# Respiratory Pathogens Jun 15 2018 - June 7 2019
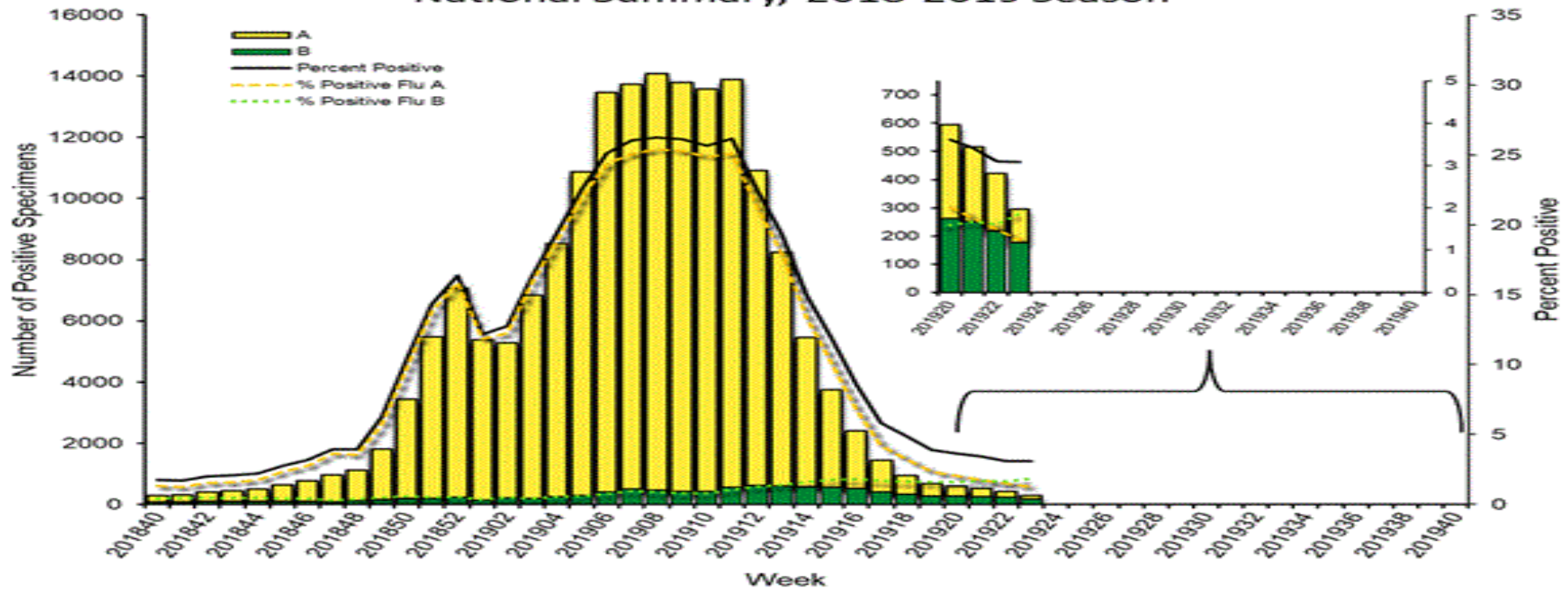
Week	InfA-H1	InfA-H3	2009 H1N1	Inf B	RSV	All Para	EV / Rhino	Meta pneumo	Adeno	All Corona	Bocca	Myco plasma	Chla mydia	Total Pos	POS FLU	Total	ACL %FLU	US %FLU	IL/WI PCR	Sofia EIA
June 07	0	2	1	0	3	33	62	24	5	2	3	1	0	136	1	630	0.2	3.1	2.2	2.4
Jun 01	0	0	1	0	4	37	60	31	7	4	5	0	0	149	1	743	0.1	3.1	2.1	2.6
May 24	0	2	3	3	2	50	100	35	9	7	5	0	3	219	8	1045	0.8	3.4	3.2	
May 17	0	8	4	1	5	35	62	36	8	7	6	0	0	172	13	1268	1.0	3.8	4.7	5.6
May 10	1	2	2	1	7	49	53	32	5	8	6	0	1	167	6	1028	0.6	3.7	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	8.5
Apr 26	0	13	15	6	14	29	49	37	5	19	4	1	2	194	34	800	4.3	5.4	12.5	12.0
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

