



# Library Resource Utilization: determining high yield resources for medical students

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## Study Objectives

To conduct a survey of current University of Hawaii (UH) medical students on their Health Sciences Library (HSL) resource utilization in order to:

1. Identify utilization of **HSL resources** by **medical students at JABSOM**
2. Compare the pattern of utilization by **medical students** with **all UH users**
3. Identify utilization of resources not available through the HSL ("**non-HSL resources**") by **medical students**

## Background/Introduction

- UH HSL provides a variety of hard copy and online resources critical for science and medical education
- UH HSL resources are available to all UH students (including medical students at JABSOM) and faculty
- Utilization of HSL resources are tracked via **total log-in number by all UH Manoa users**; however, **it does not distinguish between medical students vs other users at UH Manoa**
- *Currently, there is no standardized system to evaluate the accessing and utilization of HSL resources by UH medical students*
- To provide resources tailored to medical students, their needs must be identified

## Methods

- Google Forms online survey was emailed to all current **UH medical students** (MS1-4 with graduation years 2021-2024)
- Relevant survey detail
  - Two Likert scale questions: Students rated utilization of library resources available through 1) HSL resources and 2) common non-HSL resources
  - Likert scale: Never=1, Rarely=2, Sometimes=3, Very Often=4, and Always=5 used
- Analysis
  - An average value was calculated for each resource by the following equation:
    - **Average score** = Sum (Likert score x number of responses) / Total number of responses
  - Ranking pattern of utilization of the **HSL resources** was compared between **medical students survey average score** vs **all UH Manoa users total HSL log-in number from FY2019-2020**

Figure 1: Comparison of the usage of HSL resources between **medical students** vs **all UH users**

