



# **STERILIZATION OF MEDICAL SUPPLIES AS A HEALTH RIGHT IN TURKIYE**

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**Assoc. Prof. Duygu ESEL, MD**

**Department of Microbiology and Clinical Microbiology**

**Erciyes University Faculty of Medicine**

**Kayseri, TURKIYE**

**[eseld@erciyes.edu.tr](mailto:eseld@erciyes.edu.tr)**



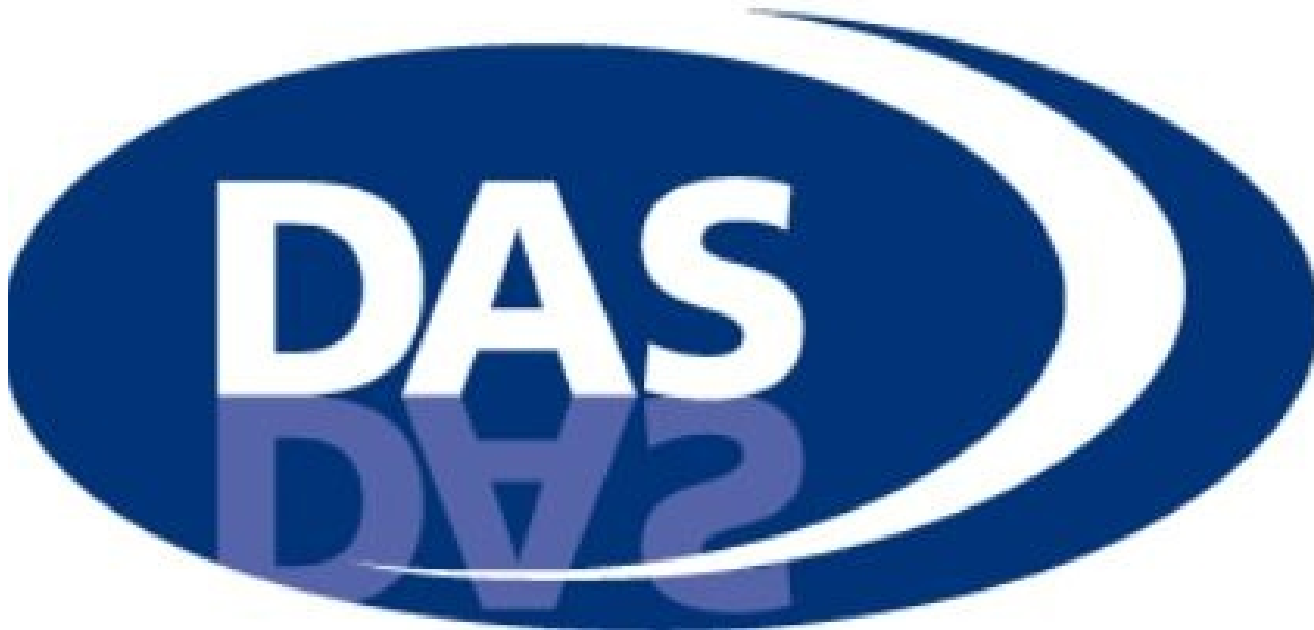


# Erciyes University Hospital



# Turkish Society for Disinfection Antisepsis and Sterilization

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# Constitution of Türkiye

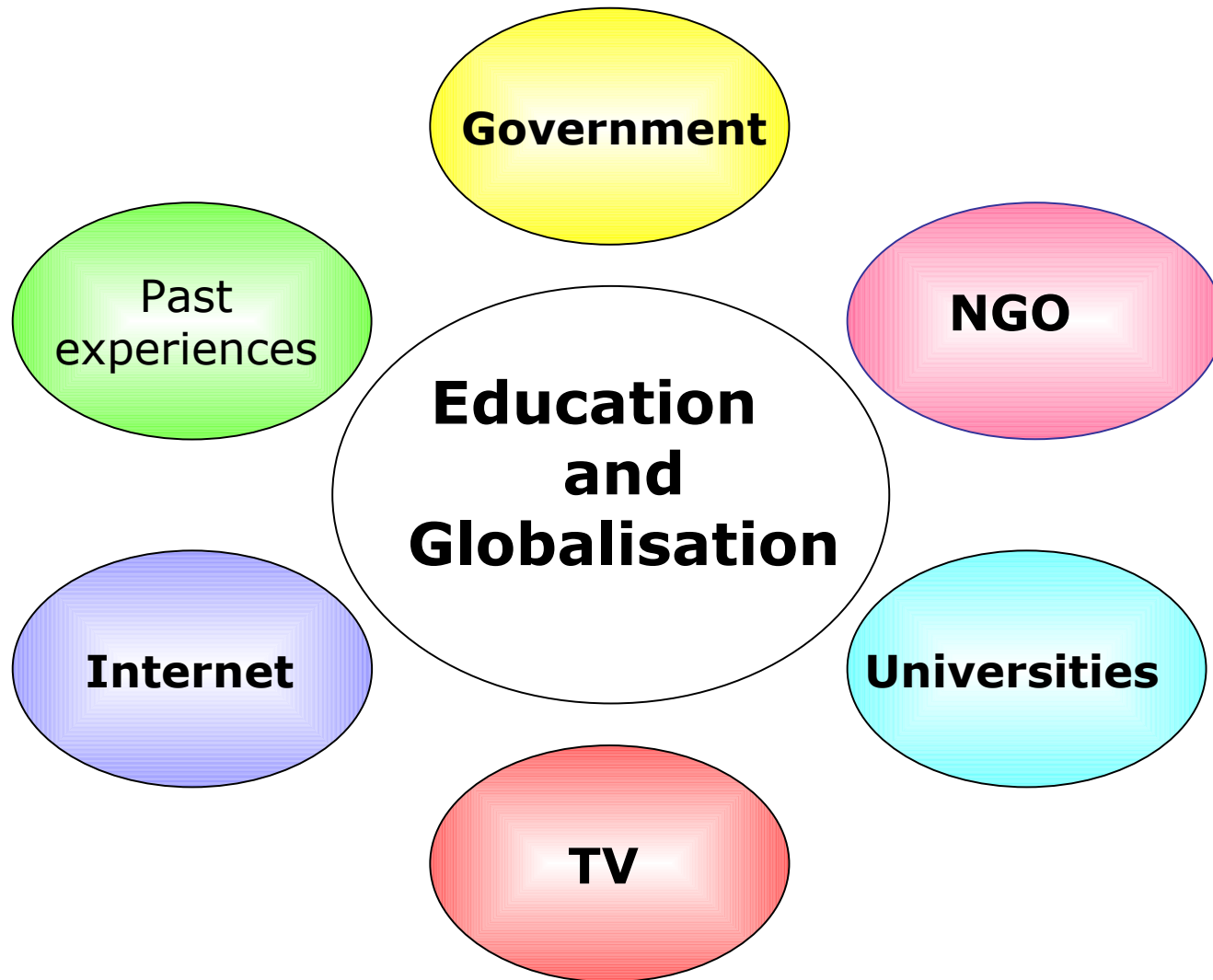
## 17th statute

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- Every citizen has the right
  - to live
  - to benefit from medical services equally
- None of the medical or experimental therapies can be done on any citizen
  - without informed consent
  - except medical necessities written in laws

# Knowledge and applicability of patients rights has been improving by



**Increasing number of invasive procedures**

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graph TD; A[Increasing number of invasive procedures] --> B[Application of new techniques and instruments]; B --> C[Prolonged length of hospitalization]; C --> D[Increasing number of HCA infections]; D --> E[Increasing number of lawsuits concerning HCAI];
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**Application of new techniques and instruments**

**Prolonged length of hospitalization**

**Increasing number of HCA infections**

**Increasing number of lawsuits concerning HCAI**

# Regulations

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- Administrative regulations on patient rights
- ISO 13485
- Accreditation criteria of JCAHO
- Administrative regulations of Ministry of health for Infection Control Committees

# Patients rights that can be related to sterile supply

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- ❑ Appropriate diagnosis, medical care, and therapy
