

3D golden Arabic calligraphy of the Basmala (Bismillah) on a blue background. The text is rendered in a highly stylized, three-dimensional font with a metallic gold finish and a slight shadow effect, giving it a sense of depth and volume. The characters are arranged in a traditional right-to-left flow, with the 'B' (Bismillah) on the left and the 'L' (Lillah) on the right. The background is a solid, deep blue color.

Surveillance Updates

Prepared by

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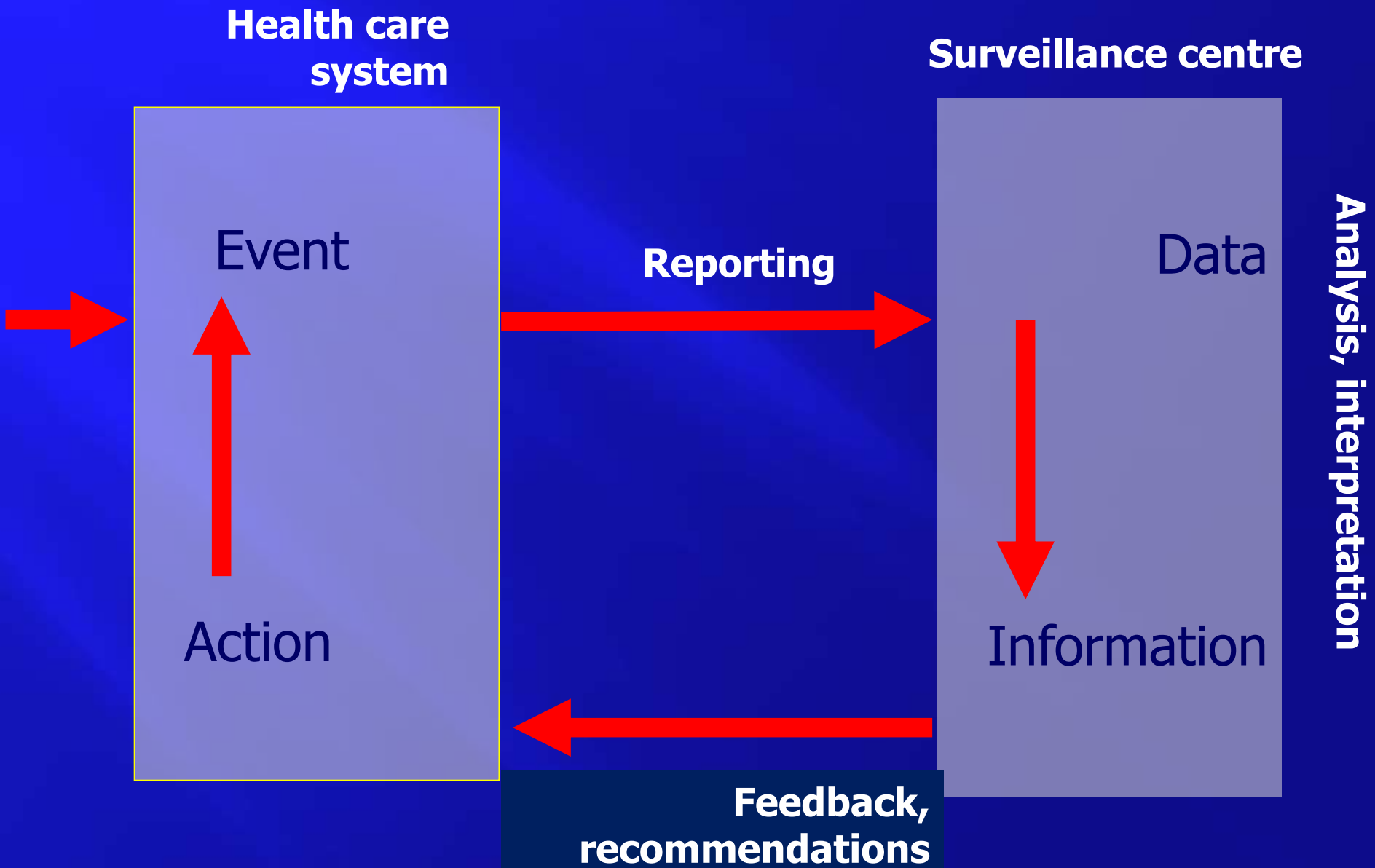
Surveillance

-The surveillance is the cornerstone of the infection control practice . -
Ongoing, systematic collection, analysis, interpretation, and dissemination of data regarding a health event.

