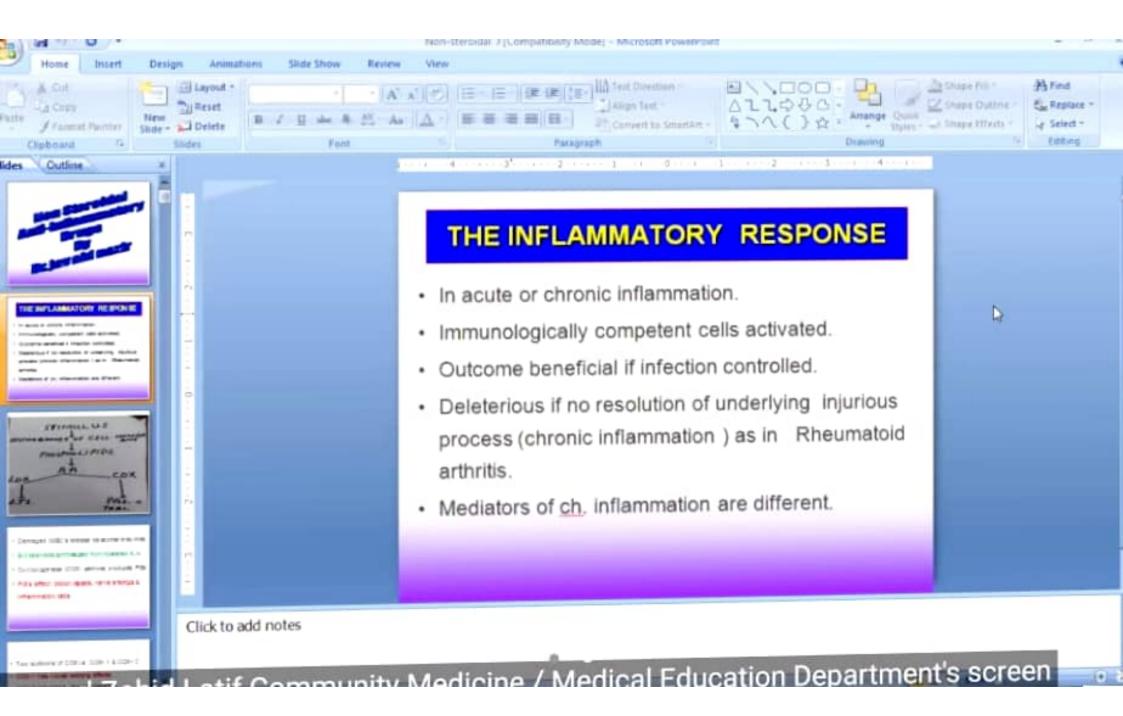
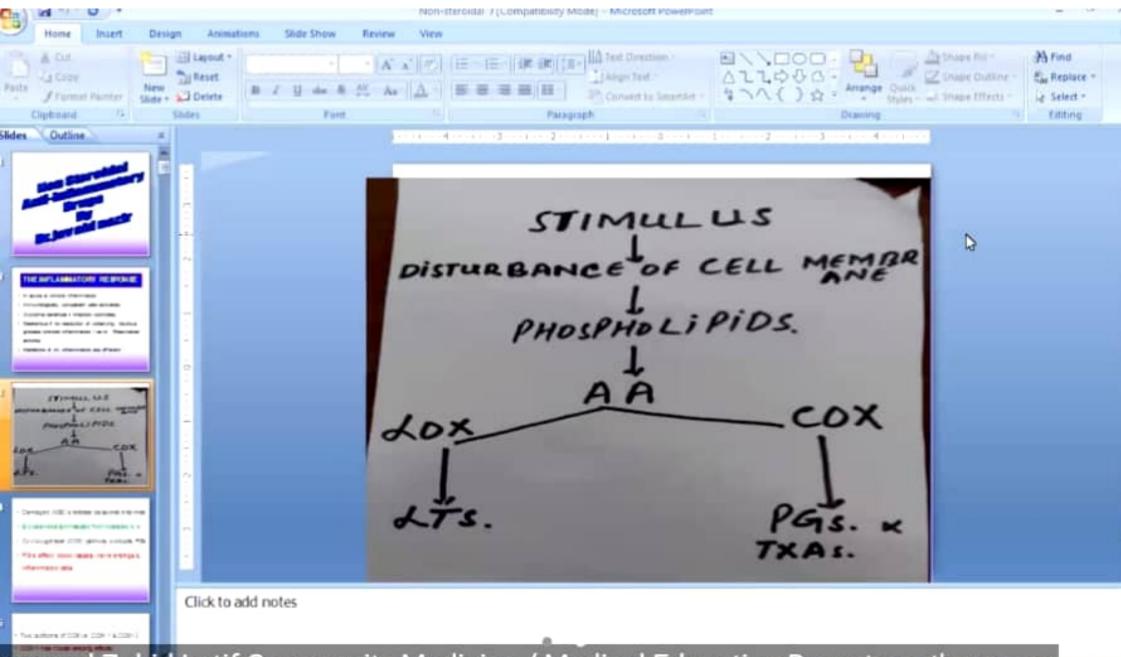
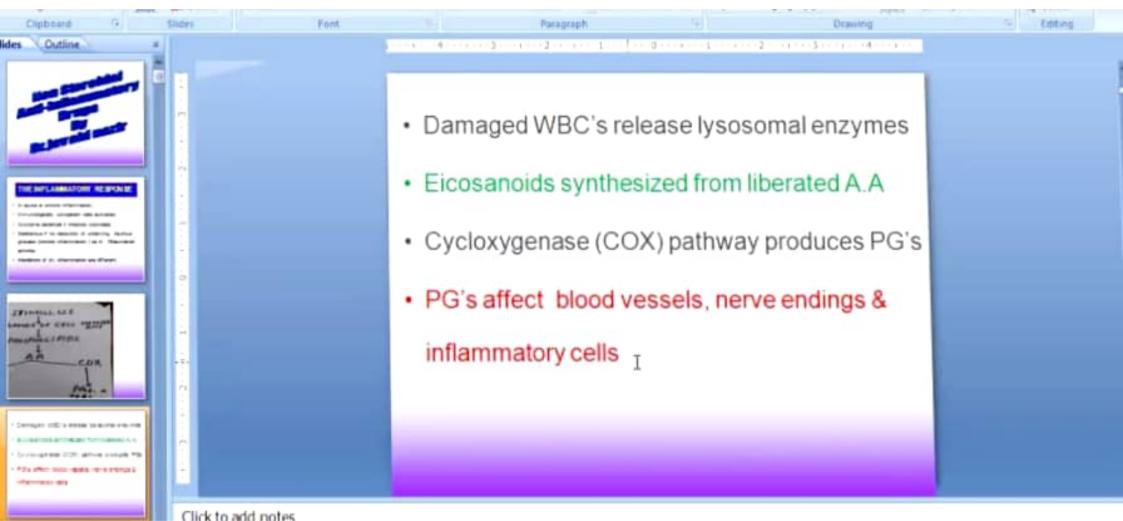


