Findings regarding the effect of COVID-19 vaccination, based on the DREES article published on 13 August 2021:

"Nettement moins de tests positifs et d'entrées à l'hôpital pour les complètement vaccinés que pour les non-vaccinés dans toutes les régions de France, Exploitation des appariements entre les bases SI-VIC, SI-DEP et VAC-SI jusqu'au 1er août 2021

I applaud the effort made by the DREES people, and I appreciate their posting of the data table. I wish other countries' statistics bureaus used the same clarity and transparency. I'd just like to add some comments.

Translated from the original publication:

"Between July 26 and August 1, the number of positive RT-PCRs per 100,000 people rose to 345 for non-vaccinated versus 45 for fully vaccinated people, a ratio of ~~7.7~~ 7.9. This ratio is a little higher ~~(9.1)~~ 9.3 when we restrict the analysis to only RT-PCR tests where patients reported symptomatic.

For one million inhabitants, 17.5 admissions to critical care for the patient for which a positive RT-PCR test has also been identified were recorded for unvaccinated persons, against 2.0 for people fully vaccinated during the same week, a ratio of 9.0."

https://jcbwordpresscom.wordpress.com/2021/08/17/covid-19-effet-de-la-vaccination/

(with my slight corrections in blue)

Across-the-board findings:

i. Over the full population, by getting the complete vaccination:
   - You reduce the probability to need a test by almost 2 thirds (for each completely vaccinated person there were 2.7 non-vaccinated persons taking the RT-PCR test)
   - You reduce the probability of a positive test result by almost 8 times
   - You reduce the probability of having symptoms by more than 9 times
   - The unvaccinated are about 7 times more likely to be hospitalized, 11 times more likely to receive critical care, and 5 times more likely to die.

ii. If you are completely vaccinated and you take an RT-PCR test:

- You reduce the probability of a positive test result by two thirds
- You reduce the probability of having symptoms by more than 3 times
- You reduce the probability of hospitalization by almost 3 times
- You reduce the probability of critical care by almost 4 times
- You almost halve the probability of dying

iii. If you are completely vaccinated and you have a positive test result:

- You reduce the probability of having symptoms by 16% (not much. Vaccinated people do not get tested unless they have symptoms.)
- You might increase the probability of getting hospitalized (albeit not significantly).
- You have less probability of receiving critical care (by 26%); however, you have a higher probability of dying (64% higher).
  This raises the question:
  Are vaccinated people who tested positive neglected by critical care?

iv. If you are completely vaccinated, have a positive test AND you are symptomatic:

  You should be worried, because:

- you increase both the probabilities of hospitalization (by 30%) and of dying (almost double)
- Again, the probability of receiving critical care falls by 12% (but not if you are hospitalized and again test positive[1])

Further Questions:

As the tables below show, the ratios of unvaccinated to completely vaccinated people that receive critical care is higher in every case than the same ratios for hospitalized and deceased.

Are vaccinated people in general neglected by critical care?

[1] The information in the 3 penultimate columns of the DREES table confounds me. Are the RT-PCR tests in these columns different from the ones in column 3? Is there a subset of hospitalized people with negative COVID tests?

These same ratios fall when hospitalizations are accompanied by RT-PCR positive tests.

Can it be that vaccinated people are cured for ailings OTHER than COVID-19?

by Purnur Agiacai Schneider, CFA, FRM

Tables:

i.

Statut vaccinal	Probabilities over full population			Admissions et décès hospitaliers					
	RT-PCR	dont positives	dont symptômes	Ensemble			dont RT-PCR positive		
				Hospit. conv.	Soins critiques	Décès	Hospit. conv.	Soins critiques	Décès
Effectifs (en nombre de tests ou de patients)									
Non-vaccinés	**3.94%**	**0.35%**	**0.16%**	**0.0085%**	**0.0024%**	**0.0005%**	**0.0058%**	**0.0017%**	**0.0004%**
Primo dose récente	**2.83%**	**0.21%**	**0.11%**	**0.0020%**	**0.0004%**	**0.0000%**	**0.0017%**	**0.0003%**	**0.0000%**
Primo dose efficace	**2.57%**	**0.12%**	**0.05%**	**0.0016%**	**0.0004%**	**0.0001%**	**0.0013%**	**0.0003%**	**0.0001%**
Vaccination complète	**1.46%**	**0.04%**	**0.02%**	**0.0012%**	**0.0002%**	**0.0001%**	**0.0010%**	**0.0002%**	**0.0001%**
Ensemble	**2.68%**	**0.19%**	**0.09%**	**0.0043%**	**0.0011%**	**0.0003%**	**0.0031%**	**0.0009%**	**0.0002%**
	Ratios de taux entre non-vaccinés et complètement vaccinés								
		7.87	9.34	7.20	10.58	4.81	5.79	8.95	4.35
	Ratios de taux entre complètement vaccinés et non-vaccinés								
		0.13	0.11	0.14	0.09	0.21	0.17	0.11	0.23

ii.

