



Update on COVID-19 Vaccination Recommendations and LA County Uptake

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Disclosures

There is no commercial support for today's webinar.

Neither the speakers nor planners for today's webinar have disclosed any financial interests related to the content of the meeting.

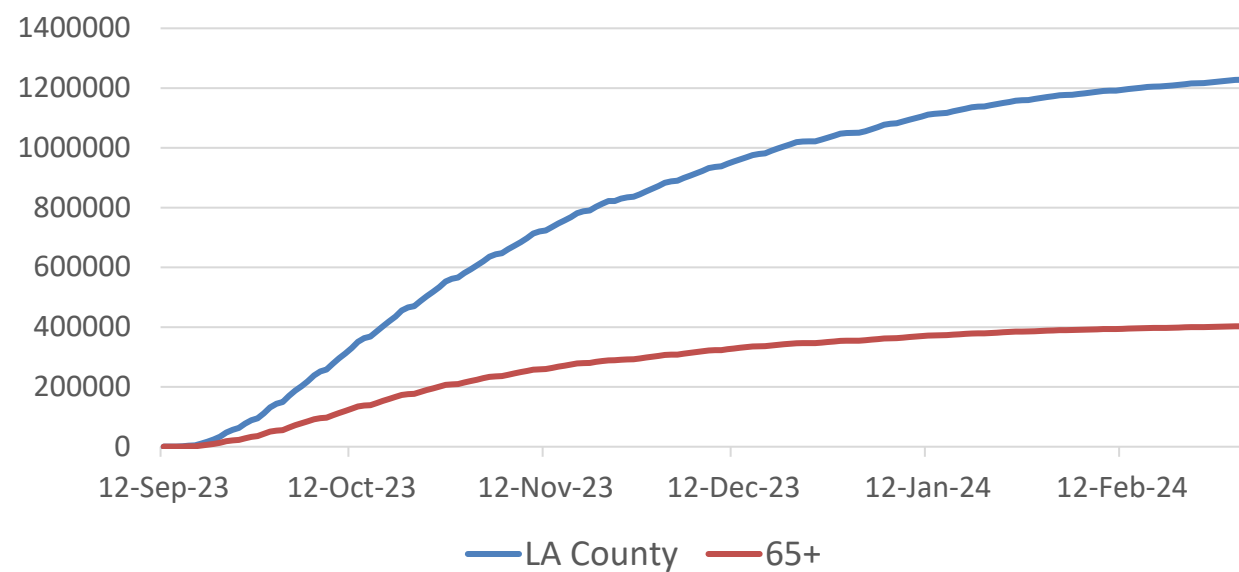
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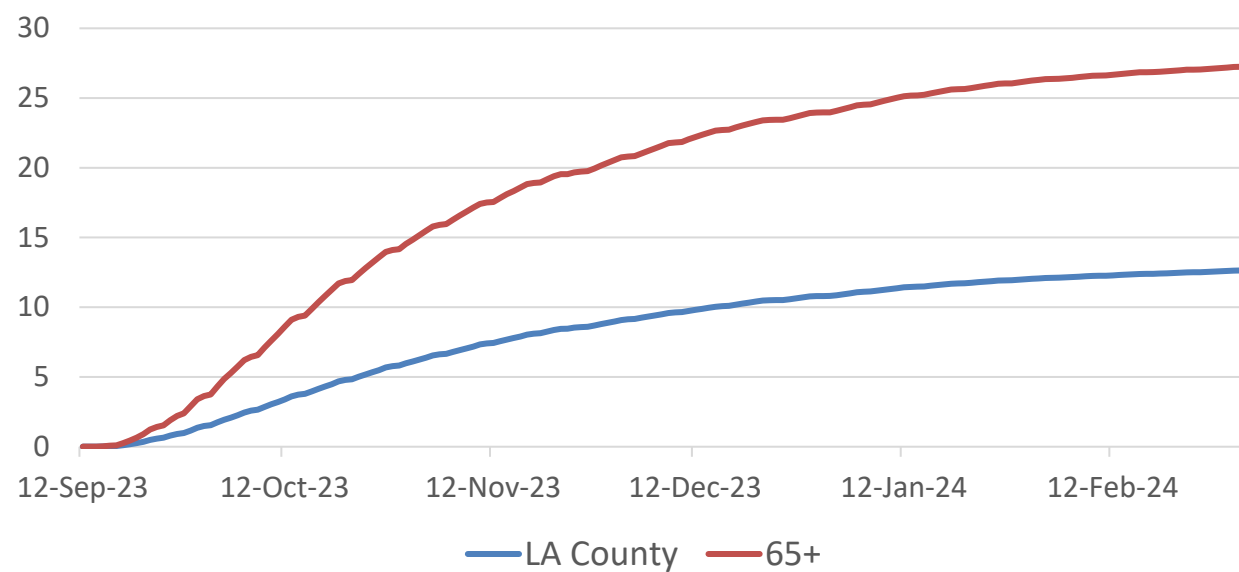
COVID Vaccination Trends