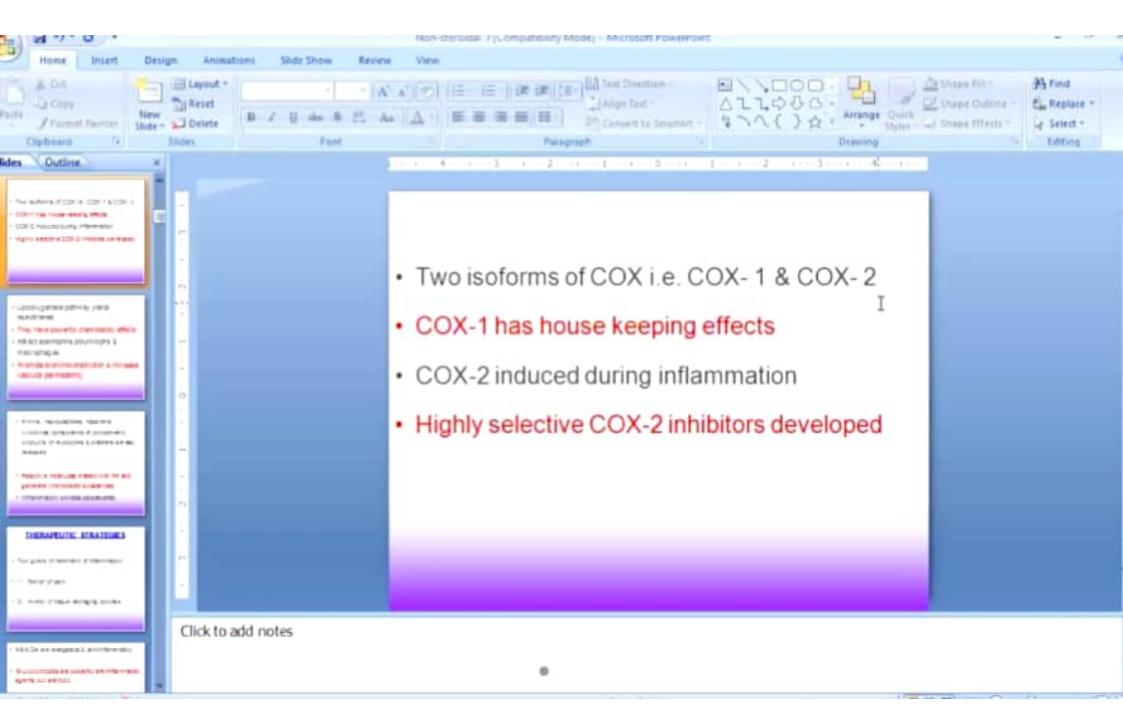
· Not service of CODING TOPP 1 & CODING

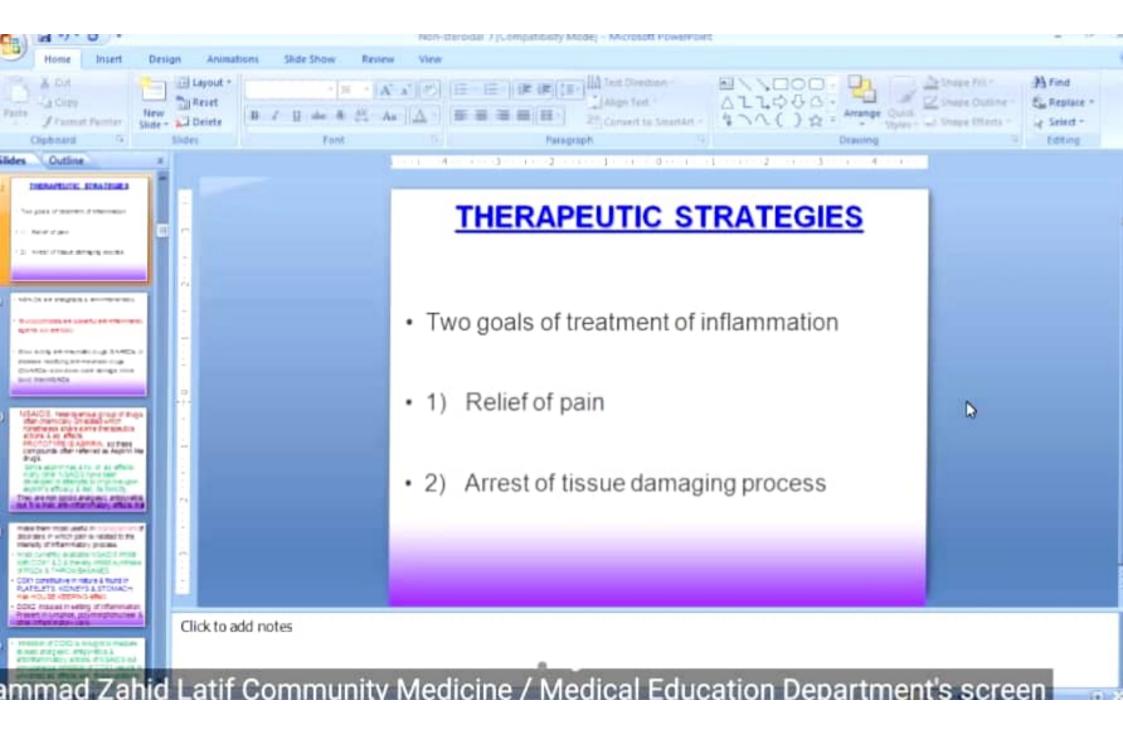


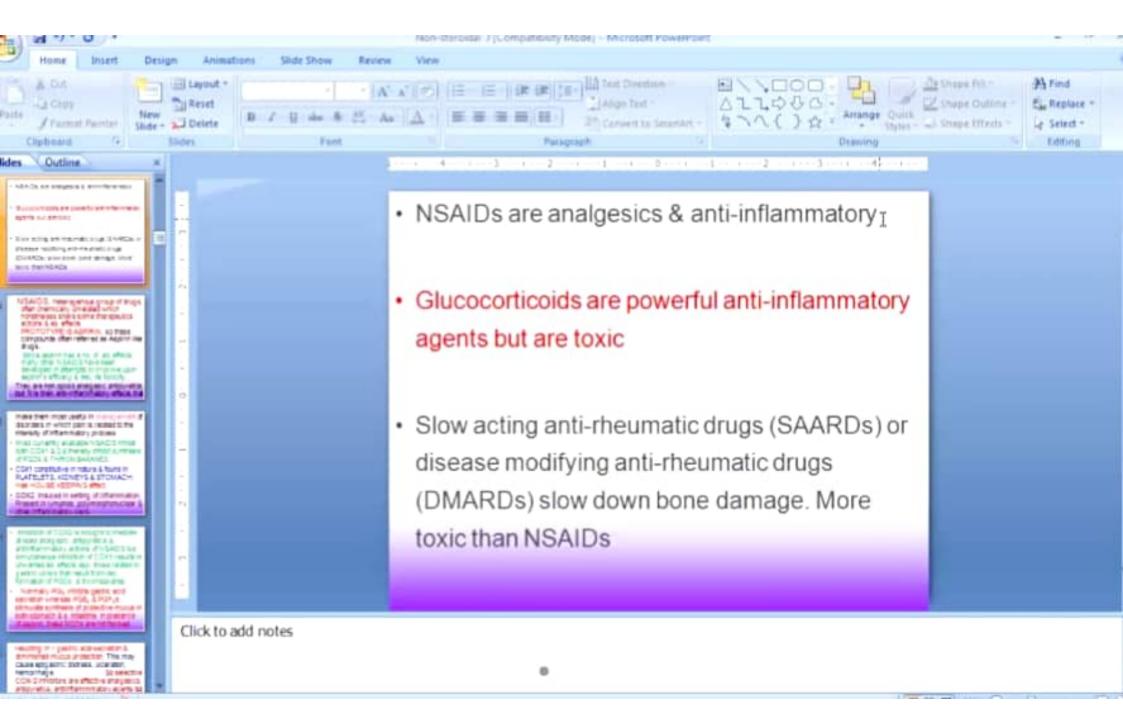


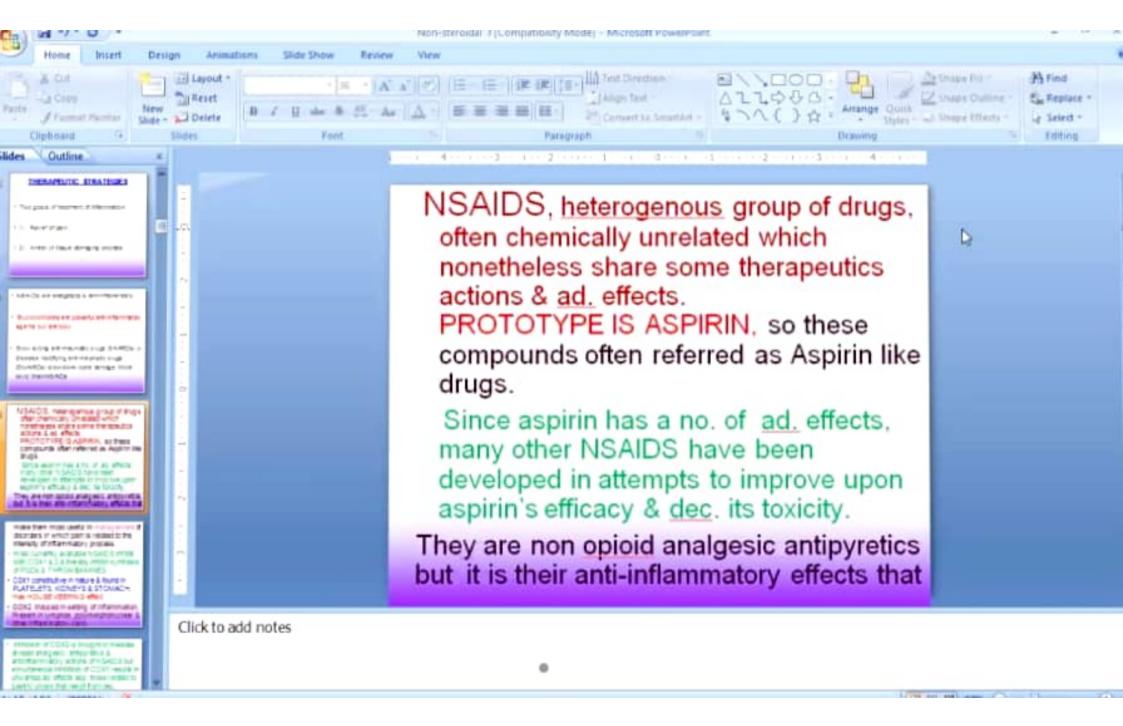
ammad Zahid Latif Community Medicine / Medical Education Department's screen

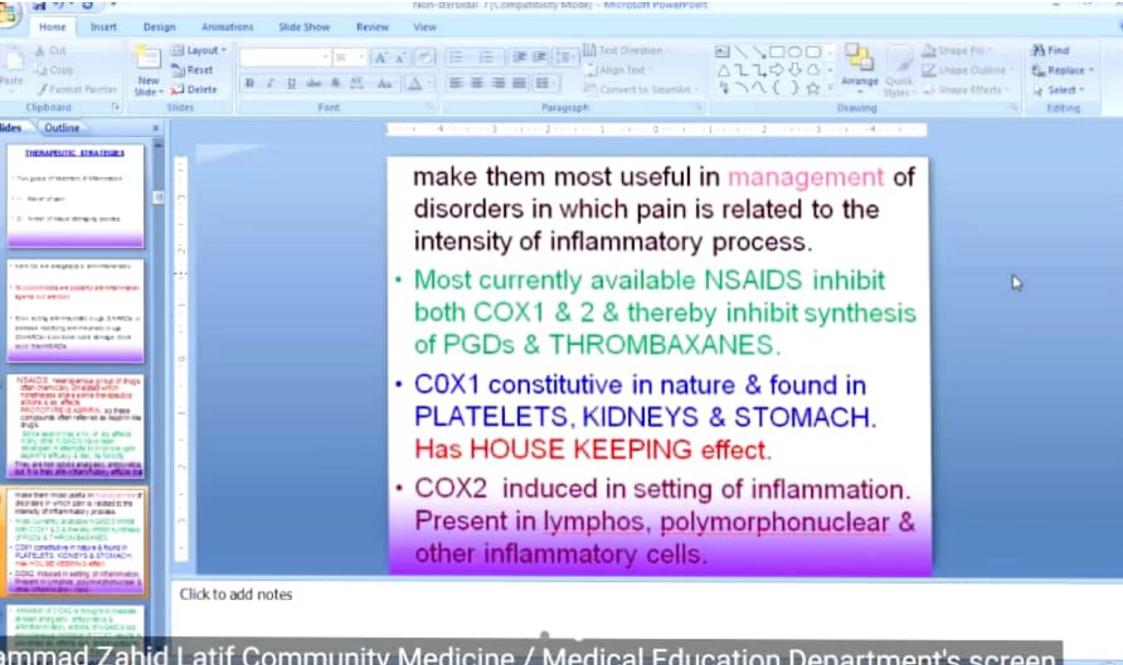


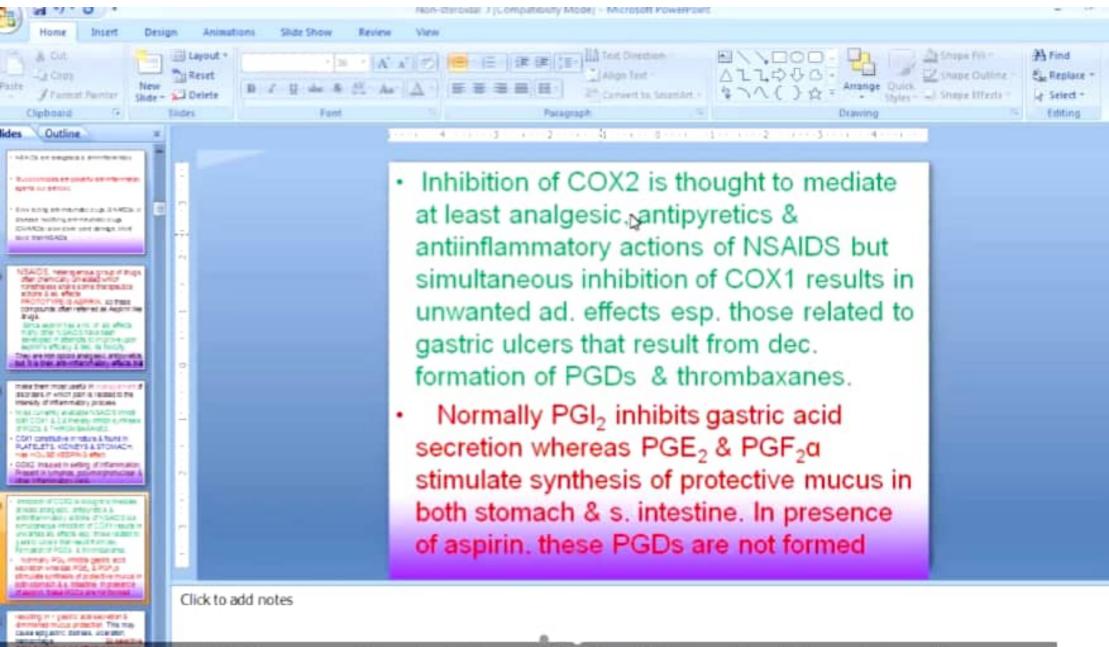




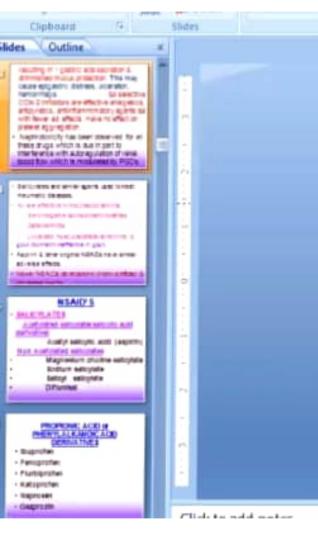








mmad Zahid Latif Community Medicine / Medical Education Department's screen



Fant

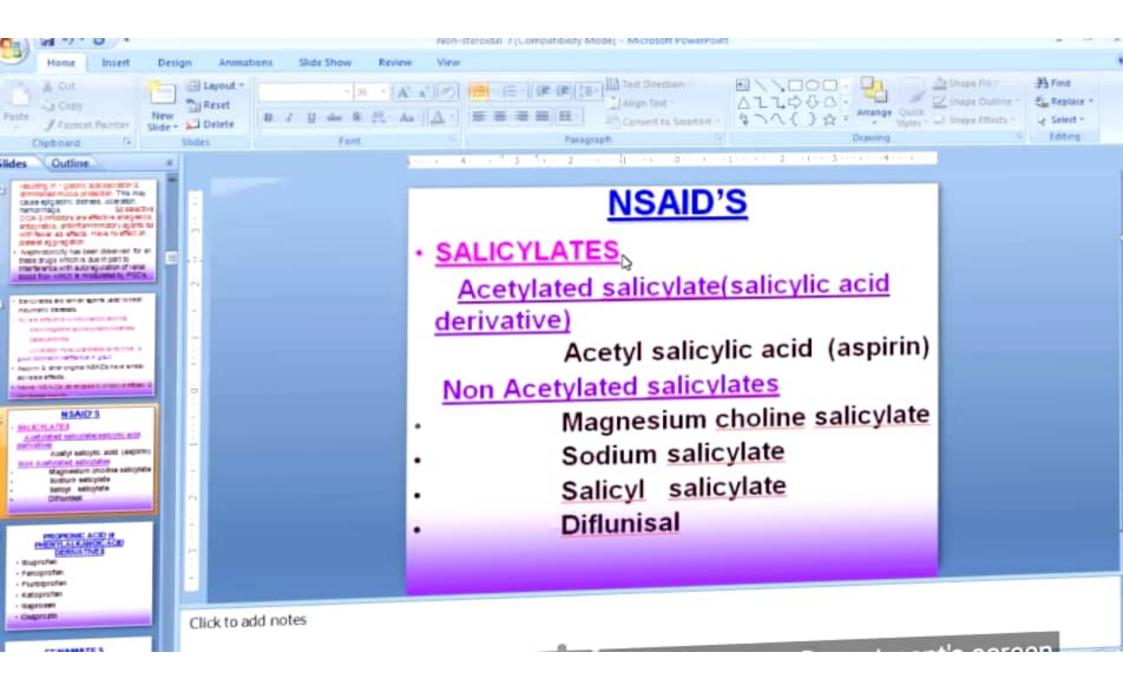
#### 

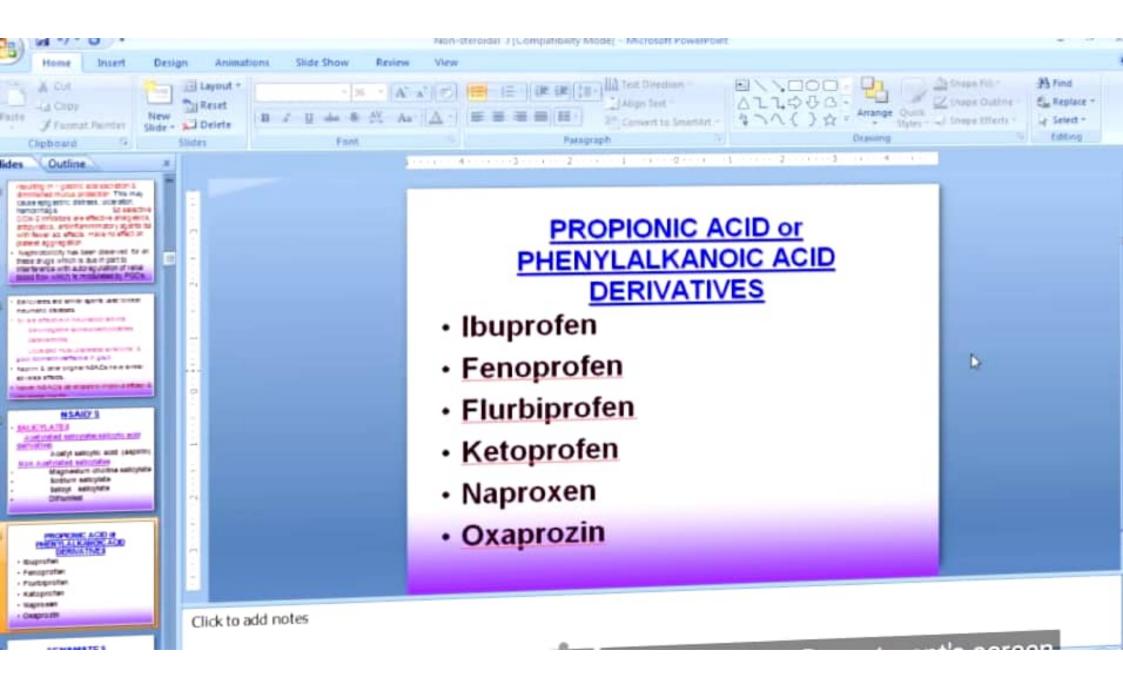
Parapraph

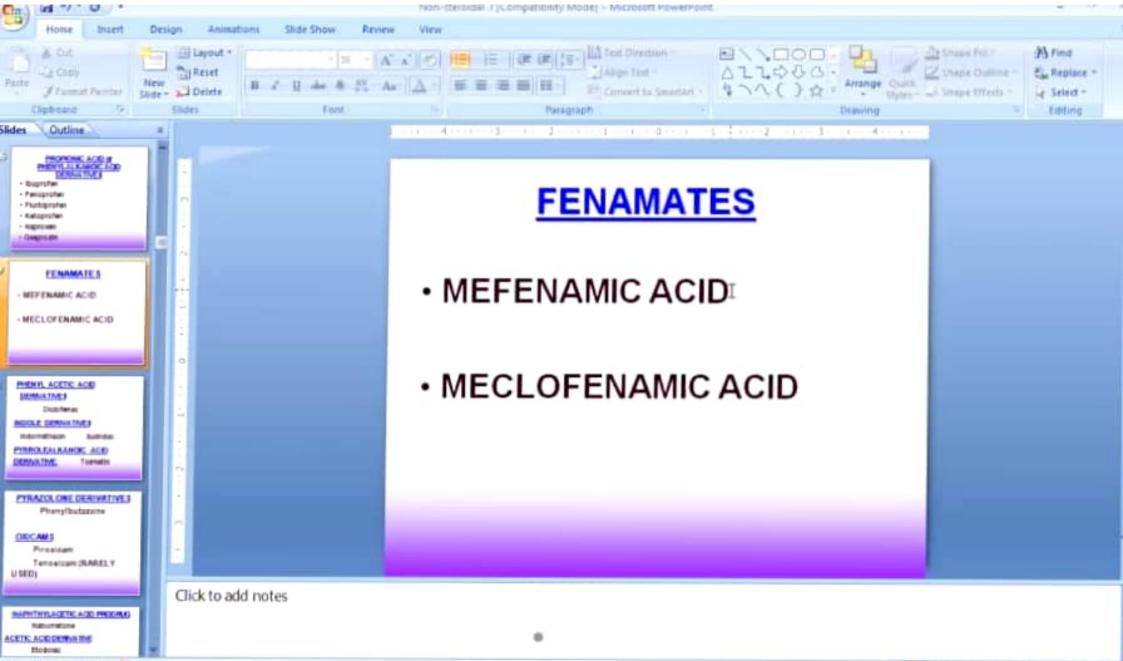
resulting in † gastric acid secretion & diminished mucus protection. This may cause epigastric distress<sup>I</sup>, ulceration, hemorrhage. So selective COX-2 inhibitors are effective analgesics, antipyretics, antiinflammatory agents but with fewer ad. effects. Have no effect on platelet aggregation.

