I BEST OF THE WEEK (24 – 30 gen 2022)

Articolo	ABSTRACT	Contenuto e Commento
Møller IJB et al.	Abstract	
Int J Infect Dis.	viseduser acceptability, and safety of nasal self-RADTs, compared to PCR testing.tests ne.Methods: Self-RADT kits were distributed at a public COVID- 19 test center in Aarhus, Denmark or delivered to participants. Participants reported test results and test preferences. During enrollment, participants reported occurrence and duration of symptoms consistent with COVID-19. Sensitivity and specificity of self-RADT, relative to oropharyngeal PCR testing, were calculated.	In questo studio danese su 827 partecipanti viene valutata la capacità diagnostica del tampone antigenico rapido effettuato a domicilio rispetto al tampone molecolare, standard diagnostico di riferimento. Ne emerge una discreta sensibilità (62-65%) e un'elevatissima specificità (100%) ; inoltre, la maggior parte dei pazienti sembra preferire il test antigenico a domicilio rispetto al test molecolare effettuato da personale specializzato. Identificare un valido test rapido, poco costoso e di facile esecuzione da poter effettuare a livello capillare rappresenta una sfida per la « test-trace-isolate strategy » (TETRIS). Il test rapido analizzato in questo studio, nonostante sia di facilissima esecuzione, interpretazione e abbia un costo contenuto, è gravato da una percentuale di falsi negativi troppo elevata.
Diagnostic performance, user acceptability, and safety of unsupervised		
SARS-CoV-2 rapid antigen detecting tests performed at home. <u>https://www.ncbi.nlm.</u> <u>nih.gov/pmc/articles/P</u> <u>MC8759098/pdf/main.</u>		
pdf	Results: Among 827 participants, 102 showed positive PCR test results. Sensitivities of the self-RADTs were 65.7% (95%	

Wolter N et al	 Hangzhou), and specificities were 100% (95% CI: 99.0-100; DNA Diagnostic) and 100% (95% CI: 98.9-100; Hangzhou). The sensitivities of both self-RADTs appeared higher in symptomatic participants than in asymptomatic participants. Two out of every three participants preferred self-RADT over PCR test. Conclusion: Self-performed RADTs were reliable, user acceptable, and safe among laypeople as supplement to professionally collected oropharyngeal PCR testing. Background The SARS-CoV-2 omicron variant of concern was identified in South Africa in November, 2021, and was 	
Early assessment of the clinical severity of the SARS-CoV-2 omicron variant in South Africa: a data linkage study The Lancet	identified in South Africa in November, 2021, and was associated with an increase in COVID-19 cases. We aimed to assess the clinical severity of infections with the omicron variant using S gene target failure (SGTF) on the Thermo Fisher Scientific TaqPath COVID-19 PCR test as a proxy. Methods We did data linkages for national, South African COVID-19 case data, SARS-CoV-2 laboratory test data, SARS- CoV-2 genome data, and COVID-19 hospital admissions data. For individuals diagnosed with COVID-19 via TaqPath PCR tests, infections were designated as either SGTF or non- SGTF. The delta variant was identified by genome sequencing. Using multivariable logistic regression models,	Studio retrospettivo nazionale di data linkages condotto in Sud-Africa con l'obiettivo di valutare la gravità clinica delle infezioni da variante omicron a confronto con infezioni da variante delta, utilizzando la perdita del gene S al test PCR per COVID-19 (SGTF) come proxy di variante omicron. I risultati dell'analisi suggeriscono che pazienti con SGTF hanno un ridotto rischio di ospedalizzazione e di malattia severa, probabilmente come risultato di una precedente immunità.
https://www.thelancet. com/action/showPdf?pi i=S0140-	we assessed disease severity and hospitalisations by comparing individuals with SGTF versus non-SGTF infections diagnosed between Oct 1 and Nov 30, 2021, and we further	