Cumulative number vaccinated by date



Cumulative % of population vaccinated by date

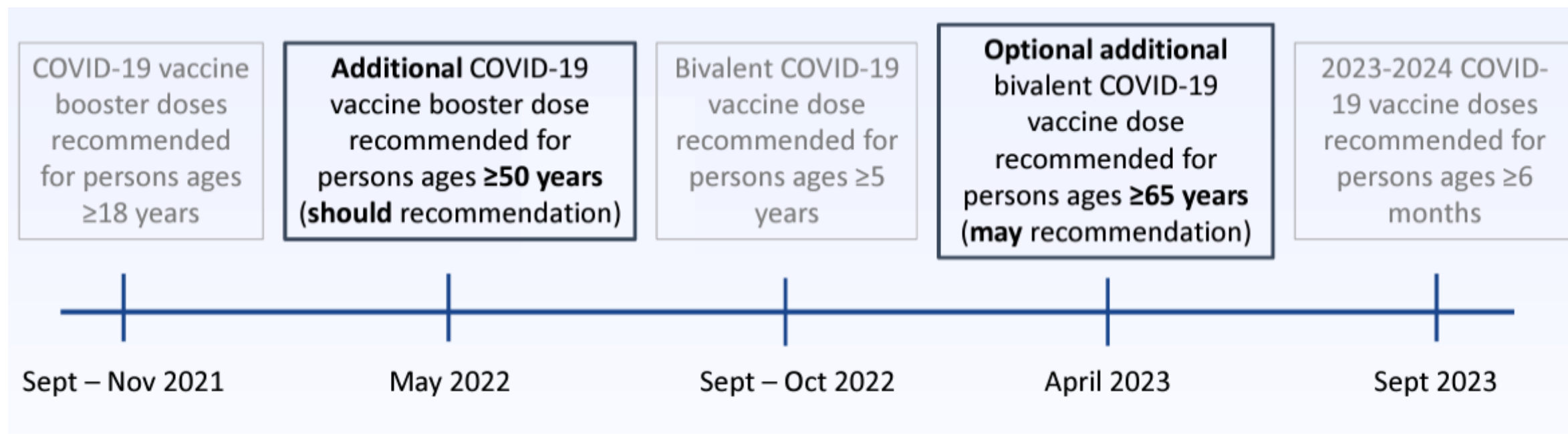




Updated COVID Vaccination Recommendations



Additional doses have been recommended previously for select populations



Current recommendations for additional doses of updated (2023-2024 Formula) COVID-19 vaccine

People who are moderately or severely immunocompromised:

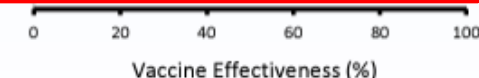
- Have the option to receive 1 additional dose of updated (2023-2024 Formula) COVID-19 Vaccine at least 2 months following the last recommended updated (2023-2024 Formula) COVID-19 vaccine dose.
- Further additional dose(s) may be administered, informed by the clinical judgement of a healthcare provider and personal preference and circumstances. Any further additional doses should be administered at least 2 months after the last updated (2023-2024 Formula) COVID-19 vaccine dose.

