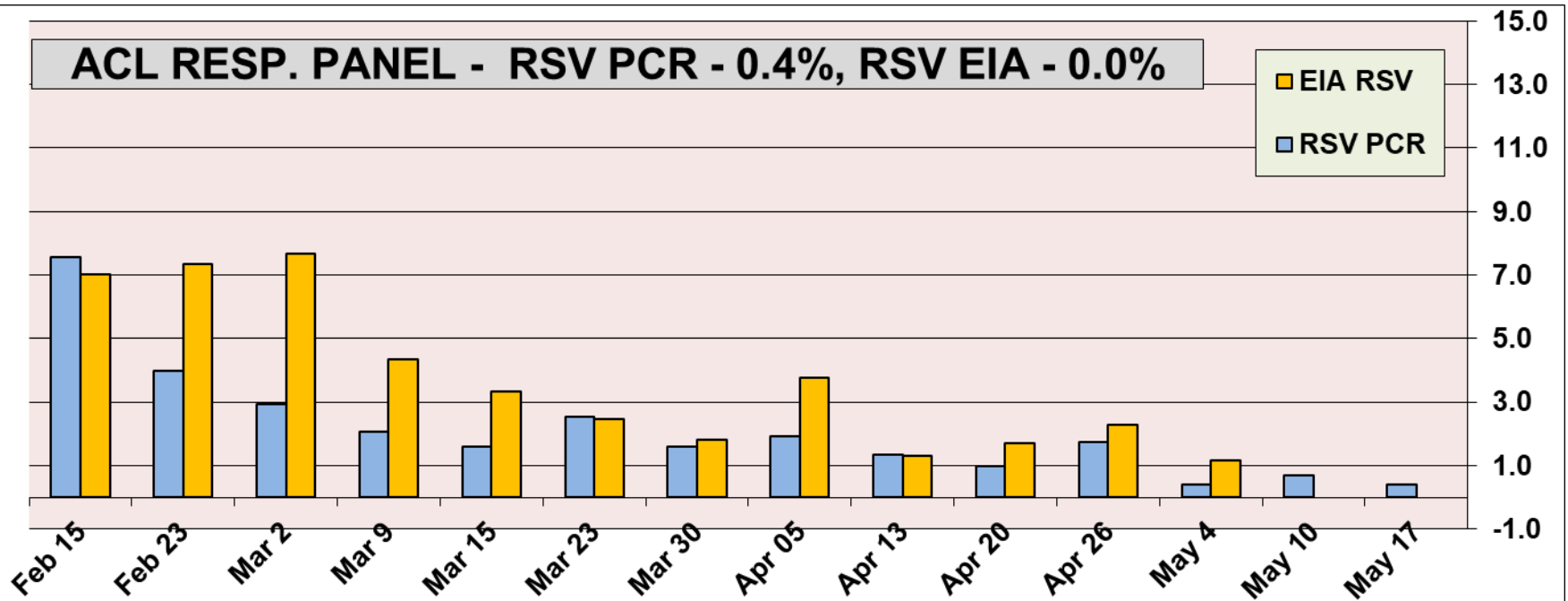
- All Corona
- Chla mydia
- Myco plasma
- All Para
- Adeno
- Meta pneumo
- EV / Rhino
- RSV
- Inf B
- InfA-H3
- 2009 H1N1
- InfA-H1
- Bocca



