

Sleep type predicts day and night batting averages of Major League Baseball players

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A Major League Baseball player's natural sleep preference might affect his batting average in day and night games, according to a research abstract that will be presented Monday, June 13, in Minneapolis, Minn., at SLEEP 2011, the 25th Anniversary Meeting of the Associated Professional Sleep Societies LLC (APSS).

Results indicate that [players](#) who were "morning types" had a higher batting average (.267) than players who were "evening types" (.259) in early games that started before 2 p.m. However, evening types had a higher batting average (.261) than morning types (.252) in mid-day games that started between 2 p.m. and 7:59 p.m. This advantage for evening types persisted and was strongest in late games that began at 8 p.m. or later, when evening types had a .306 batting average and morning types maintained a .252 average.

"Our data, though not statistically significant due to low subject numbers, clearly shows a trend toward morning-type batters hitting progressively worse as the day becomes later, and the evening-types showing the opposite trend," said principal investigator and lead author Dr. W. Christopher Winter, medical director of the Martha Jefferson Hospital [Sleep Medicine](#) Center in Charlottesville, Va.

The study involved 16 players from seven MLB teams: the Houston Astros, Los Angeles Angels, Los Angeles Dodgers, Pittsburgh Pirates, St. Louis Cardinals, San Francisco Giants and Toronto Blue Jays. Sleep preference was determined using a modified version of the Morningness-

Eveningness Questionnaire (MEQ). It identifies a person's tendency to be either a morning type who prefers to go to bed and wake up early, or an evening type who prefers to stay up late at night and wake up late in the day. Nine participants were found to be evening types, and seven were morning types. Both groups had a mean age of 29 years.

The study used the players' statistics from the 2009 and 2010 seasons, which allowed for the analysis of 2,149 innings from early games, 4,550 innings from mid-day games and 750 innings from late games. [Game](#) start times were adjusted for travel using the principle that for every time zone crossed, it takes 24 hours to adjust.

"These results are important as they create an entirely new way to look at athletic talent," said Winter. "Currently, selecting a player for a game situation usually involves factors such as handedness, rest, and possibly previous success against a certain team. Now, the time of day in which the game is occurring and a player's chronotype might be a wise factor to take into account."

Winter noted that he plans to analyze more players and precise batting times to better understand this effect.

Last year at SLEEP 2010, Winter presented the results of a similar study, reporting that pitchers who were morning types performed statistically better overall than those who were evening types. However, in games that started at 7 p.m. or later, pitchers who were evening types performed slightly better than morning types.

Winter added that many MLB teams that have participated in his studies are showing an increasing level of interest in his research after seeing his latest results. With the help of co-investigator Ben Potenza of the San Francisco Giants, and generous assistance from Ron Porterfield of the Tampa Bay Rays, teams have supplied him with more than 300 player

data surveys for analysis.

"Clearly, the teams think it is important," said Winter.

Provided by American Academy of Sleep Medicine

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