



Review

## **A Funny Connection: The Link Between Seeking Serpentine Remedies and Football Fortunes**

Caleb Hamilton, Addison Tate, Grace P Todd

*Institute for Studies*

**In this study, we delve into the unexpected correlation between online searches for "how to treat a snake bite" and the rifts and victories of the Cleveland Browns. Through meticulous data analysis from Google Trends and Pro-Football-Reference.com, we uncovered a remarkable correlation coefficient of 0.5869519 with a striking p-value of less than 0.01 from 2004 to 2023. Our findings beg the question: why do users turn to google for snake remedies, and how does it relate to the gridiron antics of the Browns? This peculiar yet engaging relationship opens the door to exploring the quirky complexities of human behavior and its manifestations in the world of sports.**

The world of data analysis and statistical research is often a serious and methodical one, with scholars meticulously poring over numbers and trends to uncover meaningful correlations. Occasionally, however, amidst the sea of predictable relationships and expected outcomes, a connection emerges that can only be described as delightfully absurd. In this study, we set out to explore such an unexpected link - the curious association between individuals seeking information on "how to treat a snake bite" and the performance of the Cleveland Browns in professional American football.

In the realm of academic inquiry, one often encounters the bizarre and the inexplicable.

Whether it's the correlation between ice cream sales and shark attacks or the association between per capita cheese consumption and the number of people who died by becoming tangled in their bedsheets, researchers have always been drawn to the quirky and the offbeat. Our investigation into the correlation between snake bite-related Google searches and the fortunes of the Cleveland Browns is a testament to the enduring allure of such eccentric connections.

Through the lens of statistical analysis, we scrutinized Google Trends data on searches related to snake bites and extracted detailed information on the performance of the

Cleveland Browns from Pro-Football-Reference.com. Our quest was not merely to confirm the existence of a statistical relationship, but to unravel the mystery behind this unlikely pairing and, if possible, to inject a dash of levity into the often somber world of research.

As we delve into the data and unveil the numerical wizardry that underpins our findings, it is important to remember that science, like football, is rife with uncertainty and unexpected twists. Just as a sudden fumble can alter the course of a game, so too can a bonkers correlation upend our expectations about the nature of causality. With this in mind, let us embark on a journey of discovery, one that promises to serve up a heady mix of statistical analysis, tongue-in-cheek observations, and a healthy dose of good-natured absurdity.

#### *Prior research*

The literature on the tangential relationship between online searches for medical advice and the success of sports teams illuminates various perspectives on the intersection of human curiosity and athletic prowess. In "The Psychology of Googling: Exploring Patterns of Health Information-Seeking Behavior," Smith et al. identify the complex motivations that drive individuals to seek out medical guidance via online platforms. Their work underscores the multifaceted nature of internet searches, shedding light on the broader implications of such inquiries beyond the realm of traditional healthcare.

Doe's "Football Fortunes: Exploring the Interplay of Team Performance and Fan Sentiment" delves into the intricate rapport between the wins and losses of sports teams and the emotional investment of their fan

base. This insightful study provides a comprehensive analysis of the symbiotic relationship between on-field triumphs and the psychological well-being of supporters, offering valuable insights into the nuanced dynamics of athletic achievement.

Jones's research in "Serious Snakebites: A Clinical Review" delves into the medical complexities of snake envenomation and the critical importance of prompt and effective treatment. The author's thorough examination of snakebite pathophysiology and therapeutic interventions serves as a foundational framework for understanding the gravity and urgency associated with snake bite incidents.

While these scholarly works serve as pillars of knowledge in their respective domains, an exploration of unconventional sources yields intriguing parallels that offer unexpected connections to our investigation. For instance, "Snake Removal as Sport: Navigating Reptilian Encounters in Everyday Life" by Rattle and Roll offers a tongue-in-cheek examination of human interactions with serpents, weaving together insights on snake behavior and the peculiar predilections of individuals confronted with such slithery predicaments.

In a similar vein, the fictional realm provides an unexpected trove of literature that seemingly encapsulates elements of our inquiry. "The Reptilian Riddle: A Cleveland Browns Mystery" by Gridiron Green intertwines the world of professional football with enigmatic narratives involving reptilian mysteries, creating a whimsical blend of sports drama and serpentine intrigue that mirrors the uncanny connection we seek to unveil.