Objective of Surveillance

- 1- Surveillance is the basis of all effective infection control activities
- 2- Indicator of quality and safety of care
- 3- Establish endemic baseline infection rates
- 4- Comparing rates over time
- 5- Identify outbreaks
- 6- Develop targeted intervention activities
- 7- Evaluate control measures
- 8- Assist in reducing the risk of nosocomial infections

The surveillance loop



Surveillance at the health care facilities

5 major areas of interest included in HAI surveillance

- 1- Urinary tract infection (UTI)
- 2- Bloodstream infection (BSI)
- 3- Lower respiratory tract infection (RTI)
- 4- Surgical site infection (SSI)
- 5- Antimicrobial resistance (AMR)

Surveillance of HAIs and AMR in ICUs

Surveillance of HAIs was limited due to several challenges:

- Complicated case definitions
- Selection of appropriate surveillance method
- Limited laboratory capacity
- Political reasons
- Limited IPC expertise

Manual surveillance (Passive Surveillance)

Data Collection

Surveillance of infections requires each patient to be assessed, often repeatedly, by trained staff.

Surveillance is often done routinely by **analyzing laboratory reports, assigned forms** and by **ward visits**.



جامعة عين شمس
Ain Shams University
Specialized Hospital

INFECTION UNIT

رقم المستشفى []
الاسم [] ذكر [] انثى []
تاريخ الميلاد [] / [] / []
تاريخ الكشف / الدخول [] / [] / []
عيادة قسم: [] الطبيب: []

تبلغ عن حالة تلوث

- التشخيص: _____

- هل ظهرت امراض التلوث عند دخول المريض نعم لا

- متى ظهرت الاعراض؟ / /

- نوع التلوث: _____

- بعد العملية:

- مجرى البول:

- الجهاز التنفسي:

- الدورة الدموية:

- امراض اخرى:

- رقم الحجرة: _____

- العملية السابقة: _____

- الاسباب السابقة: _____

- التخضير قبل العملية: نعم لا

- مضاد حيوى قبل العملية: _____

- العمليات التى اجريت (1) _____

(2) _____

(3) _____

(4) _____

تاريخ _____

تاريخ _____

تاريخ _____

تاريخ _____

- اسم الجراح: ا. د. / _____

- اسم مساعد الجراح: _____

- رقم حجرة العمليات: _____

- زمن العملية: _____

- الممرضة المعقمة: _____

- الممرضة المتاولة: _____

- هل تم اخذ عينة للتحليل البكتريولوجى؟ نعم لا

نوع العينة	التاريخ	النتيجة
(1)		
(2)		
(3)		
(4)		

- العلاج (1) _____ (2) _____

(3) _____

- تاريخ الخروج: [] / [] / []

- الحالة عند الخروج: _____

اسم المبلغ: _____ توقيع: _____

Data Collection (cont.)

Laboratory reports:

- This involves analysis of lab reports of culture and sensitivity daily. In this way outbreaks and cross infections can be identified.
- Laboratory reports are not always indicative of true infection. Negative reports (or no report) do not always mean infection is absent.



Microbiology Result

Main Lab Code : 53 MICROBIOLOGY
Sub Lab Code : m1 Microbiology I
Patient No : 100283992 نجاء علي ابراهيم
Patient Type : داخلي Birth Date : 02-01-1955 Sex : Female
Request No : 684088 Req. Date : 06-10-2005 Time : 04:34:37 Repeated No
Department Code A081 اعصاب باطنة
Rule Description اولي Entry User: HEMAT

Tests: 53 1 2 CONVENTIONAL C & S of PUS

Aerobic Culture: Staph aureus

Highly Sensitive To Antibiotic(s) :

Amox./Clavulanat (Augmentin)
Oxacillin
Cefuroxime (Zinnat , Zinacef)
Imipenam (Tienam)
Ofloxacin (Tarivid,Kiroll)
levofloxacin (Tavanic)
Maxipime

Resistant To Antibiotic(s) :

Erythromycine (Erythrin)

Aerobic Culture: Klebsiella

Highly Sensitive To Antibiotic(s) :

Amikacin (Amikin)
Maxipime
Meropenem

Resistant To Antibiotic(s) :

Aztreonam
Tazocin

REPORT

Direct smear:

** Gram's stain : Few pus cells , G-ve bacilli

** Culture : Mixed growth of Klebsiella & Staph coagulase (+ve)

Completed by: Lab. Staff

Supervised By: University Staff

Data Collection (Cont.)

Daily ward visits: Infection control nurse collect notification forms and visits infected patients, gathers necessary information and examine all records of all clinical infection. looking for

- **The presence of devices** or procedures known to be a risk factor for infection (urinary and intravascular catheters, mechanical ventilation, surgical procedures)
- Record of fever or other clinical signs consistent with infection
- Antimicrobial therapy
- Laboratory tests
- Medical and nursing chart review.