Flu PCR % Rate

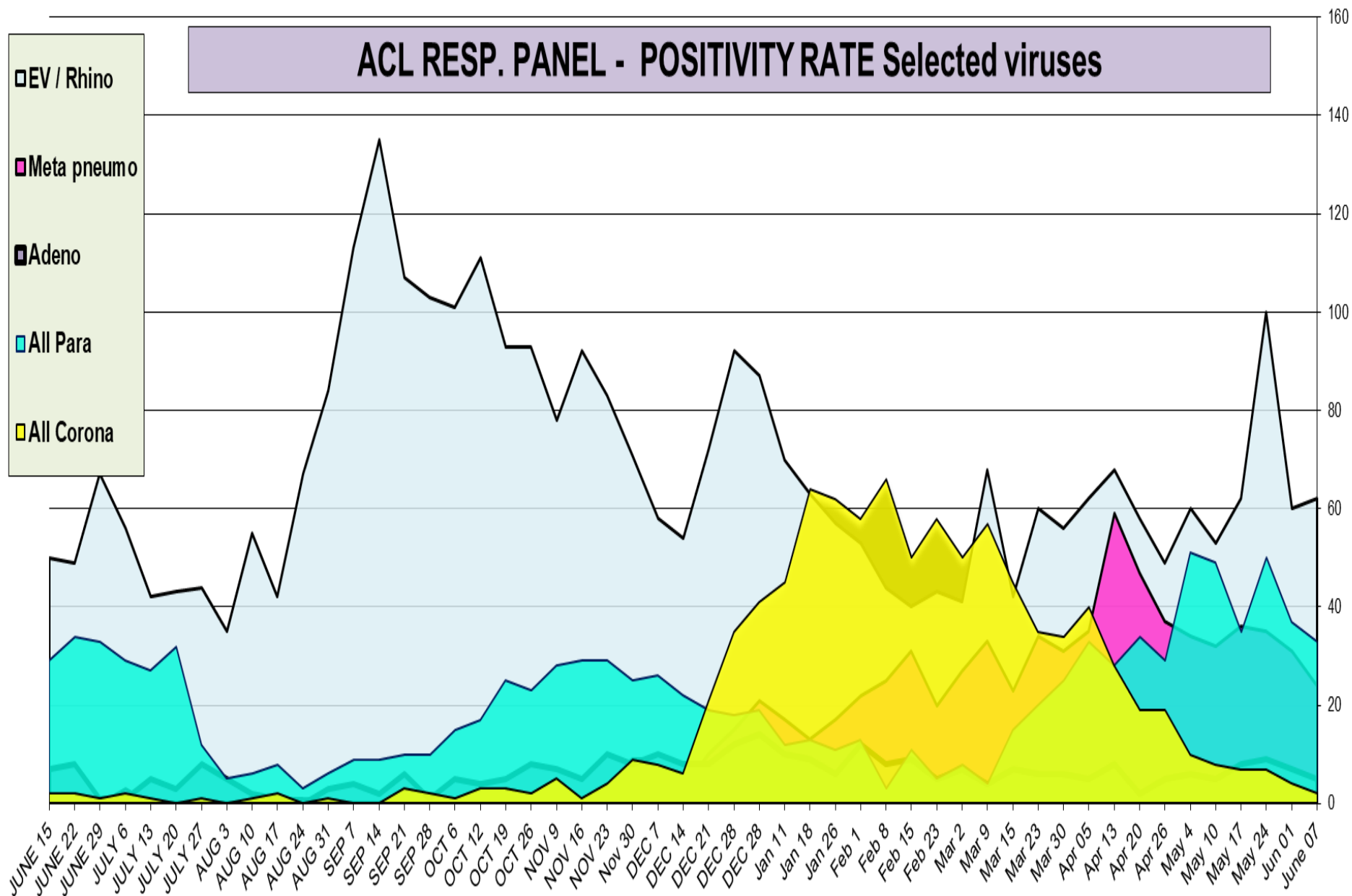**ACL RESP. PANEL - Influenza POS rate 2018-2019 season**
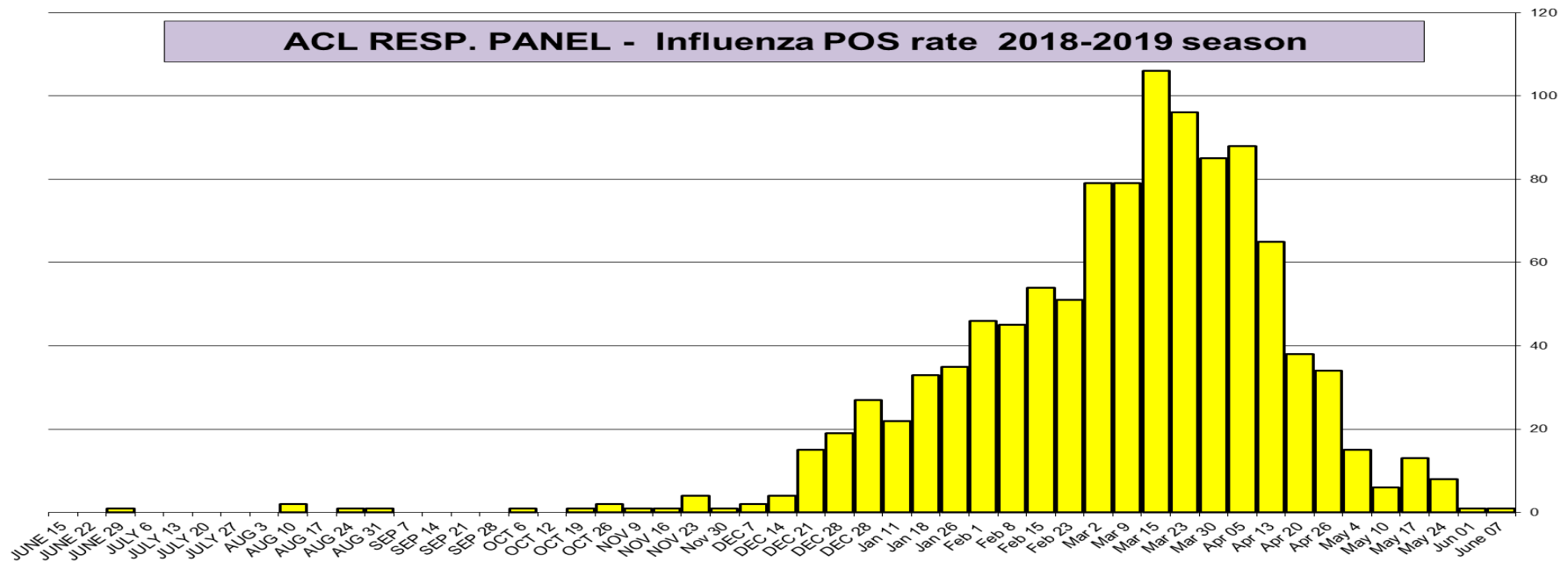
