# Respiratory Pathogens - June 29 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
June 29	0	1	1	1	1	26	54	17	9	0	1	1	0	112	3	694	0.4	2.5	1.5	3.1
June 21	0	0	2	0	0	25	61	23	10	4	3	1	0	129	2	718	0.3	2.1	0.9	2.2
June 14	0	1	0	0	2	33	59	26	5	0	6	0	0	132	1	754	0.1	2.6	1.6	2.6
June 07	0	2	1	0	3	33	62	24	5	2	3	1	0	136	1	630	0.2	2.9	1.7	2.4
Jun 01	0	0	1	0	4	37	60	31	7	4	5	0	0	149	1	743	0.1	3.1	2.1	2.6
May 24	0	2	3	3	2	50	100	35	9	7	5	0	3	219	8	1045	0.8	3.1	3.2	3.7
May 17	0	8	4	1	5	35	62	36	8	7	6	0	0	172	13	1268	1.0	3.1	4.7	5.6
May 10	1	2	2	1	7	49	53	32	5	8	6	0	1	167	6	1028	0.6	3.1	6.5	7.2
May 4	0	6	7	2	3	51	60	34	6	10	3	1	1	184	15	761	2.0	3.1	8.2	8.5
Apr 26	0	13	15	6	14	29	49	37	5	19	4	1	2	194	34	800	4.3	3.1	12.5	12.0
Apr 20	0	16	17	5	8	34	58	47	2	19	8	2	1	217	38	827	4.6	3.1	17.5	16.6
Apr 13	0	24	33	8	12	28	68	59	8	28	12	1	1	282	65	893	7.3	3.1	22.7	20.3
Apr 05	0	55	26	7	17	33	62	35	5	40	1	1	3	285	88	893	9.9	3.1	26.7	23.7
Mar 30	0	37	45	3	15	25	56	31	6	34	11	1	2	266	85	936	9.1	3.1	29.8	26.6

