

# Beware of getting a tattoo if your immune system isn't up to scratch, doctors warn

June 18 2018

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Getting a tattoo may have some unexpected complications if your immune system isn't up to scratch, warn doctors in the journal *BMJ Case Reports*.

The warning comes after they treated a woman for [chronic pain](#) in her left hip, knee and thigh some months after she had been tattooed.

She had been taking drugs to dampen down her [immune system](#) for several years after receiving a double lung transplant in 2009.

Her right leg had been tattooed several years earlier, with no ill effects, and she decided to have another on her left thigh.

Immediately after this one, she experienced mild skin irritation, which is not unusual, explain the authors. But 9 days later, she developed pain in her left knee and thigh. Her symptoms were so severe that she needed strong painkillers.

Although her symptoms eased, they were still troubling her 10 months later. So she was referred to a rheumatology clinic, where she was tested for various conditions, the results of which all came back negative.

But a biopsy of her thigh [muscle](#) revealed that she had inflammatory myopathy—chronic muscle inflammation. This is often accompanied by muscle weakness and pain.

In many cases, the cause of this isn't known, and it may arise spontaneously. But in this case the doctors believe that it is likely to have been linked to the tattoo process itself, the effects of which may have been compounded by a compromised immune system.

"While we acknowledge that there is no evidence to definitely prove the causative effect, the timing of onset and the location of the symptoms correlated well with the tattoo application and there were no other identifiable factors to cause the pathology," they write.

The woman was given physiotherapy to strengthen her thigh muscles,

and one year after the start of her symptoms, she began to improve. And after three years, she was [pain](#) free.

How the tattooing process might have contributed to the woman's symptoms isn't clear. But it is well known that the type of ink or colourant used in tattoos can cause a reaction, say the authors, who point out that tattooing has been associated with various complications, ranging from mild skin irritation to systemic infection.

"The tattoo industry has no regulated or professional body to enhance standards across the UK," highlight the authors. "In this case, the tattoo application by an unregulated parlour, combined with the patient's immune suppression could have resulted in the adverse reaction," they suggest.

Getting a [tattoo](#) is becoming increasingly popular, they add, so patients with compromised immune systems should be aware of the potential risks associated with this type of decorative body art.

**More information:** Case report: Unusual complication of a tattoo in an immunosuppressed patient, *BMJ Case Reports* (2018). [DOI: 10.1136/bcr-2018-224968](#)

Provided by British Medical Journal

Citation: Beware of getting a tattoo if your immune system isn't up to scratch, doctors warn (2018, June 18) retrieved 2 May 2024 from <https://medicalxpress.com/news/2018-06-beware-tattoo-immune-isnt-doctors.html>

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