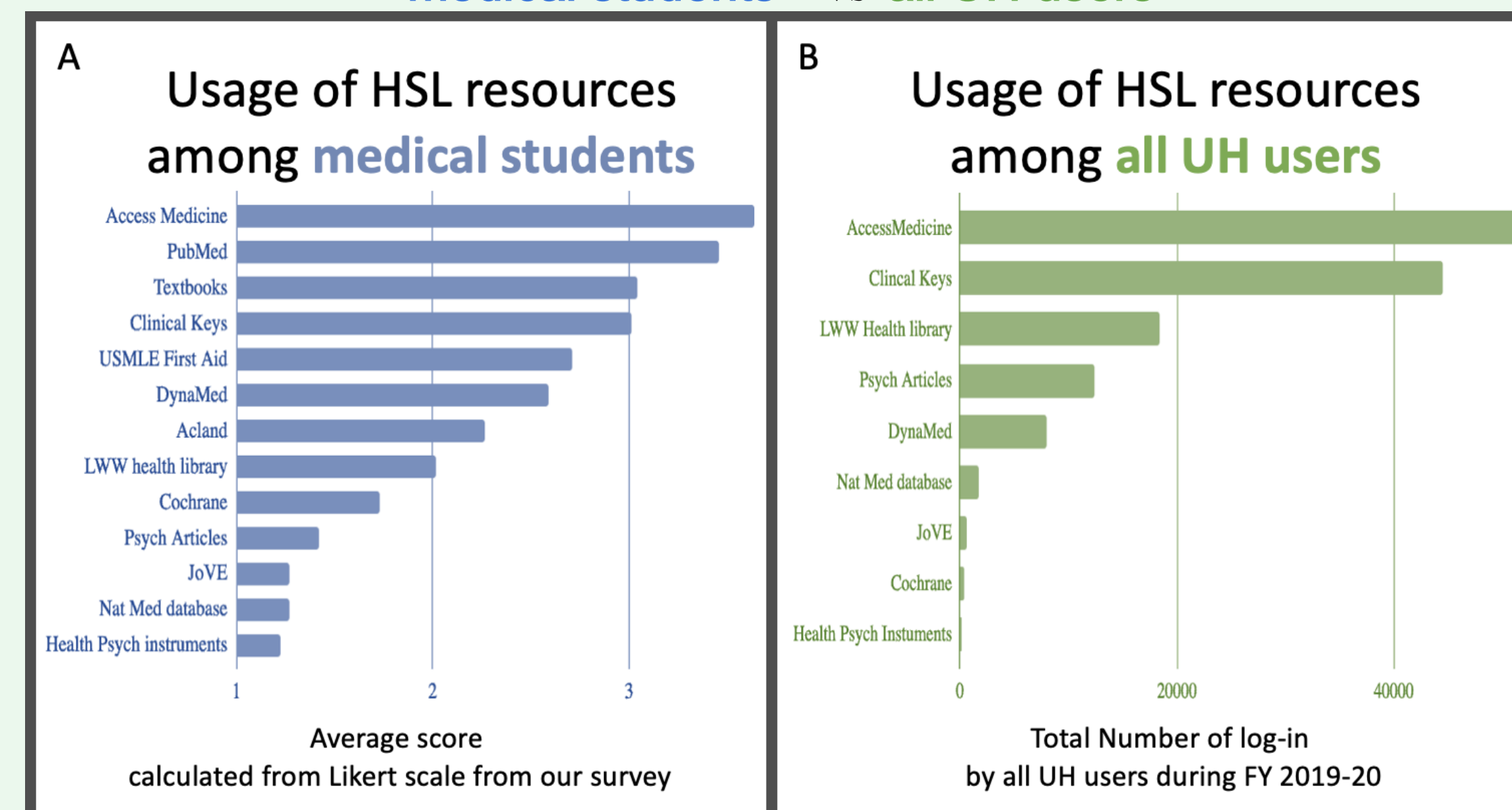
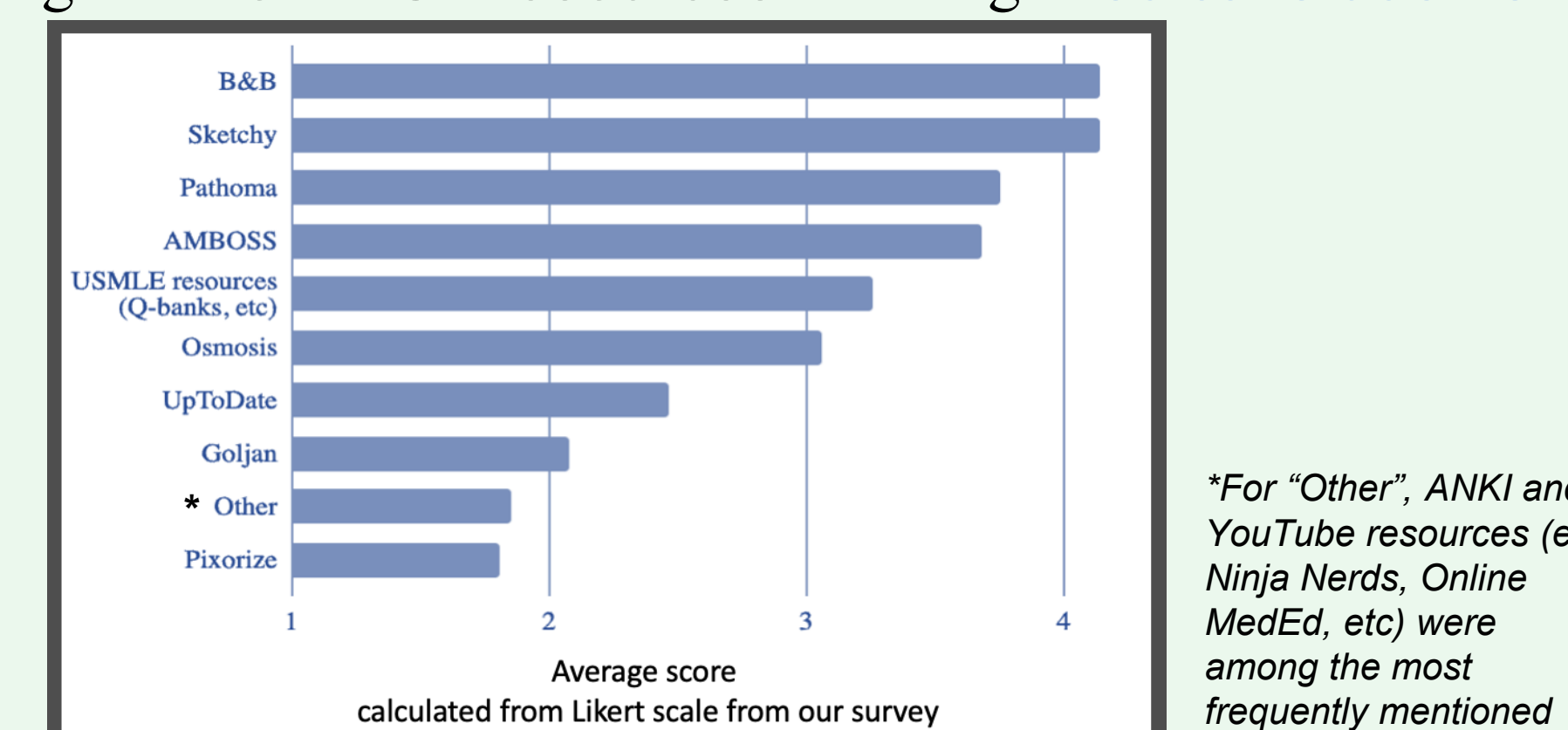