Flu PCR % Rate

ACL RESP. PANEL - Influenza POS rate 2018-2019 season
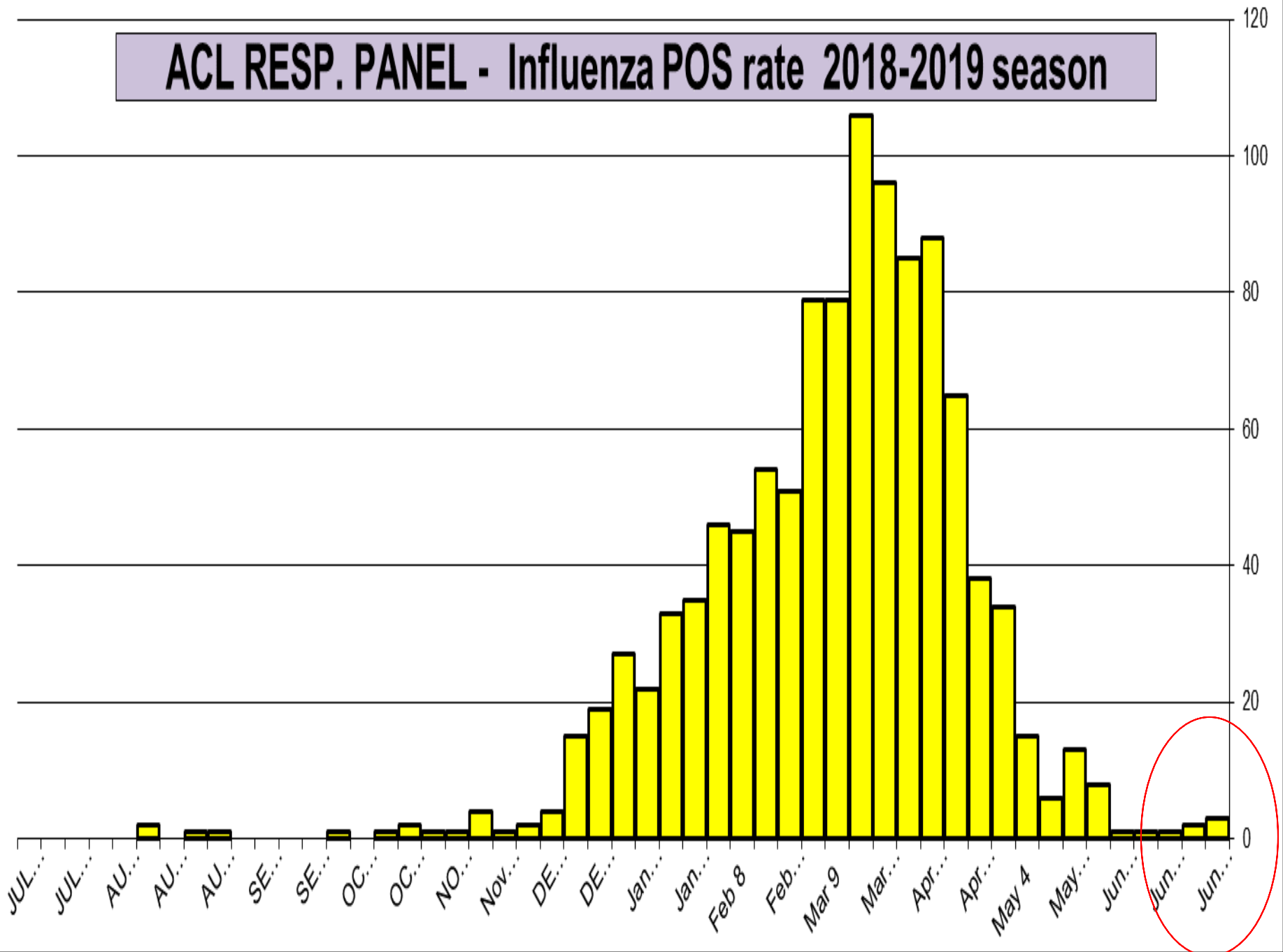
