



# The Horizon Newsletter

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### **Dermatillomania**

**By: Sruthi Anne**

Dermatillomania (excoriation disorder) is a mental illness connected to obsessive compulsive disorder. There are various causes to this such as trauma and depression. Symptoms are picking at healthy skin, small skin irregularities/deformities, bruises or scabs. If not treated, these skin picking actions may happen on and off for weeks, months, or even years at a time. It is common for people with this disorder to spend a lot of time on their picking behavior. It's a body focused repetitive behavior that usually begins during adolescence around the ages of 12-16. It may also occur among children or adults. Dermatillomania affects about 1.4% of Americans, and is experienced by women more often than men. Currently, treatments include medication therapy.

### **The Apple M1 Chip**

**By: Shrihan Dadi**

Apple recently migrated their Mac lineup of laptops to a new chipset. Since 2006, Apple has used the Intel chipset for its Macs. Now, engineers at Apple have designed an entirely new chip, called the M1 Chip, to be used on the latest macbooks and the Mac mini. The M1 Chip boasts incredible performance and efficiency compared to the Intel chips. Like the chips for the iPhone and iPad, the M1's goal is to bring a new level of integration and better performance for Macs. Unlike distinguished chips, the M1 chip integrates the entire system onto a single chip: it contains a CPU, GPU, RAM, neural engine (for novel machine learning), SSD controller, Thunderbolt controller, and many more components. All of these work together to power the M1 Mac. This unique integration is why M1 Macs are much faster than most of the leading laptops today (such as the Dell XPS 13). Since components can share data (they don't have to copy it), memory overhead is reduced, and performance drastically increases (even for basic tasks). The CPU contains 16 billion transistors, and is based on the ARM architecture (in contrast to Intel's x86).