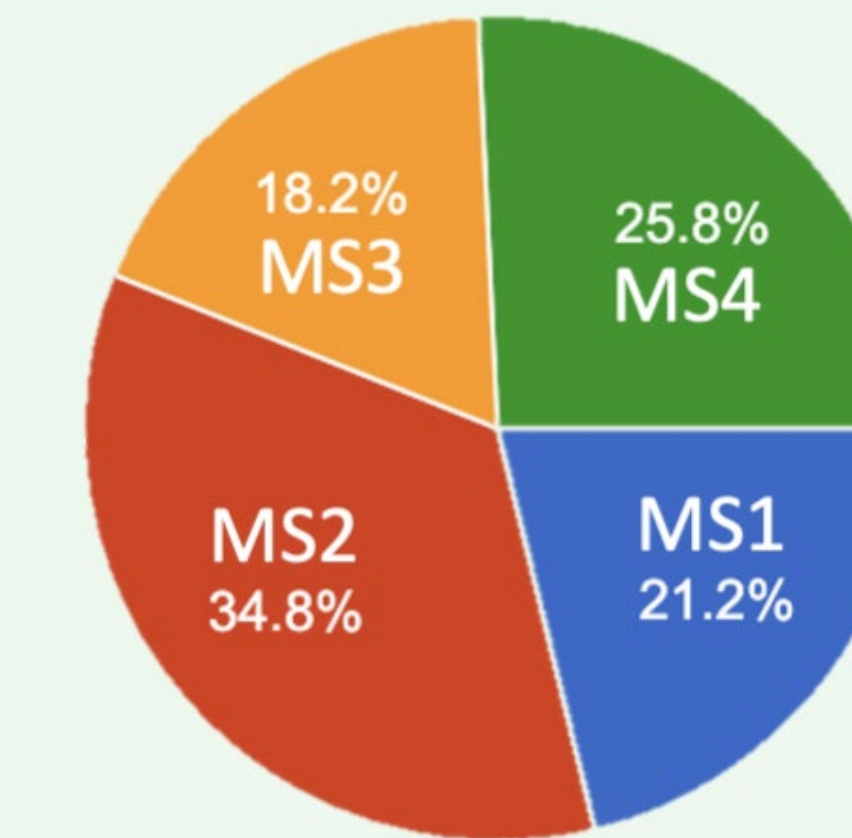
Figure 2: Usage of non-HSL resources among **medical students**



\*For "Other", ANKI and YouTube resources (ex. Ninja Nerds, Online MedEd, etc) were among the most frequently mentioned

## Results

- 66 total responses
  - MS1: 14 (21%)
  - MS2: 23 (35%)
  - MS3: 12 (18%)
  - MS4: 17 (26%)