Influenza Positive Tests Reported to CDC by U.S. Clinical Laboratories, National Summary, 2018-2019 Season
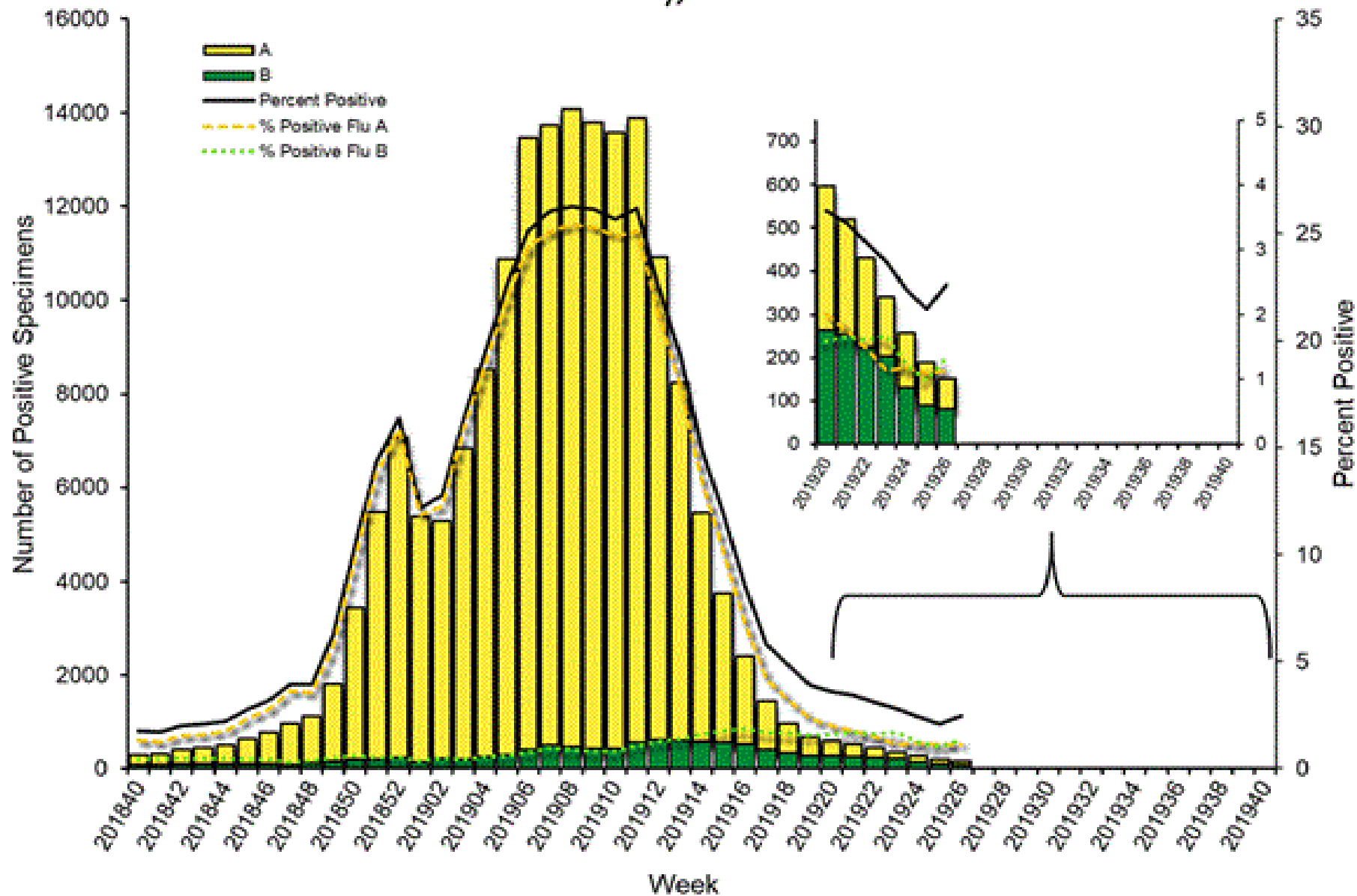