Influenza Positive Tests Reported to CDC by U.S. Clinical Laboratories, National Summary, 2018-2019 Season
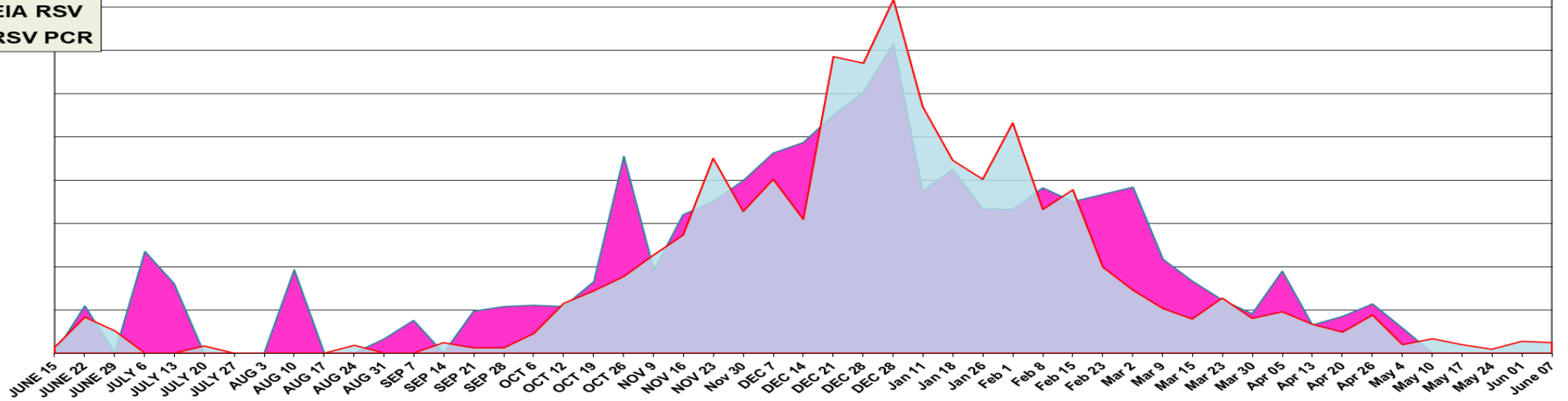
ACL RESP. PANEL - POSITIVITY RATE Selected viruses