VISION: VE of 2023-2024 vaccine against *hospitalization* among immunocompetent adults aged ≥ 18 years, by age group September 2023 – January 2024

COVID-19 dosage pattern/age group	COVID-19 case-patients N (Col %)	COVID-19 control-patients N (Col %)	Median interval since last dose among vaccinated among those vaccinated, days (IQR)	Adjusted VE (95% CI)	
≥ 18 years					
No updated (2023-2024) monovalent dose (ref)	4,194 (91)	28,715 (87)	627 (383-765)	Ref	
Updated (2023-2024) monovalent dose, ≥ 7 days	395 (9)	4,199 (13)	42 (24-62)	52 (47-57)	
Updated (2023-2024) monovalent dose, 7-59 days earlier	270 (6)	3,056 (9)	32 (19-45)	53 (46-59)	
Updated (2023-2024) monovalent dose, 60-119 days earlier	125 (3)	1,143 (3)	73 (66-81)	50 (40-59)	
18-64 years					
No updated (2023-2024) monovalent dose (ref)	938 (96)	11,342 (95)	685 (447-829)	Ref	
Updated (2023-2024) monovalent dose, ≥ 7 days	38 (4)	657 (5)	38 (22-58)	43 (20-59)	
Updated (2023-2024) monovalent dose, 7-59 days earlier	28 (3)	503 (4)	30 (19-44)	42 (14-61)	
Updated (2023-2024) monovalent dose, 60-119 days earlier	10 (1)	154 (1)	74 (67-81)	45 (-6-71)*	
≥ 65 years					
No updated (2023-2024) monovalent dose (ref)	3,256 (90)	17,373 (83)	549 (370-745)	Ref	
Updated (2023-2024) monovalent dose, ≥ 7 days	357 (10)	3,542 (17)	43 (25-62)	53 (47-58)	
Updated (2023-2024) monovalent dose, 7-59 days earlier	242 (7)	2,553 (12)	32 (19-46)	54 (47-60)	
Updated (2023-2024) monovalent dose, 60-119 days earlier	115 (3)	989 (5)	73 (66-81)	50 (39-59)	

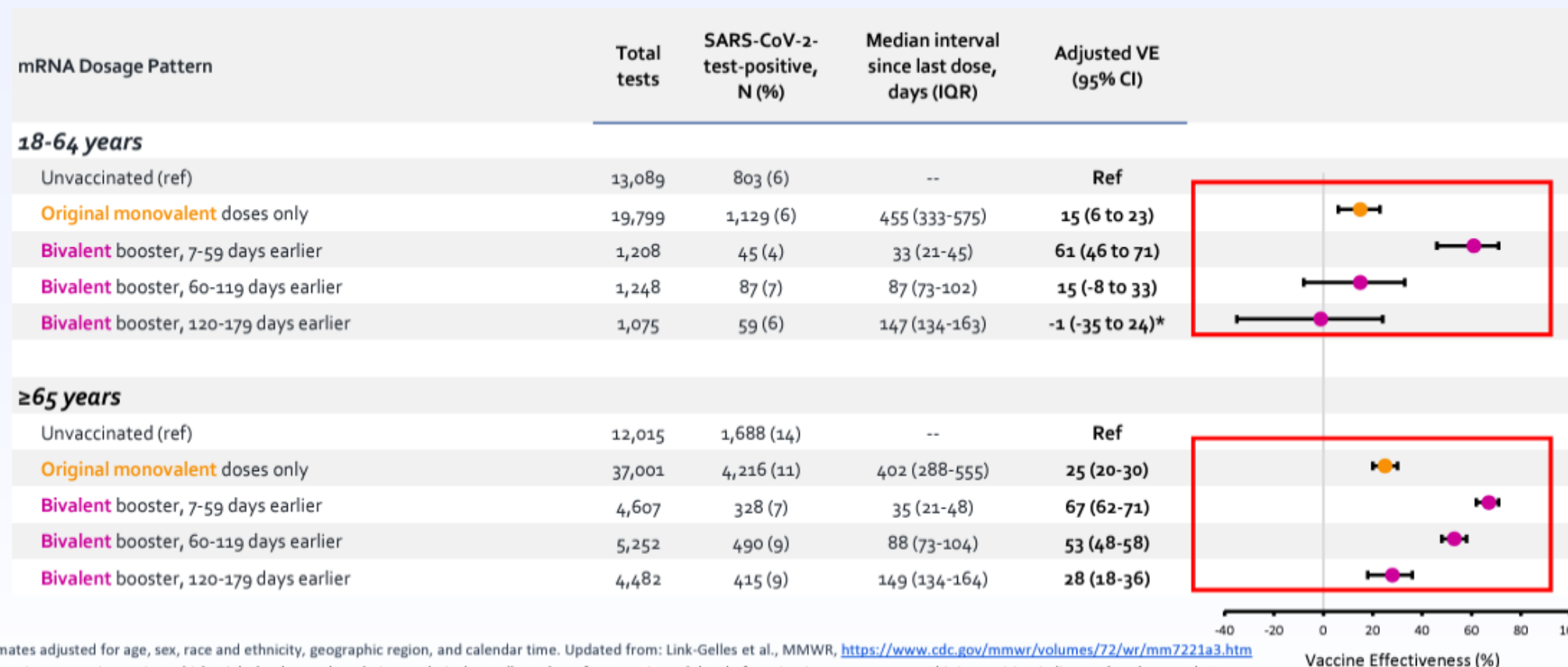
VE estimates adjusted for age, sex, race and ethnicity, geographic region, and calendar time. MMWR to be published February 29, 2024

