Background and importance
National recommendations mentioned to vaccinate against COVID-19 patients at risk of allergy after referring them to allergologist. Are concerned 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

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.

Material and Methods
For any tested patient, pharmacy extemporaneously prepared Prick Test (PT) and Intradermal Tests (IDT)

Were collected:
- Patients characteristics
- Tests results
- Indications of allergological work-up

Vaccination allowed if negative skin tests

Patients were systematically called by the pharmacist after vaccination to know:
- The vaccine name and the number of doses
- If there were premedicated
And to assess side effects including anaphylaxis

Results
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 %

7 positive skin tests
3 had an immediate reaction
4 had a delayed reaction
35 patients were vaccinated (85%)
7 did not answer to the call

20 were tested after a reaction to Comirnaty® vaccine
29 were tested for a suspected vaccine

1 patient to PS80 PT + Vaccine IDT 1:10
2 patients to vaccine IDT 1:10

Contraindicated

No anaphylaxis reaction

19 after a first dose
1 after a second dose

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))
- 30,8% Desloratadine - 15,4% Levocetirizine – 30,8% Cetirizine - 7,7% Ebastine - 15,4% Bilastine
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.