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The Information-Seeking Behaviors of Pediatricians regarding Treatment Benefits and Harms at Lehigh Valley Health Network (LVHN).

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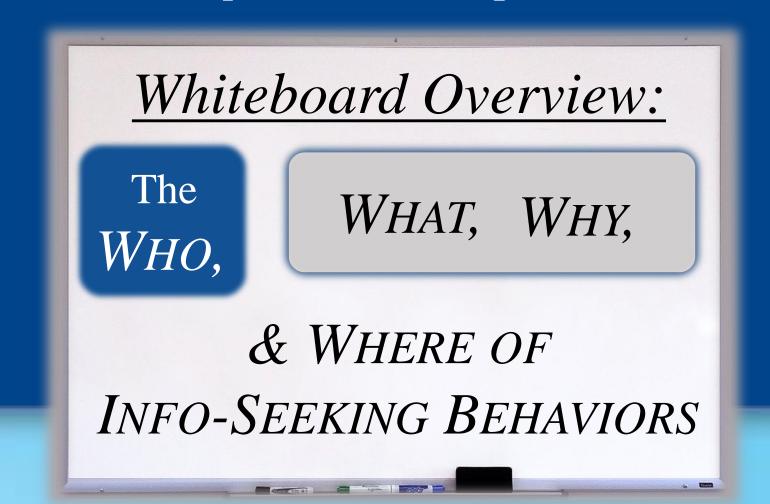
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The Information-Seeking Behaviors of Pediatricians regarding Treatment Benefits and Harms at Lehigh Valley Health Network (LVHN).

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Introduction

Parents are presenting to pediatric clinics with information about their child's health with increasing frequency.

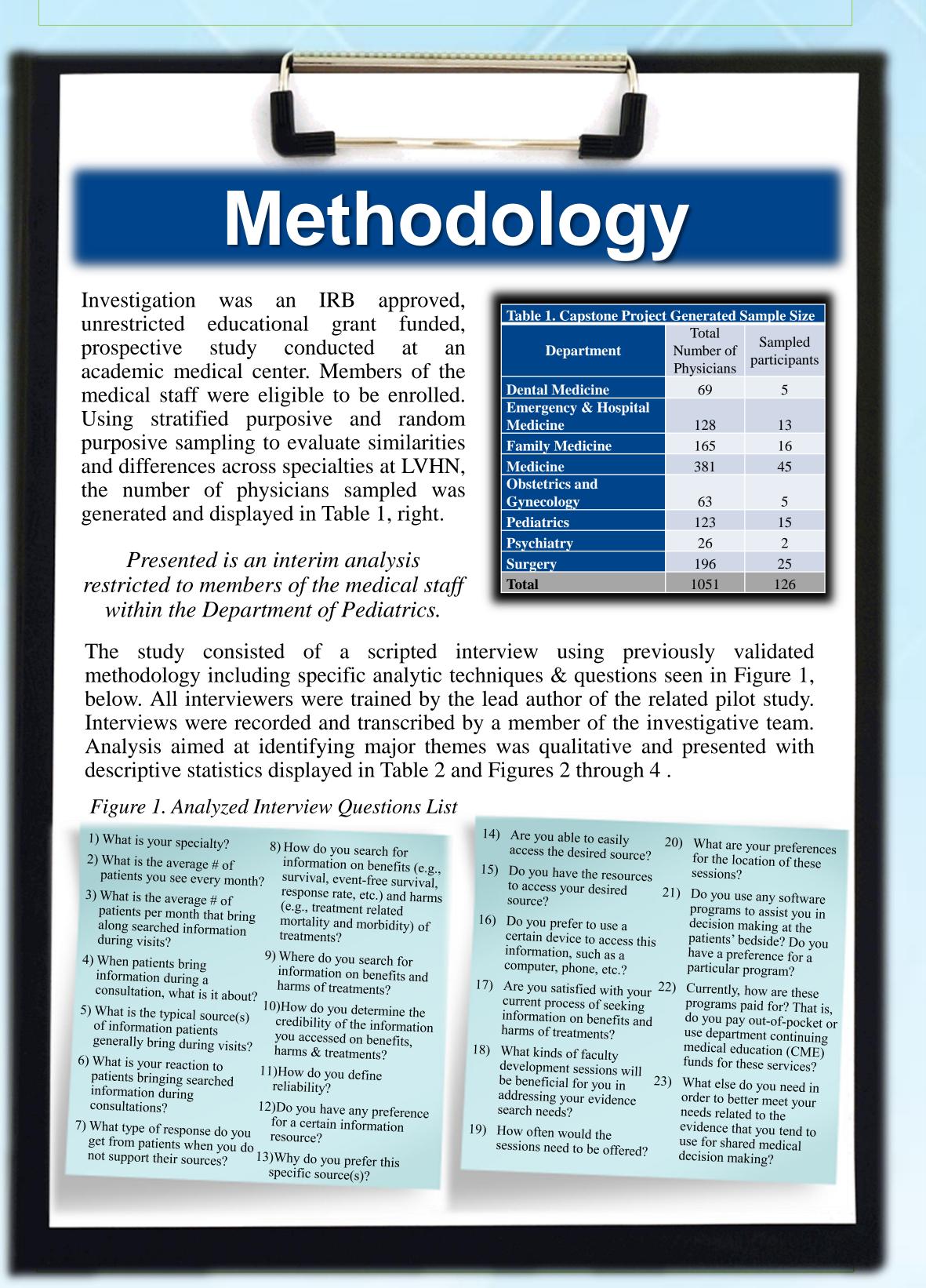
Pediatricians regularly face the challenge of finding, evaluating and discussing an everevolving body of medical information with patients.