Nephrotoxicity has been observed for all these drugs which is due in part to interference with autoregulation of renal blood flow which is modulated by PGDs. Edition

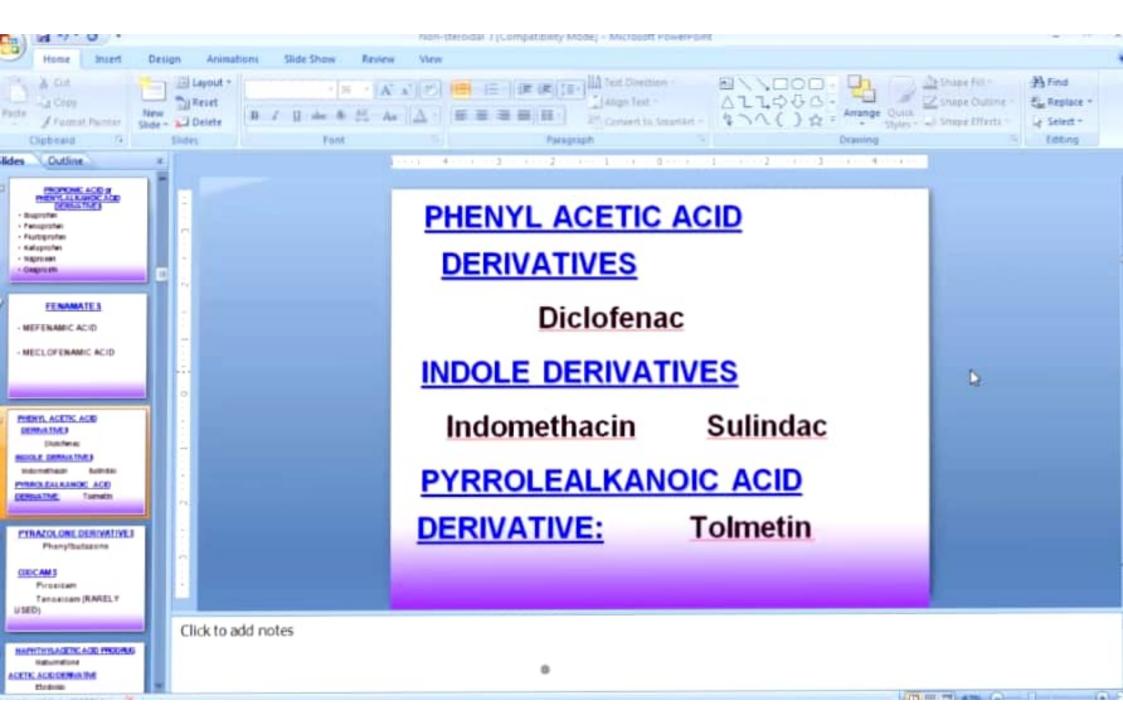
Drawing

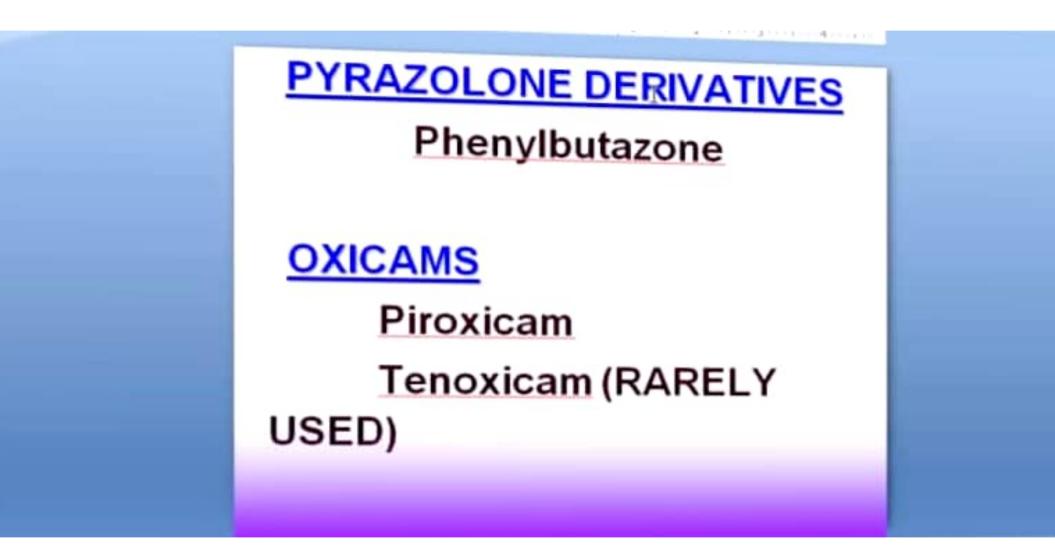


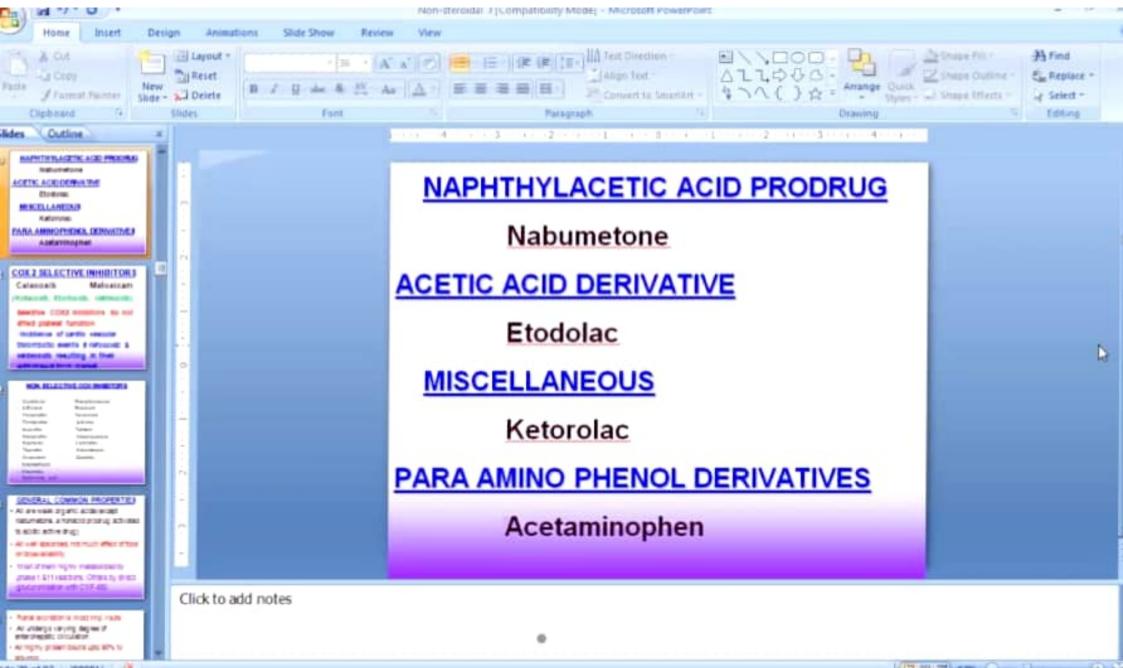


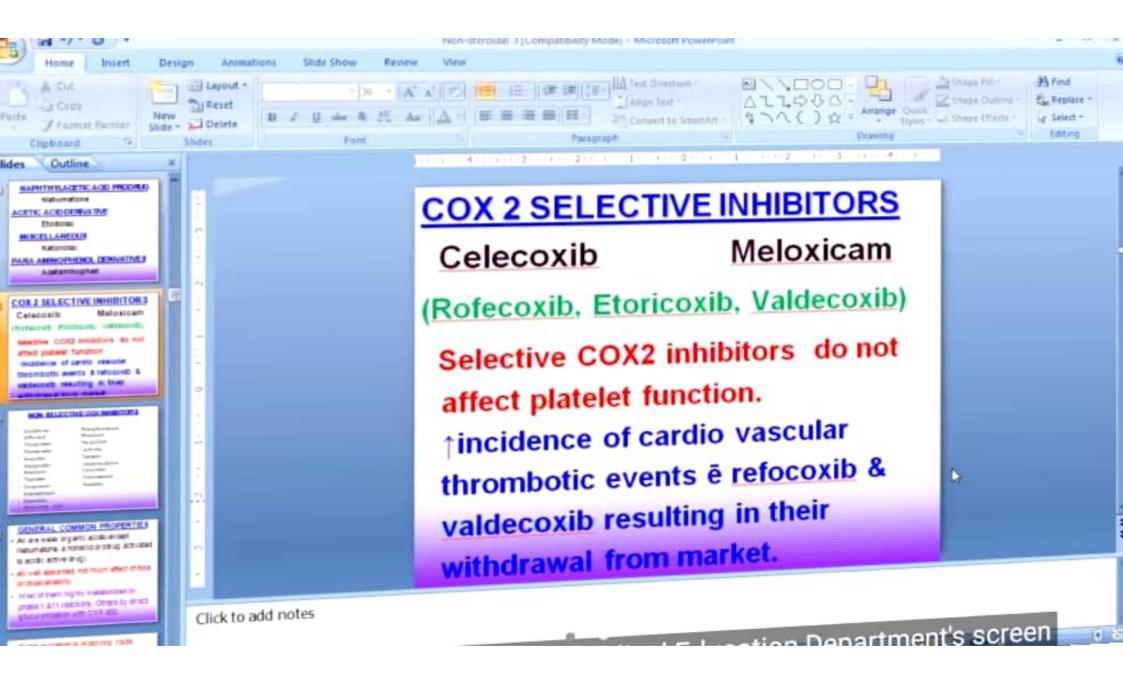


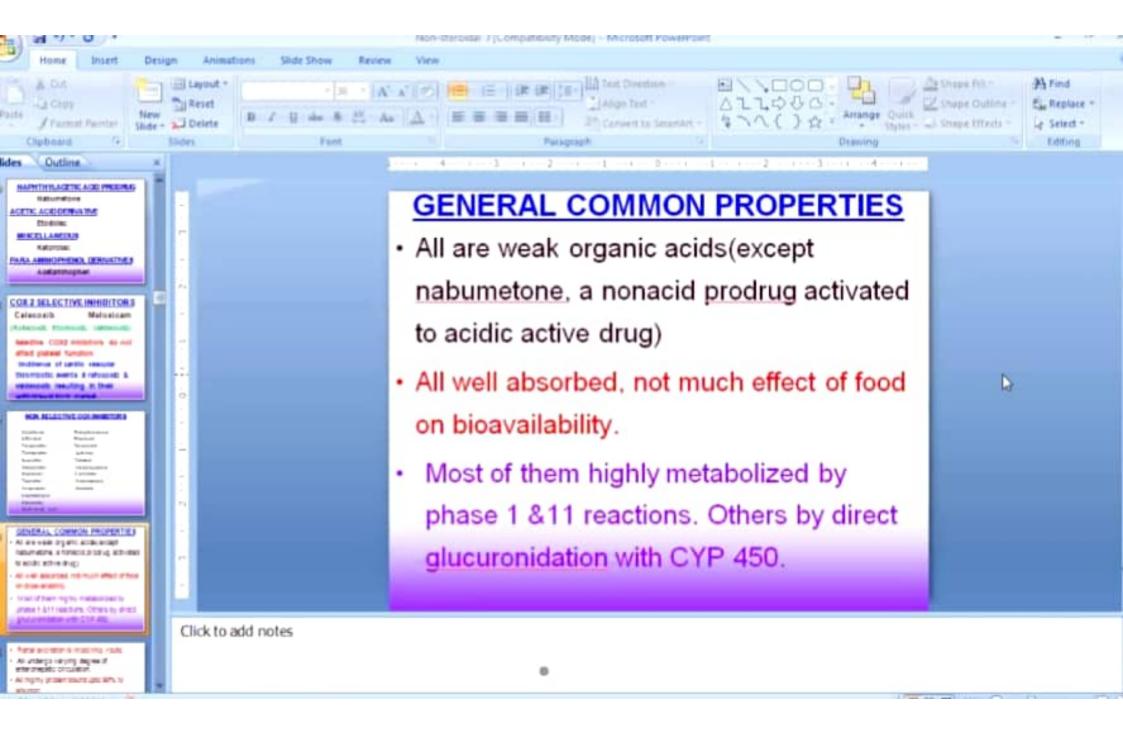
12 17 of 87 W001 . . .