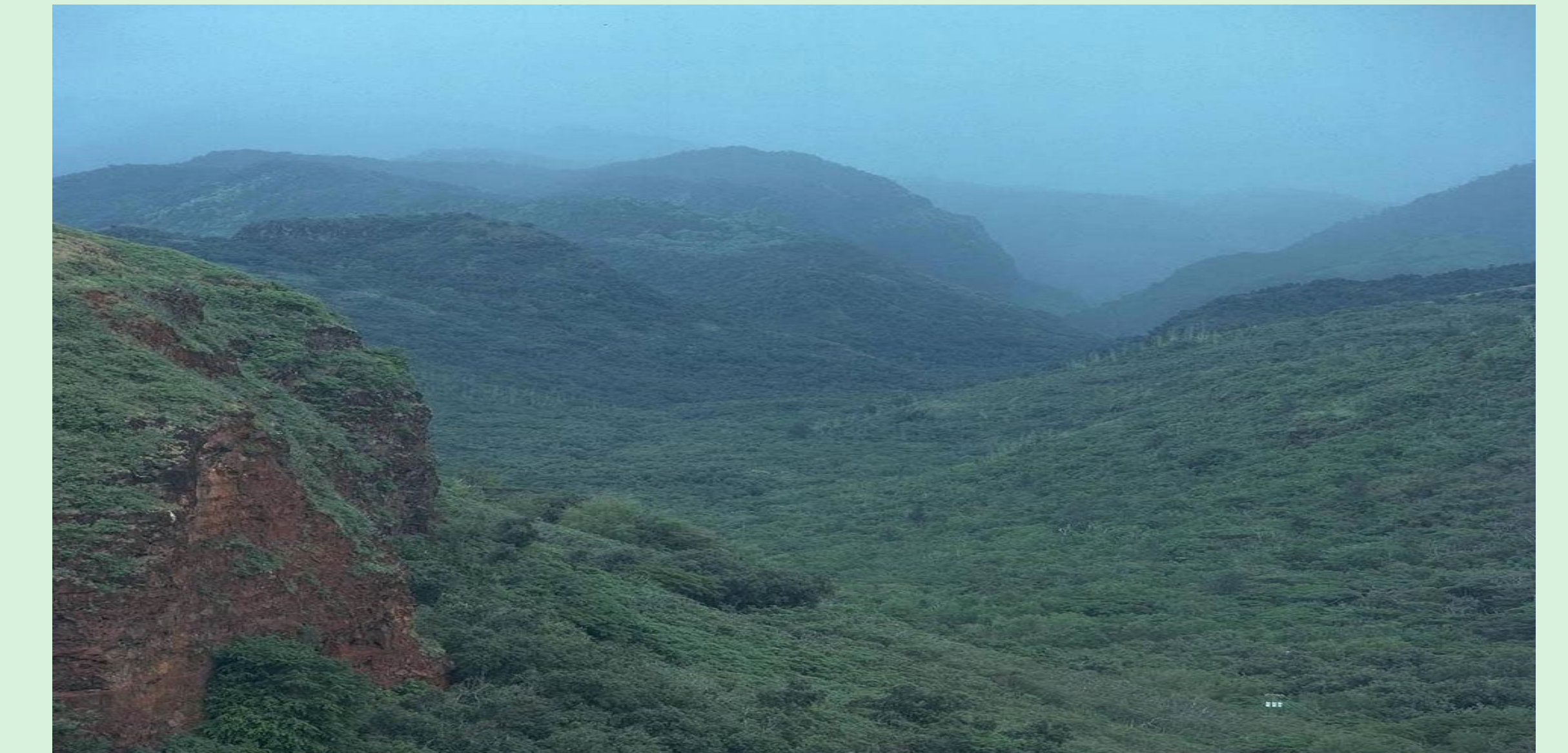


- MOST utilized **HSL resources** among **medical students** (Fig 1a)
  1. AccessMedicine
  2. PubMed
  3. Textbooks
  4. ClinicalKey

- LEAST used **HSL resources** among **medical students** (Fig 1b)
  1. Health and Psychology Instruments
  2. Natural Medicine Database
  3. JoVE
  4. Psych Articles

- MOST utilized **HSL resources** among **all UH users** (Fig 1b)
  1. AccessMedicine
  2. ClinicalKey
  3. LWW Health Sciences ebook collection
  4. *Psych Articles*

- Most utilized **non-HSL resources** among **medical students** (Fig 2)
  1. Boards and Beyond (B&B)
  2. Sketchy
  3. Pathoma
  4. AMBOSS



## Conclusions

- Rank order of resources was *similar* between medical students and all UH users, *with some exceptions*
  - **Similarity** between medical students and UH Manoa users:
    - MOST USED: Access Medicine and Clinical Key
    - LEAST USED: Health and Psych instruments, JoVE, and Natural Medicine database
  - **Differences** in usage among medical students, compared to UH Manoa users:
    - Cochrane was ranked higher
    - Psych Articles was ranked lower
- Medical students frequently use resources that are not provided by the HSL
  - MOST USED: Boards and Beyond (B&B), Sketchy, Pathoma, and AMBOSS

## Further Research

Further research aimed to investigate the reasons why some HSL and non-HSL resources are used/not used would help guide efforts in improving HSL access to useful, high-yield resources

## Limitations

Medical student usage of HSL and non-HSL resources was subjective (via survey data); therefore, it has lower validity than objective data obtained via log-in data for all UH users