- ❑ Knowledge about medical interventions, complications, alternative therapies
- ❑ Evaluation of all medical records
- ❑ Informed consent
- ❑ Litigation



# Appropriate diagnosis, medical care, and therapy

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- Have you ever seen any surgeon or physician answering this question of the patient?



**Are these  
instruments  
sterile to  
perform this  
medical  
intervention?**

# Documentation of sterilization procedures and tracing

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- ❑ These instruments will be used in an implant surgery
- ❑ HCAI related implants may occur in 10 years after the operation
- ❑ Can you reach all the records of decontamination procedures concerning these instrument 5 years later?



# JCAHO

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- ❑ Sterile processing is an integral part of the care process
- ❑ It is important to assess that
  - Equipment is being properly maintained
  - Chemicals are being used properly
  - Infection control and safety measures are being applied appropriately
- ❑ Documentation is a must!

# Documentation and tracing (2)

The image shows two pages of a sterilization control form from Erciyes University. The form is titled "ERCİYES ÜNİVERSİTESİ MERKEZİ STERİLİZASYON ENTEZİ BİRİMİ STERİLİZATÖR KONTROL FORMU". It contains fields for "STERİLİZATÖR YENİLEME" (Sterilization Renewal) and "STERİLİZATÖR NO" (Sterilization Number). The form is filled out with handwritten information, including "SAAT" (Time) 09.16, "CYCLE NO" 01, and "STERİLİZATÖR NO" 1. The "PROGRAM" section has checkboxes for "Enstrüman 125°C 30 dak.", "Tutucu 125°C 30 dak.", "Kuvvet 125°C 30 dak.", and "Kuvvet 125°C 30 dak.". The "KONTROL" section has checkboxes for "İNTEGRATÖR", "GRAFİK KONTROL", and "NEM KONTROL". The "Steril Değer Görevlisi" (Steril Value Officer) is signed "N. Yılmaz". The "Steril Değer Görevlisi" (Steril Value Officer) is signed "N. Yılmaz". The "Steril Değer Görevlisi" (Steril Value Officer) is signed "N. Yılmaz".