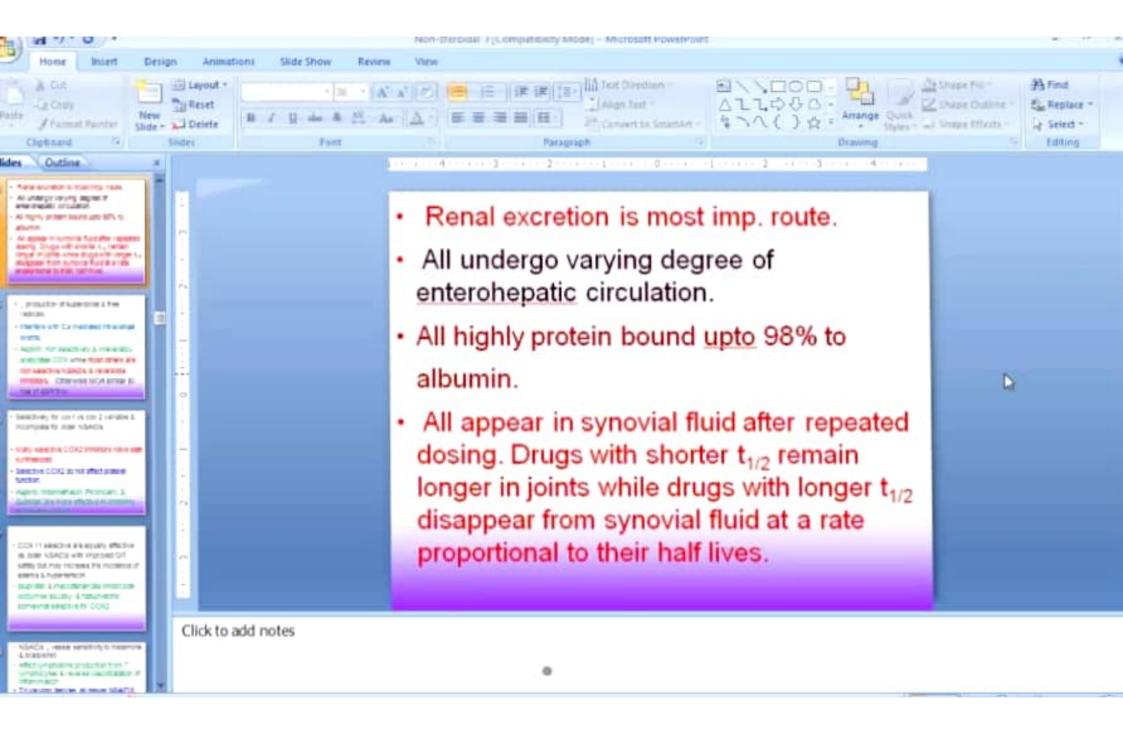


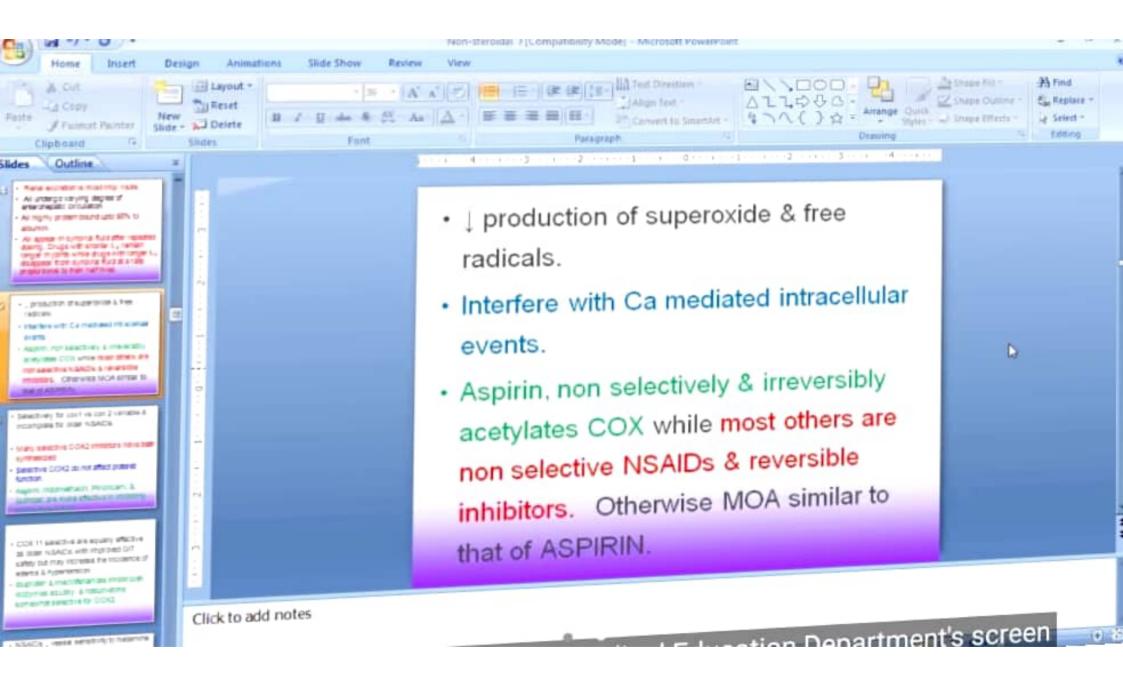


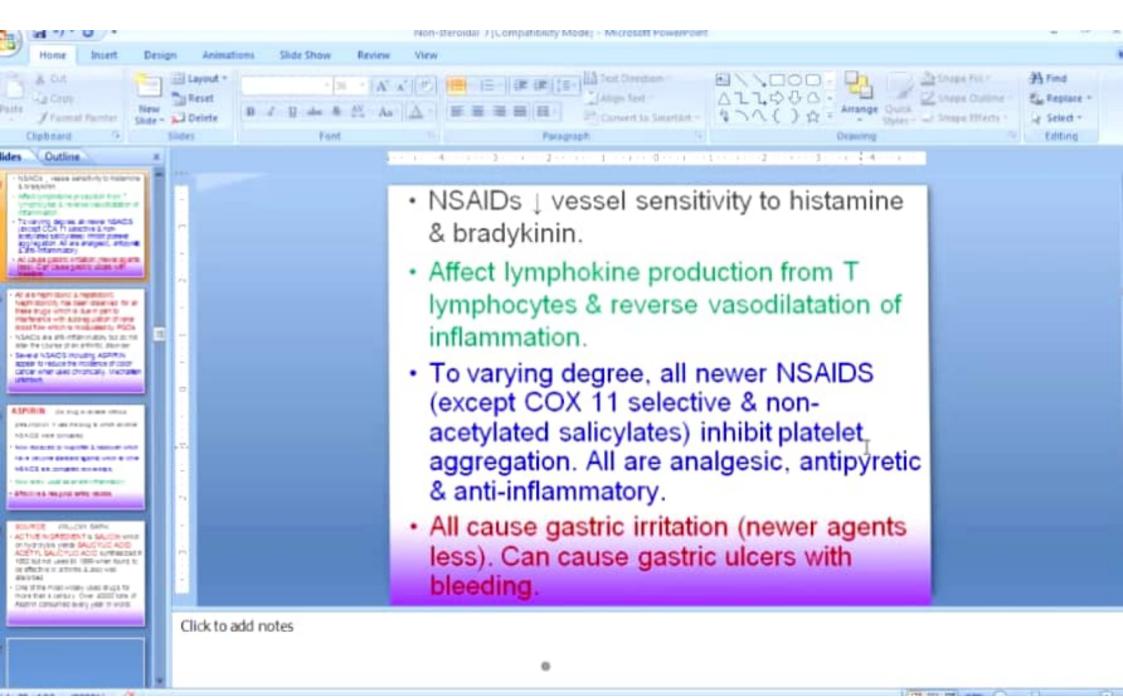


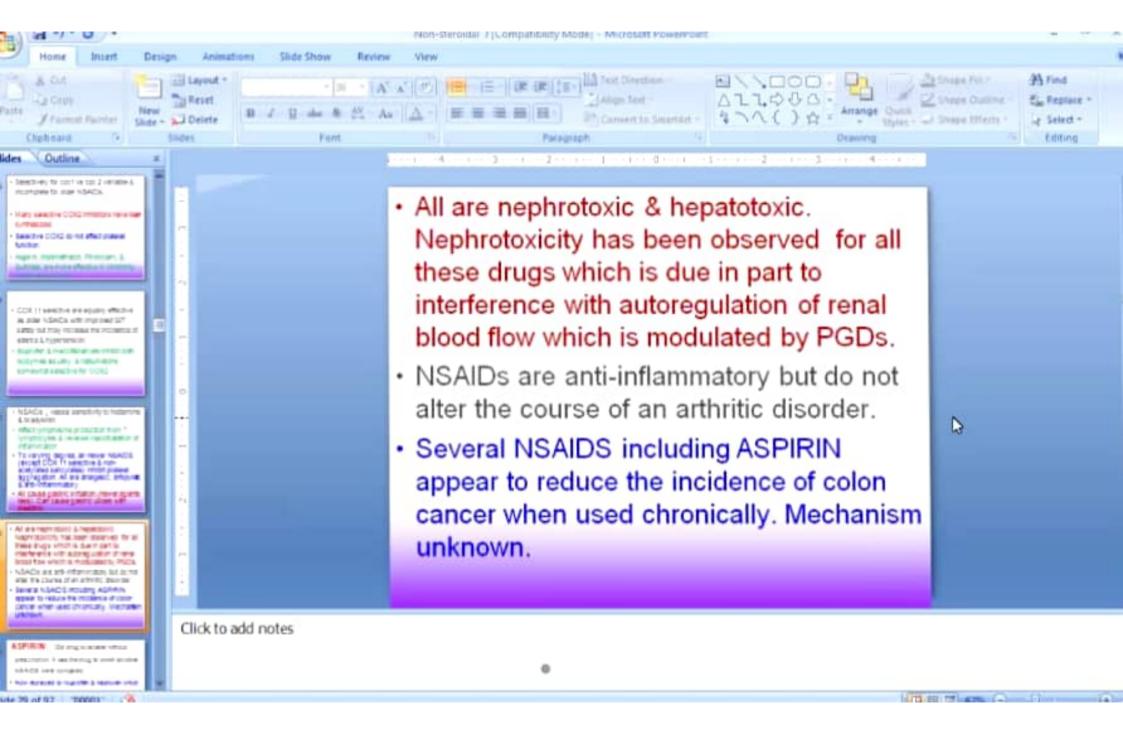


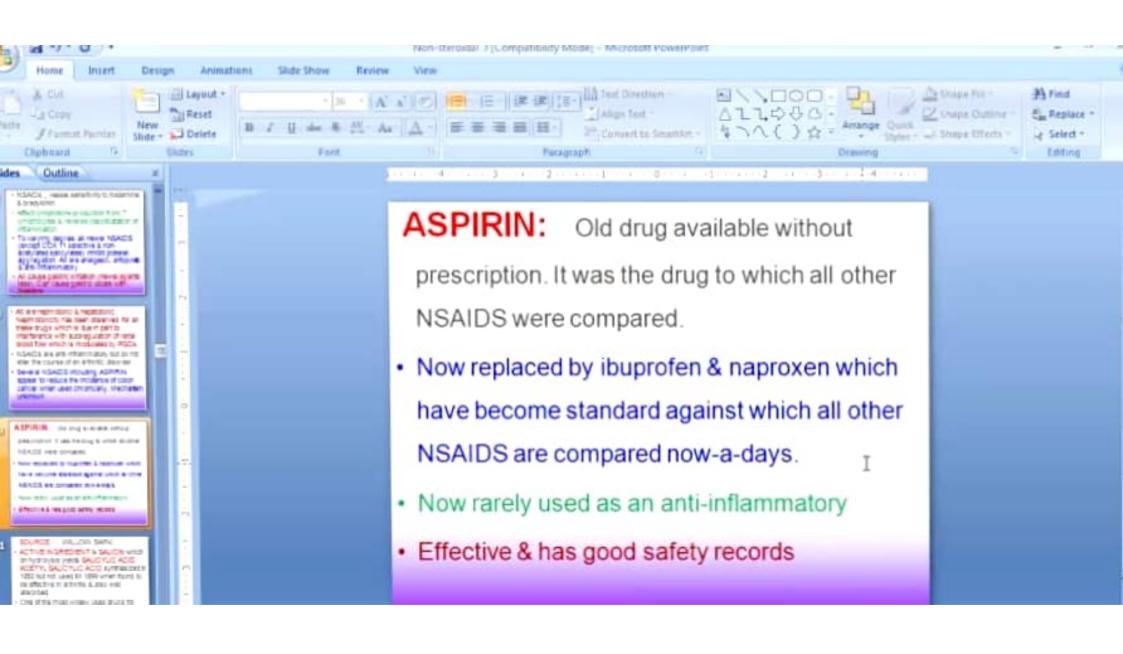


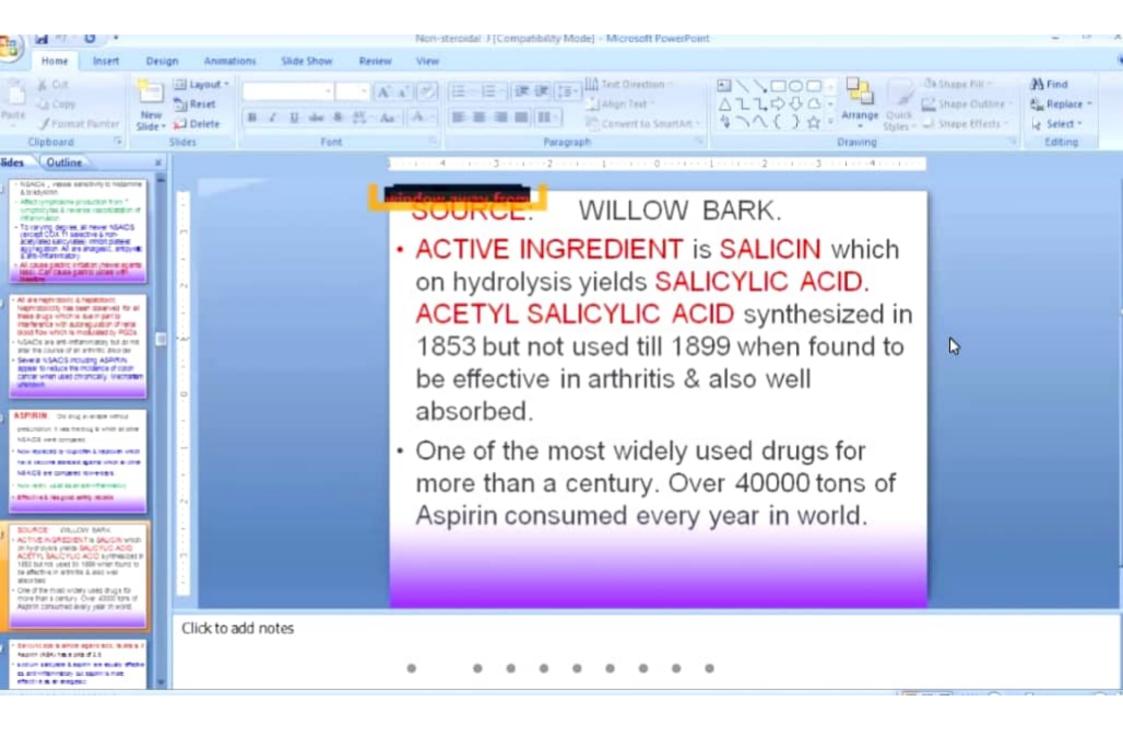


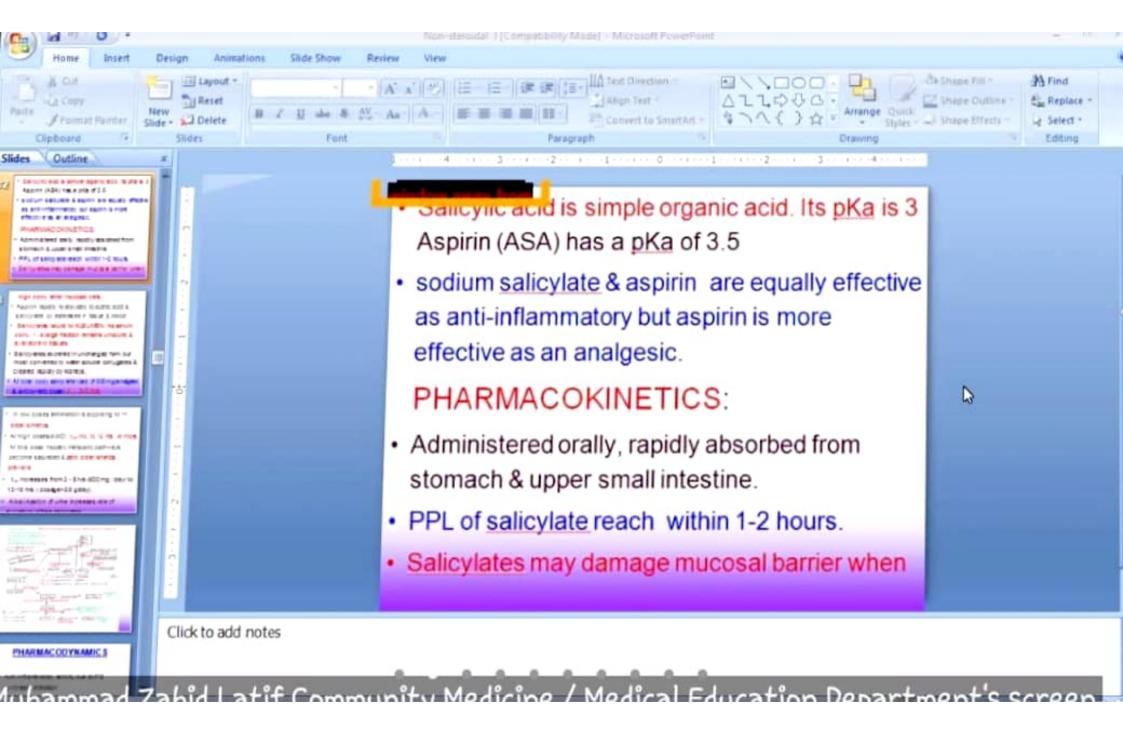


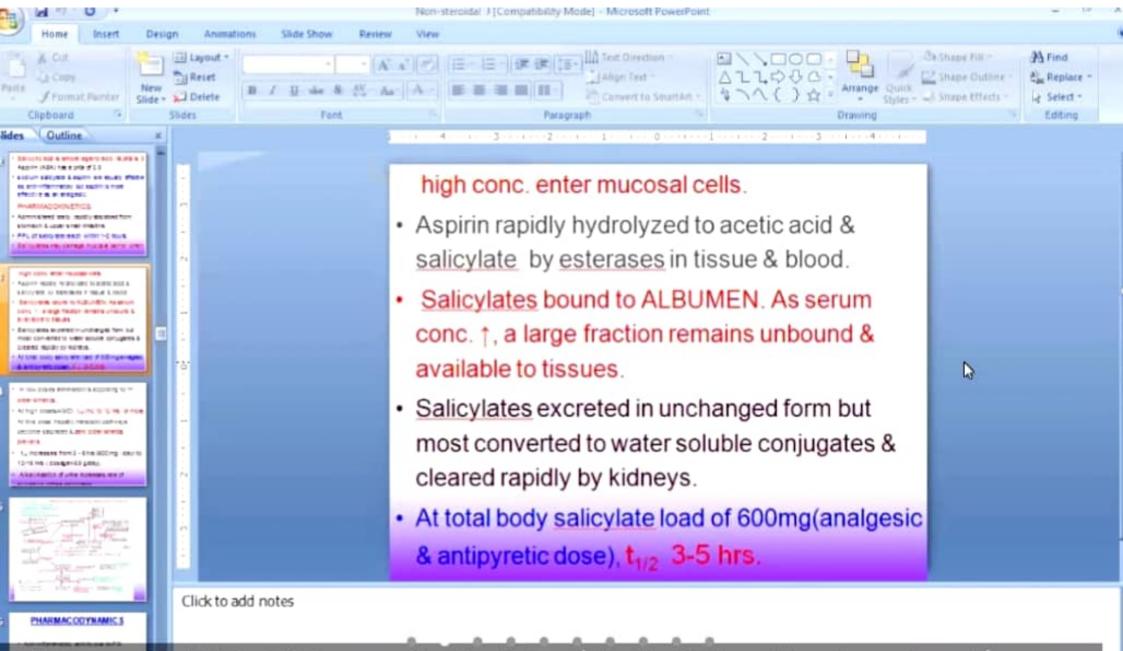




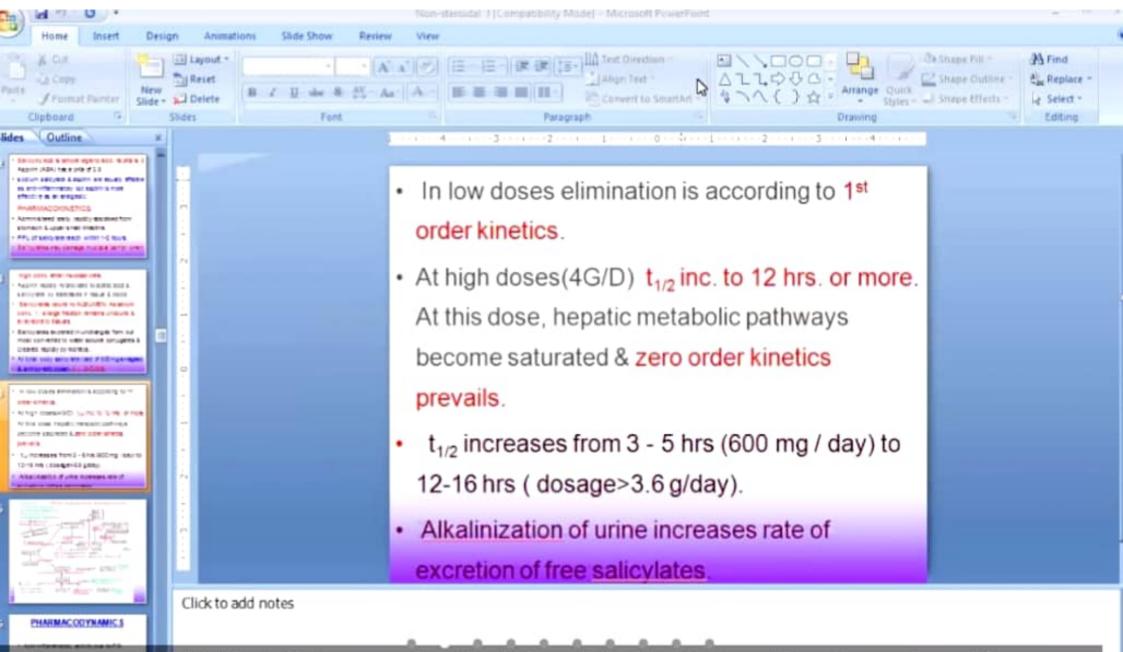








Muhammad Zahid Latif Community Medicine / Medical Education Department's screen



Muhammad Zahid Latif Community Medicine / Medical Education Department's screen

# PHARMACODYNAMIC S

# Anti-Inflammatory activity due to PG

## synthesis inhibition

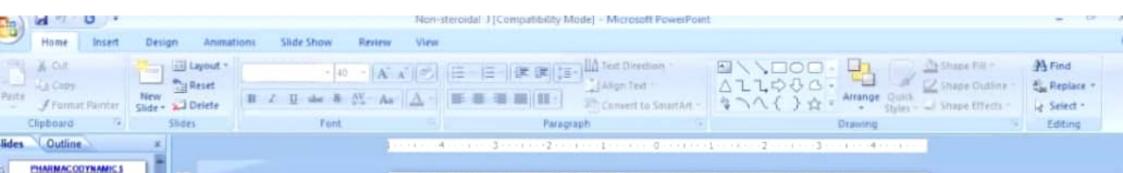
# Inhibition of cherrotacis

## Down regulation of interleukin1 production.

MOA: Aspirin non selectively & irreversibly acetylates enzyme COX(prostaglandin synthase) which catalyzes the conversion of AA to endoperoxide compounds. At appropriate doses, drug 1 the formation of both PGS & TXA<sub>2</sub> but not leukotrienes. Effectiveness of aspirin is partly due to its ability to inhibit COX & partly b/o effect of its primary metabolite i.e. salicylate, both to inhibit COX & also to act in other ways e.g. as an O<sub>2</sub> radical scavenger. Also possibly inhibition of chemotaxis, down regulation of IL1production, 1 production of free radicals

## PHARMACOLOGICAL ACTIONS

- 1. Anti- inflammatory effect
- 2. Analgesic effect
- 3. Anti-pyretic effect
- 4. Anti- platelet effect
- 5. Uricosuric effect
- 6. Respiratory action
- 7. Action on kidneys



### ANTI-INFLAMMATORY EFFECTS

 Aspirin is useful in a variety of conditions including RA, osteoarthritis, <u>muscloskeletal</u> <u>disordes & pericarditis</u>. Aspirin inhibits COX activity which leads to inhibition of PGDs synthesis & modulates those effects of inflammation in which PGDs act as <u>mediaters</u>. So Aspirin inhibits granulocyte adherence to damaged vasculature, stabilizes lysosomes, inhibits <u>chemotaxis</u> of polys & macrophages to site of inflammation.

ity Medicine / Medical Education Dena

Click to add notes

Amontaneousy amount 1/73 a) mentaneousy amount mentaneousy personal

They would be chimesen and she

IOA: Augure nationalistic Line-engle acetrones engine CORpresegander synthesis which callspace transmission 4 AV is encounted acetropication. It appropriet

Asses, and pre-terrentarial and PAR A. TAA, but not stationeds. Effectively of Automotive party purchases and the series A performer and reacting primes respective a descent respective primes respective action.

