

في شغلان بتكون بـ grey area بتقدر تحط عليها هي Secondary ولا tertiary لكن هو هذا تصنيف مقترح من Watson و جماعة

Note من شرط يكون حد فاصل (في شغلان محطه تكون Primary و Secondary مع بعضنا) وفي شغلان محطه تكون Secondary

The most accurate classification for any given source is not always obvious. Primary and secondary are relative terms, and some sources may be classified as primary or secondary, depending on how they are used.

A third level, the tertiary source, such as an encyclopaedia or dictionary, resembles a secondary source in that it contains analysis, but attempts to provide a broad introductory overview of a topic.

ركن الفكرة الرئيسية انه ال Primary بتوخذ معلوماتها من ال Research

ال Secondary بتاخذ معلوماتها من ال Primary و ال tertiary بتاخذ معلوماتها من ال Secondary

(في شغلان افلة على الكودل شو حوهم)

3. Tertiary Resources

- Collection of data & concepts drawn from primary literature.
- Generally present a summary of well-established and documented drug and therapeutic information and include textbooks, formularies, drug compendia and electronic drug databases.

- Advantages
- Convenient. Information is well established
 - They offer a quick, easy introduction to your topic.
 - They may point to high-quality primary and secondary sources.

- Disadvantages
- Because of their distance, they may oversimplify or otherwise distort a topic.
 - By rehashing secondary sources, they may miss new insights into a topic.

- Gap between written, evidence and being within the tertiary resource
- Traditional Gap between hard copy and soft copy

الاكترونية
هنا كتبنا
ما فيها عنها
اها فلك
Pubmed
تكون فيه عنها

tertiary يكون statement و result summary
كل ما كان فيها
statistiks
secondary يكون
لكن كل ما كان فيها
تفضل اكثر و statistiks
تكون
بعضش تفصل بينهم
Simple info
توخذ وقت
الاجارة

كتاب تحليل بحجم الاليد فيه كل اطراف تاثير الادوية زي

Drugs in Jordan (هاد نافع افريكا) ~~في~~ الدواء د الindications و الcontraindications و فيه مالاخر side effect و ال

جداول مقارنة بين الادوية (حقوق الادوية المتقاربة)

3. Tertiary Resources

General product information

- 1. Drug Information handbook
- 2. Physicians' Desk Reference
- 3. Martindale: The Complete Drug Reference
- 4. BNF (British National Formulary)
- 5. Micromedex → حوق الكووي
- 6. Drugs.com
- 7. Lexi Comp group

Pharmacology بروح اكي لد

14 خام بيرد لمانيا

15 مصدر شافه

examination board of view (مختبر)

Basic Pharmacology يعين عمل

Pharmacology

- 1. Rang & Dale's Pharmacology
- 2. Basic & clinical Pharmacology (Bertram G. Katzung)
- 3. Goodman & Gilman's: the Pharmacology basis of Therapeutics → حوق كيني
- 4. Brody's Human Pharmacology: Molecular to Clinical

ال Pharmacology هو قريب من الادوية ال Therapeutics هو قريب من هنا المبرهات لزي (بدا على guidelines)

له تصنيف لورا بناء على pharmacologic Priorities

Tertiary Resources

- Therapy evaluation / Drug of choice
- Applied Therapeutics: The Clinical Use of Drugs
- Pharmacotherapy: A Pathophysiologic Approach (Joseph T. DiPiro)
- The Merck Manual Of Diagnosis And Therapy (Merck)
- Harrison's Principles of Internal Medicine
- Adverse Effects

← Meyler's Side Effects of Drugs: The International Encyclopaedia of Adverse Drug Reactions .

