

A coffee and catnap keep you sharp on the nightshift

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A simple coffee and a quick catnap could be the cure for staying alert on the nightshift as new research from the University of South Australia shows that this unlikely combination can improve attention and reduce sleep inertia.

In Australia, more than 1.4 million people are employed in [shift work](#), with more than 200,000 regularly working night or evening shifts.

Lead researcher, Dr. Stephanie Centofanti from UniSA Online and the Sleep and Chronobiology Laboratory at UniSA says the finding could help counteract the kind of [sleep inertia](#) that is experienced by many shiftworkers.

"Shift workers are often chronically sleep-deprived because they have disrupted and irregular sleep patterns," Dr. Centofanti says.

"As a result, they commonly use a range of strategies to try to boost their alertness while on the nightshift, and these can include taking power naps and drinking coffee—yet it's important to understand that there are disadvantages for both.

"Many workers nap during a night shift because they get so tired. But the downside is that they can experience 'sleep inertia'—that grogginess you have just after you wake up—and this can impair their performance and mood for up to an hour after their nap.

"Caffeine is also used by many people to stay awake and alert. But again, if you have too much coffee it can harm your overall sleep and health. And, if you use it to perk you up after a nap, it can take a good 20-30 minutes to kick in, so there's a significant time delay before you feel the desired effect.

"A '[caffeine](#)-nap' (or 'caff-nap') could be a viable alternative—by drinking a coffee before taking a nap, shiftworkers can gain the benefits of a 20-30-minute nap then the perk of the caffeine when they wake. It's a win-win."

The small pilot study tested the impact of 200 mg of caffeine (equivalent to 1-2 regular cups of [coffee](#)) consumed by participants just before a 3.30am 30-minute nap, comparing results with a group that took a placebo.

Participants taking a 'caffeine-nap' showed marked improvements in both performance and alertness, indicating the potential of a 'caffeine-nap' to counteract sleep grogginess.

Dr. Centofanti says this shows a promising fatigue countermeasure for shift workers. She says the next move is to test the new finding on more people.

More information: Stephanie Centofanti et al, A pilot study investigating the impact of a caffeine-nap on alertness during a simulated night shift, *Chronobiology International* (2020). DOI: [10.1080/07420528.2020.1804922](https://doi.org/10.1080/07420528.2020.1804922)

Provided by University of South Australia

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