Regional IL/WI - FLU PCR 1.0% vs. ACL EIA 7.4% correlation



ACL RESP. PANEL - RSV PCR - 0.4%, RSV EIA - 0.0%



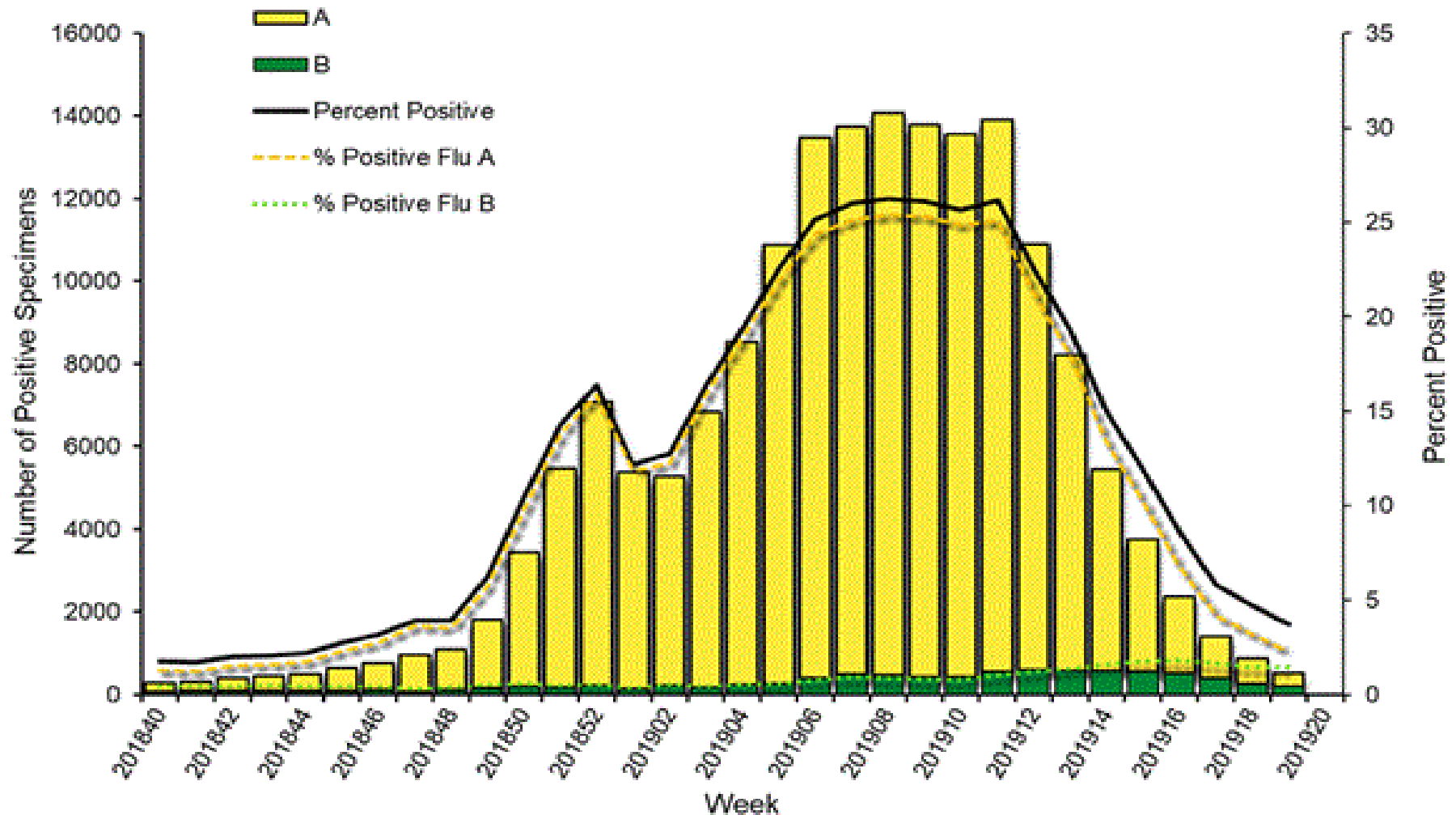
Correlation between RPPNL (FLU PCR) and Sofia (FLUAG) - Accuracy is 94%

In last three months, a 2861 samples were tested by both methods most of them negative, 160/2861 samples were positive by EIA when confirmed by PCR. 159 negative EIA samples were tested positive by PCR method. *(ACL correlation data is compiled on samples collected within <48 h). Since positive rate is under-represented and provides correlation on very small fraction of positive samples – interpret clinical sensitivity with caution.*

02/02/19 to 05/11/2019				
FLUAG (Sofia) vs RPPNL (PCR) correlation				
		RPPNL		
		+	-	Total
FluAG	+	160	4	164
	-	159	2538	2697
		Total		2861
%				
50.2	Clinical Sensitivity			
99.8	Clinical Specificity			
97.6	Positive Predictive Value (PPV)			
94.1	Negative Predictive Value (NPV)			
94.3	Accuracy			