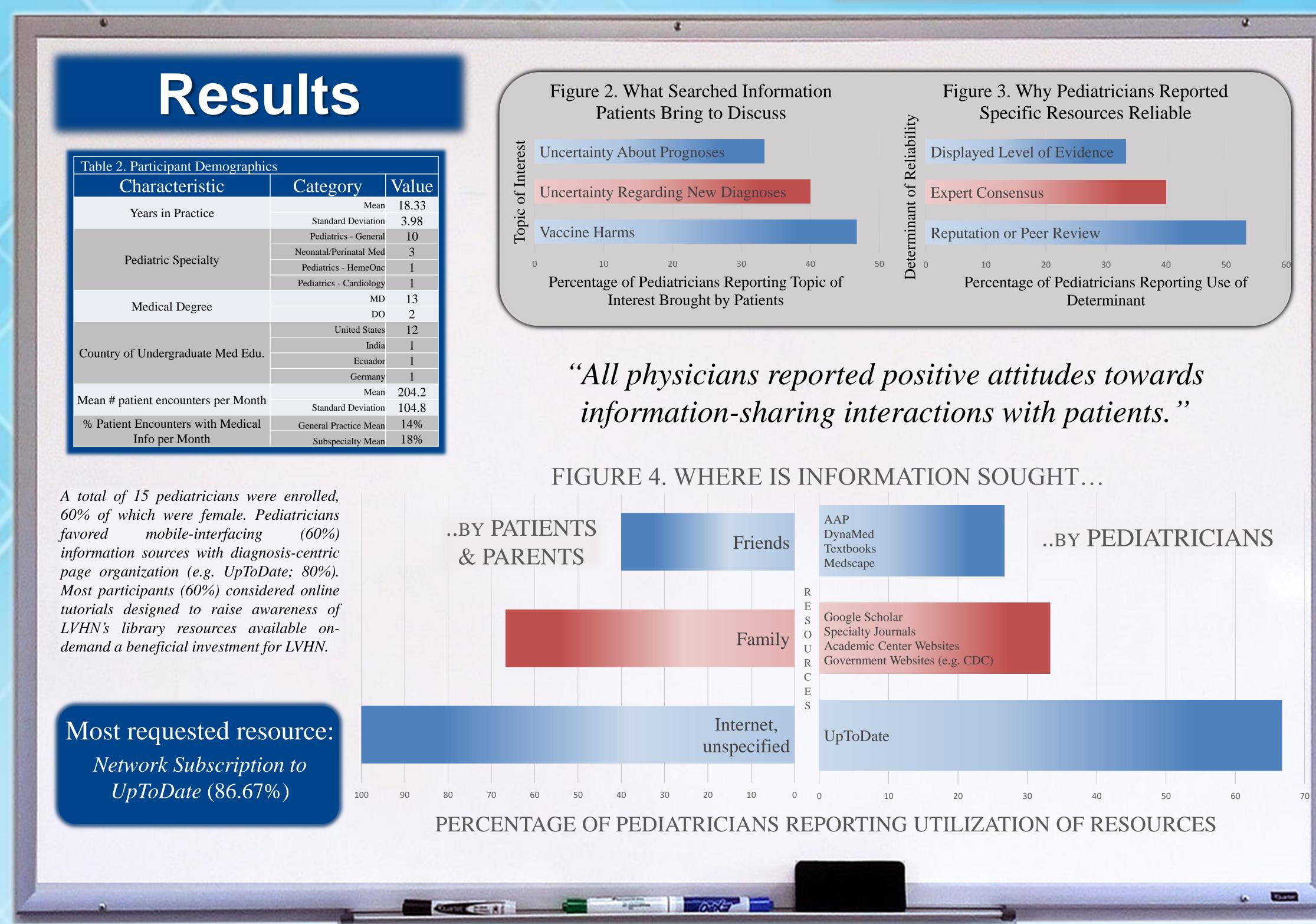
It is not comprehensively known how pediatricians at LVHN obtain clinically relevant information necessary to address the needs of patients and parents.

This study was designed to investigate how pediatricians at the Lehigh Valley Health Network (LVHN) seek information directly related to patient care and the factors influencing these behaviors (e.g. attitudes, barriers, perceptions).

Problem Statement

How do pediatricians at LVHN seek information directly related to patient care and what factors influence these behaviors?





Conclusions & Implications

On the Information-Seeking Behaviors of Pediatricians & the Influencing Factors

Pediatricians favored mobile-interfacing information sources with diagnosis-centric page organization (e.g. UpToDate, DynaMed). The following were the most frequently reported factors influencing information-seeking behaviors of pediatricians:

Reliability

Peer-review, resource reputation and expert consensus were reported as most influential indicators of resource reliability.

