

Antibiotics resistance: Do we have a role?

Learning objective:

- 1/ To list the resistance mechanisms and reasons for this condition***
- 2/ Evaluate the role of pharmacist in preventing antibiotics resistance in hospital***

Reasons for the spreading of antibiotics resistance in hospital

- *Introduction of resistant organism to a previously susceptible population*
- *Resistance by a susceptible strain*
- *Regulated resistance already present in the population*
- *Selection of a resistant sub population organisms*
- *Dessiminated of resistant organisms*

Risk factors for increasing antibiotics resistance in hospital

- *severity of illness*
- *severely immunocompromised patients*
- *Increased empiric polyabx therapy*
- *Increased use of abx for prophylaxis*
- *Increased introduction of resistance organisms from community*
- *New devices or procedures*
- *Ineffectives guidelines*

Proposal for decreasing antibiotics resistance in hospital

- *Restriction in abx agents/classes*
- *Optimal usage of abx*
- *Combination therapy*
- *Rotational/cyclic abx use*

Recommendations for preventing antimicrobial resistance

- *Stringent abx policies*
- *Protocol evaluation*
- *Research support from government and pharmaceutical industry*
- *Education*
- *Research for specific institutions*
- *Infectious disease pharmacist*

QUESTIONS FOR US TO PONDER.....

- *Do we really need “specialist pharmacist in infectious diseases” ?*
- *If so, when do we start?*
- *How do we start?*
- *What shall we do?*
- *Will others accept the concept of the “specialist” pharmacists?*

What role will an infectious disease pharmacist do?

- *Review medical records*
- *Institute pharmaceutical concept*
- *Building up good rapport with physicians/specialists/nurses/others*
- *Recommend changes in the therapy*
- *Prevention of adverse drug reactions and medications errors*
- *Streamlining multiple drug regimens*
- *Reduce costs*

Conclusion:

- *Applying pharmaceutical care concepts with appropriate guidelines for antimicrobial therapy will help to reduce and prevent resistance of antimicrobial in hospital*

Quote:

*“Advice is what we ask
for when we already
know the answer but
wish we didnt.....”*