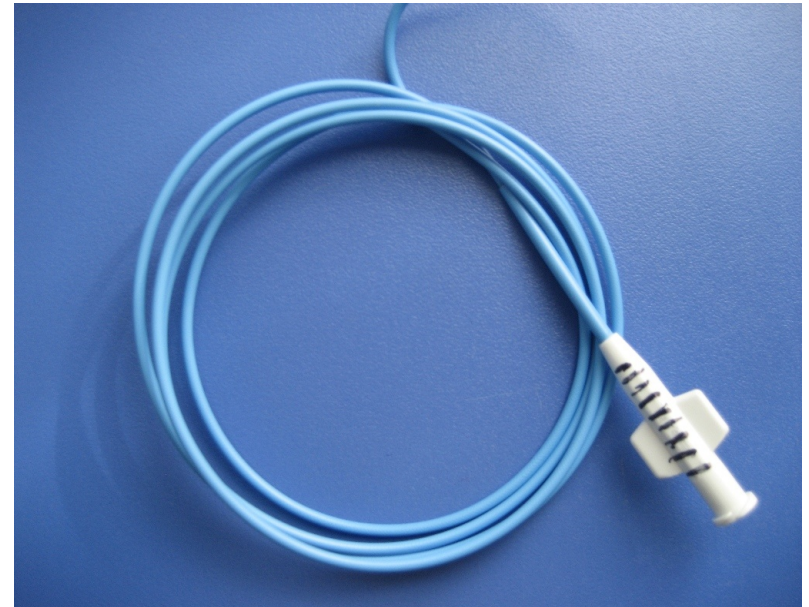




# Informed consent vs resterilization of SUD

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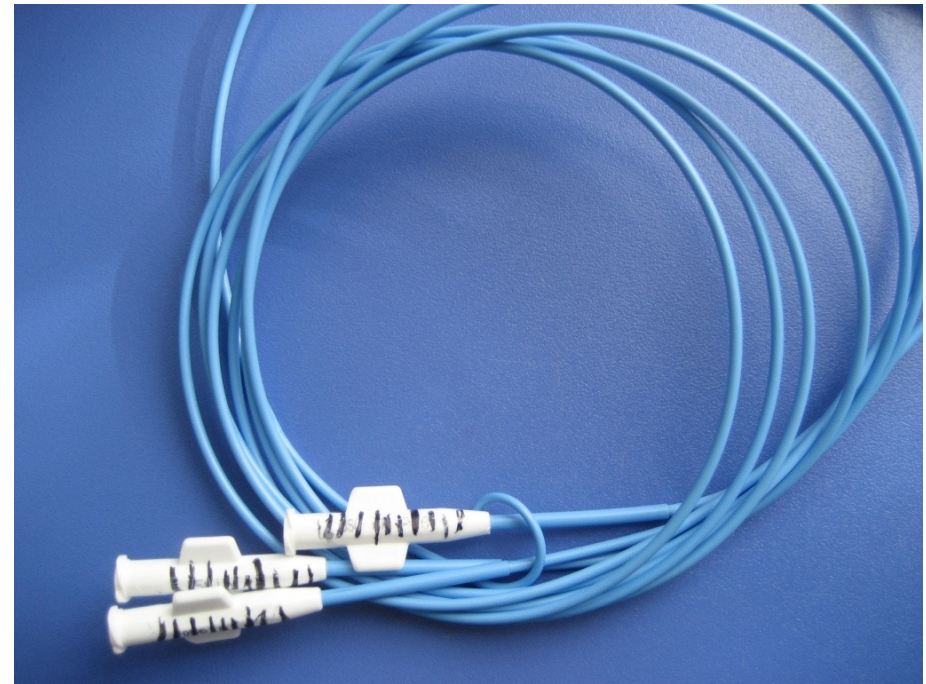
- ❑ Is using this SUD-catheter for 10th time not a malpractice?
- ❑ Who is responsible for the complications on the patient?
  - ❑ Physician?
  - ❑ Hospital managers?
  - ❑ CSSD?



# Informed consent vs resterilization of SUD <sup>(2)</sup>

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- ❑ What would be the answer if you ask informed consent from the patient for this catheter?
- ❑ Even if the answer is “yes”, would it be valid in front of laws?



# Resterilization of SUD

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- Informed consent of patient means “nothing”
- During resterilization of SUD
  - Regulations
  - National and international guidelines
  - Instructions of manufacturer of SUD should be followed

# Malpractice lawsuits related insufficient sterilization of supplies

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- ❑ No lawsuit up to now!
- ❑ Does it mean “sterilization of supplies quite alright in Turkiye” ?



J Hosp Infect 2002, 50 (3): 170-4

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Polymicrobial ventriculitis and  
evaluation of an outbreak in a surgical  
intensive care unit due to inadequate  
sterilization