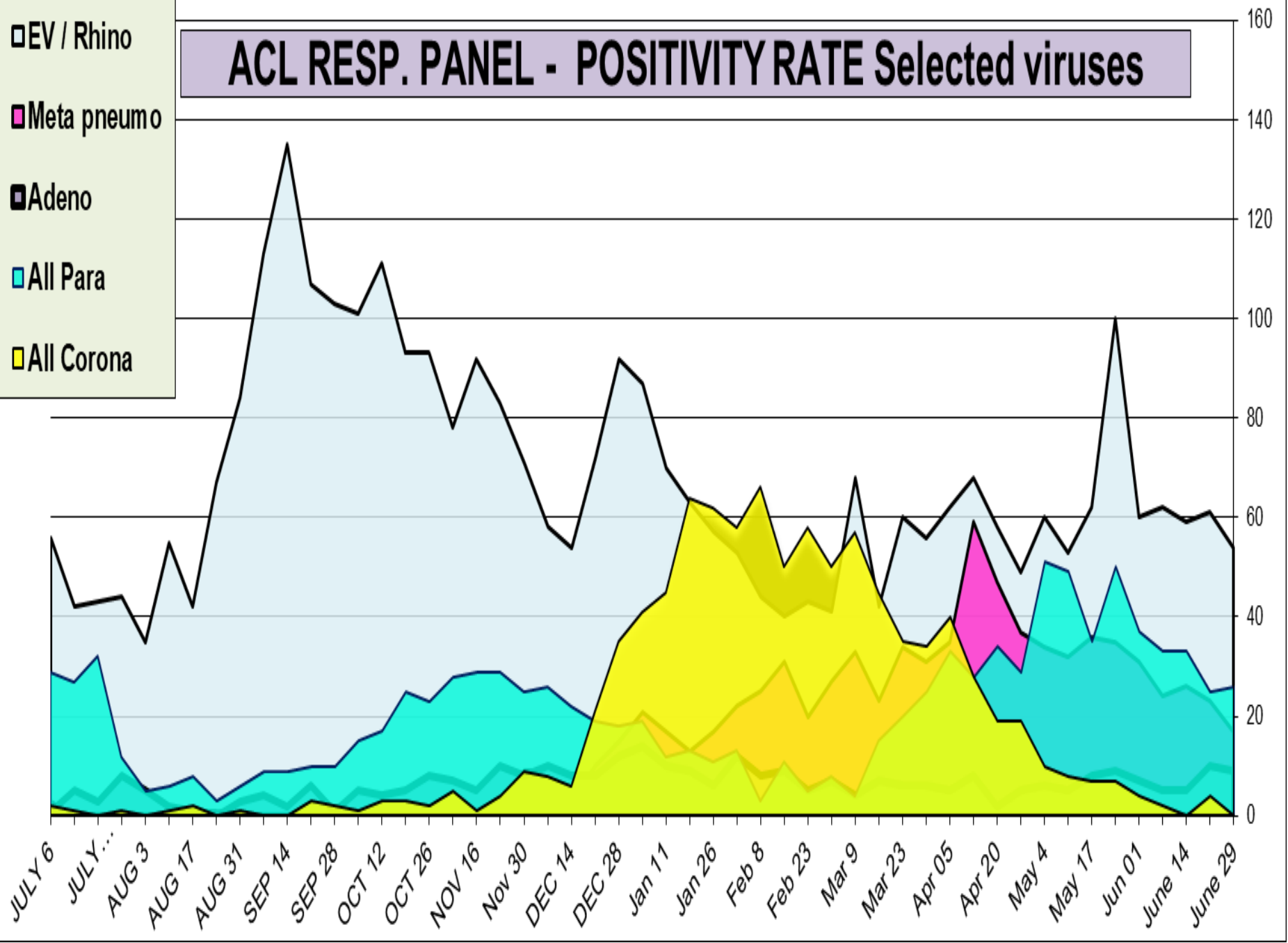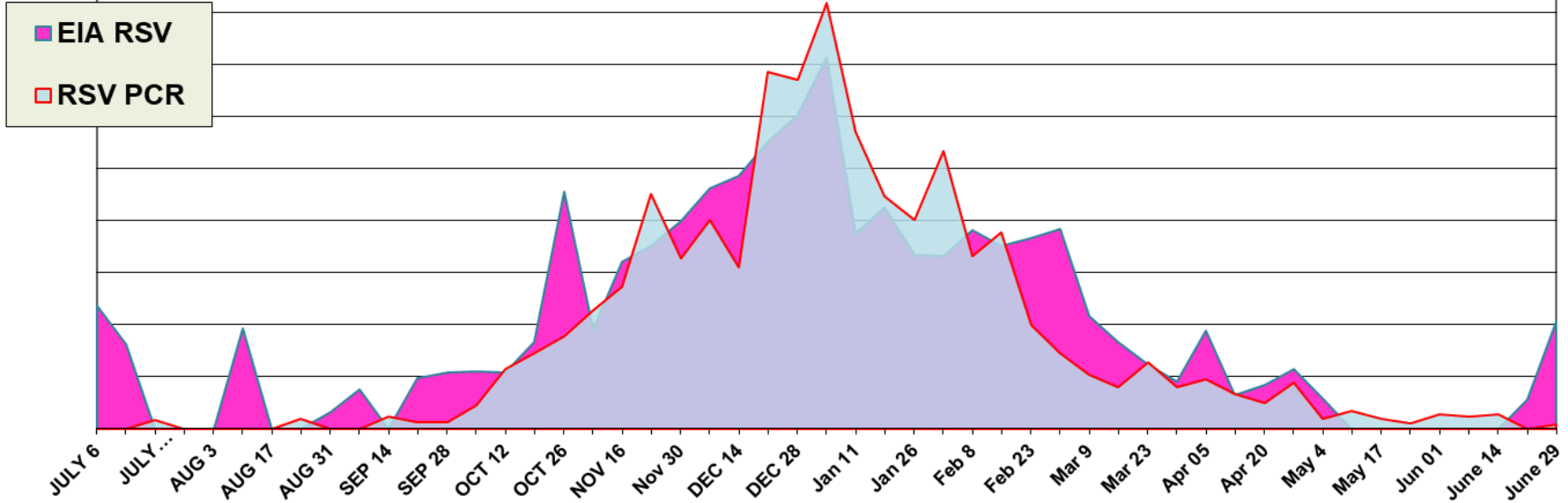ACL RESP. PANEL - POSITIVITY RATE Selected viruses