after vers big som fyr de eine eiger After ansere verstenen er timmenene anve

PHARMACOLOGICAL ACTIONS 1. Arti- Infannaziy effect 2. Anagesic effect

ANTHINELARMATORY REPESTS

Including RA, Leaguerring, Automotion Discrete Elipsonia (R. Automotion (CD) Echtry Articlescus Internation (PSD) Echtres Elipsonia International (PSD) (Attemption Elipsonia (RD)) est au resource

Ex representation provide and the evolution contractory constraints, including to the evolution interaction of evolution of a second strainty and

ELLING SAT STREET, ISSUED CARBON TRANSPORT

and the second

1 Arti-pirato effect A Arti-pizzen effect S Unicasuro effect

5 Responses with

in a second

DURING STREET

Scanned with CamScanner



#### 

### ANALGESIC EFFECTS: Effective in reducing pain of mild to moderate intensity by 1 inflammation. Pain that accompanies inflammation & tissue injury probably results from local stimulation of pain fibres & enhanced pain sensitivity (hyperalgesia). Bradykinins & cytokines appear to be particularly imp. in eliciting pain of inflammation. These agents liberate PGDs(E<sub>2</sub> & F<sub>2</sub>) & probably other mediaters of inflammation that promote hyperalgesia.





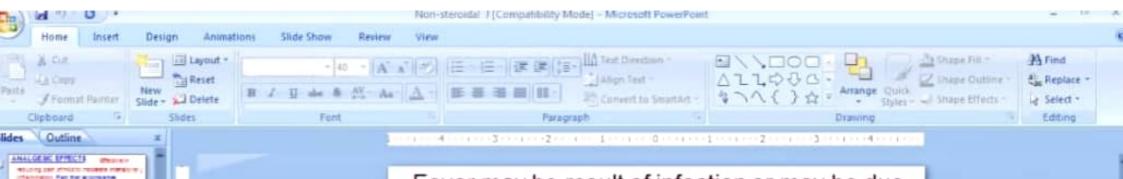
URICOSURIC

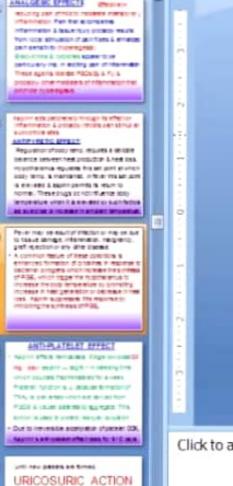
Aspirin acts peripherally through its effect on inflammation & probably inhibits pain stimuli at subcortical sites.

### ANTIPYRETIC EFFECT:

Regulation of body temp. requires a delicate balance between heat production & heat loss. Hypothalamus regulates this set point at which body temp. is maintained. In fever this set point is elevated & aspirin permits its return to normal. These drugs do not influence body temperature when it is elevated by such factors as exercise or increase in ambient temperature.

licing / Madical Education Depart





sale-rate dec renalização 18838-0128301-07-02489-801-8481

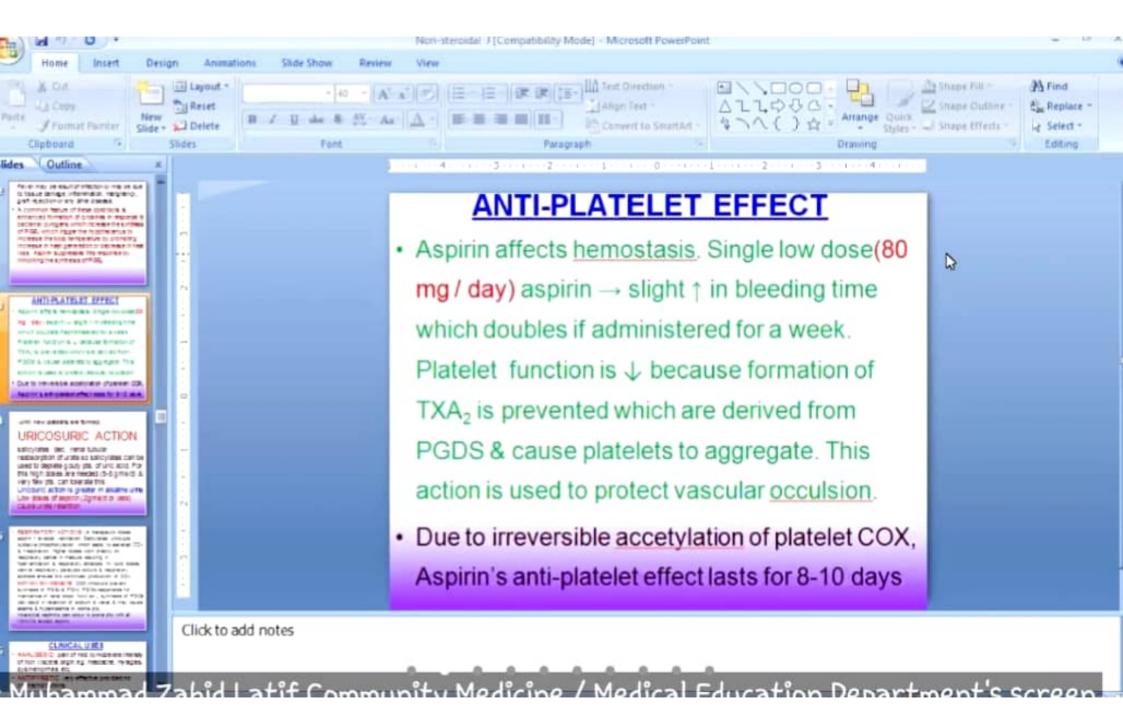
AN ARRY COMMON

Fever may be result of infection or may be due to tissue damage, inflammation, malignancy, graft rejection or any other disease.

 A common feature of these conditions is enhanced formation of cytokines in response to bacterial pyrogens which increase the synthesis of PGE<sub>2</sub> which trigger the hypothalamus to increase the body temperature by promoting increase in heat generation or decrease in heat loss. Aspirin suppresses this response by inhibiting the synthesis of PGE<sub>2</sub>.