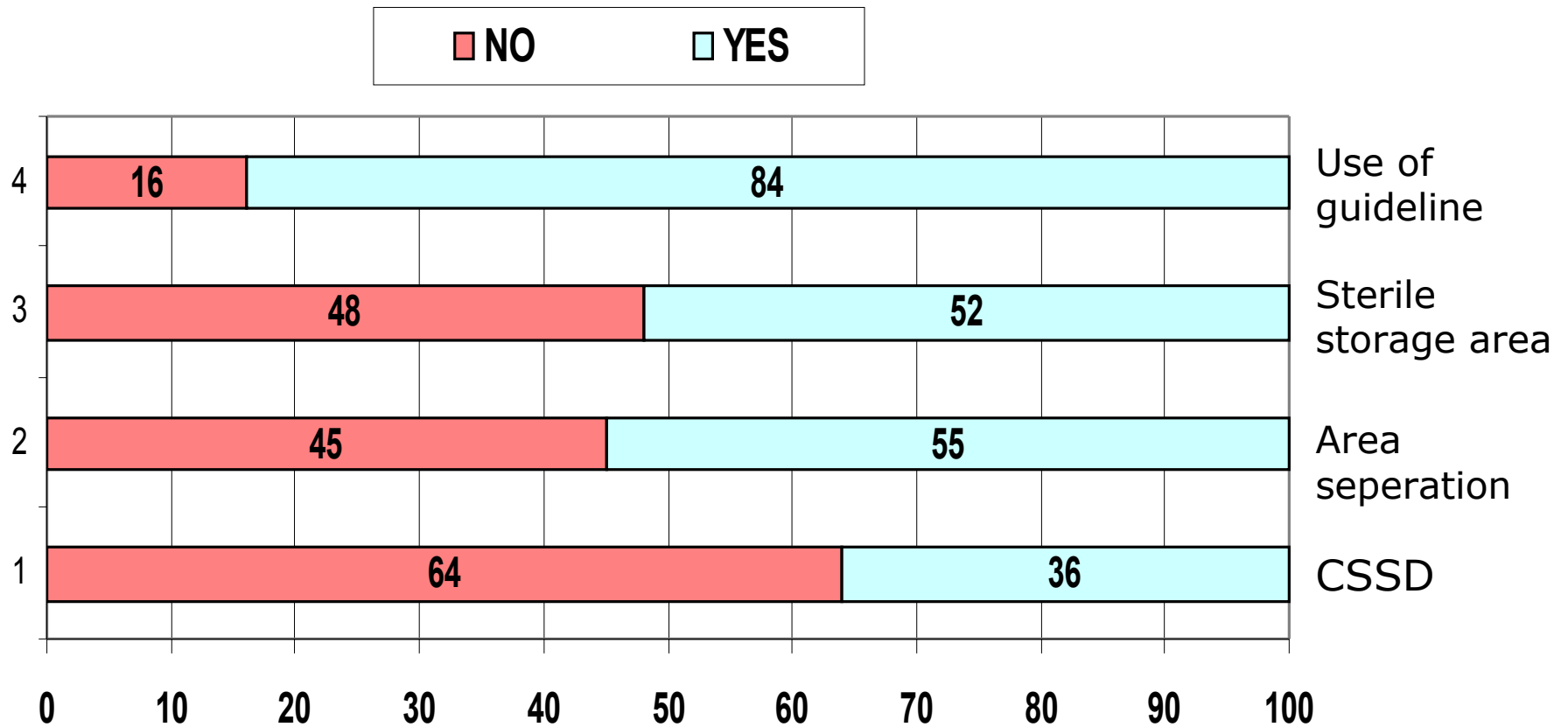
Duygu Esel, Mehmet Doganay, et al.

# Evaluation of outbreak

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- ❑ A case of polymicrobial ventriculitis
- ❑ An outbreak of *Serratia marcescens* mediastinitis in the intensive care unit of cardiovascular surgery
- ❑ 5 of 17 patients were died
- ❑ Microbiological studies were performed on instruments and linens exposed to sterilization process
- ❑ The cause of the outbreak was the use of inadequately decontaminated theatre linen

# CSSDs in Turkiye



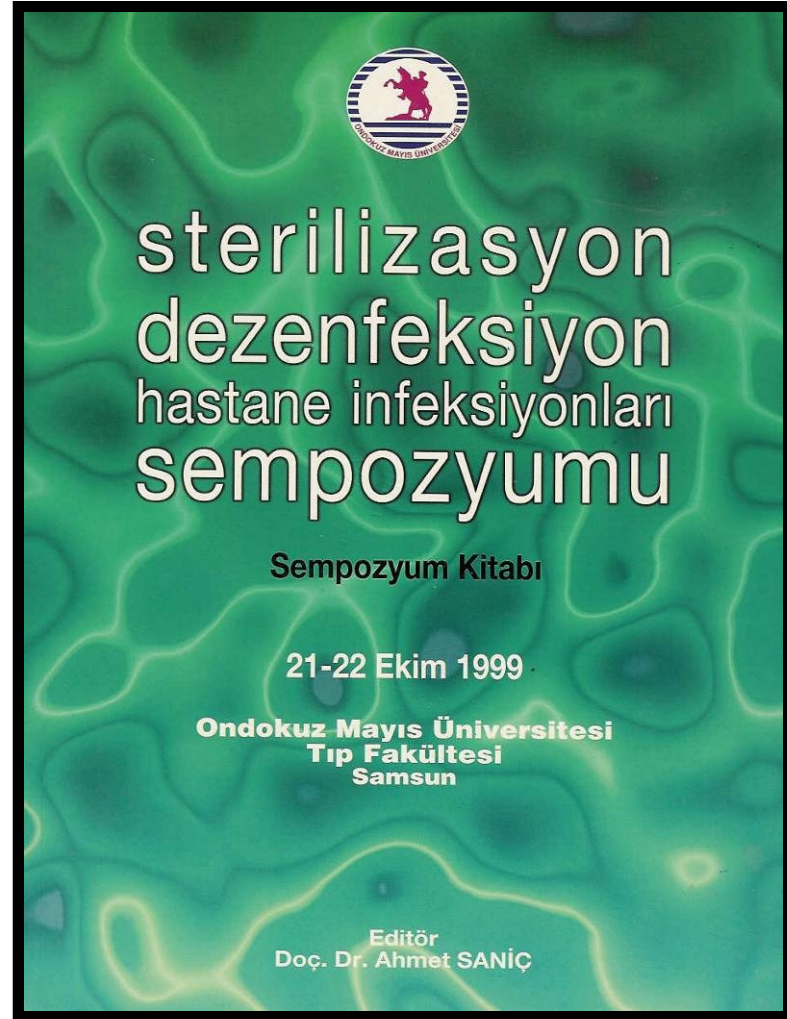
Esel D, et al.