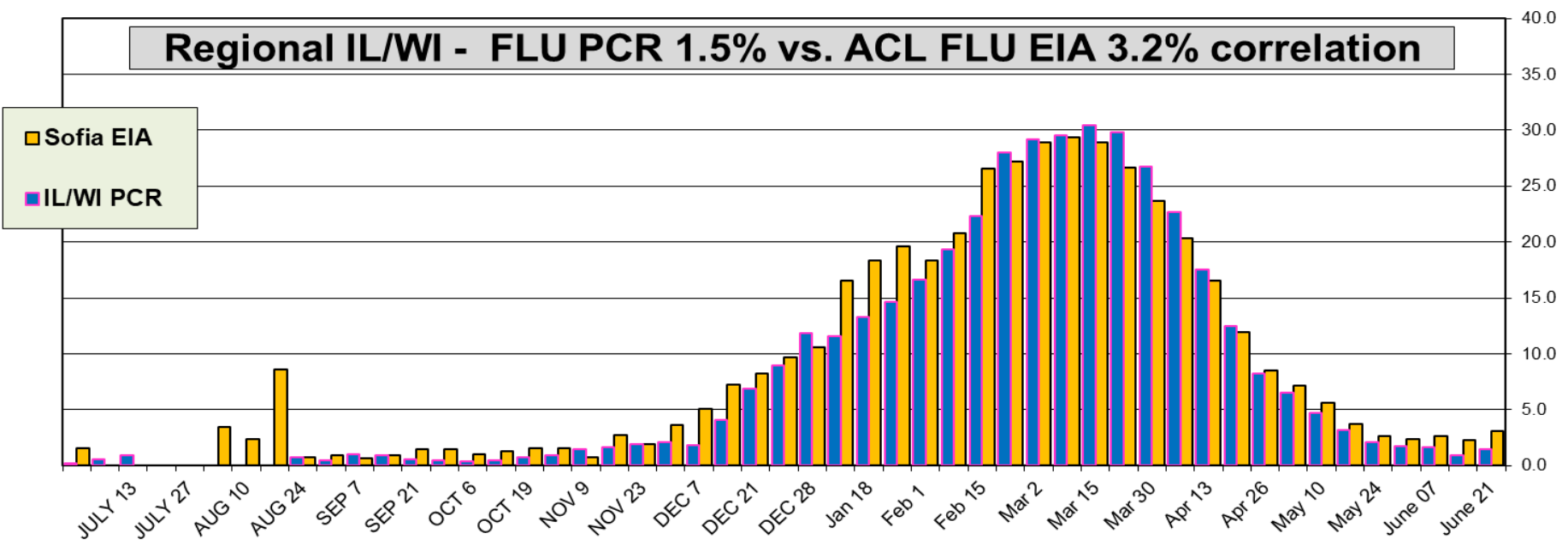
Legend:
- EV / Rhino
- Meta pneumo
- Adeno
- All Para
- All Corona

