

Are concerned

ASSESSMENT OF SUSPICION OF ALLERGY TO CORONAVIRUS DISEASE 2019

VACCINE BY SKIN TESTING: RESULTS FROM A MONOCENTRIC COHORT

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Background and importance

National recommendations mentioned to vaccinate against COVID-19 patients at risk of allergy after referring them to allergologist.

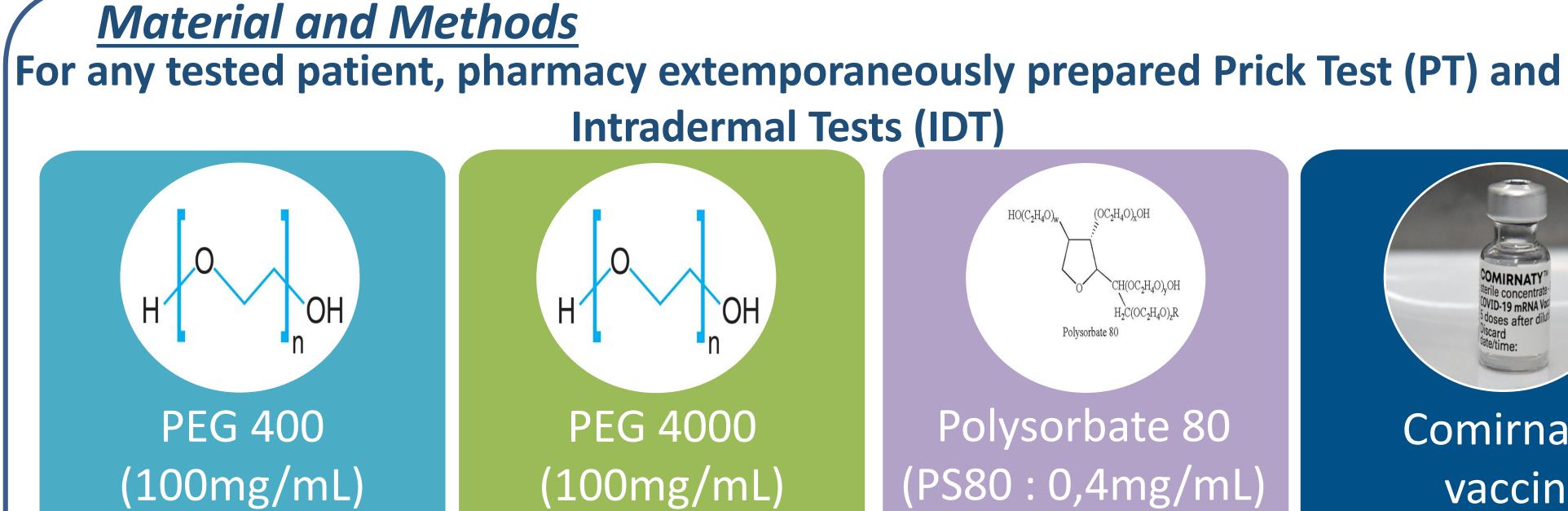
patients with suspected allergy to one of the vaccine's component (polyethylene glycols (PEG) and polysorbates)

patients with history of immediate reaction to a first injection of an mRNA vaccine)

> Patients at risk were referred to the pneumology - allergology unit for investigation.

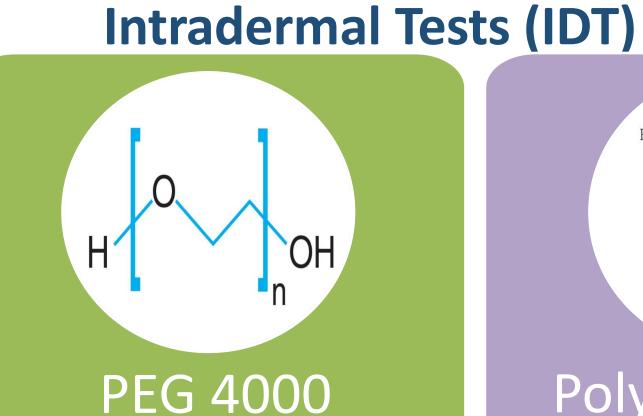
Aim and Objectives

The purpose of this monocentric retrospective study is to assess positive skin tests, and anaphylaxis reaction during vaccination after allergological work-up.





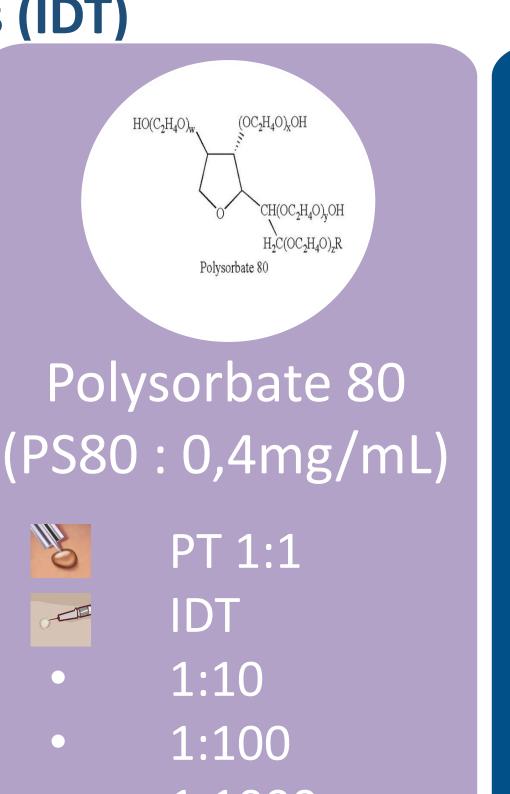
- 1:10
- 1:100
- 1:1000
- 1:10000
- 1:100000



(100 mg/mL)



- 1:10
- 1:100
- 1:1000 1:10000
 - 1:100000





IDT

1:10 1:1000

Were collected:

- Patients characteristics
- Tests results
- Indications of allergological work-up





- The vaccine name and the number of doses
- If there were premedicated And to assess side effects including

Contraindicated

Skin tests readings occur at 20 minutes

7 positive skin

tests



Between February 1 and August 31 2021:

- 49 patients were tested:
- Mean Age: 54.5 years old (yo) Standard deviation: 17.8 yo
- Female: 81.6 %

42 negative skin tests

3 had an immediate reaction

> 4 had a delayed reaction

35 patients were vaccinated (85%)

7 did not answer to the call

1 patient to PS80 PT + Vaccine IDT 1:10

2 patients to vaccine

anaphylaxis

IDT 1:10

4 Vaccinated

No anaphylaxis reaction

Among those 49 patients:

20 were tested after a reaction to Comirnaty® vaccine

29 were tested for a suspected allergy to an excipient

1 after a second dose

19 after a first dose

For patients who responded to the call (: (n=39)

All but one patient were vaccinated at Comirnaty® vaccine

82% (32/39) of patients received their second dose of vaccine

- 31% (13/39) of patients were premedicated (started 2 days before vaccination for 38% of them (n=5))
- No patient had an allergic reaction after vaccination and were reported as reactions for 13 patients: headache (n=4), rashes (n=2), sensation of laryngeal oedema (n=1), pharyngeal gene (n=1), hot flash (n=1), swollen lips (n=1), lipothymia (n=1), reflex syncope (n=1), palpebral angioedema (n=1)

Conclusion and Relevance

Positive ST to the vaccine are rare (6%). No patients had simultaneously positive ST to the vaccine and PEG. Those results may suggest that the exact predictive positive value remain uncertain and that IDT to the vaccine might be irritating.