

עמותת האחיות למניעת זיהומים

ניקוי חיטוי ועיקור נושאים מרכזיים במניעת זיהומים

ביוני, 11-12 2007

Infection Control, past and present, and today in Israel.



❖ Florence Nightingale was born in 1820 in Florence, Italy.

❖ She broke with the traditions of the time, refusing to marry, and choosing to devote herself to nursing.

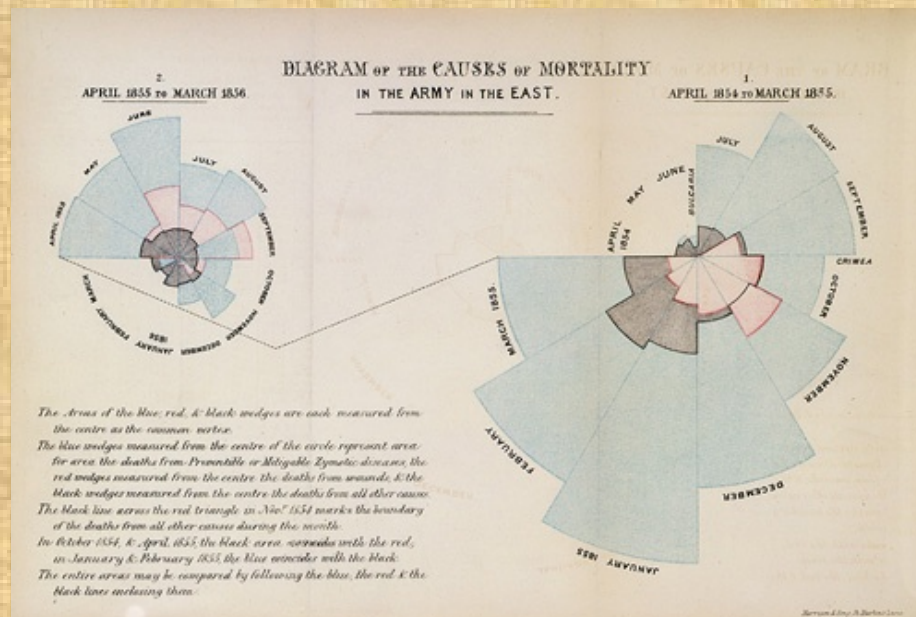
❖ She studied nursing in Kaiserswerth, Germany, with the Roman Catholic deaconesses.



- ❖ In 1854 Florence volunteered to serve in the Crimean War, taking with her 38 nurses.
- ❖ She arrived in Scutari to find a state of official indifference, neglected hygiene, mass infections, no equipment to process food for the patients, defective sewers, lack of ventilation...
- ❖ War wounds accounted for only one death in six.



- ❖ Florence had a special interest in statistics, which she learned from her father, a pioneer in the field of epidemiology.
- ❖ She made extensive use of statistical analysis and visual presentation of information to serve her purposes.



- ❖ Florence Nightingale, called by the soldiers the “Lady of the Lamp”, died in 1910 and is remembered as the founder of our profession.



And since 1910?

The Golden Age of antibiotics

Thanks to PENICILLIN
...He Will Come Home!



Karin Lee Ovadia, 11.6.2007



And since 1910?

- ❖ 1910 – “cubicle” system and barrier nursing in USA.
- ❖ 1970 – CDC “Isolation Techniques for use in Hospitals” – 7 isolation categories, with different precautions recommended within each category, depending on the disease.
- ❖ 1975 – revised edition.

And since 1910?

- ❖ 1983 – CDC Guideline for Isolation Precautions in Hospitals – 7 categories of precautions + disease-specific precautions.
- ❖ 1985 – Initial fear of patient-to-HCW transmission - Universal Precautions.
- ❖ 1987 – Body Substance Isolation (BSI)

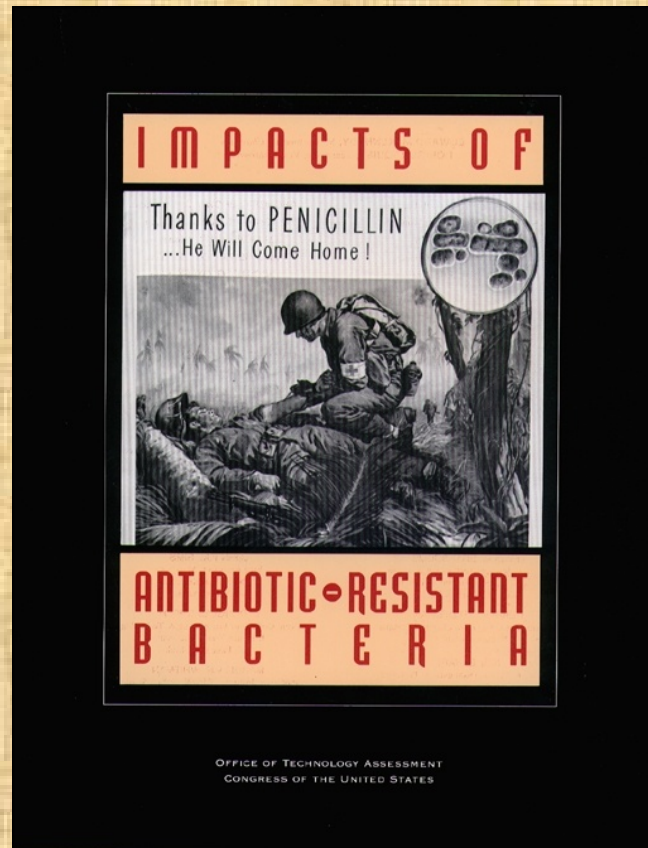
And since 1910?