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6736%2822%2900017-	assessed disease severity by comparing SGTF-infected	
<u>4</u>	individuals diagnosed between Oct 1 and Nov 30, 2021, with	
	delta variant-infected individuals diagnosed between April 1	
	and Nov 9, 2021.	
	Findings From Oct 1 (week 39), 2021, to Dec 6 (week 49),	
	2021, 161328 cases of COVID-19 were reported in South	
	Africa. 38282 people were diagnosed via TaqPath PCR tests	
	and 29721 SGTF infections and 1412 non-SGTF infections	
	were identified. The proportion of SGTF infections increased	
	from two (3·2%) of 63 in week 39 to 21978 (97·9%) of 22455	
	in week 48. After controlling for factors associated with	
	hospitalisation, individuals with SGTF infections had	
	significantly lower odds of admission than did those with	
	non-SGTF infections (256 [2·4%] of 10547 vs 121 [12·8%] of	
	948; adjusted odds ratio [aOR] 0·2, 95% Cl 0·1–0·3). After	
	controlling for factors associated with disease severity, the	
	odds of severe disease were similar between hospitalised	
	individuals with SGTF versus non-SGTF infections (42 [21%]	
	of 204 vs45 [40%] of 113; aOR 0·7, 95% Cl 0·3–1·4).	
	Compared with individuals with earlier delta variant	
	infections, SGTF-infected individuals had a significantly lower	
	odds of severe disease (496 [62·5%] of 793 vs 57 [23·4%] of	
	244; aOR 0·3, 95% Cl 0·2–0·5), after controlling for factors	
	associated with disease severity.	
	accounted with alocade sevency.	
	Interpretation Our early analyses suggest a significantly	
	reduced odds of hospitalisation among individuals with SGTF	
	versus non-SGTF infections diagnosed during the same time	

	period. SGTF-infected individuals had a significantly reduced odds of severe disease compared with individuals infected earlier with the delta variant. Some of this reduced severity is probably a result of previous immunity.	
Shoji K et al Clinical characteristics and outcomes of COVID-19 in pregnant women: a propensity score matched analysis of the data from the COVID-19 Registry Japan Clinical Infectious Diseases	Background Several studies have investigated whether pregnancy is a risk factor for developing severe COVID-19; however, the results remain controversial. In addition, the information regarding risk factors for developing severe COVID-19 in pregnant women is limited. Methods A retrospective cohort study analyzing the data from the nationwide COVID-19 registry in Japan was conducted. Propensity score matched analysis was performed to compare COVID-19 severity between pregnant and nonpregnant women. Multivariate analysis was also conducted to evaluate risk factors for developing moderate- to-severe COVID-19 in pregnant women. Results	Studio retrospettivo di coorte condotto utilizzando i dati del registro COVID-19 nazionale giapponese in cui 187 donne in gravidanza sono state matchate per gravità con 935 donne non in gravidanza per valutare i fattori di rischio di sviluppare malattia moderato-severa nelle donne in gravidanza. I risultati hanno dimostrato che la gravidanza in sè rappresenta un fattore di rischio per forme moderato-severe e che nelle donne in gravidanza la presenza di comorbidità e le fasi avanzate di gravidanza (secondo e terzo trimestre) rappresentano fattori di rischio per forme moderato-severe di COVID-19.
https://academic.oup.c om/cid/advance- article/doi/10.1093/cid /ciac028/6509063	During the study period, 254 pregnant and 3752 nonpregnant women of reproductive age were identified. After propensity score matching, 187 pregnant women and 935 nonpregnant women were selected. A composite outcome of moderate-to-severe COVID-19 was more	

frequently observed in pregnant women than that of	
nonpregnant women (n=18, 9.6% vs. n=46, 4.9%; <i>P</i> =0.0155).	
In multivariate analysis, the presence of underlying diseases	
and being in the second-to-third trimester of pregnancy	
were recognized as risk factors for moderate-to-severe	
COVID-19 in pregnant women (odds ratio [95% confidence	
interval]: 5.295 [1.21-23.069] and 3.871 [1.201-12.477],	
respectively).	
Conclusions	
Pregnancy could be a risk factor for moderate-to-severe	
COVID-19 for women in Japan. In addition to the presence of	
comorbidities, advanced pregnancy stages may contribute to	
greater risks for developing moderate-to-severe COVID-19 in	
pregnant women.	