May 11, 2019 Positivity rate 3.7% - Flu A – 61% , Flu B – 39%

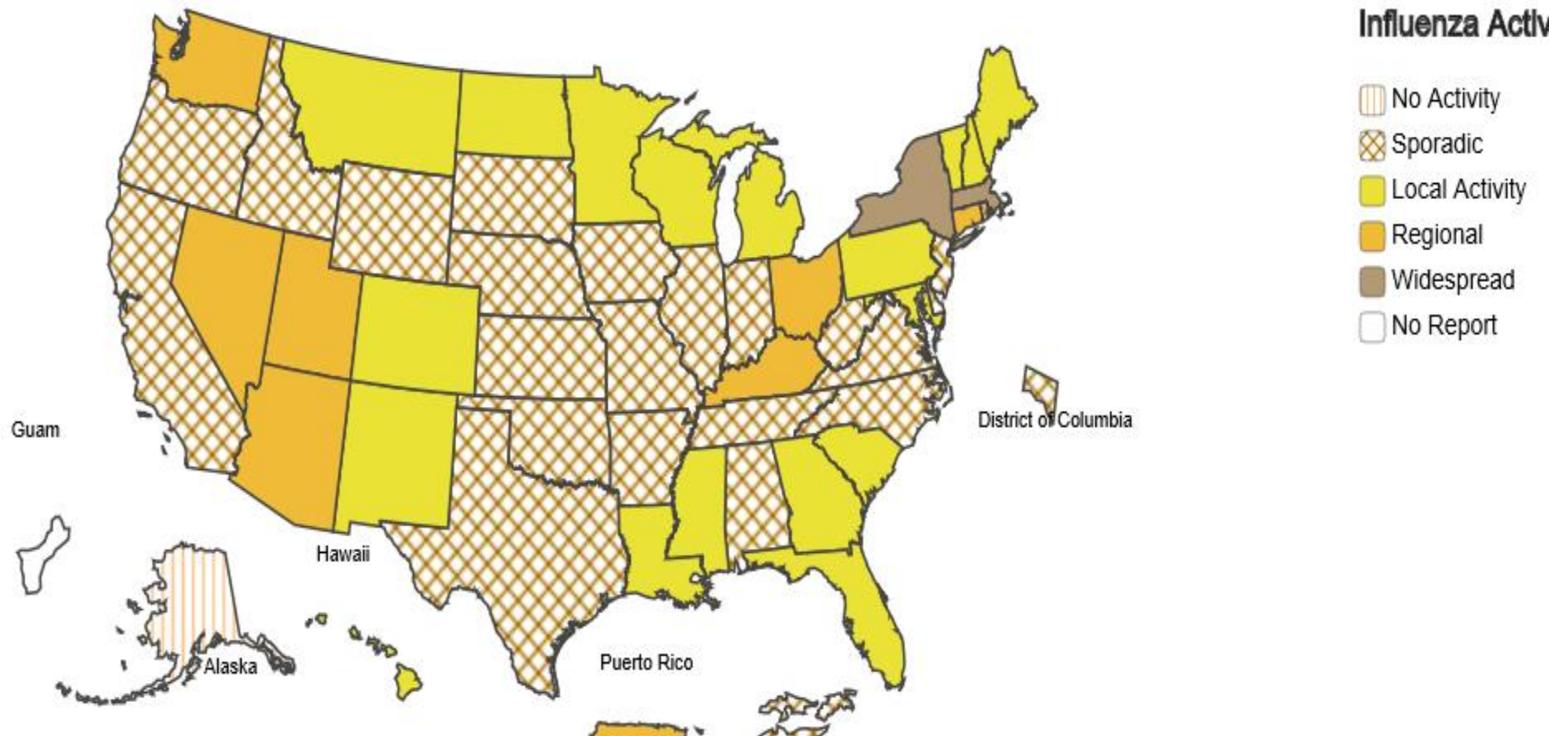
Influenza Positive Tests Reported to CDC by U.S. Clinical Laboratories, National Summary, 2018-2019 Season