ACL RESP. PANEL - RSV PCR - 0.5%, RSV EIA - 0.0%

Legend:
- EIA RSV
- RSV PCR

X-axis: JUNE 15, JUNE 22, JUNE 29, JULY 6, JULY 13, JULY 20, JULY 27, AUG 3, AUG 10, AUG 17, AUG 24, AUG 31, SEP 7, SEP 14, SEP 21, SEP 28, OCT 6, OCT 12, OCT 19, OCT 26, NOV 9, NOV 16, NOV 23, Nov 30, DEC 7, DEC 14, DEC 21, DEC 28, DEC 28, Jan 11, Jan 18, Jan 26, Feb 1, Feb 8, Feb 15, Feb 23, Mar 2, Mar 9, Mar 15, Mar 23, Mar 30, Apr 05, Apr 13, Apr 20, Apr 26, May 4, May 10, May 17, May 24, Jun 01

Regional IL/WI - FLU PCR 2.2% vs. ACL FLU EIA 2.4% correlation

Legend:
- Sofia EIA
- IL/WI PCR

Y-axis: 0.0, 5.0, 10.0, 15.0, 20.0, 25.0, 30.0, 35.0, 40.0

X-axis: JUNE 15, JUNE 22, JUNE 29, JULY 6, JULY 13, JULY 20, JULY 27, AUG 3, AUG 10, AUG 17, AUG 24, AUG 31, SEP 7, SEP 14, SEP 21, SEP 28, OCT 6, OCT 12, OCT 19, OCT 26, NOV 9, NOV 16, NOV 