Click to add notes

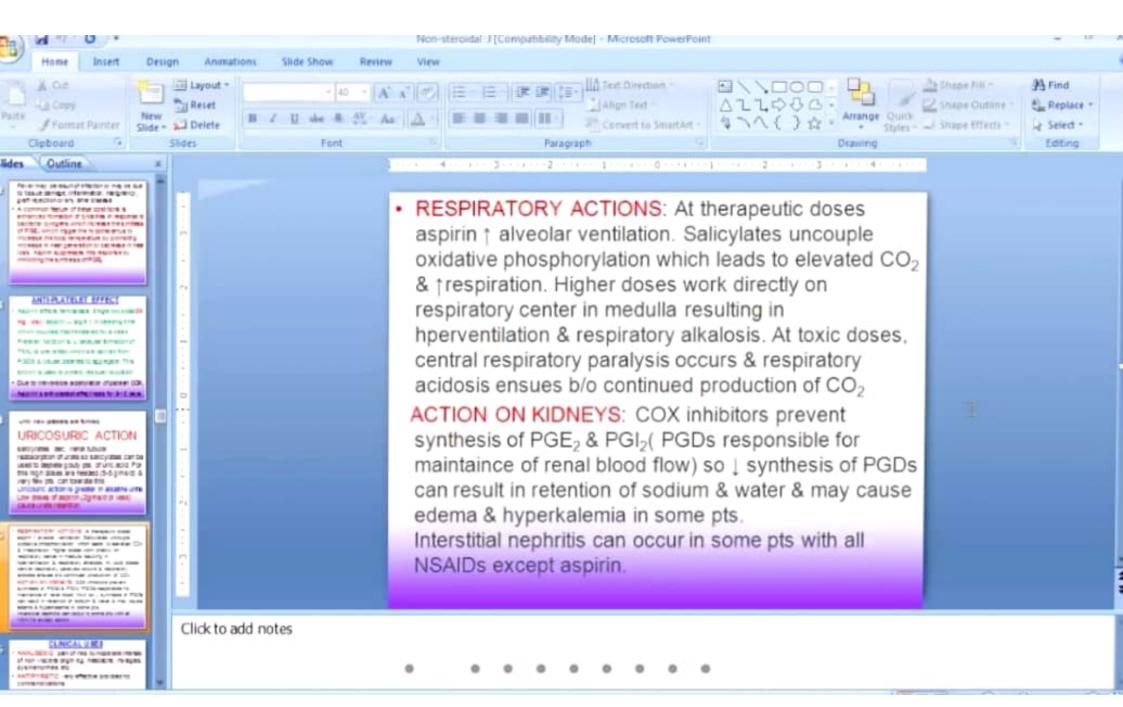
ATTRACTOR AND

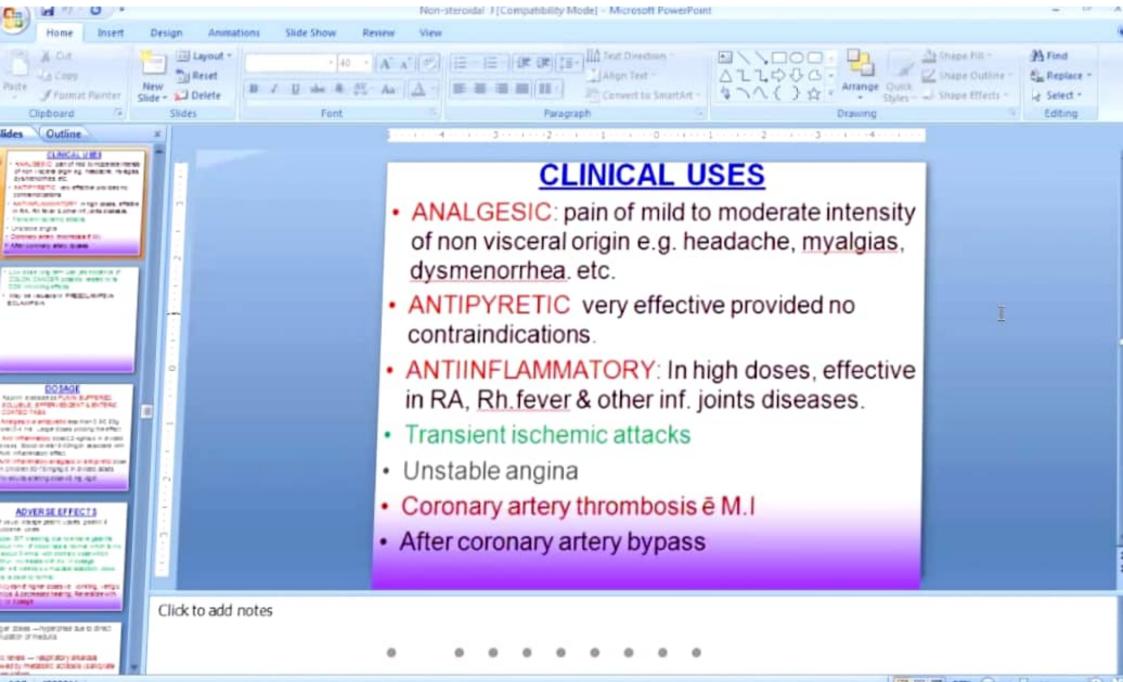


until new platelets are formed.

## URICOSURIC ACTION

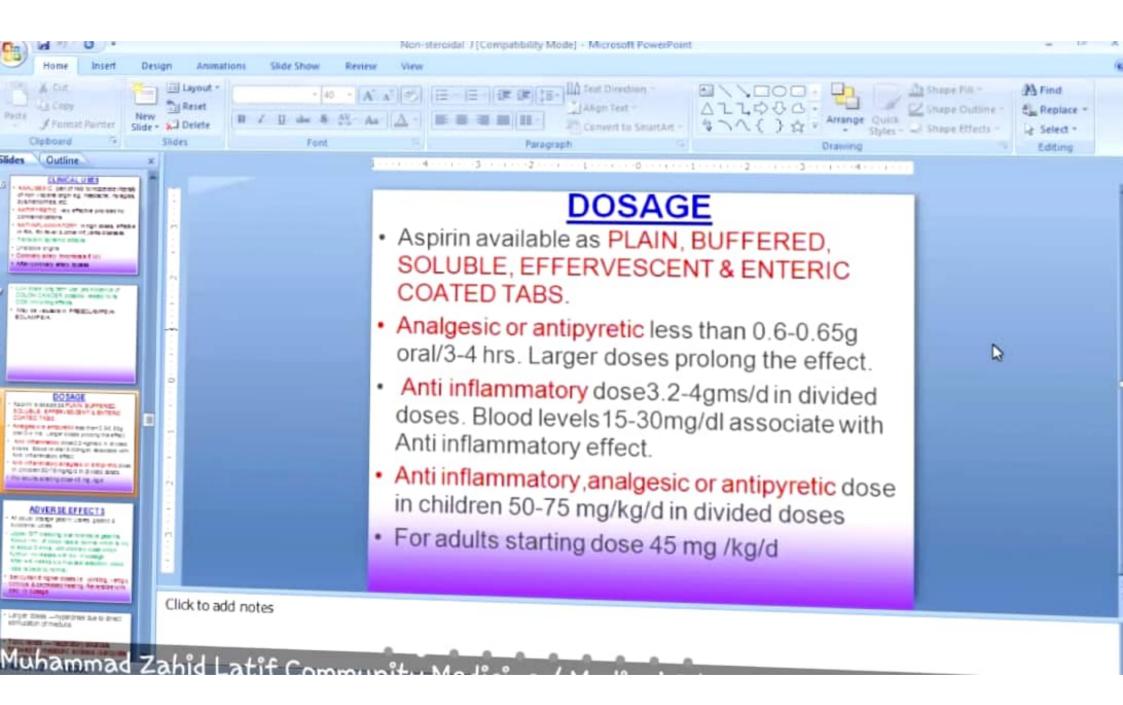
salicylates dec. renal tubular reabsorption of urate so salicylates can be used to deplete gouty pts. of uric acid. For this high doses are needed (5-8 gms/d) & very few pts. can tolerate this. Uricouric action is greater in alkaline urine. Low doses of aspirin (2gms/d or less) cause urate retention.

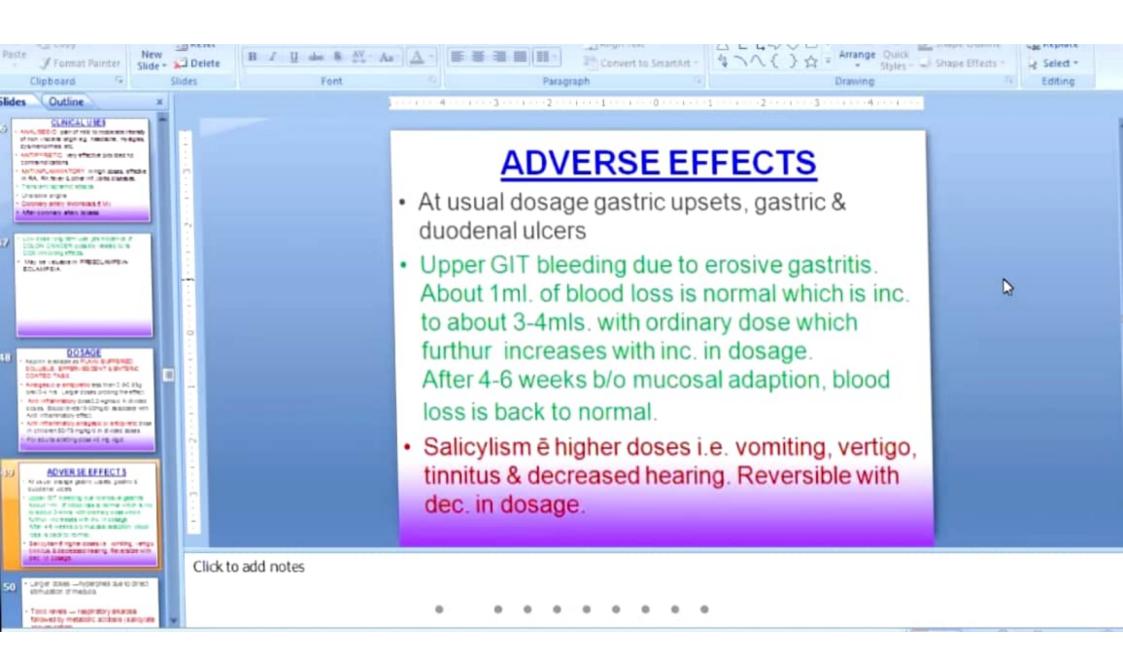




- Low dose long tem use jes incidence d' COLON CANDER possibly related to its COX inhibiting effects.
- May be valuable in PREECLAMPSIA
  ECLAMPSIA