A Weekly Influenza Surveillance Report Prepared by the Influenza Division

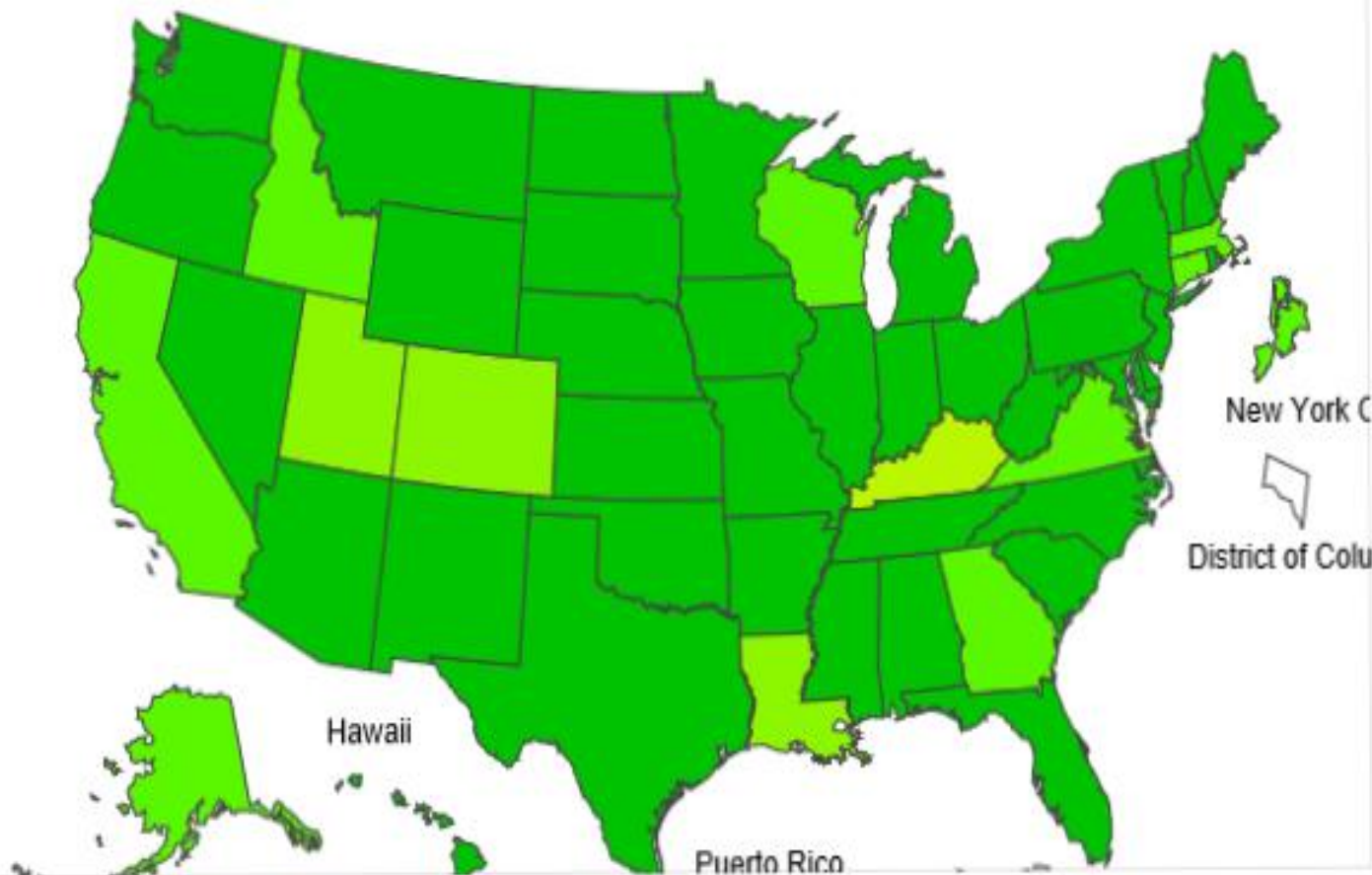
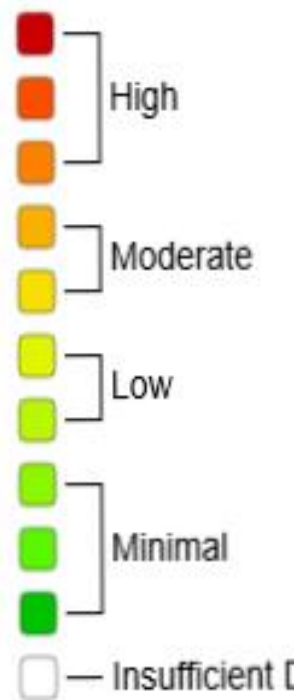
Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists*

