

antineoplastic drug 2

2025-4-16

يوم العلم

* microtubul inhibitors



Vinca alkaloid

Cell cycle Specific

* bind to tubular proteein (tubulin)

↳ lead to

depolymerization

* prevent formation of mitotic spindle



Vincristine.

vinblastine

not myelotoxic

toxic to Bone marrow (myelotoxic)

neurotoxic

least neurotoxic

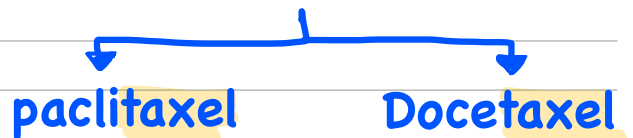
Taxanes

✓ polymerization

but prevent separation of chromosomes

use in

Breast & Ovarian Cancer



paclitaxel

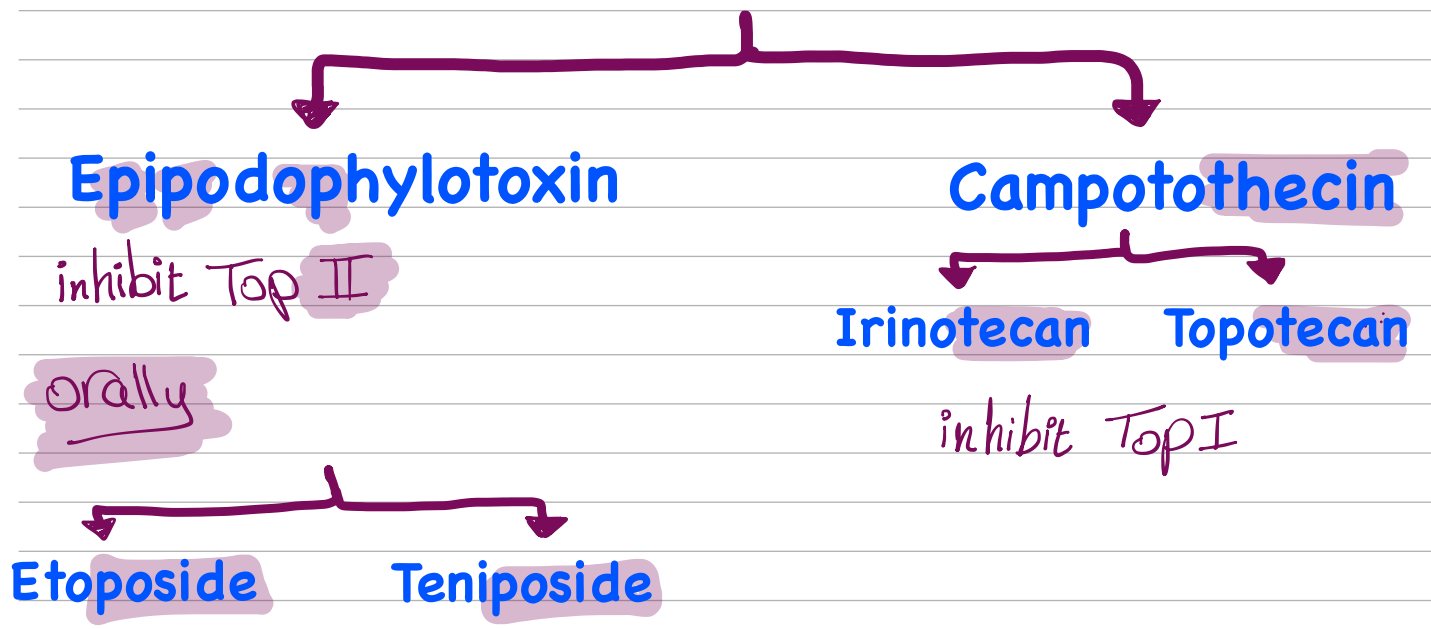
Docetaxel

خلطون احفظوا انهم عكس بولن واللي فيها B لها بتعمل

toxicity of BU (myelotoxic)
وفاشل neurotoxic زو قليل

* Topoisomerase inhibitors

- * inhibit (Topo..) to there function → مخيفتها تكمن في قهر ال DNA
- * cause DNA breaks
- * cell cycle specific



لما د وادال anticancer يكونه orally يكونه + فيه كثير عيب
 بوفر وقت ووجه المريض ورواحه على المستشفى
 وحتى تخفيفه الضغط على المستشفى من تدبير أسرة ومهارة

* أغلب ال anticancer drug
 ↳ IV ← يؤخذو

* Steroid hormones and their antagonists

* **Tamoxifen** * كلو مهم
estrogen antagonist

* Selective estrogen-receptor modulator

* weak estrogenic activity \rightarrow 100% effect / بس يعني بدل هو
بصير قلنا 5%

inhibition tumor growth of Breast Cancer

* first line in estrogen-positive breast cancer

orally

AEs = skin rash, vaginal bleeding
and discharge, hypercalcemia
endometrial cancer, thromboembolism

* حاي لا تعرف
بسبب
عنا وجود ال
Hormon

* Monoclonal AB

AB against specific tumor Ag

Trastuzumab

* For epidermal

growth factor receptor

HER-2/neu

* approved IV for treatment

metastatic breast cancer

↳ in patient whose tumor

overexpress HER/neu

AEs

Congestive heart failure (rare)

fever & chills

Bevacizumab

* antiangiogenesis

For

↳ vascular endothelial
growth factor (VEGF)

* approved IV → first line

drug against metastatic

colorectal cancer

Rituximab

for CD20 in B cell

* For

↳ non-Hodgkin
lymphoma

Others ☺

* platinum coordination complexes ☺

platin ← مذكور بالاسم في الادوية الكيميائية

platinum ← بلاتين

platinum bind to DNA and forms cross links between neighboring guanines

AE ☺

nephrotoxicity,

ototoxicity,

neurotoxicity

les, drug-drug interaction

* Tyrosine Kinase inhibitors

Imatinib

inhibit bcr-abl tyrosin Kinase
prevent the phosphorylation of tyrosin

inhibit subsequent step that lead
to cell proliferation

* Orally for

Chronic myelogenous leukemia

AE:

fluid retention • Edema

hepatotoxicity •

neutropenia ←

Genfitinib

* for - epidermal
growth factor
receptor

* treatment of
non-small cell
lung cancer

* Orally

AE:

* acne-like skin rashes

diarrhea • nausea

can manageable هو قابل للإدارة

الحمد لله

* كلام الدكتور
لي ابي قصير لدواء فعين لهم
ال AE الي رز عليهم الدكتور وهران (المذكورين في الترخيص)
اسماء الادوية كالمين تابعين!

لو أن أحدكم همهم بإزالة
QALAM.FARIS
جبل وهو واثق بالله لأزاله

Done by Noor

أدعولي 😊