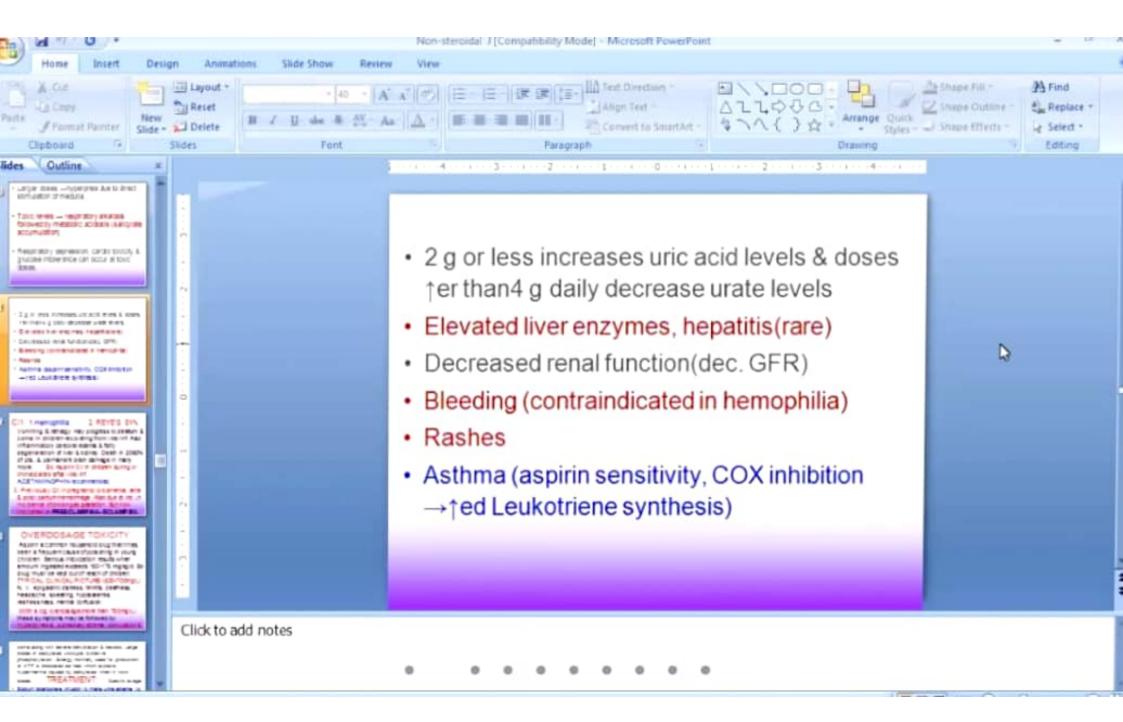


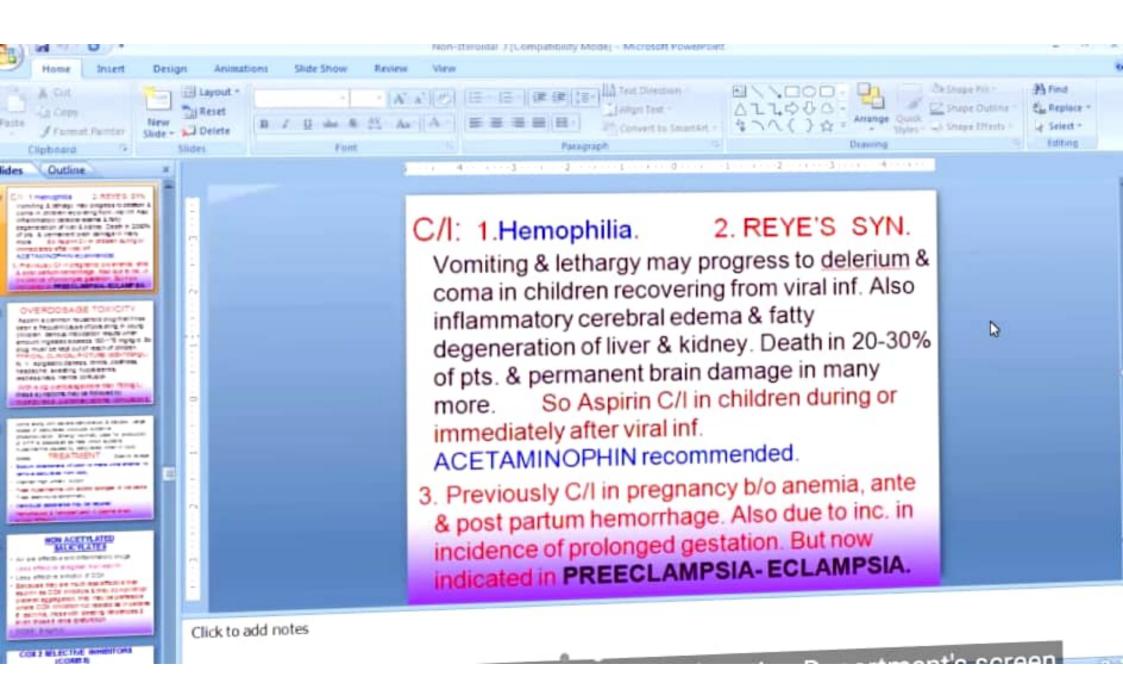


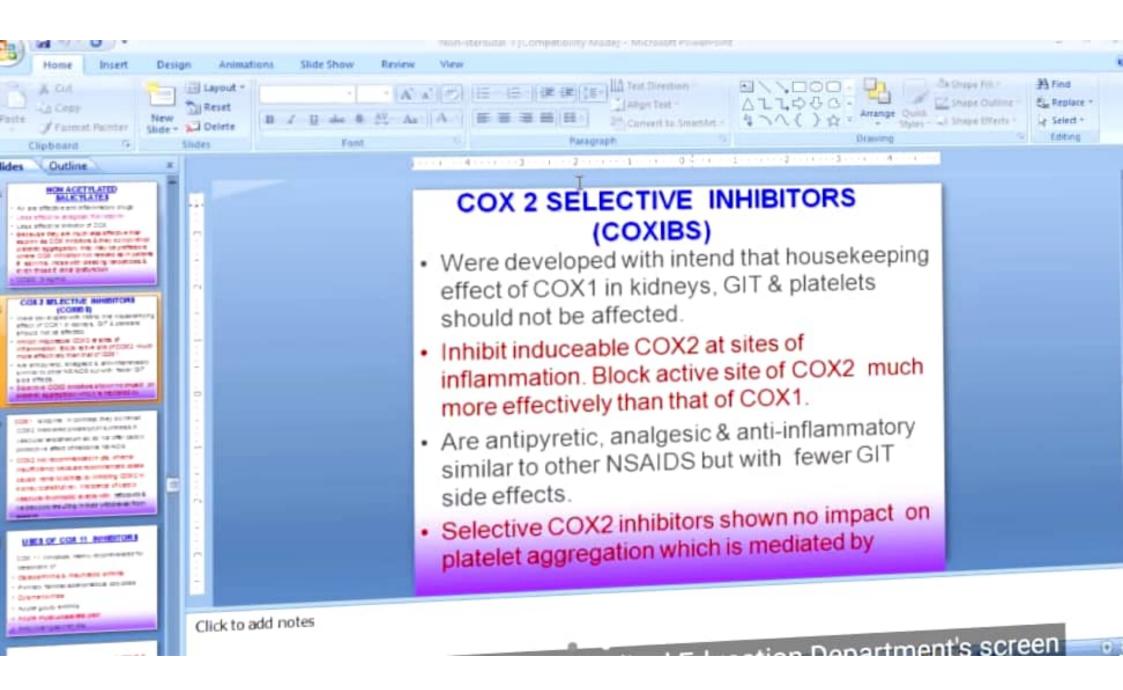


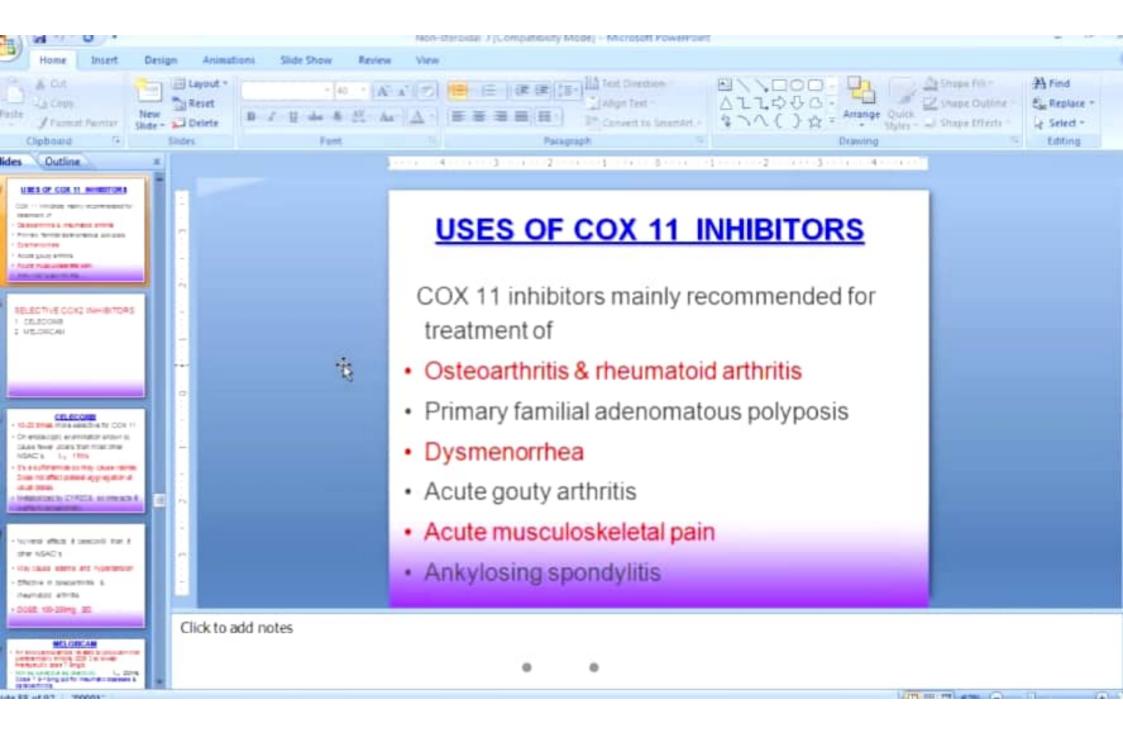
Larger doses →hyperpnea due to direct stimulation of medulla.

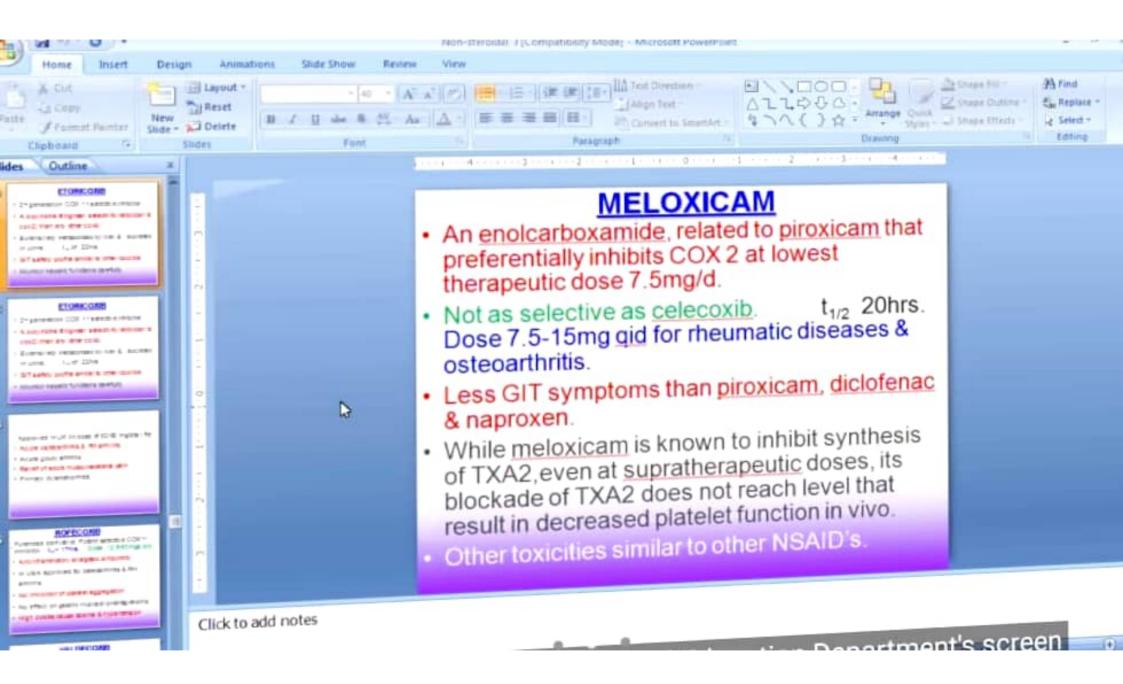
- Toxic levels → respiratory alkalosis followed by metabolic acidosis (salicylate accumulation)
- Respiratory depression, cardio toxicity & glucose intolerance can occur at toxic doses.