5th National DAS Congress, Antalya, 2007

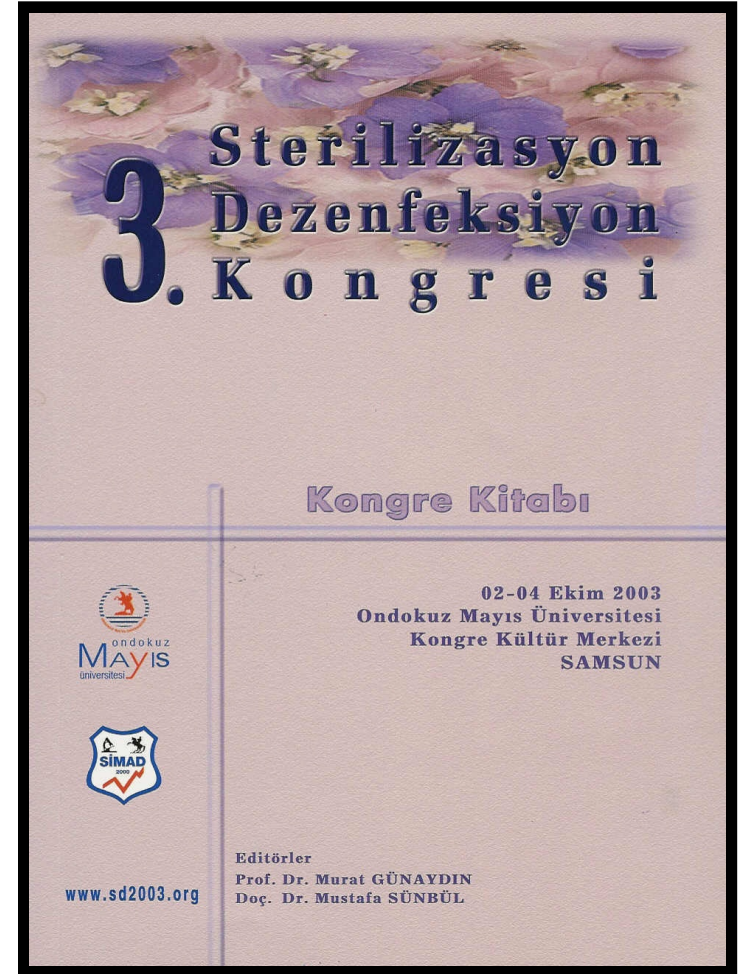
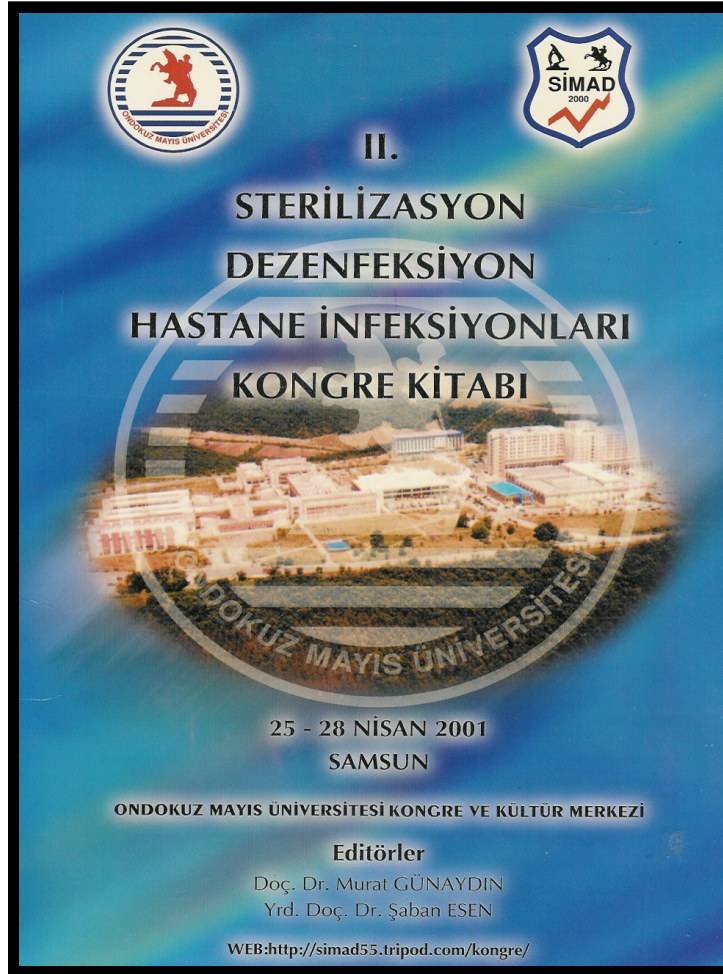
# Milestones in sterilization in Türkiye (1)