1996 HICPAC:

- I Standard Precautions
- II Transmission-Based Precautions.

And since 1910?

The emergence of resistant bacteria



And since 1910?

Resistance to antibiotics by 2000

“Resistance has emerged for all known antibiotics in use. For most antibiotics, and classes of antibiotics, antibiotic resistant genes have also entered the bacterial population in the domains where antibiotics are used (for example in hospitals, farms and aqua-culture ponds.)”

‘The Use of Antibiotics in Food Producing Animals: Antibiotic-resistant Bacteria in Animals and Humans’

Joint Expert Technical Advisory Committee on Antibiotic Resistance (JETACAR) Canberra. October 1999

And since 1910?

May 2003 – SHEA - Guideline for
Preventing Nosocomial Transmission of
Multidrug Resistant Strains of
Staphylococcus aureus and *Enterococcus*.
MRSA and VRE

And since 1910?



MRSA
ESBL
VRE
CRE

28.01.05,
07:05



"דיווח: חיידק קטלני תקף ב"תל השומר"

החיידק שגרם בימים האחרונים לאשפוזם של כמה ילדים ולמותו של התינוק עומר זוהר לא לבד: ב"ידיעות אחרונות" פורסם כי בפגייה של בית החולים שיבא, היתה לפני שנה וחצי התפרצות של חיידק אלים אחר. שני פגים מתו. במאמר המתאר את ההתפרצות נאמר שהחיידק שוכן בבית החולים דרך קבע; מומחה למחלות זיהומיות: "לצערנו, החיידק שבו מדובר הוא תושב קבע בכל בתי החולים בישראל, אנחנו מנהלים נגדו מלחמת חורמה"

פורסם: 16.03.05, 07:33 ynet

14



חיידק התפרץ ב"איכילוב"; 20 חולים הושמו בבידוד

שבעה חולים נדבקו במהלך אשפוזם בחיידק וי.א.ר.אי העמיד בפני אנטיביוטיקה. אתמול בבוקר נפטר אחד החולים, אולם בבית החולים טוענים: מותו לא קשור לחיידק

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Karin Lee Ovadia, 11.6.2007

And today?

HICPAC

Management of Multidrug-Resistant Organisms in Healthcare Settings, 2006

Include MRSA, VRE, and other MDROs.

And today?

HICPAC

Management of Multidrug-Resistant Organisms in Healthcare Settings, 2006

- **Administrative support**
- **Education**
- **Judicious use of antimicrobial agents**
- **MDRO surveillance**
- **Infection control precautions**

And in Israel today?

- ❖ Pressure on hospitals to reduce costs – administrations looking more at “the bottom line” and signs of business success than medical needs.
- ❖ Cleaning of hospitals hired out to secondary contractors to save on expenses.

And today??

- ❖ Patients sleeping in hallways of wards.
- ❖ Patient-nurse ratios dictated by out-of-date national standards.
- ❖ A growing shortage of nurses.

And today??

- ❖ Medico-legal environment encouraging the practice of defensive medicine.
- ❖ No central body responsible for MDRO surveillance and no financing for such a body.

But...

- ❖ The subject of infection control is receiving more attention from the nursing community – conferences and research on the subject are on the rise.
- ❖ Due to the appearance of CRE in Israel, a task force has been created by the MOH to address the issue.

But...

- ❖ Doctors have begun to specialize in the field of infection control.
- ❖ The Association of Nurses for Infection Control in Israel is in the process of writing a position paper on MDROs.

And so, though almost 200 years have passed since Florence Nightingale established the profession of nursing, we still cope with:

- ❖ Overcrowding
- ❖ Dirt
- ❖ Understaffing
- ❖ Lack of administrative support

Nurses must strive to be at the forefront of the battle against disease.

In the tradition of Florence Nightingale, we cannot be content to accept the current situation. It is our duty to be heard and to be involved in infection control.

This conference is part of our attempt to return the subject of infection control to it's proper place in the agenda of the medical and nursing community.
Thank you for your support.