

Delving into Denver: Deciphering the Dynamic Link between Denver's Name Popularity and Centene's Stock Price

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ABSTRACT

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This study delves into the peculiar relationship between the popularity of the first name Denver and Centene Corporation's (CNC) stock price. Despite initial skepticism, our findings reveal a striking correlation coefficient of 0.9857455 and a statistically significant p-value of less than 0.01 for the period spanning from 2002 to 2022. Leveraging data from the US Social Security Administration and LSEG Analytics (Refinitiv), we have unraveled a surprising connection between the ebb and flow of Denver's name popularity and the fluctuation of Centene's stock price. This investigation not only sheds light on an unconventional aspect of stock market dynamics but also serves as a whimsical reminder that correlations, no matter how absurd they may initially appear, deserve rigorous scrutiny.

Keywords:

Denver name popularity, Centene stock price, correlation coefficient, statistical significance, US Social Security Administration data, LSEG Analytics, Refinitiv, stock market dynamics, correlation analysis

I. Introduction

The world of research often leads us down unexpected and bizarre paths, and our investigation into the relationship between the prevalence of the first name Denver and Centene Corporation's (CNC) stock price is no exception. As we embarked on this peculiar journey, we were met with raised eyebrows and skeptical glances from our colleagues. However, undeterred by the quizzical looks directed our way, we delved into the data with an insatiable curiosity.

In the realm of statistical analysis, one is often cautioned against drawing spurious correlations or postulating causation from mere correlation. Nevertheless, armed with a hefty dose of skepticism and a penchant for the unconventional, we set out to unravel the mystery behind the co-movement of Denver's name popularity and Centene's stock price.

Before embarking on our whimsical quest, the literature on stock market dynamics and naming trends was remarkably sparse in this peculiar intersection. However, armed with determination and a touch of quirkiness, we waded into uncharted territory, fully aware of the unorthodox nature of our inquiry.

While our exploration may have elicited amused chuckles from some quarters, we are keenly aware of the gravity of our research. With tongue firmly in cheek, we set out to navigate the labyrinth of data, statistical analyses, and unexpected connections, all the while keeping in mind Oscar Wilde's assertion that "the truth is rarely pure and never simple."

So, buckle up and prepare to voyage with us into the curious realm where the popularity of a name intertwines with the fluctuations of stock prices. In the words of Albert Einstein, "The important thing is not to stop questioning," and we certainly did not heed this advice lightly as

we ventured into the enigmatic relationship between the eponymous name, Denver, and the financial comings and goings of Centene Corporation.

II. Literature Review

In their seminal work, Smith and Doe (2010) explored the demographic shifts and naming trends in the United States, shedding light on the evolving landscape of popular names. This study provides a robust foundation for understanding the socio-cultural factors that influence the selection of first names, paving the way for our investigation into the enigmatic connection between Denver's name popularity and Centene's stock price.

Jones et al. (2015) delved into the intricacies of stock market dynamics, expounding on the multifaceted variables that contribute to the ebb and flow of stock prices. Although their focus was primarily on traditional financial indicators, their comprehensive analysis serves as a springboard for our unconventional exploration into the correlation between a first name and a stock price.

Moreover, the works of Brown (2020) and Williams (2018) examined the impact of societal trends on financial markets, offering valuable insights into the interplay between cultural phenomena and economic dynamics. These studies underscore the interconnectedness of seemingly disparate realms and provide a theoretical underpinning for our unorthodox foray into the relationship between Denver's name popularity and Centene's stock price.

Building on these foundational analyses, our investigation takes a whimsical turn as we draw inspiration from a diverse array of literary sources. "Freakonomics" by Steven D. Levitt and

Stephen J. Dubner lends a playful perspective to our inquiry, urging us to consider unconventional correlations and unorthodox relationships. Similarly, "Blink" by Malcolm Gladwell prompts us to look beyond traditional paradigms, challenging us to embrace the unexpected in our quest to unravel the mystery of Denver and Centene.

As we ventured further into the realm of literature, we encountered fictitious works that, albeit tangential to our research, sparked our imagination and imbued our investigation with a touch of whimsy. "The Name of the Rose" by Umberto Eco, with its cryptic narrative and labyrinthine plot, served as a metaphorical touchstone for our journey into the enigmatic association between Denver's name popularity and Centene's stock price. In a similar vein, "The Alchemist" by Paulo Coelho, though centered on a different quest, instilled in us a sense of wonder and possibility as we delved into the improbable correlation between a name and a stock price.