X-axis: JULY 6, JULY..., AUG 3, AUG 17, AUG 31, SEP 14, SEP 28, OCT 12, OCT 26, NOV 16, Nov 30, DEC 14, DEC 28, Jan 11, Jan 26, Feb 8, Feb 23, Mar 9, Mar 23, Apr 05, Apr 20, May 4, May 17, Jun 01, June 14, June 29

Y-axis: 0, 20, 40, 60, 80, 100, 120, 140, 160

ACL RESP. PANEL - RSV PCR - 0.1%, RSV EIA - 4.1%

Legend: EIA RSV, RSV PCR

Regional IL/WI - FLU PCR 1.5% vs. ACL FLU EIA 3.2% correlation
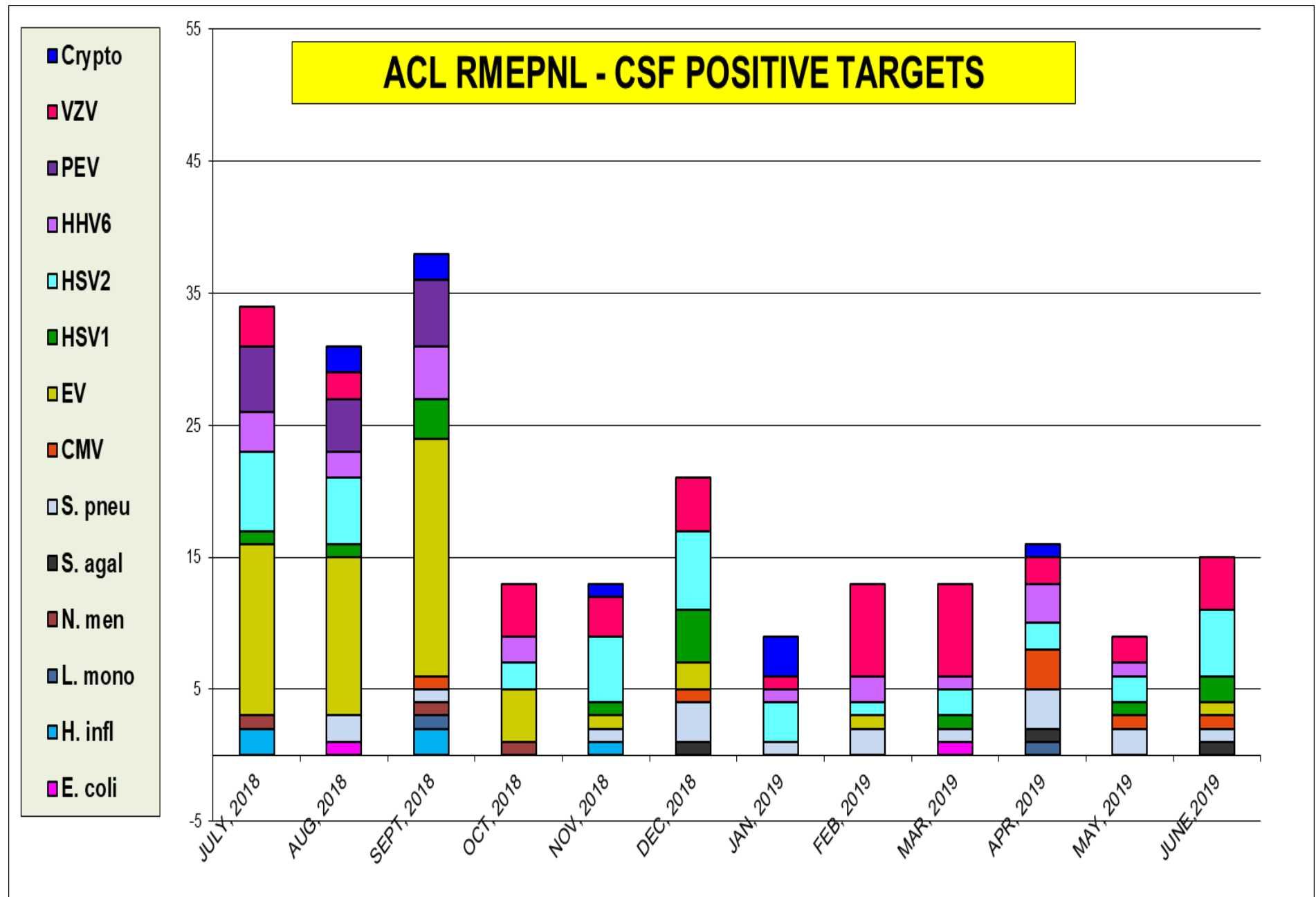
Legend: Sofia EIA, IL/WI PCR

Correlation between RPPNL (FLU PCR) and Sofia (FLUAG) - Accuracy is 94.7%

In last three months, 3079 samples were tested by both methods most of them negative, 162/3079 samples were positive by EIA when confirmed by PCR. 161 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 06/022/2019				
FLUAG (Sofia) vs RPPNL (PCR) correlation				
		RPPNL		
		+	-	Total
FluAG	+	162	4	166
	-	160	2753	2913
			Total	3079

%				
50.3	**Clinical Sensitivity**			
99.9	**Clinical Specificity**			
97.6	**Positive Predictive Value (PPV)**			
94.5	**Negative Predictive Value (NPV)**			
94.7	**Accuracy**			

The most prevalent targets were **HSV2**

ACL RMEPNL - CSF POSITIVE TARGETS

Legend:
- Crypto
- VZV
- PEV
- HHV6
- HSV2
- HSV1
- EV
- CMV
- S. pneu
- S. agal
- N. men
- L. mono
- H. infl
- E. coli