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First National  
Congress on  
sterilization and  
disinfection in  
Samsun, 1999



# 2nd and 3rd National Sterilization Congresses (2001-2003)





# Milestones in sterilization in Türkiye (2)

## 15 - 18 MAY 2003

### D.E.Ü. HOSPİTAL LECTURE ROOM

#### SCIENTIFIC COMMITTEE

##### Honorary President

Professor Emin ALICI

##### Members

Professor Şebnem ÖZKAN

Professor Adil ESEN

Professor Hakan ABACIOĞLU

Professor Sülen SARIOĞLU

Associate Professor Arzu SAYINER

Assistant Professor Alp ERGÖR

Assistant Professor Güven ERBİL

Assistant Professor Ömer AKÇALI

Assistant Professor Can KOŞAY

Assistant Professor Yücel DEMİRAL

CSSD Manager HÜLYA ERBİL

Chief Nurse Nergiz BENGÜ

##### Organizing Committee

Professor Şebnem ÖZKAN

Professor Adil ESEN

Professor Hakan ABACIOĞLU

Professor Sülen SARIOĞLU

CSSD Manager HÜLYA ERBİL

Chief Nurse Bedriye TURHAN

Specialist Nurse Ayşegül ÖZER

##### CENTRAL STERILIZATION UNIT

E-mail: sterilizasyon@deu.edu.tr

#### Day 1. May 15.2003

##### Opening Ceremony

##### Lecture,

(ARZU SAYINER Association Professor)

"Sterilization Techniques with Low Temperature"

##### Lecture,

(HÜLYA ERBİL CSSD Manager)

"Sterilization Process and Control"

##### Lecture,

(TONI ZANETTE Tuebingen University CSSD Manager)

"Training and Continuing Education as a Factor for Quality Assurance in CSSD"

Lunch Break

##### Lecture,

(NERGİZ BENGÜ Quality Management Nurse)

"Quality Management System and Documentation"

##### Lecture,

(CORNELIA HUGO Tuebingen University Quality Manager)

"Quality - System"

##### Lecture,

(ALP ERGÖR Assistant Professor)

"Personal Health in Sterilization Units"

Cocktail.

#### Day 2. May 16.2003

##### Lecture,

(ADRIE BRUJIN The NETHERLANDS)

"The Control of the Cleaning of Instruments."

##### Lecture,

(WIM RENDERS Europe EFHS and BELGIUM, Flanders)

"The Evolution Theory Applied on the Reuse of Single Use Medical Devices"

##### Lecture,

(TONI ZANETTE Tuebingen University)

"German guidelines of the Robert Koch Institute About the Reprocessing of Medical Devices"

##### Panel about Reuse

Lunch Break

Workshop in CSSD (The participants will divide in groups and procedures will be introduced)

##### Panel about Reuse

Lunch Break

Workshop in CSSD (The participants will divide in groups and procedures will be introduced)

##### Panel about Reuse

Lunch Break

Workshop in CSSD (The participants will divide in groups and procedures will be introduced)

##### Panel about Reuse

Lunch Break

Workshop in CSSD (The participants will divide in groups and procedures will be introduced)

##### Panel about Reuse

Lunch Break

Gala Dinner.

#### Day 4. May 18.2003

(Assistant Professor GÜVEN ERBİL,

Assistant Professor ÖMER AKÇALI,

Assistant Professor CAN KOŞAY,

Assistant Professor ALP ERGÖR,

Assistant Professor YÜCEL DEMİRAL)

" Problem based training"

Course feedback.

Certification and Closing Ceremony.

Lunch.

#### Course Date: 15 - 18 May 2003

Last Registration Date: 30 April 2003

Application: Imbat Advertising Agency

\* To register please apply by fax (+90232 464 52 42 ) together with bank remittance receipt.

\* For guest staying at hotels, bank remittance receipt should also be faxed to (+90232 464 52 42)

Registration will not be effected if taxes are not properly transmitted.

Course Fees:

For: Doctors, Specialists, Lectures

- TL 125.000.000 until 18/04/2003

- TL 150.000.000 after 18/04/2003

For: Nurses, Health Officials and others

- TL 75.000.000 until 18/04/2003

- TL 100.000.000 after 18/04/2003

Course fees to be paid into:

T.C. Ziraat Bankası Brunch code: 1506

Account No: 60903

The above course fees will be fully deposited into the DEÜ Hospital Research and development Grant.