← المرجع الاعظم
side effects

← لهن وكتوب ادوا و سوهبار side effects سواكونه، لكتوب به ليجل عالقة

← جديرة ليجل فيها ، side effects و كل واحد هو الادوية به بتعلمه

3. Tertiary Resources

Drug interactions

- Hansten and Horn's Drug Interactions Analysis and Management
- Drug Interactions facts – Fact & Comparison products → في جداول
- Food Medication Interactions (FMI) للحقارنات بين الادوية

Geriatric dosage recommendation

- Merck Manual of Geriatrics. في جداول
- Geriatrics Dosage Handbook الشركة باي جامعة هاد

Paediatric dosage forms

- Paediatric dosage Handbook
- The Harriet Lane Handbook

Consumer book

Professional book / Geriatric كتاب ل Merck Manual
Consumer (Consumer) و علاو ل paediatric (نفس الكتب بس لغتان مختلفة)

في جداول
للحقارنات بين الادوية
في جداول
الشركة باي جامعة هاد
كتاب نفس ابي علنا
Drug information
handbook
هاد بونه باخره
في جداول

3. Tertiary Resources

Teratogenicity , Lactation

- Drugs in Pregnancy and Lactation: A Reference Guide to Fetal and Neonatal Risk
- Catalog of Teratogenic Agents

Toxicology - الامراض تكون عارضة اصابهم علاقل

Goldfrank's Toxicologic Emergencies

Casarett & Doull's Essentials Of Toxicology

Casarett & Doull's Toxicology The Basic Science Of Poisons

في جداول
M Jordan
كان موجود في باخره جدول
في جداول
antidote و ال Poisons

3. Tertiary Resources

Availability of Dosage forms

- American Drug Index
- Red Book (Red book Drug topics)

Compounding, Formulation →

تشكيلات الادوية وتجهيزاتها

- Merck Index
- Remington: The Science and Practice of Pharmacy
- Trissel's Stability Of Compounded Formulations
- The United States Pharmacopeia (USP)

هذول شو
لي فرقو عن ار
drug
information
handbook?

Incompatibility and stability ←

- Handbook of Injectable drugs
- Trissel's 2 Clinical Pharmaceutics Database
- King Guide to Parenteral Admixtures

هاد فيه Procedures وكيفية العمل

باللاب و standards و ار measures
تاعيت التحليل و ar instrumentals

ar drug info handbook
Pharmacy Practice
instrumental analysis
ار هذول ل

الناس
الكي
تستعمل
باي كيمي
شوا الادوية
بلي بنظرو
فوق زجاجه و شو
زلاء

3. Tertiary Resources

Pharmacokinetics

- Basic Clinical Pharmacokinetics
- Applied Biopharmaceutics and Pharmacokinetics
- Dietary supplements
- Natural Medicines Comprehensive Database
- Natural Standard
- PDR for Herbal Medicines →
- Trease and Evans' pharmacognosy

physician desk Reference
for herbal
medicines

Identification of product →

- IDENT-A-Drug الحبة الكدورة والحبة والسودة
- Drugs.com (بجمهور الحبة وبطليق شو
هنا)

Structure approach for effective Systematic response

5

Faculty of Pharmaceutical Sciences

The Hashemite University

اجابان اسئلة المرضى ، عن اي سؤال ينبغي تجاوبه ، هكذا سؤال هل ينبغي استخدام diclofenac لعلاج الالم ؟ اجابا باليدلة ح يجاوبو نعم وهذا شرط داخل ، محظا يطلع المريض ليعمل عمره شهر ، لذلك لازم لتجمع مطوفان كافية حتى تجاوب السوال :

Functions of a Drug Information Specialist Pharmacist

- Pharmacists must know how to: *Professional حتى يقولو عند*
 - 1. Provide drug information *Professional Practice*
 - a) Simple professional level (based on well focus question)
 - b) Advance professional level (based on advance data collection) *استعدا في مراكز المطوفان الدوائية*
 - 2. Provide drug evaluations *يفيد البحث ، وفي الدوله*
 - 3. Develop policies *فيا توثيق يفيد اهداف اخرى*

a) Asking well focus questions

Asking (good) questions is critical

(مردیبا علی)

وجهه فی جواب
سواله کله؟

کے ہذا سوال
خارجہ

You need to develop and write a well focused question to help answer your question