*Some estimates are imprecise, which might be due to a relatively small number of persons in each level of vaccination or case status. This imprecision indicates that the actual VE could be substantially different from the point estimate shown, and estimates should therefore be interpreted with caution. Additional data accrual could increase precision and allow more precise interpretation.



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VISION: Absolute VE of *original monovalent* and *bivalent* booster doses against *hospitalization* among immunocompetent adults, by age group – September 2022 – August 2023



The 2023-24 vaccine is effective, and boosters have worked before

- Updated (2023-24) COVID-19 vaccination provided increased protection against symptomatic SARS-CoV-2 infection and COVID-19-associated ED/UC visits and hospitalizations compared to no updated vaccine dose
- Effectiveness of an additional dose in older adults has been demonstrated by past additional doses
 - Effectiveness against ED/UC encounters and hospitalization was increased in adults over 50 years of age who got a second original monovalent mRNA booster
 - Effectiveness against severe COVID-19-related outcomes was increased during Omicron circulation in nursing home residents who got a second original monovalent mRNA booster

Annual and semiannual COVID-19 vaccine doses likely to have largest benefit in people ages ≥ 65 years and people who are immunocompromised

	Absolute annual risk of severe COVID-19 (cases per 100,000; uncertainty interval)	Annual risk reduction of severe COVID-19		NNT to avert severe COVID-19 case
		Absolute risk (cases per 100,000)	Relative risk (%)	
One-time booster				
18-49 years	98 (85 - 125)	--	--	--
50-64 years	199 (185 - 238)	--	--	--
65-74 years	524 (499 - 562)	--	--	--
75+ years	1,398 (1,332 - 1,501)	--	--	--
Immunocompromised (mild)	1,290 (1,205 – 1,403)	--	--	--
Immunocompromised (moderate/severe)	1,367 (1,266-1,503)	--	--	--
Annual booster				
18-49 years	84 (74 - 106)	14	14%	3,534
50-64 years	171 (159 - 202)	28	14%	1,806
65-74 years	446 (425 - 475)	78	15%	642
75+ years	1,198 (1,144 - 1,272)	199	14%	251
Immunocompromised (mild)	1,180 (1,088 - 1,316)	110	9%	456
Immunocompromised (moderate/severe)	1,183 (1,091-1,307)	184	13%	273
Semiannual booster (every 6 months)				
18-49 years	72 (64 - 90)	26	27%	1,916
50-64 years	147 (136 - 171)	52	26%	968
65-74 years	382 (365-404)	142	27%	353
75+ years	1,030 (988 - 1,088)	368	26%	136
Immunocompromised (mild)	1,095 (987 - 1,255)	195	15%	257
Immunocompromised (moderate/severe)	1,057 (966-1,183)	310	23%	162

<https://www.medrxiv.org/content/10.1101/2023.07.10.23292473v4>

HJ Park...NC Lo. Accepted at *Nature Communications* (2024).

NNT: number of persons needed to follow vaccine strategy to prevent one severe COVID-19 case over 2-year period
Severe COVID-19 case: defined as being hospitalized

Updated COVID-19 Vaccination Recommendations

- People **ages 12-64 years** who are **moderately or severely immunocompromised** **MAY** receive 1 additional dose of any updated COVID-19 vaccine at least 2 months after the last dose of updated COVID-19 vaccine.
- People **over age 65 years** who are **moderately or severely immunocompromised** **SHOULD** receive 1 additional dose of any updated COVID-19 vaccine at least 2 months after the last dose of updated COVID-19 vaccine.
- People **over age 65 years** who are not immunocompromised **SHOULD** receive 1 additional dose of any updated COVID-19 vaccine at least 4 months after the last dose of updated COVID-19 vaccine.



Thank you!

For additional questions, please contact:
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For additional information, visit:
<http://publichealth.lacounty.gov/ip/index.htm>.