23, Nov 30, DEC 7, DEC 14, DEC 21, DEC 28, DEC 28, Jan 11, Jan 18, Jan 26, Feb 1, Feb 8, Feb 15, Feb 23, Mar 2, Mar 9, Mar 15, Mar 23, Mar 30, Apr 05, Apr 13, Apr 20, Apr 26, May 4, May 10, May 17, May 24, Jun 01
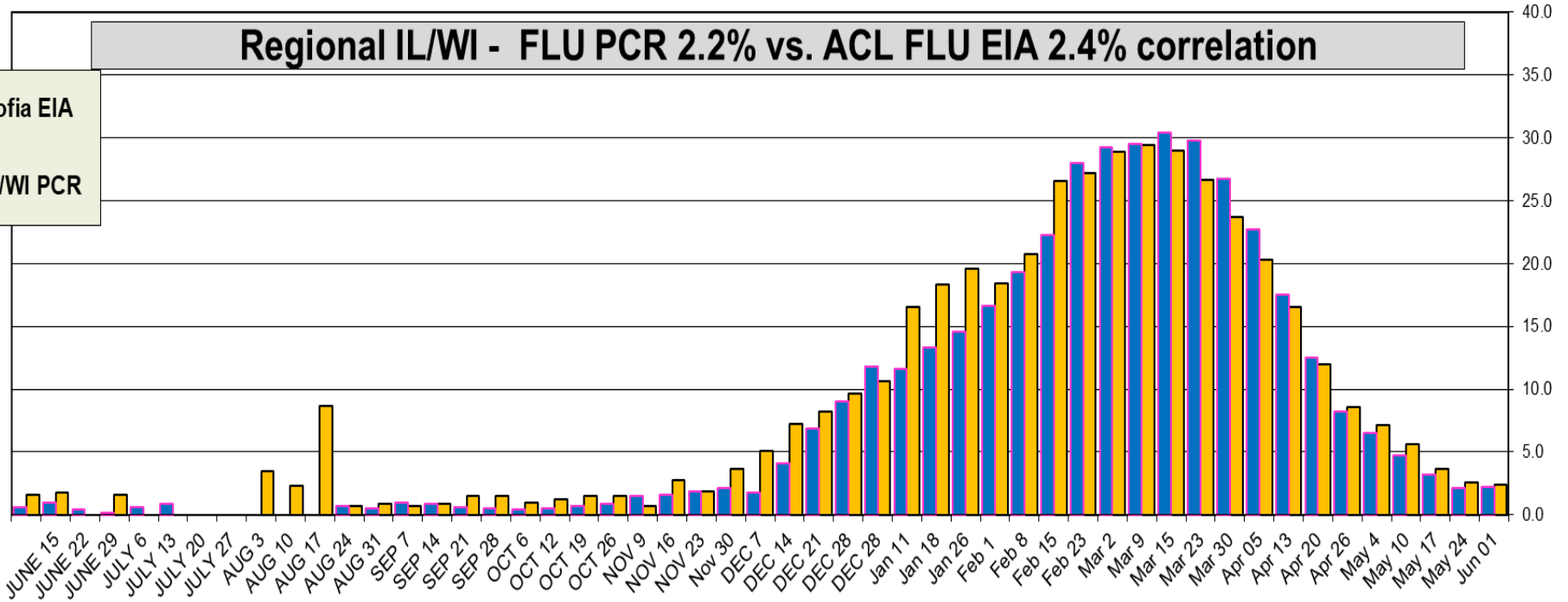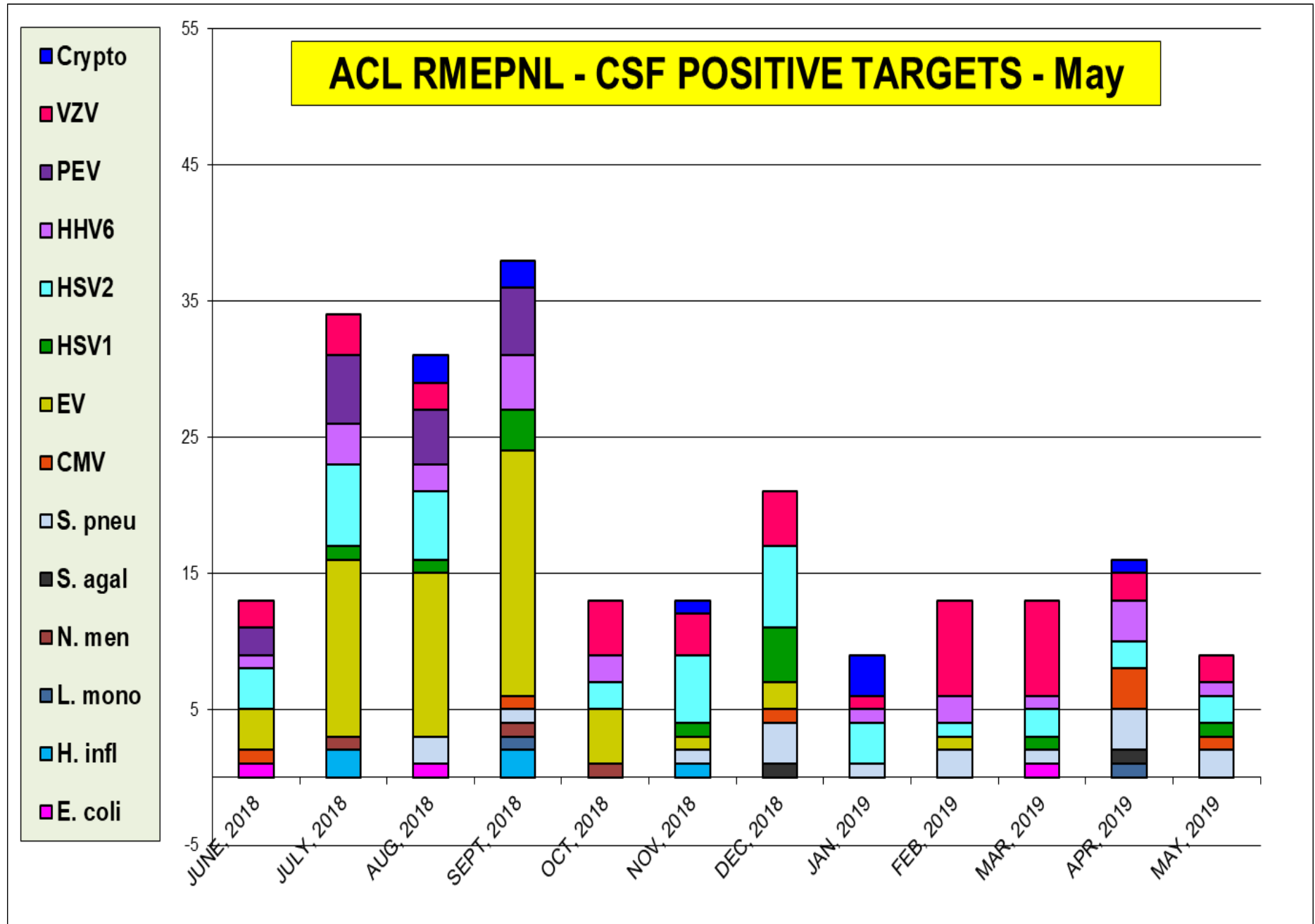
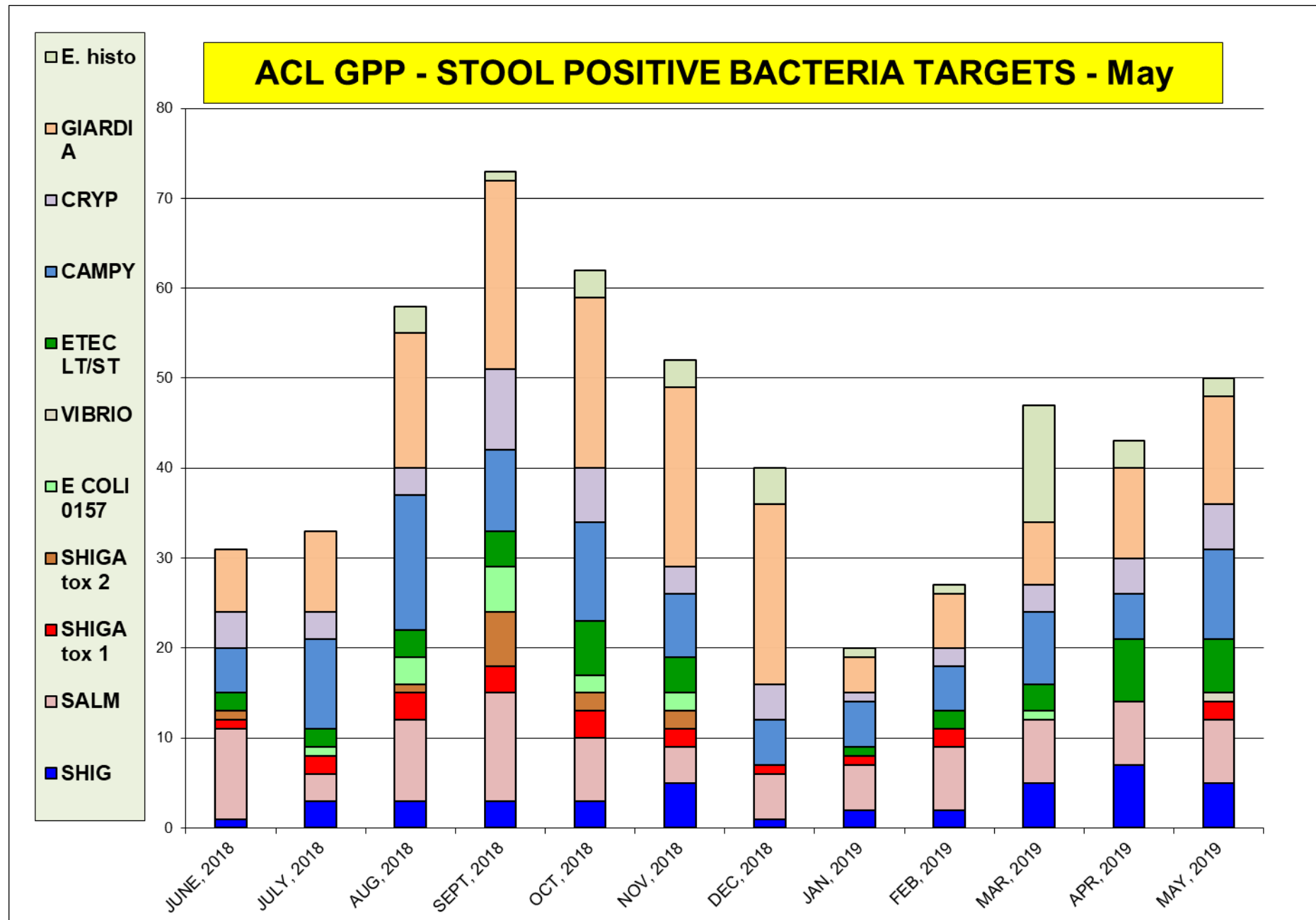# Correlation between RPPNL (FLU PCR) and Sofia (FLUAG) - Accuracy is 94.4%