Data Collection (cont.)

- These methods are useful for identifying infections requiring action by the ICT
- So, active surveillance (case finding by the Infection Control Nurse [ICN]) increased detection from approximately 25% of defined infections to more than 85%

Surveillance System Description

Notification Form

Laboratory Report



Data Collection



Data Analysis



Confirm HAIs

Reporting HAIs

electronic surveillance
PDA (Personal Digital
Assistant)

Methods and Approach

Type of surveillance:

- Active patient- and laboratory-based prospective surveillance
- The four big types of HAIs in intensive care units (BSI, UTI, SSI and Pneumonia)

Type of surveillance

Active surveillance:

We actively search for infections, find, diagnose and document

Prospective:

Surveillance target Infections (Pneumonia, UTIs, SSI, BSI primary and secondary)

Standardized:

All hospitals will follow the same rules, definitions and surveillance methods according to international guidelines

Case Definitions Used

Standardized CDC NHSN case definitions

Based on three components:

- Clinical signs/symptoms
- Microbiology investigations
- Radiological investigations

The study tools used in this program will be:

Rounds and Case report Log Books

Each ICU have one Rounds log book and one Case Report log book.

PDA (Personal Digital Assistant)

One PDA can used to for more than one ICU.

The Screening Log Book

This contain the following data for all ICU patients:

- Full Patient Name (first, middle, last names)

- Hospital admission number

- ICU admission date

- Patient entry code

- The screening data of each patients should be recorded in the Surveillance Rounds logbook 3 times per week until their discharge from the ICU(whether HAIs is suspected or not)

Date and type of suspected HAI should be documented in the Rounds logbook

PATIENT IDENTIFICATION						SURVEILLANCE OFFICER ROUNDS							
ENTRY NO.	PATIENT FULL NAME	HOSPITAL NO.	Patient Had Surgery <input type="radio"/> YES <input type="radio"/> NO Name of Surgery	Clinical Diagnosis	ICU ADMIT DATE	DATE: ___ / ___		DATE: ___ / ___		DATE: ___ / ___		DATE: ___ / ___	
						PATIENT SCREENED <input type="radio"/> Yes <input type="radio"/> No SO Initial: □ □	SUSPECT INFECTION <input type="radio"/> Yes <input type="radio"/> No Type	PATIENT SCREENED <input type="radio"/> Yes <input type="radio"/> No SO Initial: □ □	SUSPECT INFECTION <input type="radio"/> Yes <input type="radio"/> No Type	PATIENT SCREENED <input type="radio"/> Yes <input type="radio"/> No SO Initial: □ □	SUSPECT INFECTION <input type="radio"/> Yes <input type="radio"/> No Type	PATIENT SCREENED <input type="radio"/> Yes <input type="radio"/> No SO Initial: □ □	SUSPECT INFECTION <input type="radio"/> Yes <input type="radio"/> No Type
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SURVEILLANCE OFFICER ROUNDS												DATE PATIENT LEFT ICU	Patient Outcome	
DATE: __ / __ / __	DATE: __ / __ / __	DATE: __ / __ / __	DATE: __ / __ / __	DATE: __ / __ / __	DATE: __ / __ / __	DATE: __ / __ / __	DATE: __ / __ / __	DATE: __ / __ / __	DATE: __ / __ / __	DATE: __ / __ / __	DATE: __ / __ / __			
PATIENT SCREENED	SUSPECT INFECTION	PATIENT SCREENED	SUSPECT INFECTION	PATIENT SCREENED	SUSPECT INFECTION	PATIENT SCREENED	SUSPECT INFECTION	PATIENT SCREENED	SUSPECT INFECTION	PATIENT SCREENED	SUSPECT INFECTION	PATIENT SCREENED	SUSPECT INFECTION	
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The Case Report Log Book

This contain the following data for any patient with a suspect HAI:

- Same patient entry code as in the screening log book
- Type of suspected infection
 - Full patient Name (first, middle, last names)
- Date and type of any laboratory and radiological investigations requested for the patient must be recorded in the case report logbook

The Case Report log book

- Date of starting PDA and date of completion of each section.
- Name and Isolate label number for each organism isolated.
- The type of HAI given by the PDA of the suspected case

