

## 05-018 (Doctors' Hours)

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Heavy call was defined as overnight duty every fourth or fifth night, during which residents worked an average of 90 hours per week (80 hours per week after July 1, 2003). Those residents had, on average, three hours and 26 minutes of sleep before the testing sessions.

Residents were tested a total of four times, twice each during two separate sessions conducted at the end of light and heavy call months. Before one of the test sessions, residents were given an amount of vodka found in three to four standard cocktails to achieve a 0.05 blood alcohol concentration – an amount just below the legal driving limit.

Each group performed computer tests to gauge their attention and judgment. They also spent 30 minutes on a driving simulator.

The results: Heavy call and light call with alcohol testing showed similar numbers of attention lapses and slowed reaction times on computerized tests. On the driving simulator, both groups also showed the same level of impairment in their ability to maintain lane position and avoid going off on the road. After heavy call, residents were actually 30 percent more likely to fail to maintain a steady speed on the simulator.

Owens said these results not only have safety implications for medical residents, but other workers who regularly pull down long shifts or go without sleep for extended periods, such as nurses, truck drivers, and police officers.

Former Rhode Island Hospital research assistants Megan Crouch and Jessica Stahl contributed to the work. The American Academy of Sleep Medicine funded the study.

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