

2018 "Teach Flu a Lesson" (TFAL) School Located Flu Vaccination



Agenda

BACKGROUND AND OVERVIEW

TFAL IN OC, SD, BP ELEMENTARY SCHOOLS

TFAL 2015, 2016 & 2017 RESULTS

FUTURE OPPORTUNITIES WITH TFAL



Background

- School-aged children are the most important vector for community transmission of influenza.
- The objective of this program is to reduce influenza-like illness to decrease school absenteeism by offering school located vaccination clinics.
- Free flu vaccines would be available to all interested students at participating schools regardless of insurance status.
- The goal is to create herd immunity in a vulnerable population and to close health disparity gaps in our communities.



About Influenza Among School-Age Children

- According to the Centers of Disease Control and Prevention, influenza is the leading cause of illness in America.
- School-age children have the highest annual flu rates as high as 42% according to the American Academy of Pediatrics Committee on Infectious Diseases.
- Although it is recognized that the medical home is the primary site for influenza vaccine administration for children, SLV programs would have the potential to efficiently immunize larger numbers of school-aged children.
- School flu vaccination programs have resulted in a decrease in student absences relating to influenza-like illnesses.

RESULTS OF SCHOOL-BASED INFLUENZA **VACCINATION: 2016, 2017***

- School-located influenza vaccination program
 - Increased vaccination
 - Decreased school absences and hospitalizations related to flu
- Prospective study; 44 schools per district (n = 6,070) in 2017
- School absences and influenza hospitalizations gathered during time of immunization program
- 56.7% vaccination coverage in control district; 63.9% coverage in program school district
- Absences lower in participating schools (5.4 absences, 3.01 illness-related absences per 100 days)
 - Control schools: 6.68 absences, 3.60 illness-related absences
 - Differences noted were statistically significant

^{*}Research conducted by Dr. Jade Benjamin-Chung, PhD, epidemiologist at UC Berkeley; abstracted presented at IDWeek, Oct 3-7, 2018

Where It All Began – Los Angeles Unified School District Pilot (2013)

- LAUSD reached out to MedImmune to discuss the feasibility of a schoollocated vaccination (SLV) pilot project.
- A partnership between LA County Dept. of Public Health, LAUSD, and Kaiser Permanente was formed to work on the project.
- KP membership data (by zip code) was cross-walked with LAUSD schools in a geographic location where low flu vaccination uptake had been identified.
- 5 schools were identified; each school had 90 to 1,000 students.
- 732 students were vaccinated against the flu (15% overall).
- Several of these students had never received a flu vaccination previously.
- The LA County Medical Reserve Corp administered the vaccinations in the Los Angeles schools.



Expansion into Orange and San Bernardino Counties

- Internal risk mapping by Kaiser Permanente Southern California (KPSC) to identify below average flu vaccination rates in Kaiser Permanente (KP) membership
- KP target specific geographic locations in Orange and San Bernardino Counties as well as LA County.



TFAL: 2015, 2016 & 2017 Results

OC: 4,658 flu shots

		School Counts			Flu Counts				/ Flu Counts per School Dis			
County	School District	CY 2015	CY 2016	CY 2017	CY 2015	CY 2016	CY 2017	//	CY 2015	CY 2016	CY 2017	
Orange	Anaheim	26	25	27	2,669	1,774	1,449	<i>y</i>	103	71	54	
Orange	Buena Park	6	6	6	562	417	445		94	70	74	
Orange	Santa Ana	36	34	36	4,313	2,748	2,477		120	81	69	
Orange	Savanna	4	4	4	305	235	287		76	59	72	
San Diego	San Diego	12	9	10	2,969	1,984	1,770		247	220	177	
Los Angeles	Baldwin Park	9	12	13	695	629	836		77	52	64	
Tulare	El Rancho	8	8	8	616	339	447		77	42	56	
San Bernardino	Yucaipa	9	9	9	693	464	470		77	52	52	
Subtoal		110	107	113	12,822	8,590	8,181		117	80	72	
School District N	ot Seen For 2016 &	2017										
San Bernardino	San Bernardino	19			1,042				55			
San Diego	JDUSD	3			80				27			
Orange	Garden Grove	19			2,303				121			
Los Angeles	El Monte	10			539				54			
		51			3,964				78			
Total		161			16,786				104			
Flu Brooksut												
Flu Breakout					15 522							
Nasal					15,532	- 0.500	0.404					
Non-Nasal					1,254	8,590	8,181					
Total					16,786	8,590	8,181					

