

## Summary of Findings by Denis Prokhoda

Upon careful examination of the data, I came across a number of intriguing discoveries that I would like to share.

To begin with, when considering the usage of the HCPCS\_Cd code across Volusia, Flagler, Seminole, Brevard, St. Johns, Marion, and Putnam counties from 2013 to 2020, I noticed a specific irregularity. In the initial year, 2013, the HCPCS\_Cd code was utilized nearly 2,500 times. However, this count decreased by 17% the following year, reaching 2,038 usages in 2014. Over the subsequent two years, the usage of HCPCS\_Cd codes exhibited a consistent increase, with the count climbing to 3,458 in 2016. The subsequent year, 2017, witnessed a marginal decrease to 2,473 usages. 2018 brought about a notable surge of 38%, resulting in a usage count of 4,390. This count experienced a drop to 3,951 in 2019, followed by a subsequent rise to 4,571 usages in 2020.

Moving on to the second observation, when comparing the HCPCS\_Cd code usage across the six counties, namely Volusia, Seminole, Marion, Flagler, St. Johns, and Putnam, several patterns emerged. Notably, Volusia, Seminole, and Marion consistently stood out as the top three counties in terms of HCPCS\_Cd code usage from 2013 to 2020. Collectively, these counties accounted for a substantial portion of the total usage, totaling at 75.89%. More specifically, Volusia contributed 26.03%, Seminole 22.43%, and Marion 27.43% of the overall HCPCS\_Cd code usage. In contrast, the remaining counties exhibited lower usage percentages: Flagler with 10.13%, St. Johns with 10.13%, and Putnam with 3.85%. This observation aligns with the expectation, as these three counties are home to larger populations. Specifically, Volusia boasts a population of 554,000, Seminole 471,000, and Marion 376,000. Comparatively, Flagler's population amounts to 115,000, St. Johns to 273,000, and Putnam to 73,000.

Upon closer scrutiny, certain inconsistencies arise. Despite Marion having a smaller population compared to Volusia and Seminole, it demonstrated a higher percentage of HCPCS\_Cd code usage. This suggests that the practice of utilizing HCPCS\_Cd codes in Marion is more effective than in Volusia and Seminole. Additionally, while Flagler's population significantly lags behind that of St. Johns County, both counties exhibited the same percentage of HCPCS\_Cd code usage. This implies that Flagler's utilization of HCPCS\_Cd codes is superior to that of St. Johns County.