ENTRY NO. (from ROUNDS Logbook)	LOCATION OF SUSPECTED INFECTION	PATIENT FULL NAME	HOSP. NO.	CULTURE RESULTS					
				TYPE OF CULTURE	DATE COLLECTED	RESULT ENTERED IN PDA	OGANISM NAME	ISOLATE LABEL NO.	ISOLATE LABEL NO. WRITTEN IN LAB LOG- BOOK
	<input type="radio"/> BSI <input type="radio"/> PNEU <input type="radio"/> UTI <input type="radio"/> SSI			1		<input type="radio"/> Yes	1. 2. 3.	1. _____ 2. _____ 3. _____	1. Yes <input type="radio"/> 2. Yes <input type="radio"/> 3. Yes <input type="radio"/>
				2		<input type="radio"/> Yes	1. 2. 3.	1. _____ 2. _____ 3. _____	1. Yes <input type="radio"/> 2. Yes <input type="radio"/> 3. Yes <input type="radio"/>
				3		<input type="radio"/> Yes	1. 2. 3.	1. _____ 2. _____ 3. _____	1. Yes <input type="radio"/> 2. Yes <input type="radio"/> 3. Yes <input type="radio"/>
				4		<input type="radio"/> Yes	1. 2. 3.	1. _____ 2. _____ 3. _____	1. Yes <input type="radio"/> 2. Yes <input type="radio"/> 3. Yes <input type="radio"/>
				5		<input type="radio"/> Yes	1. 2. 3.	1. _____ 2. _____ 3. _____	1. Yes <input type="radio"/> 2. Yes <input type="radio"/> 3. Yes <input type="radio"/>
	<input type="radio"/> BSI <input type="radio"/> PNEU <input type="radio"/> UTI <input type="radio"/> SSI			1		<input type="radio"/> Yes	1. 2. 3.	1. _____ 2. _____ 3. _____	1. Yes <input type="radio"/> 2. Yes <input type="radio"/> 3. Yes <input type="radio"/>
				2		<input type="radio"/> Yes	1. 2. 3.	1. _____ 2. _____ 3. _____	1. Yes <input type="radio"/> 2. Yes <input type="radio"/> 3. Yes <input type="radio"/>
				3		<input type="radio"/> Yes	1. 2. 3.	1. _____ 2. _____ 3. _____	1. Yes <input type="radio"/> 2. Yes <input type="radio"/> 3. Yes <input type="radio"/>
				4		<input type="radio"/> Yes	1. 2. 3.	1. _____ 2. _____ 3. _____	1. Yes <input type="radio"/> 2. Yes <input type="radio"/> 3. Yes <input type="radio"/>
				5		<input type="radio"/> Yes	1. 2. 3.	1. _____ 2. _____ 3. _____	1. Yes <input type="radio"/> 2. Yes <input type="radio"/> 3. Yes <input type="radio"/>

PDA

- Is used only for suspected cases
- A new entry is made for each suspected episode of infection
- Any type of infection is entered in the PDA whether the infection is CAI, HAI from another hospital or suspected HAI in your hospital



Turn On Power

1

Remove the stylus



2



Choose "QM English" from the START menu.

3

Log in with your ID.

4



Select your hospital.

5

Choose "Add" or "Modify".

6



PDA design

The PDA is divided into 2 main sections

Suspected HAI Case Report

This is section enable us to confirm that suspected cases of infection are meeting CDC case definitions for health care associated infection

Culture Results

This section enable us to know types of organisms causing different types of HAIs and their resistant and sensitivity for various antibiotic

Questionnaires

**ICU Suspected HAI
Case Report
Culture Results**

Modify

Create



Suspected HAI

Suspected HAI

This section is divided into 5 sections

- Demographic Details
- Admission Details
- Clinical Findings
- Investigation Results
- HAI Infection Type
- Outcome

Sections

Demographic Details**Modify****Admission Details****Create****Clinical Findings****Create****Investigation Results****Create****HAI Infection Type****Create****Outcome****Create**

System Description

- 1- Surveillance coordinators attend ICU round.
- 2- Review clinical Lab, Radiology results.
- 3- Suspect HAI.
- 4- Request more investigations.
- 5- Lab & x-rays results.
- 6- Enter in PDA.
- 7- PDA confirm HAIs.

Surveillance System Description

Surveillance officers
attend ICU rounds

Review Clinical, Lab,
Radiology results

Suspect HAI?

YES

Enter in PDA

PDA confirms one of 4
HAIs coded

Request more
investigations

Lab & x-rays
results



Denominator data
collected manually:

- Pt days
- Device days

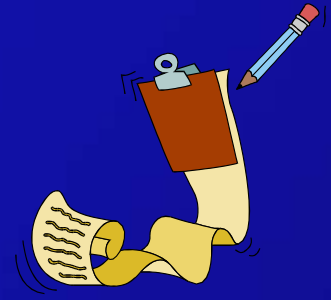
Remember.....

Surveillance is not a policeman work....

A good surveillance system dose not guarantee you will make the right decisions, but it reduces the chances of making the wrong ones.”

Thank You





*THANKS FOR YOUR
KIND ATTENTION
AND LISTENING*

Any question?