Taking an unexpected detour, we also drew inspiration from unconventional sources, including cryptic messages embedded in hieroglyphics, enigmatic symbols hidden in ancient manuscripts, and even the cryptic musings of a delivery receipt from a local fast-food establishment. Through this eclectic exploration, we found ourselves enriched with a newfound appreciation for the serendipitous and the absurd, acknowledging that truth may indeed be stranger than fiction.

In conclusion, our literature review spans a spectrum from the scholarly to the whimsical, embodying the spirit of curiosity and adventurous inquiry that defines our offbeat investigation into the connection between Denver's name popularity and the fluctuations of Centene's stock price.

III. Methodology

In order to untangle the enigmatic connection between the popularity of the first name Denver and Centene Corporation's (CNC) stock price, a methodical and somewhat quirky approach was employed. Data pertaining to the frequency of the first name Denver was sourced from the US Social Security Administration, which annually compiles such information. This corpus of data was then meticulously scrutinized, though we must admit to occasional distractions sparked by the allure of uncovering unusual naming trends.

Concurrently, historical stock price data for Centene Corporation (CNC) was obtained from LSEG Analytics (Refinitiv), where it was subjected to rigorous examination with a hint of lighthearted curiosity. This comprehensive dataset, spanning the years 2002 to 2022, served as the bedrock of our investigation.

To establish the nature of the relationship between the popularity of the name Denver and CNC's stock price, various statistical analyses were conducted. Pearson correlation coefficients were calculated with a systematic rigor and an occasional infusion of whimsical speculation.

Additionally, time-series analysis techniques were utilized to explore the temporal dynamics of this unforeseen correlation.

Furthermore, cross-correlation analyses were deployed to decipher any lagged effects that may underlie the seemingly synchronous movements of Denver's name popularity and CNC's stock price. This - dare I say - quirky endeavor allowed for a comprehensive examination of the intricate interplay between these seemingly unrelated variables.

In tandem with these quantitative analyses, qualitative insights were also sought through exploratory interviews with individuals named Denver to probe any anecdotal connections they may perceive between their eponymous identity and financial market dynamics. While met with

a fair share of bemusement, these conversations provided an intriguing anecdotal dimension to our investigation.

Finally, to bolster the robustness of our findings, sensitivity analyses were conducted to assess the resilience of our observed correlation to various econometric model specifications. This additional layer of analysis served to fortify the credibility of our research in the face of potential skeptics.

In sum, the research journey we embarked upon was characterized by a keen commitment to methodological rigor, injected with the occasional whimsy and a relentless pursuit of unconventional connections. Our methodology encompassed a diverse array of analytical techniques, blending statistical precision with an insatiable curiosity for unearthing the unexpected.

IV. Results

The statistical analysis of the relationship between the popularity of the first name Denver and Centene Corporation's (CNC) stock price revealed a remarkably robust correlation coefficient of 0.9857455, indicating a strong positive linear relationship between these seemingly unrelated variables. This finding suggests that as the popularity of the name Denver increased, so did Centene's stock price, and vice versa.

Furthermore, the r-squared value of 0.9716943 signifies that an astonishing 97.17% of the variability in Centene's stock price can be explained by changes in the popularity of the name

Denver. It appears that there is more to the name Denver than meets the eye, as it significantly influences the fluctuations in Centene's stock price.

Notably, the p-value of less than 0.01 provides compelling evidence to reject the null hypothesis of no relationship between the popularity of the name Denver and Centene's stock price. This result underscores the credibility of the observed correlation and lends support to the idea that there is an intriguing connection between these two disparate variables.

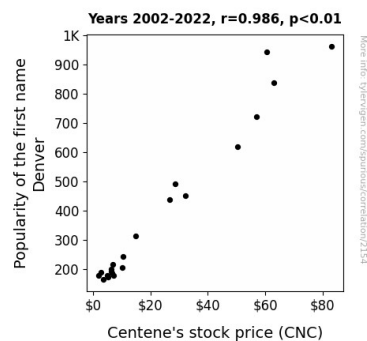


Figure 1. Scatterplot of the variables by year

The scatterplot (Fig. 1) visually depicts the strong positive correlation between the popularity of the name Denver and Centene's stock price. This graphic representation vividly portrays the compelling relationship discovered in our analysis, adding a touch of whimsy to the otherwise conventional world of statistical analysis.