Week Ending May 04, 2019 - Week 18

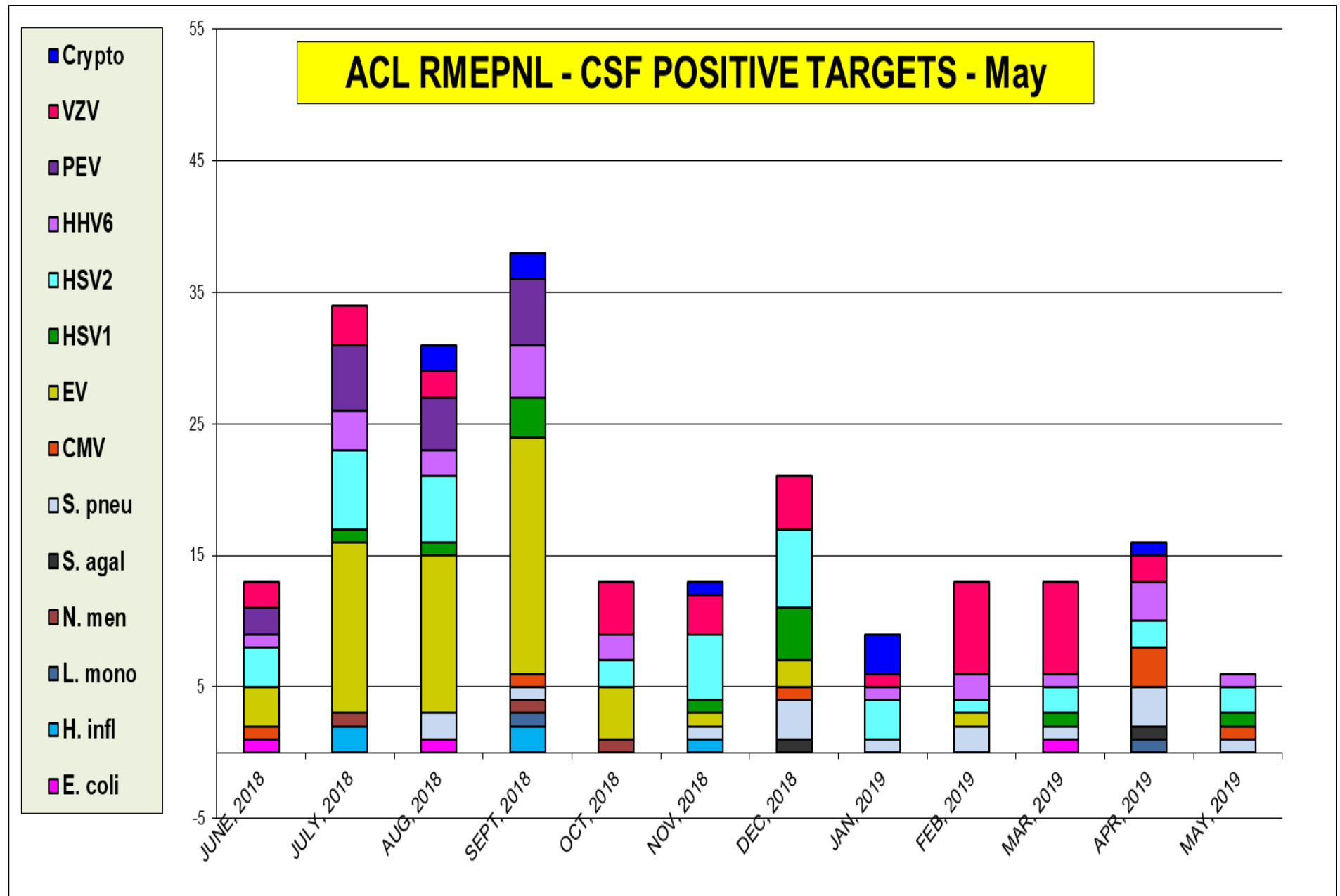


2018-19 Influenza Season Week 19 ending May 11, 2019

ILI Activity

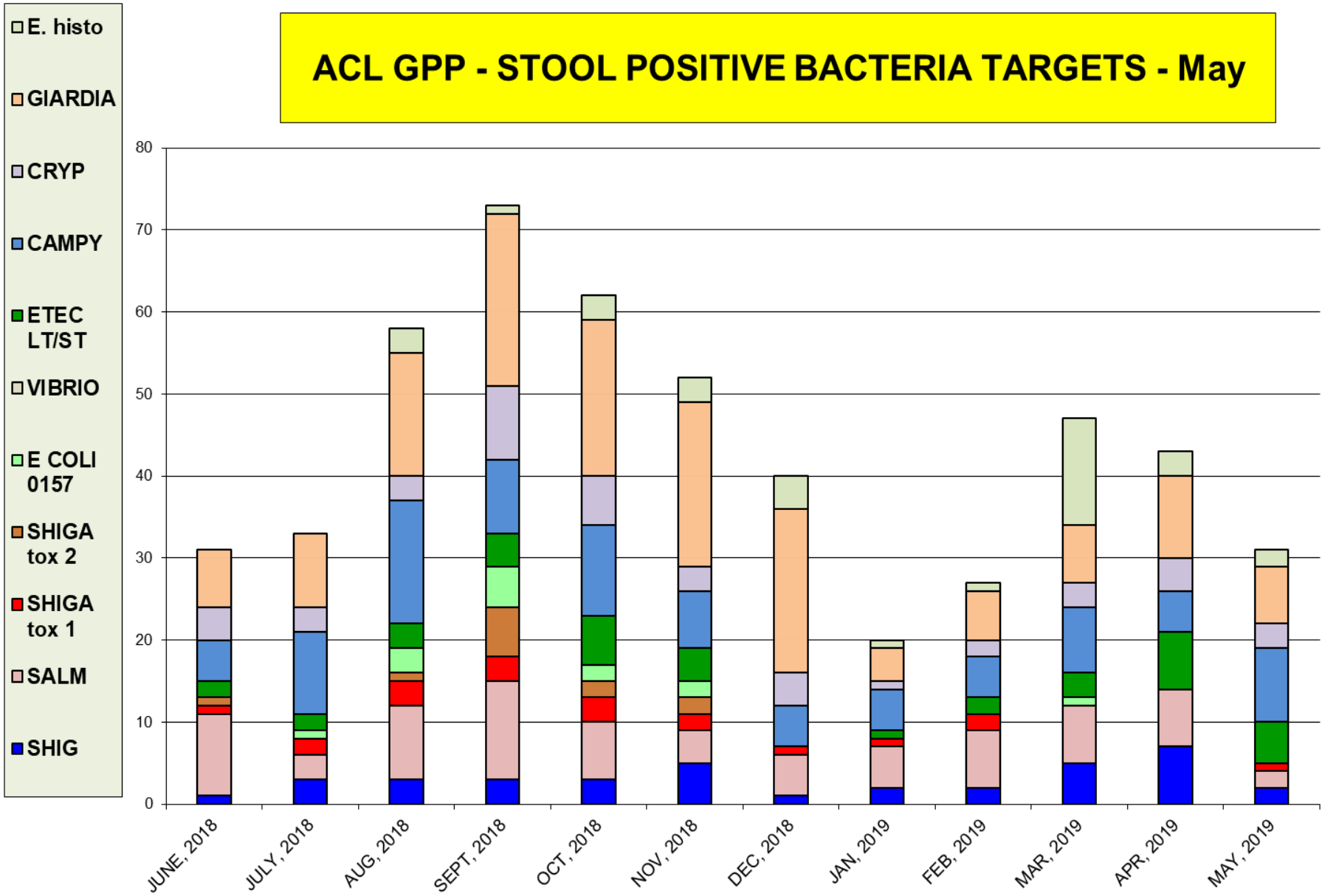


The most prevalent targets was HSV 2 – total pos. rate 5.6 %

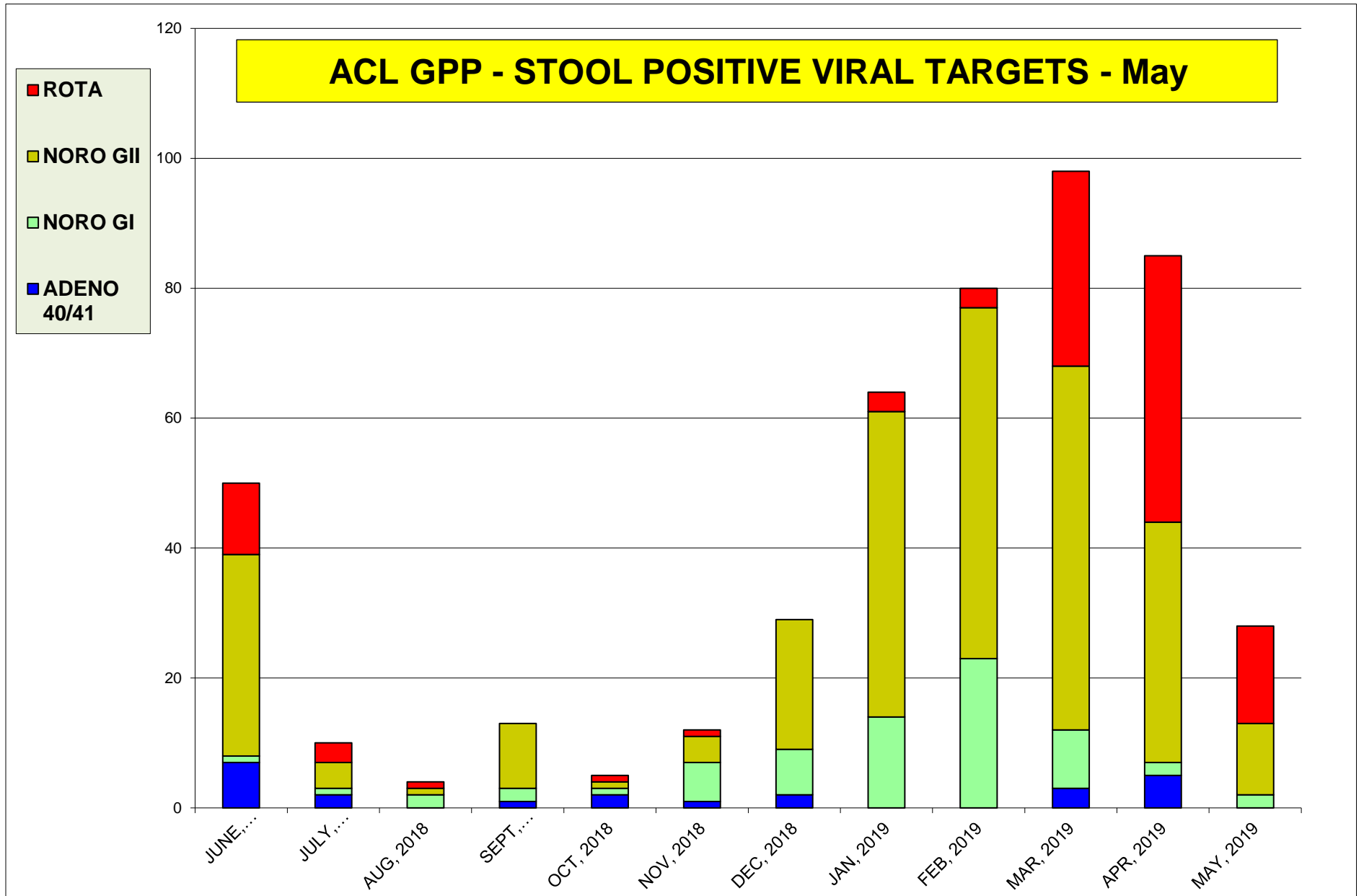