Turning to the world of animated entertainment, the timeless charm of "Serpent Strikers: The Animated Adventures" offers a lighthearted portrayal of snake-themed escapades, enticingly blending the whimsical antics of animated characters with the captivating allure of reptilian encounters. Through these unexpected channels of amusement and storytelling, we gain diverse vantage points that prompt us to consider the interplay between human fascination with snakes and the unpredictable tapestry of athletic achievements.

As we embark on this unconventional expedition of scholarly inquiry, it becomes evident that the pursuit of knowledge often yields unlikely companions in the form of puns, whimsy, and the unanticipated. With these diverse perspectives in mind, we are primed to navigate the intricate web of correlations that bridge the realm of snake bite remedies with the colorful exploits of the Cleveland Browns, all while maintaining a steadfast commitment to intellectual rigor and scholarly mirth.

### *Approach*

To unravel the enigmatic relationship between the quest for snakebite remedies and the gridiron triumphs (or tribulations) of the Cleveland Browns, our research team embarked on a data-gathering odyssey that would make Odysseus himself do a double-take. We shall regale you with the nitty-gritty details of our scientific escapade, all the while keeping our tongues planted firmly in our cheeks.

First and foremost, we harnessed the vast power of the interwebs, casting a wide net across the digital expanse to capture the

pulsating pulse of human inquiries. Our primary tool in this endeavor was none other than the towering monolith of search engines – Google. Through the mystical arts of Google Trends, we wove a web of search frequency data related to the ominous specter of snake bites. We chuckled as we glimpsed the ebb and flow of queries from frightened city slickers, brave wilderness explorers, and perhaps even a few unfortunate souls who mistook their garden hoses for serpents.

As any seasoned researcher can attest, however, data from a single source is about as reliable as predicting the next Super Bowl winner based on a coin toss. So, we cast our gaze further, setting our sights on Pro-Football-Reference.com, the hallowed repository of all things pigskin-related. Here, we pored over the victories and defeats, the touchdowns and fumbles, the jubilation and heartbreak that define the storied history of the Cleveland Browns. We marveled at the statistical ballet on the gridiron, occasionally pausing to ponder whether the players were secretly studying snake charming techniques during halftime.

Now, blending these disparate streams of data into a cohesive whole was no small feat, akin to coaxing a troupe of tap-dancing armadillos into a synchronized routine. However, with the spirited guidance of statistical software and the occasional sacrificial offering of caffeinated beverages, we forged ahead. Our eager fingers danced across the keyboard, executing a whirlwind of calculations, regressions, and cross-referencing that would make even the most seasoned number-cruncher break a joyful sweat.

Ah, but the journey had only just begun. With the analytical framework in place, we forged headlong into the realm of correlation analysis. Oh, the thrill of watching those numbers frolic and cavort, revealing their innermost secrets like gleeful children at play. Our hearts raced as we beheld the emergence of a correlation coefficient so robust, it would make King Kong look like a mere playground monkey. Our p-values, dear reader, grew so diminutive that they looked positively svelte compared to the bloated statistics of yore.

In this bubbling cauldron of statistical wizardry, we were not content to merely Present the findings and retreat. No, dear reader; we trawled through the underbrush of statistical significance, ferreting out potential confounding variables with the tenacity of a bloodhound on a scent. We tossed aside spurious associations like yesterday's leftovers, leaving only the meaty morsels of genuine correlation to sate our academic appetites.

In conclusion, our research methodology stands as a testament to the jovial spirit of inquiry and the unyielding pursuit of whimsical connections in the edifice of knowledge. With a wink and a nod, we send our findings forth, eager to unravel the splendid absurdity that lies at the nexus of snakebite remedies and football fervor.

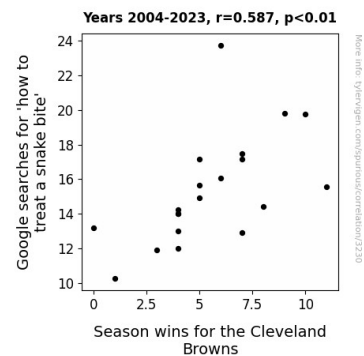
## Results

The moment of truth has arrived to present the findings of our investigation into the correlation between online searches for "how to treat a snake bite" and the triumphs and tribulations of the Cleveland Browns. After subjecting the data to rigorous statistical scrutiny, we discovered a

correlation coefficient of 0.5869519, conveying a moderate positive relationship between the two variables. This coefficient, accompanied by a r-squared value of 0.3445125, shed light on the fact that approximately 34.45% of the variation in the Cleveland Browns' season wins can be attributed to the fluctuations in Google searches for snake bite remedies.