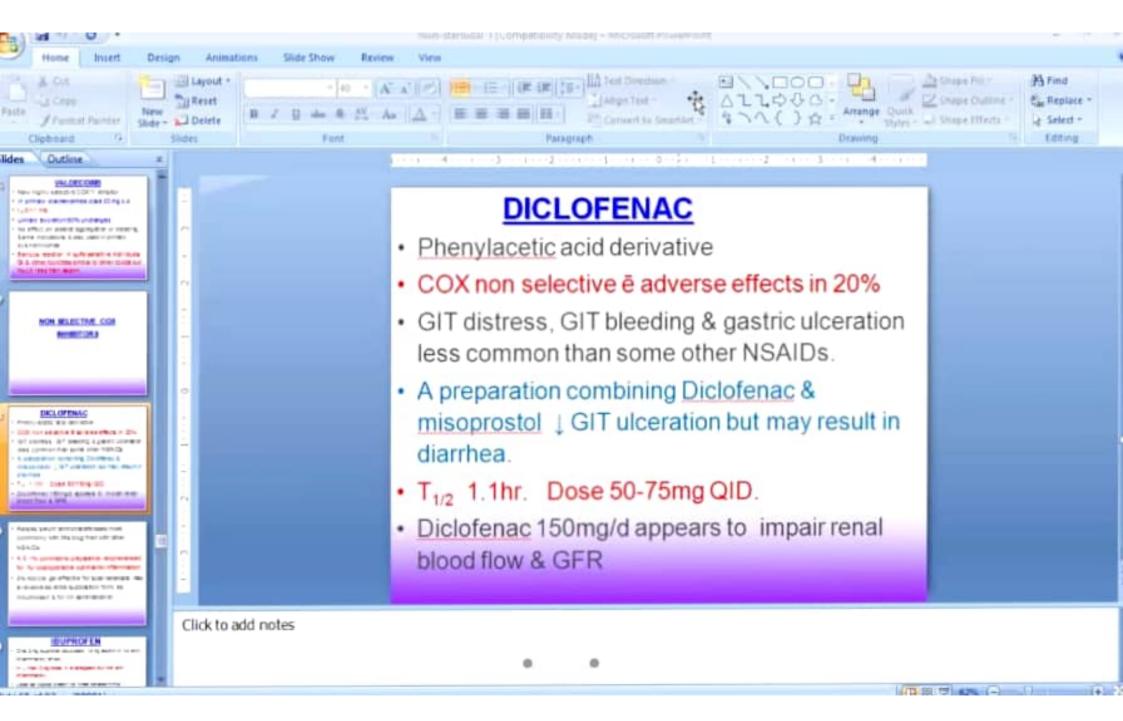


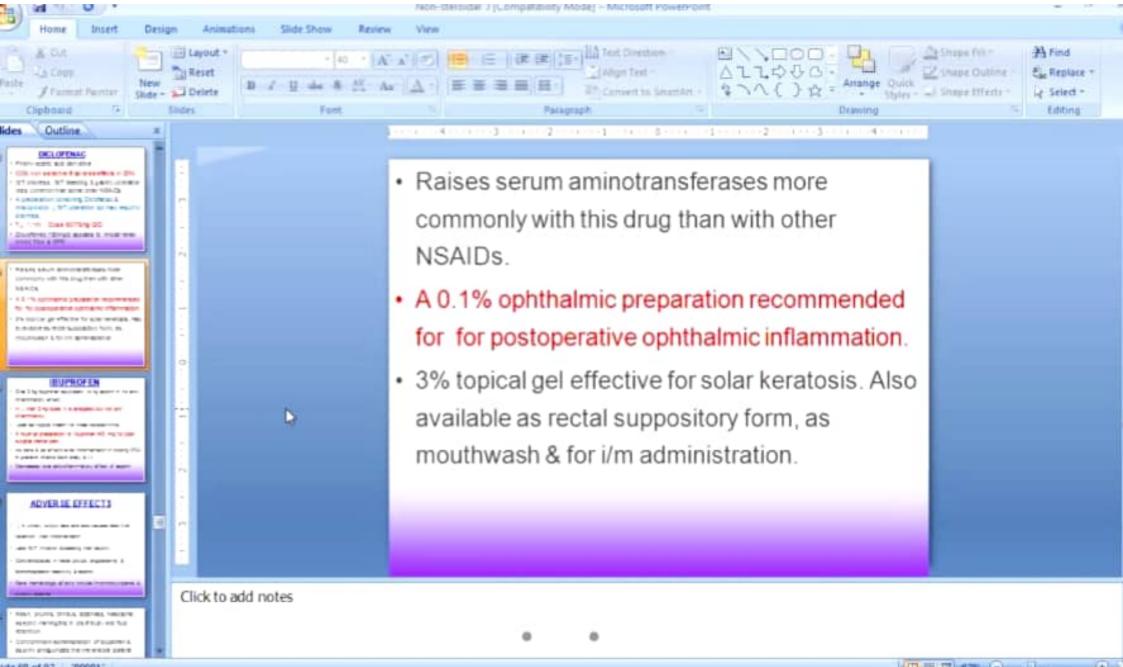




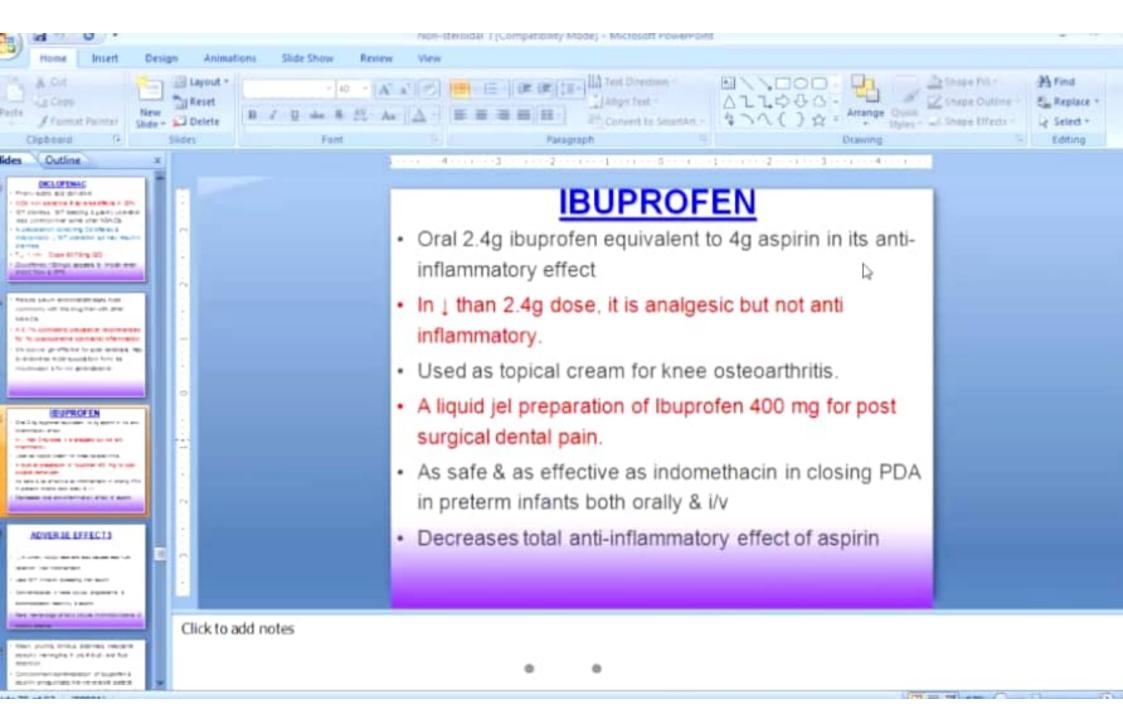


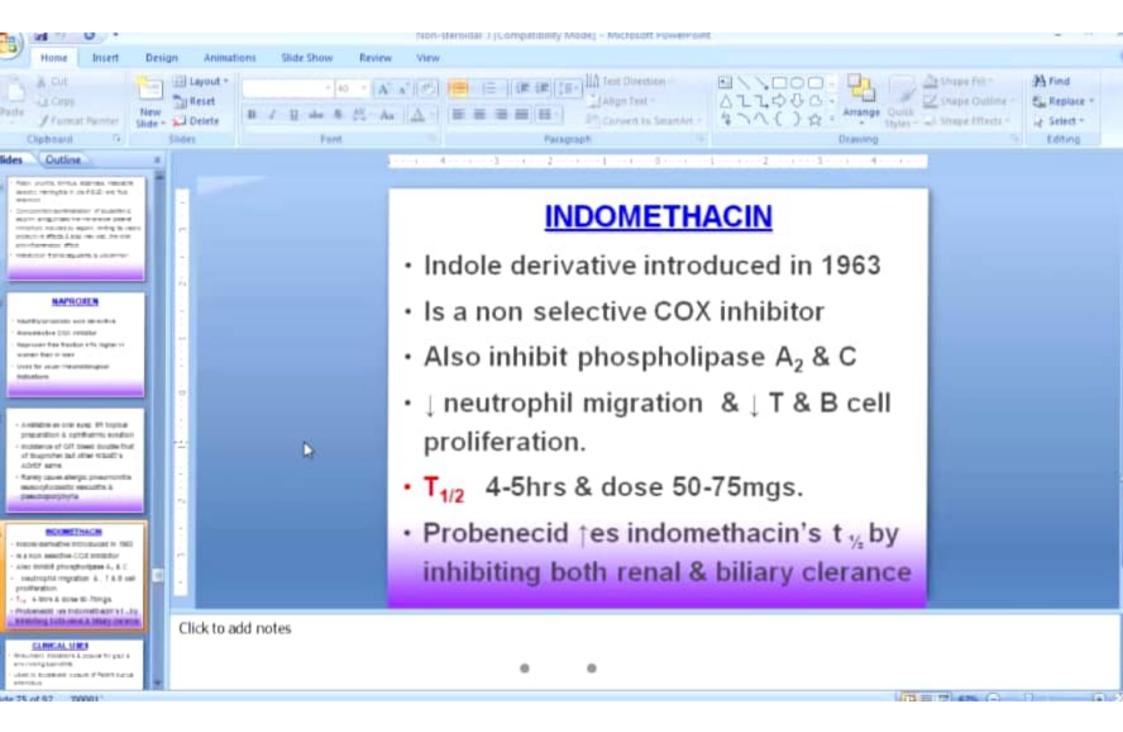


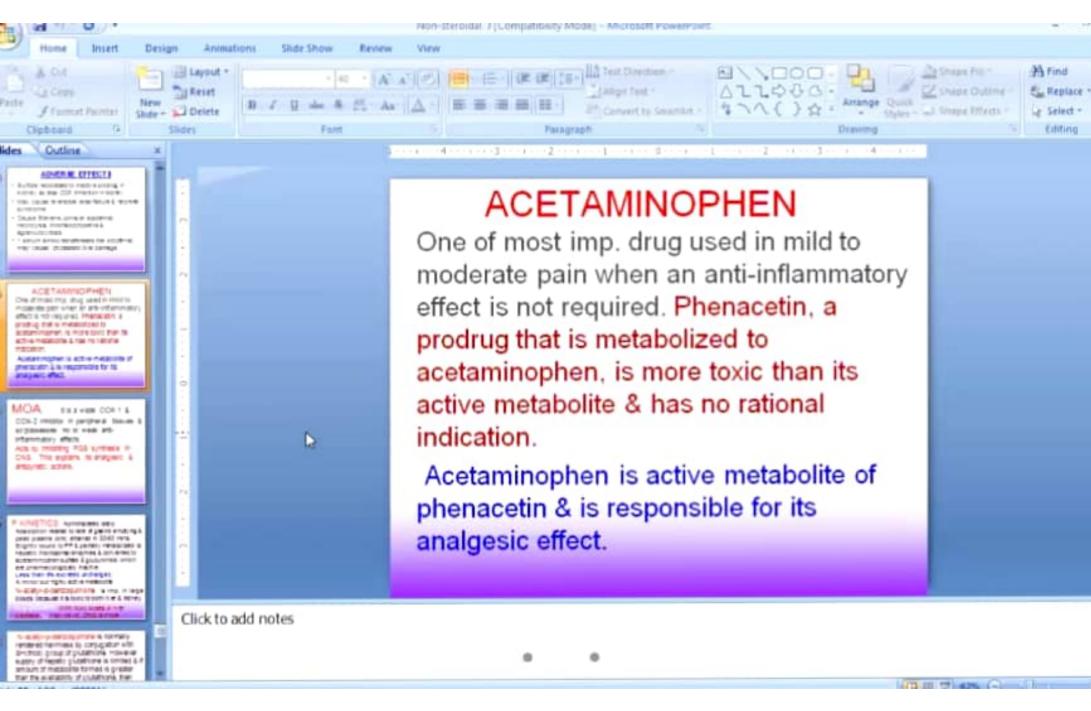


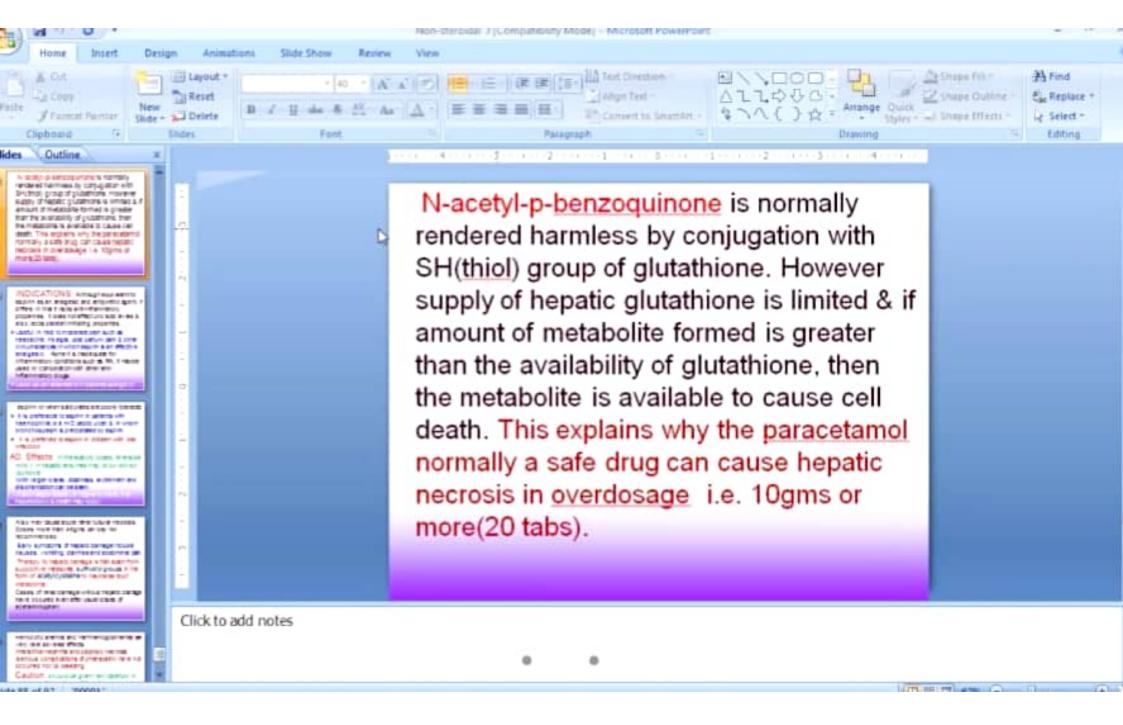


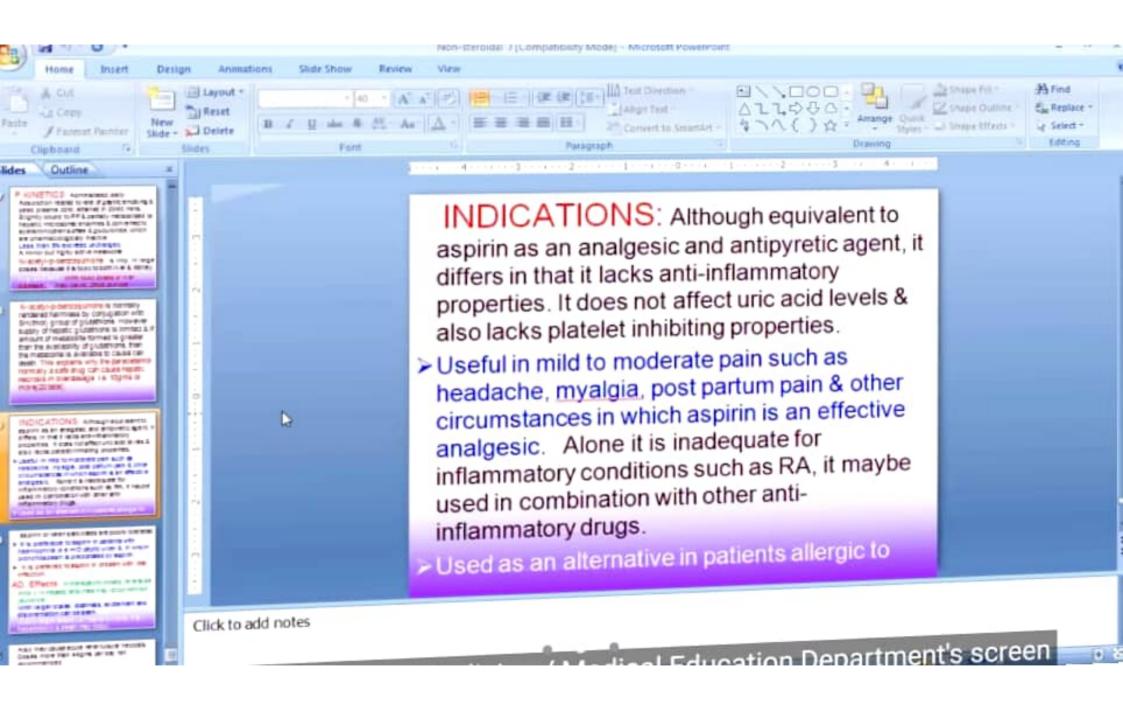
10.000 1000

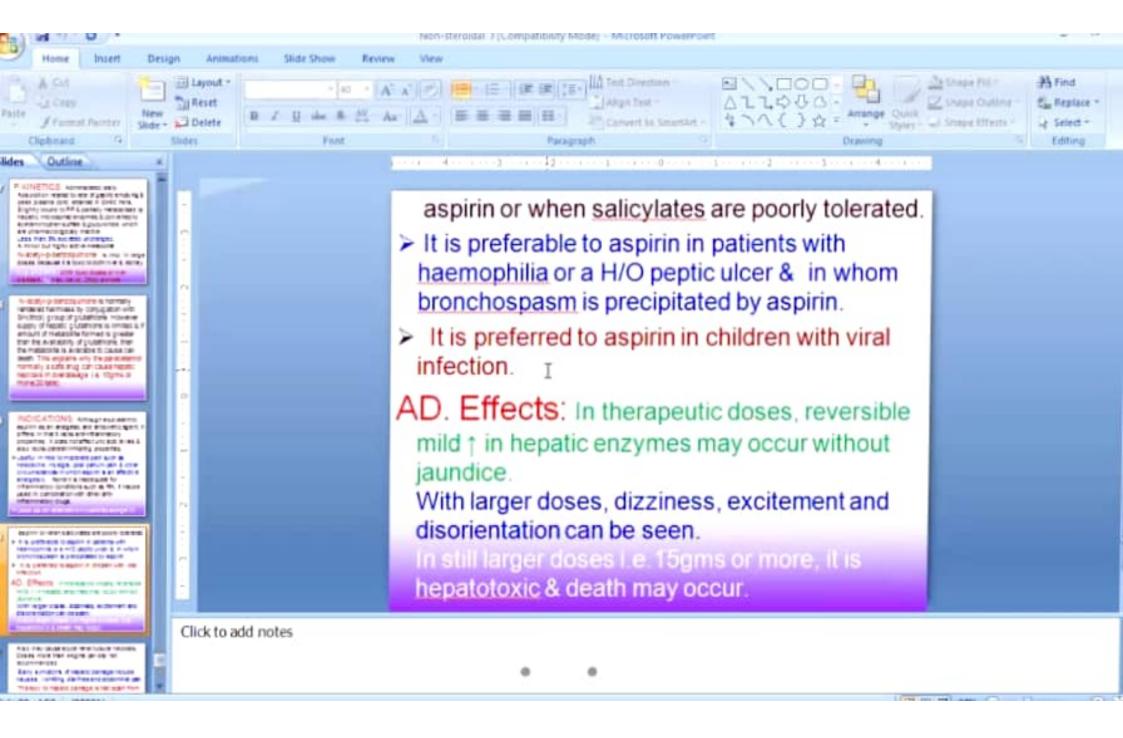
















0

Also may cause acute renal tubular necrosis. Doses more than 4-6gms per day not recommended.

Early symptoms of hepatic damage include nausea, vomiting, diarrhea and abdominal pain.

Therapy to hepatic damage is that apart from supportive measures, sulfhydryl groups in the form of acetylcysteine to neutralise toxic metabolite.

Cases of renal damage without hepatic damage have <u>occured</u> even after usual doses of acetaminophen.

.