Poster: Max. 1500 words

Address: Imbat Advertising Agency

Last Sending Date: 30 April 2003

## REGISTRATION AND RESERVATIONS

### IMBAT ADVERTISING AGENCY

Kültür Mah. 1377 Sk. No:8

Kut Apt. D:3 Alsancak / İZMİR

Tel & FAX : (+90232) 464 52 42 (pbx)

e-mail imbatltd@ttnet.net.tr

# Milestones in sterilization in Türkiye

## (3)

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Establishment of DAS (Turkish Society for Disinfection Antisepsis and Sterilization) in 2004



DEZENFEKSİYON ANTİSEPSİ  
STERİLİZASYON DERNEĞİ  
SOCIETY OF DISINFECTION  
ANTISEPSIS STERILIZATION

**800**  
**participants**

**1400**  
**participants**



# Milestones in sterilization in Türkiye

## (4)

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- Regional educational seminars organized by DAS since 2005
  - 4 in a year, each seminar in a different region
  - At least 200 participants in each seminar
  - Basic topics on sterilization and disinfection
    - Ideal CSSD, sterilization methods, monitorization, disinfectants, choosing disinfectants and supplies used in CSSD, infection prevention .....

# Milestones in sterilization in Turkiye

## (5)

**DAS - Microsoft Internet Explorer**

Dosya Düzen Görünüm Sık Kullanılanlar Araçlar Yardım

Adres <http://das.org.tr/tr/forum/default.asp>

**DAS** Yönetici Bölümü Etkin Konular Kullanıcı Listesi Arama Yardım Özel Mesaj Ayarlar Çıkış [murat]

Su Anki Zaman 25/Nisan/2007 Saat 11:30.  
Sizin Son Gelisiniz 25/Nisan/2007 Saat 02:50.

Forum	Konular	Gönderilenler	Son Gönderilenler
<b>Forum-1: Sterilizasyon</b>			
<a href="#">Sterilizasyon uygulamaları ! (Üyeler yazar ve okur)</a> Sterilizasyon uygulamaları, öneriler, sorular ve yanıtları bu bölümde yazabilirsiniz	35	181	22/Nisan/2007 Saat 01:57 Yazan: <a href="#">berqisi</a>
<b>Forum-2: Dezenfeksiyon</b>			
<a href="#">Dezenfektan kullanımı ! (Üyeler yazar ve okur)</a> Dezenfektan çeşitleri, kullanımı, etki ve yan etkileri konusunda sorabilir, cevap ve öneri yazabilirsiniz..	27	103	11/Nisan/2007 Saat 16:56 Yazan: <a href="#">fikriyeeskin</a>
<b>Forum-3: Sosyal Konular</b>			
<a href="#">Sosyal Konular ! (Üyeler yazar ve Tüm ziyaretçiler okur)</a> Sosyal içerikli konuları yazabilirsiniz	14	54	24/Nisan/2007 Saat 00:16 Yazan: <a href="#">ayyü</a>
<a href="#">Diğer Medikal Konular! (Üyeler yazar, tüm ziyaretçiler okur)</a> Çeşitli Duyurular, grupla paylaşmak istediğiniz diğer konular için kullanabilirsiniz	21	81	25/Nisan/2007 Saat 02:54 Yazan: <a href="#">murat</a>
<b>REHBER</b>			
<a href="#">Sterilizasyon rehber hazırık</a> aktif	14	51	08/Şubat/2006 Saat 21:25 Yazan: <a href="#">Dilek</a>