In last three months, a 2990 samples were tested by both methods most of them negative, 161/2990 samples were positive by EIA when confirmed by PCR. 160 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 – <u>interpret clinical sensitivity with caution</u>.*

02/02/19 to 06/01/2019				
FLUAG (Sofia) vs RPPNL (PCR) correlation				
		RPPNL		
		+	**-**	Total
FluAG	**+**	**161**	**4**	165
	-	**160**	**2665**	2825
			Total	**2990**

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

The most prevalent targets were **HSV2** and **VZV – total pos. rate 4.5** %

ACL RMEPNL - CSF POSITIVE TARGETS - May

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

Months: JUNE, 2018; JULY, 2018; AUG, 2018; SEPT, 2018; OCT, 2018; NOV, 2018; DEC, 2018; JAN, 2019; FEB, 2019; MAR, 2019; APR, 2019; MAY, 2019

The most prevalent bacterial targets were **Campylobacter** and **Giardia**

ACL GPP - STOOL POSITIVE BACTERIA TARGETS - May

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

Months: JUNE, 2018; JULY, 2018; AUG, 2018; SEPT, 2018; OCT, 2018; NOV, 2018; DEC, 2018; JAN, 2019; FEB, 2019; MAR, 2019; APR, 2019; MAY, 2019

The most prevalent virus target was **Norovirus (3.5%) Rotavirus (4.5%) pos**. rate