کے ای سوال بجاوب

- Focused clinical question questions can help you
 - Organize a search of the clinical literature for answer for your question
 - Choose the best article from among those you find

A good question

- Is focused and relevant
- Provides clear communication
- Clarifies your goal or need
- Will reduce the amount of time needed to obtain the answer

Category of the question

Therapy/treatment: PICO

- Patient and/or problem
- Intervention
- Comparison
- Outcome

Harm: PEO

- Patient
- Exposure
- Outcome

Patient and/or problem

- Type of patient or population: the population, comorbid conditions, patient's prior experience
- Shall be specific and relevant
- Prompt: How would I describe a group of patients similar to mine?
- Examples
 - patient with unstable angina تصابيل اكثر عناءا لرجلي
 - 47 yr male with type 2 Diabetes Mellitus and cellulitis toe
 - 25 yr female with deep venous thrombosis and chest pain

Intervention

- Clinical intervention: Specific treatment (intervention) of interest, patient perception
- It shall be specific that can help in search
- Prompt: What main action I am considering?
- Examples
 - Medication/Drug: clopidogrel in addition to aspirin
 - Procedure
 - Surgery
 - Radiation
 - Vaccine

Exposure

- environmental, personal, biological
- Exposure / prognostic factor
- Examples
 - TB
 - Tobacco
 - Drug
 - Diet
 - Pregnancy or menopause
 - MRSA (methicillin resistant Staph. aureus)
 - Allergy

Comparison

- Compare alternative treatment
- Prompt: What is/are the other options?
- the specific alternative of interest that can help in search,
 - Other prior, new or existing therapy
(Medication/Drug: aspirin, Procedure, Surgery, Radiation, Vaccine)

Outcome

- Clinical outcome of interest
- Shall be objective and meaningful to patient that can help in search
- What do I (or the patient) want to happen (or not happen)?
- Examples
 - Reduced death rate in 5 years
 - Decreased coronary events
 - Decreased infections
 - Fewer hospitalizations

Example 1

السؤال حسن كمثل

- General question: Should clopidogrel be prescribed to this 65-year-old man with unstable angina?

هذا السؤال جوابه خاطيء،
مطمنا كان دقيق

- Well focused question: Well clopidogrel in addition to aspirin (intervention) prevent death or coronary events (clinically relevant outcome) in this patient with unstable angina (patient with a problem) who is currently on aspirin alone (comparison intervention)?

عشان يكون السؤال

تأنيح لازم تعرف تفاصيل ال Patient ، تفصيل الادوية يلي ليؤخذها الان او الادوية يلي كان يؤخذها (عشان اعرف اذا هي حاسية ولا لا ، بسوخته مثلا" اذا اخذ penicillini قبل هيلاء اولاً)

Example 1

Patient	Patient with unstable angina
Intervention	Clopidogrel in addition to aspirin
Comparison intervention	Aspirin alone
Clinically relevant outcome	Prevent death and coronary events

لي هذا هو عشان كذا سأل عن جر الدواء ، بيخزل بالتأمين او لا

او (side effects) هاي الـ "خلاف" كلها outcomes

خانا لما اسأل السؤال لازم احرف ال Outcome هل هو clinical effectiveness

ولا side effects ولا price wise

ولا complications ولا اسر صوب

Example 2

- General question: Is it safe to switch carvedilol to metoprolol in this patient with heart failure?
- Well focused question: Is metoprolol (intervention) as effective as carvedilol (comparison intervention) to prevent cardiovascular events (clinically relevant outcome) in a patient with low ejection fraction heart failure (patient with a problem)?

Example 2

Patient	
Intervention	
Comparison intervention	
Clinically relevant outcome	

lib to

Example 3

- Is sildenafil safe in this patient with diabetes mellitus type 2?
- If sildenafil is begun (Intervention/exposure), what is the risk of myocardial ischemia (clinically relevant outcome) in this asymptomatic patient with known coronary artery disease (CAD) and newly diagnosed with diabetes mellitus type 2 (patient with a problem)?

Example 3

Patient	
Intervention / Exposure	
Clinically relevant outcome	