X-axis: JULY, 2018; AUG, 2018; SEPT, 2018; OCT, 2018; NOV, 2018; DEC, 2018; JAN, 2019; FEB, 2019; MAR, 2019; APR, 2019; MAY, 2019; JUNE, 2019
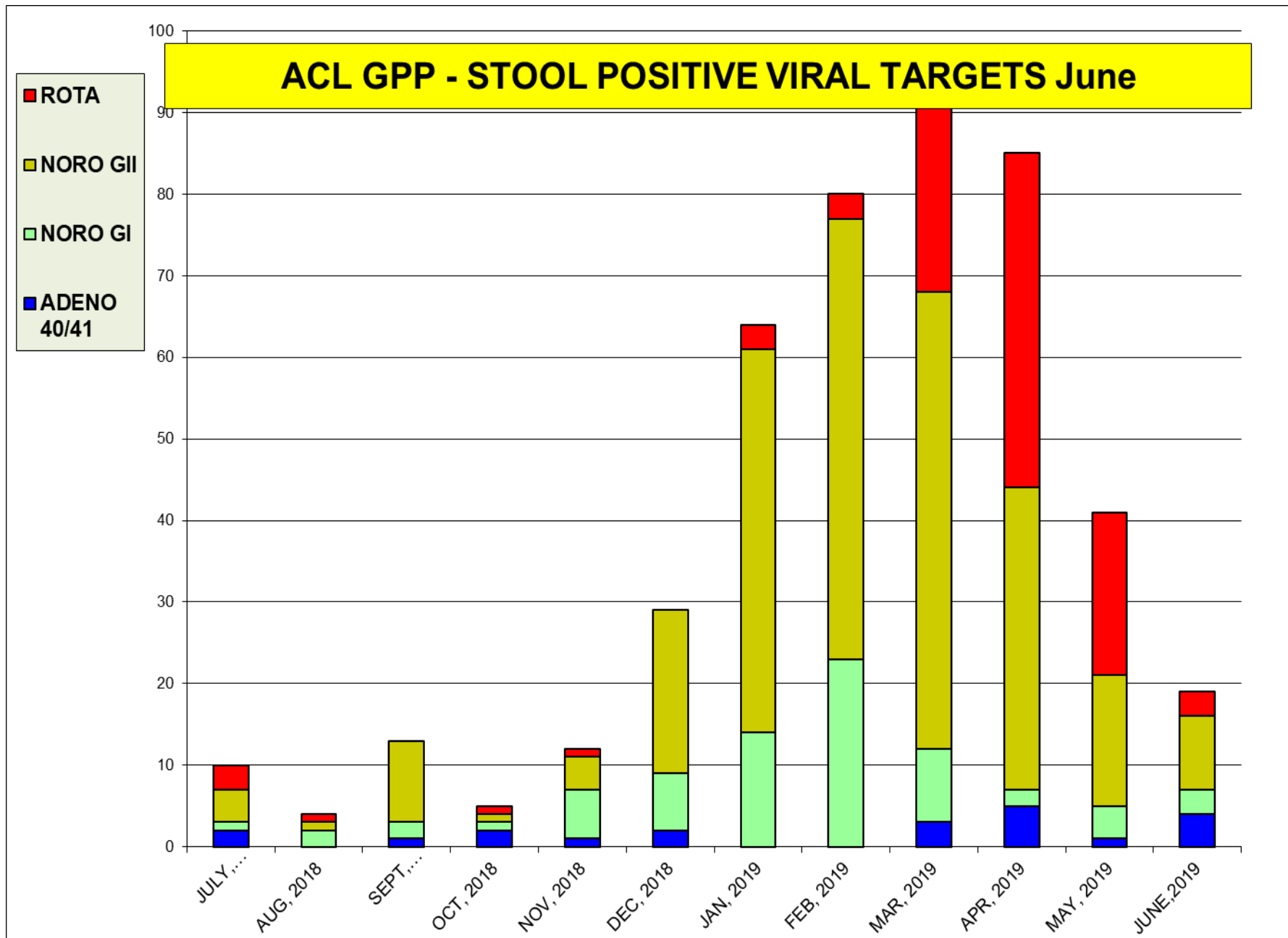
The most prevalent bacterial targets were **ETEC and Campylobacter**

ACL GPP - STOOL POSITIVE BACTERIA TARGETS June

Legend:
- E. histo
- GIARDIA
- CRYP
- CAMPY
- ETEC LT/ST
- VIBRIO
- E COLI 0157
- SHIGA tox 2
- SHIGA tox 1
- SALM
- SHIG