Determining reliability of information-seeking resources seemed to be a decision made early in the practice of most pediatricians (i.e. years prior to this investigation). Resources were considered reliable if they provided peer-reviewed recommendations and maintained a reputation of reliability among peers. Most interviewed pediatricians deferred to others in the medical community some aspects of the duty to determine resource reliability. Specifically, pediatricians reported peer-review, resource reputation and expert consensus as primary determinants of reliability for the resources used to gather clinically relevant information. The reason for shifting the onus of determining reliability was reportedly a lack of time to continually evaluate evidence. This shift implies trust among pediatricians.

Despite shifting some responsibility for the determination of reliability to others, many pediatricians reported an inclination to use resources that displayed evidence quality grades alongside recommendations. There seemed a hesitancy to entirely rely on the judgement of peers, especially considering the favorability for resources with links directing users to the primary literature associated with specific recommendations. The pediatricians interviewed demonstrated reasonable skepticism about the information presented by the resources utilized; however, they reported infrequent reevaluation of resource reliability due to limiting factors, the greatest of which was time. Evidence grades and links to primary literature were viewed as a "next best alternative" to evaluating evidence individually.

Familiarity

Familiarity was the most frequently cited reason for using one perceived reliable resource over a

similar one (e.g. UpToDate vs. DynaMed).

Habitual workflows are an effective way to increase efficiency by reducing variability; however, habits can be harmful if left in place without occasional reevaluation. It would be informative to learn how different a resource must be perceived to overcome the familiarity factor supporting the use of a currently employed resource. Learning more about how familiar one must feel and how to cultivate a useful degree of familiarity may benefit the clinicians of a health network interested in consolidating or transitioning network-sponsored resources.

Limited Available Time

As the "rate-limiting" resource, available time is reported to impact many aspects of the information-seeking process. Time was reported as holding primary influence over

nearly every component of medical practice, not least of which is Information-Seeking for patient care. Lack of Available Time was frequently reported in support of Familiarity's influence on Information-Seeking Behaviors. When pressed for time pediatricians choose familiar resources for information-seeking because the location of the information is more likely readily navigable. Few participants complained about the time required to seek information. The focus of frustration was most often in regards to the perceived unnecessary tasks within the process for accessing information for patient care.

PEDIATRICIAN RECOMMENDED Lack of available time was a primary focus when interviewed pediatricians provided the

1) Provide access to network subscription of UpToDate. 2) Raise awareness of LVHN's library resources. Participants emphatically and consistently recommended that any attempt to raise awareness should not increase the amount of time demanded of physicians by the network. On-demand, online tutorials were suggested due to their universal accessibility and for the potential to learn at opportune moments.

following three suggestions for improving the process of seeking clinically relevant information:

3) Reduce "noise" on the library resources page. The number of links on LVHN's library resources website reportedly appears cluttered and increases the amount of time spent on the page before identifying a desired resource. Decreasing the number of links was suggested in an effort to save time and simplify information-seeking workflows.

RELATION TO SELECT COMPETENCIES

Values-Based Patient-Centered Care (VBPCC) Shared decision making is a key component of VBPCC, which is crucial for patient engagement and satisfaction in modern medicine. Facilitating patientcentered shared decision making is not possible without the information that patients and families require to make medical designed to address the foundation of shared decisionmaking, the process of gathering

clinically relevant information.

A focus throughout was learning more about the health This project relates to the reflective systems aspect of facilitating access to educational aspects of leadership. Gaining a resources for a network of diverse people who seek better understanding of the past information through various methods. The importance through reflection can improve of logistics was the primary theme of what I gleaned leaders' abilities to guide others about this process. For example, deciding between a into the future. Throughout the network subscription to UpToDate versus providing continued medical education (CME) funds for the investigation, physician leaders purchase of individual subscriptions may seem were asked to reflect upon the equivocal; everyone can still access UpToDate if they habits they've formed and evaluate so choose without spending personal finances. how they could improve. As However, logistically unintended consequences (e.g. uncomfortable as self-reflection physicians required to log in several times each day whenever accessing UpToDate) and the valuable uncovered, the self-awareness resources spent on those consequences may illustrate an gained is the foundation of selfobjectively better choice between the available options improvement, the benefits of which if factored into the decision. Through this project I've can be further translated to more gained a better understanding of necessary processes to effective leadership. undertake before inducing change into a health system.

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UpToDate individual subscriptions (i.e. a few minutes wasted by every clinician every workday may justify the investment in a network subscription). caregivers to LVHN's pediatric patient population & may lead to less clinical **How to Influence Behavior While** time spent debunking poorly sourced **Helping Others Feel Heard** Every pediatrician interviewed reported **UpToDate Network Subscription** positive attitudes regarding informationsharing interactions with patients. Remarkably, participants that elaborated on strategies used when confronted with

FUTURE INVESTIGATIONS

among network-provided resources, understanding & identify the underlying the acquisition of an UpToDate network to deter physicians from investigating all

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