TFAL PLANNING: 2018 Calendar

Summary

#	Date	Item
1	Feb 2018	Notification Date & New School Districts Requirements
2	Mar 2018	Recap Meeting of the 2017 TFAL Program & Upcoming 2018 Finalize & Send Out Memorandum of Understanding
3	Apr 2018	Baldwin Park/Orange County/San Diego 1st Kickoff Meetings
4	May 2018	TFAL presentation at Academic Liaison Peer Group meeting Finalize Elementary School Dates
5	Jun 2018	Finalize Nursing Programs
6	Aug 2018	Baldwin Park/Orange County/San Diego 2 nd Kick-Off Meetings Recruit TFAL Project Manager
7	Sep 2018	Submit TFAL Vaccine Order Project Managers Orientation
8	Oct 2018	TFAL Clinics



TFAL PREPARATION

- **Oversight**: There must be a Clinical Instructor present during the entire duration of the flu clinic if there are any unlicensed students. The only time when a clinical instructor does not need to be present is if ALL students participating in a specific clinic are licensed and have their own malpractice insurance.
- **Training:** A month before the first clinic date, Nursing Students must complete 2 EZIZ online modules (http://eziz.org/eziz-training/) and provide completion certificates to their Clinical Instructor for proof of completion - 1) Preparing Vaccines and 2) Administering Vaccines.
- **Student Paperwork**: Nursing Students must complete and sign 5 KP forms (Drug-Free Workplace, Confidentiality, Child Abuse Reporting, KP Individual Student Orientation Verification Form, and Elder Abuse Reporting forms) if they have not already done so from previous KP clinical rotations.
- Nursing Instructor Paperwork: Each nursing instructor must complete the KP TFAL Clinical Profile form to confirm that participating nursing students are compliant with immunization requirements and background checks. Actual copies of immunization records and background checks do not need to be provided.
- Minimum 6 Nursing Students: Ideal for flu clinics with 100 + students



Nursing Program Partnership

		Grand	Los	Los Angeles, San Bernardino			Orange County					San Diego
#	Nursing Programs	Total	Baldwin Park	El Rancho	Yucaipa	Total	Anaheim	Buena Park	Santa Ana	Savanna	Total	Total
1	Azusa Pacifica University	12	6	4		10			2		2	
2	California Baptist University	16				0	4		8	4	16	
3	Concorde Career College	4				0		2	2		4	
4	CSU Fullerton	13			3	3	2	6	2		10	
5	CSU Long Beach	6				0	6				6	
6	Cypress College	8							4	4	8	
7	El Camino Community College	15				0	9		6		15	
8	Loma Linda University	6			6	6					0	
9	Long Beach City College	8				0	2		6		8	
10	National University	0				0					0	
11	Rio Honda	1				0			1	_	1	
12	West Coast University	10				0			10		10	
13	KP Staff	22	7	4		11	1				1	10



2018 PARTICIPATING ELEMENTARY SCHOOLS

County	School District		<u>2016</u>	2017	<u>2018</u>
Orange	Anaheim		25	27	26
Orange	Buena Park		6	6	6
Orange	Santa Ana		34	36	36
Orange	Savanna		4	4	4
San Diego	San Diego		9	10	10
Los Angeles	Baldwin Park		12	13	13
Tulare	El Rancho		8	8	8
San Bernardino	Yucaipa		9	9	9
Antelope	Landcaster				4
Riverside	Riverside				2
South Bay	Torrance				4
		Total	107	113	122



TFAL 2018 FIVE WEEK SUMMARY

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County	School District	<u>CY 2018</u>	
Orange	Anahiem	1178	
Orange	Buena Park	552	0 F20 abata
Orange	Santa Ana	533	2,538 shots
Orange	Savanna	275	
San Diego	San Diego	-	, =
Los Angeles	Baldwin Park	783	
Tulare	El Rancho	509	
San Bernardino	Yucaipa	493	
Antelope	Landcaster	49	
Riverside	Riverside	197	
South Bay	Torrance	85	
Total		4,654	

CV 2010



Clinic Observations

Flumist

- Showing the tip with no needle helps with cooperation and assurance of no poking.
- Having nervous students observe other students receiving the FluMist helps.

Injection

- Distraction with videos or conversation with students helps the process.
- Holding a student's hand helps with nervousness.
- Incentives worked for some students

Other observations

- Some students refused even the FluMist
- Larger space needed to accommodate nursing programs with larger group of students



FUTURE TFAL OPPORTUNITIES

Expansion into other geographic locations, e.g., **Inland Empire**

Infection control education with nursing students while elementary students wait for vaccination