X-axis: JULY, 2018; AUG, 2018; SEPT,...; OCT, 2018; NOV, 2018; DEC, 2018; JAN, 2019; FEB, 2019; MAR, 2019; APR, 2019; MAY, 2019; JUNE,2019
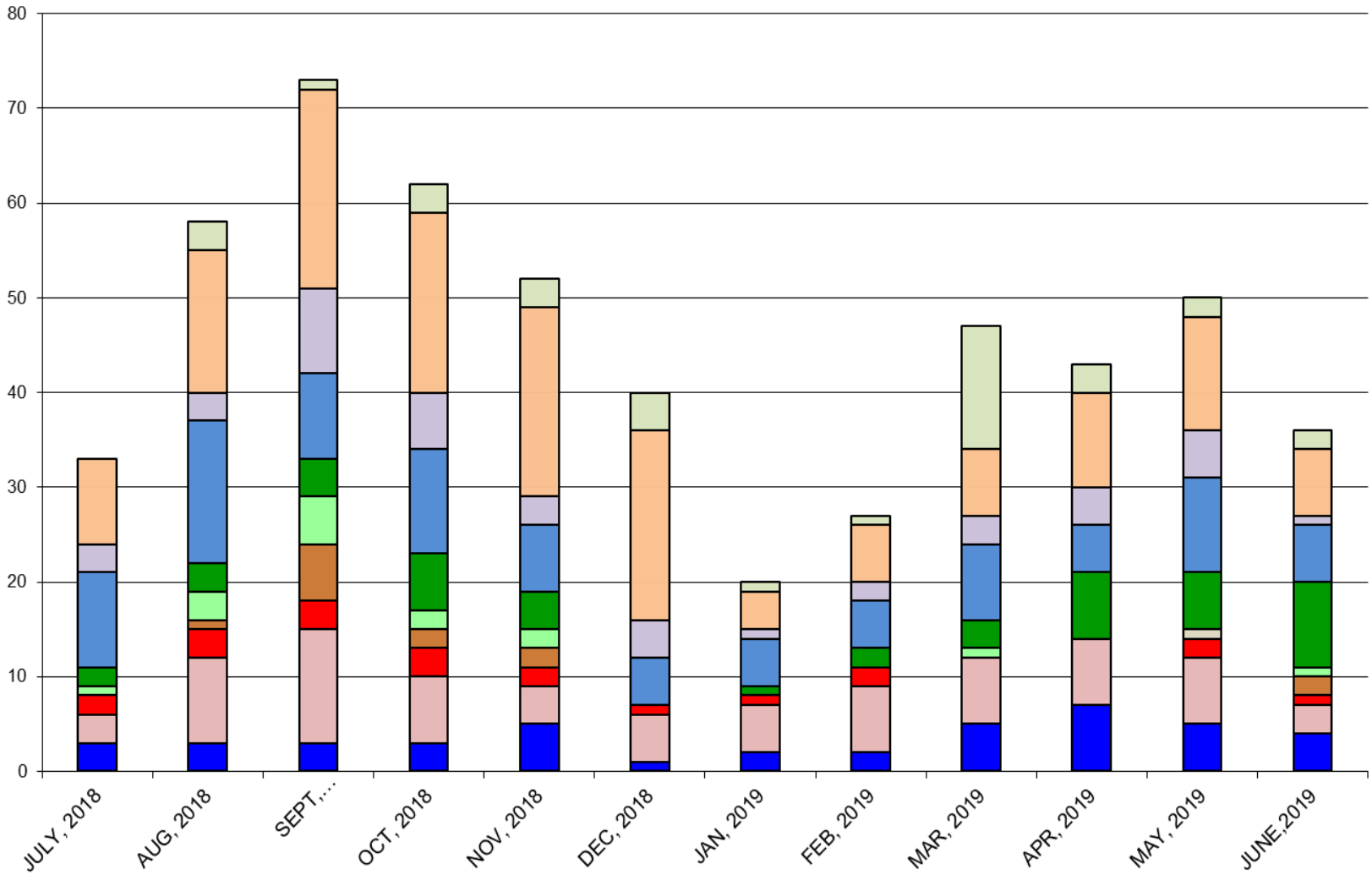
The most prevalent virus target was **Norovirus**

ACL GPP - STOOL POSITIVE VIRAL TARGETS June

Legend:
- ROTA
- NORO GII
- NORO GI
- ADENO 40/41

BV	C.ALB	C.GLB	C.KUR	T.VAG	M.GEN	M.HOM	U.PAV	Tot. pos.
4,990	4,931	4,931	4,931	4,920	3,252	3,252	3,252	5,001
25.4	14.4	2.0	0.3	3.5	0.4	15.1	37.7	79.8

SWAB ONE - POSITIVE TARGETS - Jun

Legend:
- URPV
- MHOM
- MGET
- TVAL
- CNKR
- CNGB
- CNALB
- BVR