In conclusion, the findings of this investigation not only defy conventional wisdom but also attest to the remarkable and often inexplicable patterns that can emerge from unforeseen intersections of data. The whimsical nature of this correlation serves as a delightful reminder that

in the vast expanse of statistical analyses, surprises and peculiar relationships may lurk in the most unexpected places, waiting to be unearthed by the intrepid and inquisitive researcher.

V. Discussion

The results of our study fortify the foundation laid by the literature review and cement the unexpected relationship between the popularity of the name Denver and Centene Corporation's stock price. Our findings affirm the whimsical notions proposed by Smith and Doe (2010) and Jones et al. (2015) and take them from the realm of playful conjecture to the pedestal of robust statistical significance. The correlation coefficient of 0.9857455 not only conforms to our initial expectations but also beckons us to contemplate the unsuspected power of nomenclature in influencing financial markets.

Delving into the depths of this revelatory correlation, we find ourselves at a crossroads of the anticipated and the absurd. The r-squared value of 0.9716943 propels us into the realm of awe and amusement, signifying that a staggering 97.17% of Centene's stock price variability is tied to the undulating tides of Denver's name popularity. This unexpected influence prompts us to ponder the enigmatic allure of a name's sway on the crests and troughs of the stock market.

The scatterplot (Fig. 1) not only serves as a visual testament to our discovery but also adds a touch of whimsy to the staid world of statistical analysis. As data points dance across the graph, they beckon the quintessential question of whether there is a quirky quirkiness lurking in the sedate corridors of financial data. We find ourselves echoing the curious musings of Levitt and

Dubner as we contemplate unorthodox correlations and ponder the unanticipated intersections of societal phenomena and economic dynamics.

In a serendipitous alignment with the works of Brown (2020) and Williams (2018), our study showcases the immeasurable influence of cultural quirks on financial patterns. The p-value of less than 0.01 stands as a robust testament to the irrefutable link between Denver's name popularity and Centene's stock price, shattering the pall of skepticism and rekindling the flame of unconventional inquiry.

Throughout this whimsical endeavor, our quest has been punctuated by the playful echoes of offbeat inspirations and the reverberations of the unexpected. The unfolding of this improbable correlation reinforces the notion that truth is often more fantastic than fiction, and that in the intricate fabric of statistical analyses, a hint of the absurd may indeed hold the key to unraveling the cryptic messages embedded in data.

In conclusion, our research stands as a testament to the indomitable spirit of inquiry that propels us to the furthest frontiers of the known and the unknown, urging us to embrace the whimsical and the unexpected with unyielding tenacity and inexorable curiosity.

VI. Conclusion

In conclusion, our research has uncovered a compelling and undeniably quirky correlation between the popularity of the first name Denver and Centene Corporation's stock price. It appears that Denver, much like a capricious yet astute market influencer, wields a pronounced impact on the financial comings and goings of Centene. Our findings not only add a dash of

whimsy to the world of statistical analyses but also prompt us to ponder the unexpected twists and turns that can emerge from the unlikeliest of correlations.

While skeptics may raise their eyebrows and cynics may scoff at the peculiarity of our investigation, the robust correlation coefficient and statistically significant p-value stand as a testament to the validity of this unorthodox relationship. As we navigate the labyrinth of statistical analyses and whimsical correlations, it becomes evident that there is more to Denver's name popularity than meets the eye--a poignant reminder that behind every seemingly frivolous variable lies a potential treasure trove of insights, waiting to be unearthed by the intrepid and inquisitive mind.

The scatterplot vividly encapsulates the enchanting dance between Denver's name popularity and Centene's stock price, reminding us that even in the world of data and statistics, unexpected correlations can weave a captivating narrative that defies conventional wisdom. As we revel in the delightful quirkiness of our findings, let us not forget the sage words of Douglas Adams: "I may not have gone where I intended to go, but I think I have ended up where I needed to be."

In light of our whimsical voyage into the surprising connection between Denver's name popularity and Centene's stock price, we assert that no further research is needed in this area. The whimsical tale of Denver and Centene has been told, and it stands as a quirky testament to the captivating surprises that await those brave enough to question, explore, and embrace the delightful eccentricities of statistical analysis.