The most prevalent bacterial targets was **Campylobacter**

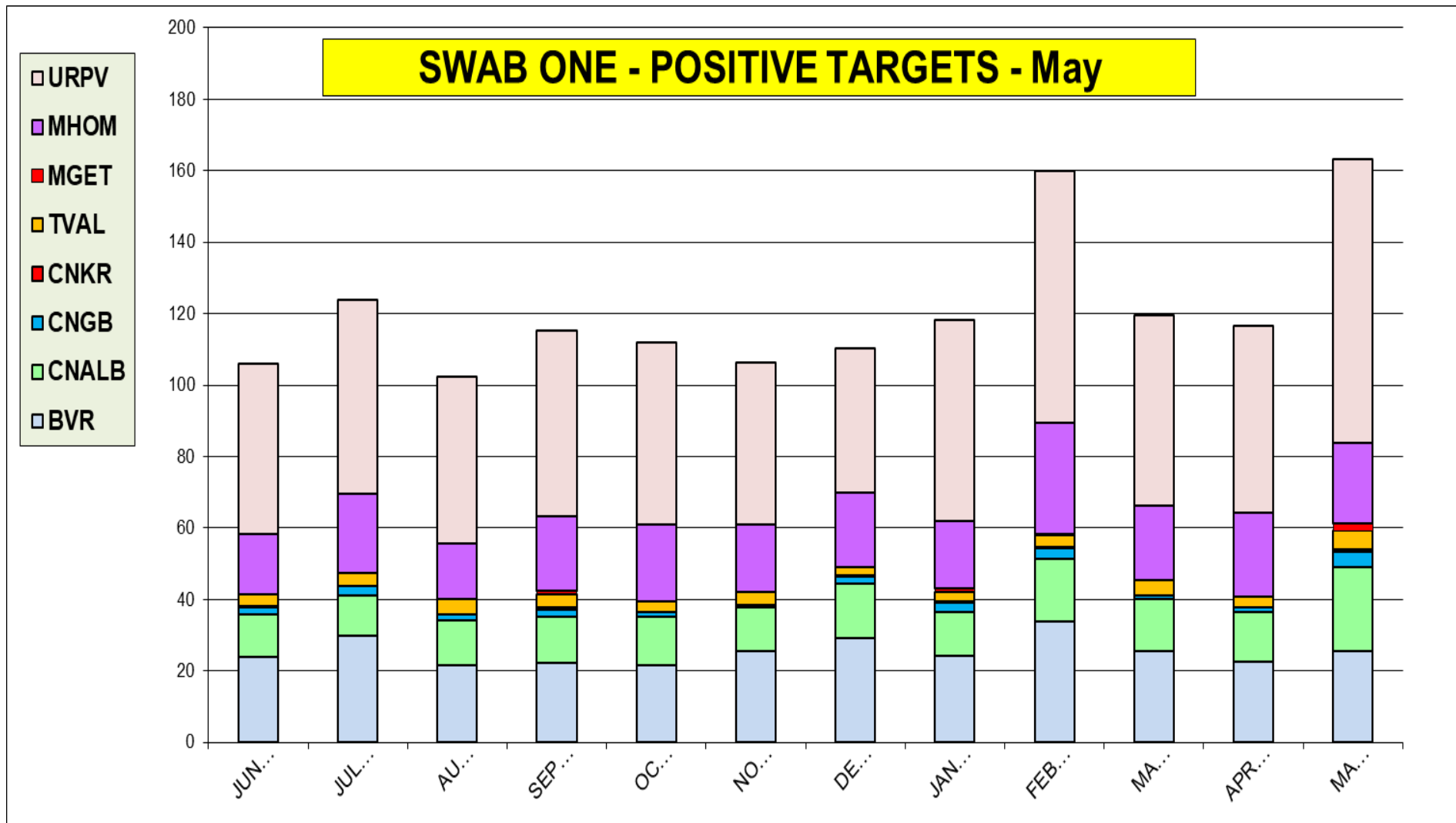
ACL GPP - STOOL POSITIVE BACTERIA TARGETS - May



The most prevalent virus target was **Rotavirus (6.1%) pos. rate**



BV	C.ALB	C.GLB	C.KUR	T.VAG	M.GEN	M.HOM	U.PAV	Tot. pos.
4,899	4,655	4,655	4,655	4,600	2,242	2,242	2,242	4,954
25.8	15.0	2.0	0.3	3.7	0.3	21.7	54.0	79.6



Neuraminidase Inhibitors Resistance in samples collected – as of May 11, 2019

Per CDC website	Oseltamivir		Peramivir		Zanamivir	
	Virus Samples tested (n)	Resistant Viruses, (%)	Virus Samples tested (n)	Resistant Viruses, (%)	Virus Samples tested (n)	Resistant Viruses, (%)
Influenza A (H1N1)pdm09	1183	0.3	1183	0.3	1183	0
Influenza A (H3N2)	969	0	969	0	969	0
Influenza B	395	0	395	0	395	0

There is 0.1% resistance detected.