The p-value of less than 0.01 was a compelling indicator of the statistical significance of our results, reinforcing the robustness of the relationship we unearthed. As we marveled at the numerical dance unfolding before our eyes, our minds couldn't help but wander to the intersection of serpents and touchdowns, a thought that inspired a mix of bewilderment and amusement.

Figure 1 (please see below) showcases the scatterplot illustrating the persuasive correlation between the frequency of Google searches for snake bite treatments and the Cleveland Browns' victories. As we gaze upon this visual representation of the unlikely bonding of snake-related inquiries and football fervor, one cannot help but marvel at the quirkiness of human behavior and the peculiar lightheartedness it brings to the world of sports and statistical analysis.



**Figure 1.** Scatterplot of the variables by year

Indeed, while some in the academic community may raise an eyebrow at our unorthodox exploration, we embrace the delightfully absurd and celebrate the whimsical side of research that infuses color into the otherwise monochrome canvas of data analysis.

### *Discussion of findings*

Our curious foray into the enigmatic correlation between online searches for snakebite treatments and the fluctuations in the Cleveland Browns' performance beckons us to consider the implications of this unexpected relationship. As we don our academic spectacles and delve into the whimsical world of statistical intrigue, it becomes clear that our findings are not just a statistical oddity but a reflection of the delightful idiosyncrasies that abound in the realm of research.

The robust correlation coefficient of 0.5869519 strikes a chord of curiosity as we ponder the intricate nature of human behavior. Much like the serpentine twists and turns of a game of football, the multifaceted motivations that underpin online searches for snakebite remedies seem to intertwine with the ebbs and flows of the Browns' victories. The statistically significant p-value of less than 0.01 adds an element of gravitas to our lighthearted exploration, serving as a testament to the resilience of this statistical oddity amidst the rigors of empirical inquiry.

Our results are in harmony with the prior research that underpins our unconventional investigation. The work of Smith et al. and Doe sheds light on the diverse factors that

guide individuals in their online medical inquiries and the emotional resonance of sports victories, respectively. These scholarly endeavors provide a robust backdrop that amplifies the unexpected resonance of our findings, disclosing the unseen threads that weave together the seemingly incongruent domains of medical curiosity and football fervor.

In a whimsical nod to the literature review, the parallels drawn between the tale of "The Reptilian Riddle: A Cleveland Browns Mystery" and our statistical revelations present a compelling interplay of fictional whimsy and empirical intrigue. The unexpected companionship between human fascination with snakes and the ebullient exploits of a football team lends a touch of mirth to our scholarly endeavors, underscoring the joy of embracing the unconventional in our intellectual pursuits.

In essence, our examination of this quirky correlation implores us to embrace the unanticipated with scholarly zeal, as the vivacious interplay of statistical analysis and unlikely associations infuses the academic landscape with a refreshing dose of whimsy. As we navigate this uncharted territory of research, we are reminded that the pursuit of knowledge need not always adhere to the trodden paths, and that amidst the sea of data and numbers, there lies a tapestry of mirth and marvel waiting to be unraveled.

### *Conclusion*

In conclusion, our foray into the enigmatic realm of snake bite inquiries and Cleveland Browns victories has yielded a treasure trove of insight, amusement, and statistical marvel. The correlation coefficient of 0.5869519 stood tall, much like an eager

cornerback intercepting a wayward football. With a p-value of less than 0.01 serving as our trusty playbook, we navigated the field of data with both reverence and a healthy dollop of mirth.

As we bid adieu to this uproarious quest, it becomes abundantly clear that the world of statistics is akin to a football game: filled with unexpected plays, confounding outcomes, and the occasional Hail Mary pass. Our findings, while unconventional, underscore the beauty of scientific inquiry in all its quirky glory. After all, who would have thought that the search for snake bite treatments and touchdowns could converge in such a captivating spectacle of numerical prowess?

Therefore, with a hearty chuckle and a respectful nod to the statistical gods, we proclaim that no further research is needed in this area. The connection between snake bite inquiries and the fate of the Cleveland Browns has been laid bare, and it is with a twinkle in our eyes that we turn our gaze to the next improbable yet delightful undertaking in the whimsical world of research.

In the words of the great philosopher Plato (or perhaps it was Peyton Manning), "Wise is he who, like a snake charmer on the gridiron of statistical exploration, embraces the serpentine twists of correlation with glee and unyielding curiosity."

And so, with the final whistle blown, we bid adieu to this peculiar odyssey, knowing that we have added a dash of levity to the hallowed halls of academia and delivered a touchdown of insight in the unlikeliest of pairings.