Statut vaccinal	Probabilities over PCR tests			Admissions et décès hospitaliers					
	RT-PCR	dont positives	dont symptômes	Ensemble			dont RT-PCR positive		
				Hospit. conv.	Soins critiques	Décès	Hospit. conv.	Soins critiques	Décès
Effectifs (en nombre de tests ou de patients)									
Non-vaccinés	100.00%	8.84%	4.11%	0.22%	0.06%	0.01%	0.15%	0.04%	0.01%
Primo dose récente	100.00%	7.60%	3.88%	0.07%	0.01%	0.00%	0.06%	0.01%	0.00%
Primo dose efficace	100.00%	4.48%	1.96%	0.06%	0.02%	0.00%	0.05%	0.01%	0.00%
Vaccination complète	100.00%	3.04%	1.19%	0.08%	0.02%	0.01%	0.07%	0.01%	0.01%
Ensemble	100.00%	7.02%	3.22%	0.16%	0.04%	0.01%	0.12%	0.03%	0.01%
	Ratios de taux entre non-vaccinés et complètement vaccinés								
	1.00	**2.91**	**3.46**	**2.67**	**3.92**	**1.78**	**2.14**	**3.31**	**1.61**
	Ratios de taux entre complètement vaccinés et non-vaccinés								
		0.34	**0.29**	**0.37**	**0.26**	**0.56**	**0.47**	**0.30**	**0.62**

iii.

Statut vaccinal	Probabilities over Positive PCR tests		Admissions et décès hospitaliers					
	dont positives	dont symptômes	Ensemble			dont RT-PCR positive		
			Hospit. conv.	Soins critiques	Décès	Hospit. conv.	Soins critiques	Décès
Effectifs (en nombre de tests ou de patients)								
Non-vaccinés	**100.00%**	**46.46%**	**2.44%**	**0.68%**	**0.15%**	**1.66%**	**0.50%**	**0.11%**
Primo dose récente	**100.00%**	**51.06%**	**0.91%**	**0.18%**	**0.01%**	**0.79%**	**0.14%**	**0.01%**
Primo dose efficace	**100.00%**	**43.72%**	**1.38%**	**0.34%**	**0.07%**	**1.14%**	**0.24%**	**0.06%**
Vaccination complète	**100.00%**	**39.16%**	**2.67%**	**0.50%**	**0.24%**	**2.26%**	**0.44%**	**0.20%**
Ensemble	**100.00%**	**45.85%**	**2.31%**	**0.61%**	**0.14%**	**1.64%**	**0.46%**	**0.11%**
	Ratios de taux entre non-vaccinés et complètement vaccinés							
	1.00	1.19	0.92	1.34	0.61	0.74	1.14	0.55
	Ratios de taux entre complètement vaccinés et non-vaccinés							
	1.00	0.84	1.09	0.74	1.64	1.36	0.88	1.81

iv.

Statut vaccinal	Probabilities over symptomatic cases	Admissions et décès hospitaliers					
	dont symptômes	Ensemble			dont RT-PCR positive		
		Hospit. conv.	Soins critiques	Décès	Hospit. conv.	Soins critiques	Décès
Effectifs (en nombre de tests ou de patients)							
Non-vaccinés	100.0%	5.3%	1.5%	0.3%	3.6%	1.1%	0.2%
Primo dose récente	100.0%	1.8%	0.3%	0.0%	1.5%	0.3%	0.0%
Primo dose efficace	100.0%	3.2%	0.8%	0.2%	2.6%	0.5%	0.1%
Vaccination complète	100.0%	6.8%	1.3%	0.6%	5.8%	1.1%	0.5%
Ensemble	100.0%	5.0%	1.3%	0.3%	3.6%	1.0%	0.2%
	Ratios de taux entre non-vaccinés et complètement vaccinés						
	1.00	**0.77**	**1.13**	**0.52**	**0.62**	**0.96**	**0.47**
	Ratios de taux entre complètement vaccinés et non-vaccinés						
	1.00	**1.30**	**0.88**	**1.94**	**1.61**	**1.04**	**2.15**