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## Cutaneous complications of mRNA and AZD1222 covid-19 vaccines: A worldwide review

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**Aim:** Due to the rising cases of cutaneous reactions that are observed worldwide following COVID-19 vaccinations, the aim of this study is to investigate the cutaneous complication that occur following mRNA-1273 (Moderna), BNT162b2 (Pfizer-BioNTech) and AZD1222 (AstraZeneca-Oxford University) vaccination, through the already published reports.

**Material:** Material was gathered from the already published reports regarding the cutaneous complications of the above vaccines, published until September 30, 2021. The search was conducted in the PubMed, Google scholar and Scopus databases, as well as in the preprint server bioRxiv. The review includes eighty studies that describe a total of 1415 complications.

**Results:** More cutaneous reactions were observed in women (81.6%). The most common complication was delayed large local reactions (40.4%), followed by local injection site reactions (16.5%), zoster (9.5%), and urticarial eruptions (9.0%). Injection site and delayed large local reactions were predominantly caused by the mRNA-1273 vaccine (79.5% and 72.0%, respectively). BNT162b2 vaccination was linked to distant reactions (50.1%) more than mRNA-1273 (30.0%). The most common distant reaction was Zoster. Of reactions with adequate information for both vaccine doses, 58.3% occurred only after the first, 26.9% only after the second, and 14.8% after both doses.

**Conclusion:** Overall, a large spectrum of cutaneous reactions occurred following the COVID 19 vaccination. Most were mild and without long-term health implications. Therefore, it appears like such dermatologic complications do not contraindicate subsequent vaccination.

### Biography

Maria-Eleni Paroikaki is currently a Year 4 medical student at Imperial College London. She has a special interest in dermatology and is hoping to pursue a career in the field in the future. She completed her primary and secondary education at the Hellenic American Educational Foundation in Athens, Greece, from which she graduated in 2018. She is a member of the British Association of Dermatology, the Royal Society of Medicine and the British Medical Association, as well as secretary of the Dermatology Society of Imperial College London. During the summer, she had the pleasure to work and be co-author of a worldwide review on the "Cutaneous Complications of mRNA and AZD1222 COVID-19 Vaccines", which got published in the "Microorganisms" journal. Currently, she is working on a research project around leprosy, as part of her intercalated BSc degree in Medical Humanities, Philosophy and Law.

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