



COLLEGE
OF MEDICINE
JEDDAH

ITEM CLASSIFICATION

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Why Item Classification



(**I**nternational **D**atabase for **E**nhanced **A**ssessment and **L**earning)



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Flinders
UNIVERSITY



BOND
UNIVERSITY
BRINGING AMBITION TO LIFE



THE UNIVERSITY
OF QUEENSLAND
AUSTRALIA

جامعة الإمارات العربية المتحدة
United Arab Emirates University

UAEU

UNIVERSITY OF
WOLLONGONG



جامعة الشارقة
UNIVERSITY OF SHARJAH

جامعة الدمام
UNIVERSITY OF DAMMAM



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(International Database for Enhanced Assessment and Learning)

The IDEAL banks include over 31,000 questions with the following assessment formats:

A-type (i.e., best one of N options where N can be up to 26 choices);

R-type (extended matching with N options);

Multiple Response for A-type and R-type (including Key Features and Pick n of N);

OSCE (Objective Structured Clinical Examinations);

OSPE (Objective Structured Practical Examinations);

MEQ (Modified Essay Questions); and

SAQ (Short Answer Questions).

T/F (True-False) and K-type items are not endorsed by the Consortium given their known limitations for assessment purposes.



What is IDEAL?

IDEAL is a Windows-based software application for **conveniently**:

1. entering, storing, searching, retrieving, editing, printing or administering assessment items, as well as for
2. updating, managing and sharing assessment banks in medical education



Classification and search of items:

- Items are classified by and can be searched for:
 - using identification numbers or a modified version of USMLE's item classification scheme
 - by MeSH terms (Medical Subject Headings).
 - or using any part of an item's text, i.e. words, phrases, or parts of words (i.e. wild cards).
 - search can be structured using a combination of classification criteria derived from a test blue print.



Item performance & Statistical Properties

Given students' responses or expected abilities, items are also classified by the following item performance statistical properties:

- Difficulty Level
- Discrimination Index
- Point Biserial
- Year of Last Use (locally)
- Number of Times Used (locally) 0, 1, 2-3, 4-5, 6 or more



Item Input Criteria



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1. Transition

Not applicable

Basic

Integrated

Clinical

4. Process

Not applicable

Immunologic

Systemic

Neo-plastic

Infectious

Metabolic & Nutritional

Inflammatory

Congenital & Development

Occupational

Degenerative

Traumatic

Vascular

History taking

Physical Examination

Management

Counseling

Education

Professional Development

2. System

Not applicable

Cardiovascular

Endocrine

Gastrointestinal

Head & Neck

Hem and Lymph Node

Musculoskeletal

Nervous System

Nervous System

Respiratory

Skin and Tissue

Genitourinary

Multi system

5. Taxonomy

Not applicable

Recall

Reasoning

Affect

Skills

6. MeSH

(upto two terms/phrases)

i.

ii.

3. Discipline

Not Applicable

Anesthetics and Critical Care

Anatomy/Histology

Behavioral/Social Sciences

Biochemistry

Bioethics

Biostatistics

Cell Biology

Clinical Pharmacology

Community Health

Embryology

Emergency Medicine

Family Medicine

Forensics/Medico-legal

Genetics/Molecular

Geriatrics

Immunology

Medical Imaging

Medicine

Microbiology

Pathology

Pharmacology

Physiology

Psychiatry

Surgery



Transition

- Not Applicable
- Basic
- Integrated
- Clinical

System

- Not Applicable
- Cardiovascular
- Endocrine (includes breast)
- Gastrointestinal
- Head & Neck
- Heme & Lymph Node (includes immune system)
- Musculoskeletal
- Nervous system (includes special senses)
- Reproductive
- Respiratory
- Skin and soft tissue
- Genitourinary
- Multi system



Discipline

- Not Applicable
- Anaesthetics and Critical Care
- Anatomy/Histology
- Behavioral/Social Sciences
- Biochemistry
- Bioethics
- Biostatistics
- Cell Biology
- Clinical Pharmacology
- Community Health
- Embryology
- Emergency Medicine
- Family Medicine
- Forensics/Medico-legal
- Genetics/Molecular
- Geriatrics
- Immunology
- Medical Imaging
- Medicine
- Microbiology
- Multi discipline
- Obs & Gyn
- Paediatrics
- Pathology
- Pharmacology
- Physiology
- Psychiatry
- Surgery



Process

- Congenital & Developmental
- Counseling
- Degenerative
- Diagnosis
- Education
- History Taking
- Immunologic
- Infectious
- Inflammatory
- Management
- Metabolic & Nutritional
- Neo-plastic
- Not Applicable
- Occupational
- Ordering investigation
- Physical Examination
- Procedures
- Professional Development
- Systemic
- Traumatic
- Vascular

Taxonomy

- Not Applicable
- Recall
- Reasoning
- Affect
- Skill

Age Group

- Not Applicable
- Embryonic
- Newborn
- Child
- Adolescence
- Child & Adolescence
- Adult
- Adult & child
- Geriatric

Gender

- Not Applicable
- Female
- Male

Item Type

- True / False
- A Type, 3-5 Options
- A Type, > 5 Options
- R Type
- Short Answer
- Modified Essay
- OSCE
- OSPE



Subspecialty

- Subspecialty is a parameter with no prior specified values. However, institutions can add the name of the subspecialty from which the item was developed. This feature provides added flexibility for searching strategies.



MeSH

- Up to two MeSH (term or terms) can be used to further classify the item.
- MeSH is the National Library of Medicine's controlled vocabulary thesaurus.
- There are 27,149 descriptors in 2014 MeSH
- Refer to the following URL for MeSH terms:
<http://www.nlm.nih.gov/mesh>
- or alternately, use IDEAL's complete list of MeSH terms



Item Submission Template

	Session	Author	Title	Transition	System	Discipline	Process	Taxonomy	Sub Specialty	MeSH	Last Use
Q. 1	Lect./PBL/BClin.	Dr. X	ABC	Clinical	Neuroscience	Medicine	Management	Reasoning	Neurology	Mental disorder/Conduct disorder	N/A

