

January 15th, 2017

Dear participants to the 2017 WHO-ESGAP course in Skopje, Macedonia:

“How to improve antibiotic use in my hospital: a practical introduction to antibiotic stewardship”

The course date is coming closer and we are looking forward to meeting all the participants in Skopje. In order for the course to be successful, we are asking for your cooperation and preparation, which -I am sure- you will gladly provide. Participants will be part of a group with representatives of their own hospital as much as possible, 6 groups in total. During the course there are several interactive sessions that will require your special attention.

1. Wednesday Jan 25th 13:45 – 15:30

Group work. Small group sessions: definition, quality and quantity, barriers (all faculty)

For this session we invite you to bring with you an existing problem regarding antibiotic use in your hospital. Please prepare a one-pager that you can present to the group. For example: *“In my hospital urologists do not treat complicated UTI’s according to the national/ local guidelines”* or *“In my hospital door-to-needle time in septic shock at the Emergency Department (ED) cannot be achieved within 1 hour after ED admission”*. Shortly describe the problem and why it is so important to you.

In this session you will rotate in three groups for three times 30 minutes to 1. learn to systematically define your goals 2. assess the quality of antibiotic use in your hospital (e.g. metrics, quality indicators, use of PPS, audit, etc) and 3. help you to understand barriers to optimal use of antibiotics. For the last group you will use a checklist to identify barriers of practice by synthesizing various frameworks and taxonomies of factors that hinder improvements in healthcare. You will be using the Flottorp framework to identify and prioritise all (relevant) domains of barriers that exist for your specific clinical problem.

Preferably you will work in small subgroups (2-3) from the same hospital dressing your specific problem. A list of all potential barriers will be created. This list will be of service in the group assignment on the next day. During the session faculty members will guide and be available for questions. The groups will rotate every 30 minutes approximately.

What do we need from you?

- *a one-pager or two powerpoint slides with your problem described*
- *study the literature on definitions and goals, evaluation of quality and quantity of antibiotic use attached*

2. Wednesday Jan 25th 16:30 – 17:00

Group sessions. The guidelines, creating the hospital team (all faculty members)

In this session you will discuss in 6 small groups (each guided by a faculty member) how -in your local hospital setting- you can create the base of an Antimicrobial Stewardship Program: a set of locally adapted guidelines and an Antibiotic Stewardship team. We invite you to prepare a one-pager or two powerpoint slides in which you describe the **current structure of Antimicrobial stewardship in your hospital**: do you have local guidelines, do you have a stewardship team? who is part of the team? is the team financially supported? is knowledge available on local resistance patterns, is information available on quantity of use (DDD's) of rescue antibiotics?

What do we need from you?

- *a one-pager or two powerpoint slides in which you describe the structure of Antimicrobial Stewardship in your hospital*
- *study the presentation on creating Antibiotic stewardship teams that is attached (courtesy of Sara Cosgrove, ESGAP course 2015)*

3. Thursday Jan 26th 10:00 – 11:00 and 11.30-12.00

Group sessions. Designing interventions including educational activities (all faculty members)

In the first 60 minutes you will work with your group to draw up a structured intervention plan, using the barriers and facilitators that were collected in the first interactive Wednesday session as a starting point. You first develop ideas around what kind of intervention would fit which kind of barriers / facilitators. Then, all the different interventions are integrated into one structured plan with a clear time frame. Between 11.30- 12.00 you will think about how you will measure the impact of the interventions that you propose and discuss PDSA (Plan Do Study Act) cycles.

What do we need from you?

- *study the literature on effective interventions including educational interventions (attached)*

4. Thursday Jan 26th 14:00 – 15:00

Discussion in three small groups (TK, GB, LP)

For these 60 minutes the group will be divided in 3 groups. TK, GB and LP will each guide you through their subjects of specific interest in the field of Antibiotic Stewardship. They will share their experience with modern diagnostic tools and the use of computers in antibiotic stewardship programs in their hospitals / care settings, each discussing a separate subject. The groups will exchange every 20 minutes

What do we need from you?

- *an active spirit!*

5. Thursday Jan 26th 15:00 – 16:30

Presentation of the projects (all faculty members)

In this session all small groups consisting of representatives of one hospital will present their 'projects' to the rest of the participants and faculty on a flipover. They will present their problem, show how they propose to evaluate the problem, set their goals, analyse barriers, prepare interventions based on barrier analysis and how they will build an plan a potentially succesfull strategy to implement the interventions. Finally they will show how they will (re)evaluate the succes of their interventions. Each presentation will approximately last 10 minutes.

What do we need from you?

- *leadership!*

6. Thursday Jan 26th 16:30 – 17:30

My next steps: how I plan to improve antibiotic use in my hospital...

In this final session we will evaluate the course and give the participants a “ take home message”. The results of the online survey that has been collected prior to the course is discussed in approximately 30 minutes. In the remaining half hour we will have a panel discussion where all faculty members share their experience on ‘how they designed and organized a stewardship course in their own hospital’. Goal is to give you inspiration to take all you have learnt back to your hospital and start your own local stewardship course (teach the teacher)

What do we need from you?

- *your idea's!*

Attachments

Guidelines

IDSA guidelines Antibiotic Stewardship (2016)

German-Austrian Antibiotic Stewardship Guidelines (2016)

Stewardship team

Cosgrove_ASP presentation (2014)

Objectives, Measures and Barriers

Review Objectives in Antibiotic Stewardship 2016

Quality Measures to evaluate Impact of Antibiotic Stewardship in Hospitals 2015

Antibiotic Stewardship process or outcome 2015

Cosgrove Measuring appropriate antibiotic use 2016

Flottorp Barriers checklist 2013

Flottorp definitions questions examples barriers checklist

Educational Interventions

Education of Prescribers in Antimicrobial Stewardship Practice 2013