Broadening the pipeline:

Offering evidenced based information literacy instruction to high school health sciences magnet programs in underserved areas
Overview

AN OPPORTUNITY

• Health sciences magnet programs in US
• Barriers to health sciences education & careers
• Introduction to concepts in clinical search strategies
• Location of high quality clinical research
3,164

TOTAL NUMBER OF MAGNET PROGRAMS IN 2017

Magnet Program - A special school or program designed to attract students of different racial/ethnic backgrounds for the purpose of reducing, preventing, or eliminating racial isolation (50 percent or more minority enrollment); and/or to provide an academic or social focus on a particular theme (e.g., science/mathematics, performing arts, gifted/talented, or foreign language).

Statistic and definition provided by the National Center for Education Statistics
55.6% WHITE US MEDICAL SCHOOL GRADUATES 2018

Sources: Liaison Committee on Medical Education Part II Survey; American Academy of Medical Colleges Data Warehouse: Student, Student Records System; American Medical Colleges Application Service; American Medical Colleges, Applicant Matriculation File

5.7% & 5.4% BLACK & HISPANIC/LATINO US MEDICAL SCHOOL GRADUATES 2018
Other Health Sciences Professions 2016

Broaden the Pipeline

LACK OF AWARENESS OF HEALTH SCIENCES RESOURCES
- Limited librarian access
- Location of OA clinical research
- Limited knowledge of building a search strategy

SEARCH STRATEGIES & OPEN ACCESS
- PICOT
- Boolean
- Synonyms
- OA

INCREASED ABILITY TO LOCATE HIGH QUALITY RESEARCH
- Students expressed increased confidence
- Introduction to college level expectations of research
Building a Search Strategy

**FILTERS**
Use all that apply

**SYNONYMS**
Broaden your search for hidden gems

**PICOT**
Extract the elements from your clinical question

**BOOLEAN & SPECIAL CHARACTERS**
Create a search string and apply it to databases
PICOT Activity

CLINICAL QUESTION

In a 65 year old black woman does the administration of pain medication at time of surgical incision reduce the need for pain medication twenty-four hours after surgery?

Do weekly exercise sessions allow 40-45 year old women in perimenopause to maintain their weight loss better than biweekly exercise sessions?

In a 16-year-old white male soccer player with acute, 1st-degree, lateral ankle sprain, does ultrasound work or electrical stimulation do a better job of reducing edema and pain?

WORKSHEET

Extract search elements
Sources of OA Research

PubMed
PubMed comprises more than 29 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full-text content from PubMed Central and publisher web sites.

Centers for Disease Control and Prevention
CDC 24/7: Saving Lives, Protecting People™

Dimensions
Dimensions is a linked research knowledge system that re-imagines discovery and access to research. Developed by Digital Science in collaboration with over 100 leading research organizations around the world, Dimensions brings together grants, publications, citations, alternative metrics, clinical trials, patents and policy documents to deliver a platform that enables users to find and access the most relevant information faster, analyze the academic and broader outcomes of research, and gather insights to inform future strategy. For more information about the product have a look at our support site or visit
Reference List


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