ACL GPP - STOOL POSITIVE VIRAL TARGETS - May

Legend:
- ROTA
- NORO GII
- NORO GI
- ADENO 40/41
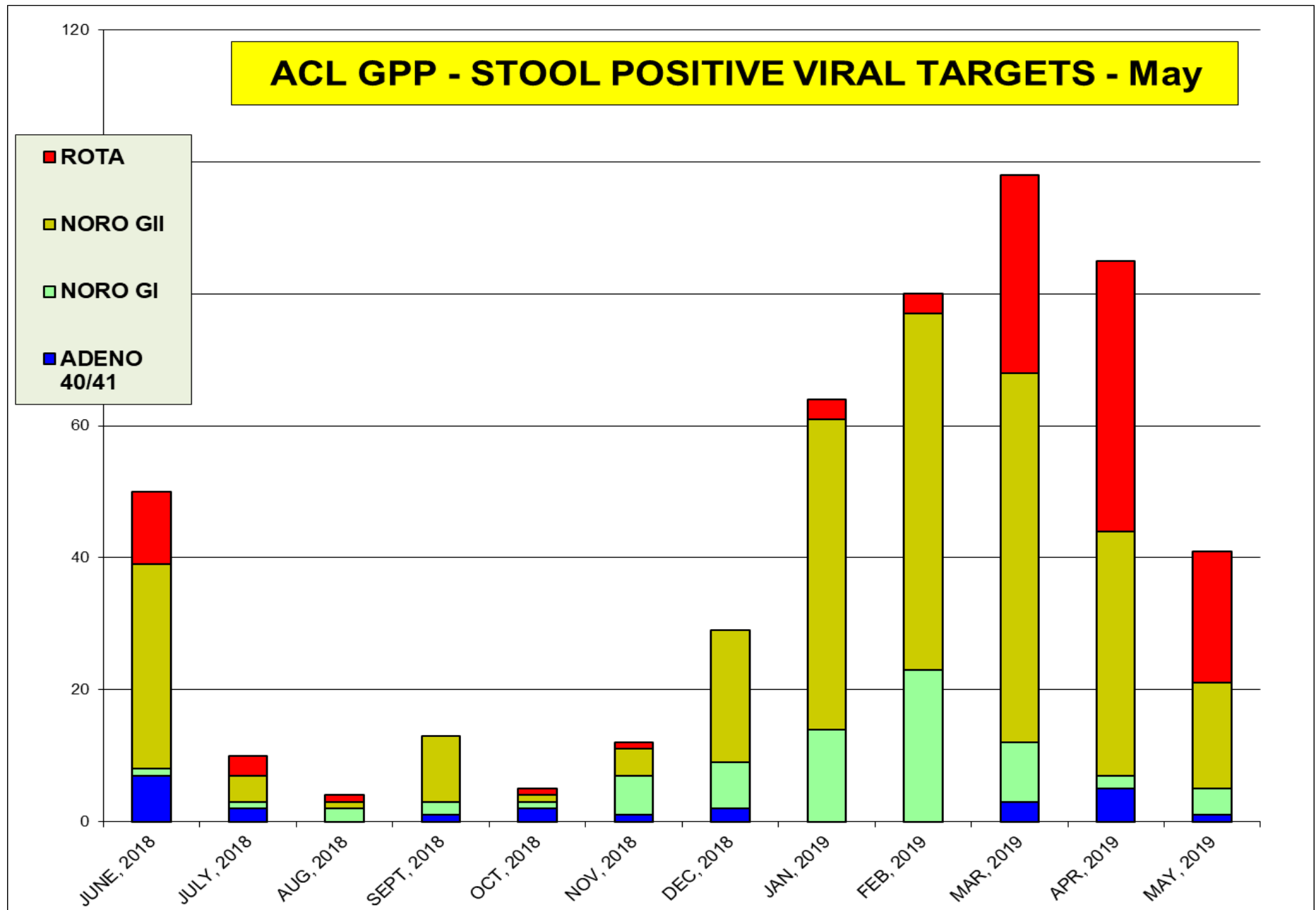
BV	C.ALB	C.GLB	C.KUR	T.VAG	M.GEN	M.HOM	U.PAV	Tot. pos.
4,917	4,673	4,673	4,673	4,618	2,307	2,307	2,307	4,972
26.3	**15.4**	**2.2**	**0.3**	**3.8**	**0.4**	**21.5**	**53.8**	**81.5**

SWAB ONE - POSITIVE TARGETS - May

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