

**Pharmaceutical Analysis and Quality Control for Fourth Level**  
**Clinical Pharmacy Students**

**القائم بالتدريس:**

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**الممتحنون و المصححون:**

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**Research topics**

- 1- *Sampling in pharmaceutical analysis*
- 2- *Stability indicating assays*
- 3- *Documentation in pharmaceutical analysis*
- 4- *Errors in pharmaceutical analysis*
- 5- *Precision in pharmaceutical analysis*
- 6- *ICH guidelines*
- 7- *Basic tools of pharmaceutical quality control*
- 8- *Oxidation and hydrolysis are considered two of the most common changes of pharmaceutical active ingredients*
- 9- *In-vivo and In-vitro analysis of antiviral agents.*
- 10- *Quality control and quality assurance.*
- 11- *Correction of analytical errors.*
- 12- *Physical stability of pharmaceutical formulations.*
- 13- *Total quality management in pharmaceutical industry.*
- 14- *In-vivo and In-vitro Analysis of quinolone antibiotics.*
- 15- *Chemical changes that might occur to active pharmaceutical ingredients.*