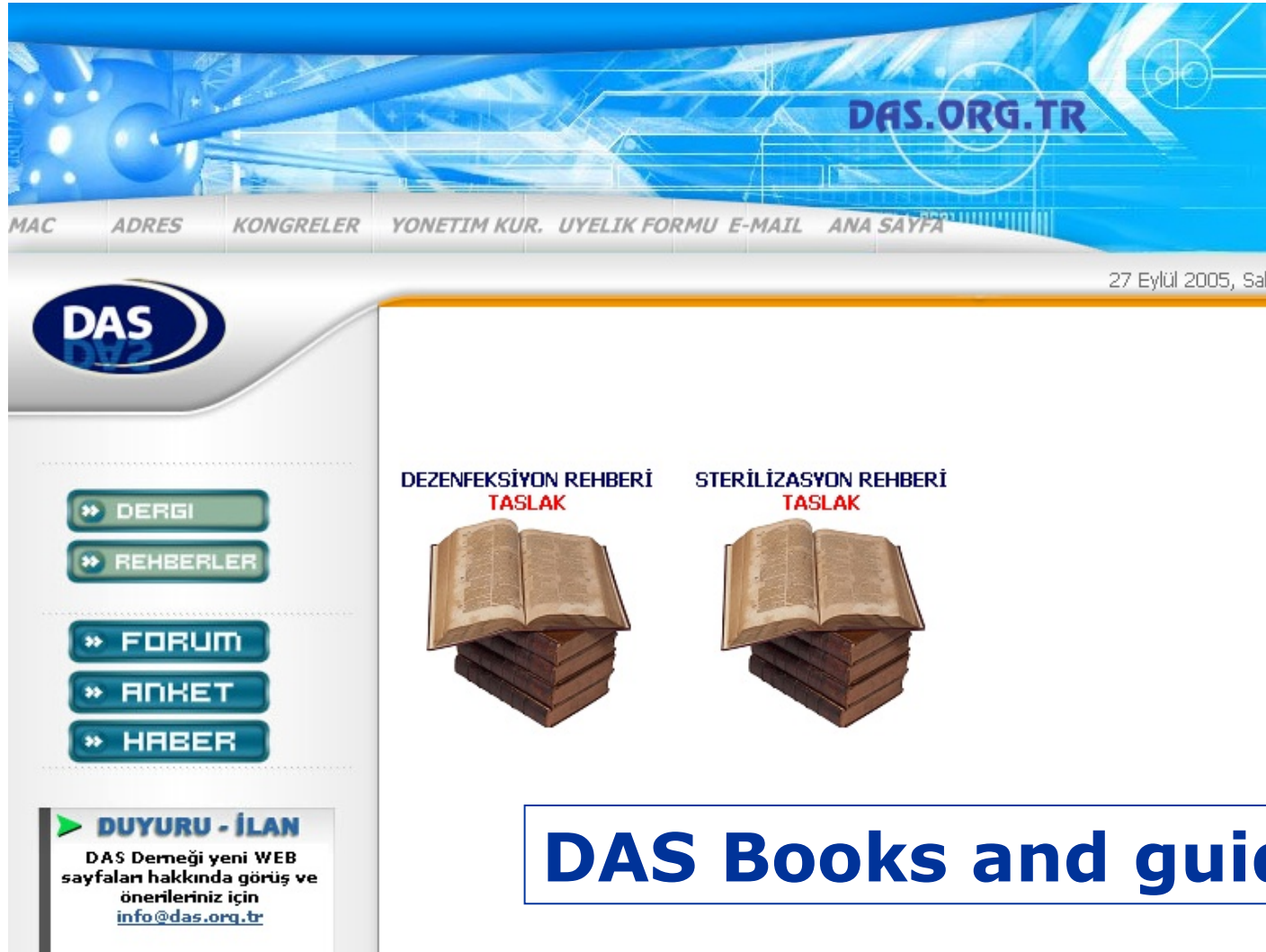
**Forum İstatikleri**

Toplam 470 Mesaj, 111 Konu ve 5 Forum  
Son Mesaj Tarihi: 25/Nisan/2007 Saat 02:54 Yazan: [murat](#)  
Toplam 330 Forum Üyesi  
En Yeni Üyemiz [arbor](#)  
Toplam 2 [Etkin Kullanıcı](#) Etkin, 0 Ziyaretçi(ler) ve 2 Kullanıcı(lar)  
Kullanıcı(lar) Etkin: [murat](#)

Internet

DAS Forum with 800 active participants

# Milestones in sterilization in Turkiye (6)



The screenshot displays the DAS.ORG.TR website. The header features a blue banner with the text "DAS.ORG.TR" and a navigation bar with links: MAC, ADRES, KONGRELER, YONETIM KUR., UYELIK FORMU, E-MAIL, and ANA SAYFA. The date "27 Eylül 2005, Salı" is shown on the right. The sidebar on the left contains a "DAS" logo and a menu with buttons for "DERGI", "REHBERLER", "FORUM", "ANKET", and "HABER". The main content area highlights two books: "DEZENFEKSİYON REHBERİ TASLAK" and "STERİLİZASYON REHBERİ TASLAK", each accompanied by an image of an open book. A "DUYURU - İLAN" section at the bottom left mentions a new website and provides the email "info@das.org.tr". A large blue box at the bottom right contains the text "DAS Books and guidelines".

**DAS.ORG.TR**

MAC ADRES KONGRELER YONETIM KUR. UYELIK FORMU E-MAIL ANA SAYFA

27 Eylül 2005, Salı

**DAS**

» Dergi  
» Rehberler  
» Forum  
» Anket  
» Haber

**DEZENFEKSİYON REHBERİ  
TASLAK**

**STERİLİZASYON REHBERİ  
TASLAK**

**DUYURU - İLAN**  
DAS Demeği yeni WEB sayfaları hakkında görüş ve önerileriniz için [info@das.org.tr](mailto:info@das.org.tr)

**DAS Books and guidelines**

# Milestones in sterilization in Türkiye

## (7)

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- ❑ Last and current regulation of MOH of Türkiye for hospital settings
- ❑ August 11th, 2005 – No: 25903
- ❑ Regulation for infection control committees in hospital settings
- ❑ Every hospital must have an infection control committee
- ❑ ICC has to audit procedures in CSSD to provide patient reached proper sterile supplies

# Milestones in sterilization in Türkiye

## (8)

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- First DAS School for training CSSD supervisors in 2008



MOH gave a certificate to the participants at the end of DAS School



# Milestones in sterilization in Türkiye

## (9)

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- ❑ Academic training of CSSD managers (clinical microbiologists)
- ❑ Academic training of CSSD personnel
- ❑ Erciyes University, Kayseri-Türkiye
- ❑ Two-year High School on Health Sciences after secondary school
- ❑ Lessons on sterilization and disinfection in a week in one semester
  - 2 hours theoretical
  - 2 hours practical lessons in CSSD of EUFM
- ❑ First students will be graduated in June 2008

# Future projects to improve sterilization in Türkiye

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- ❑ To increase the number of universities training CSSD managers and technicians
- ❑ DAS Academy to train and certificate CSSD managers – 2009
- ❑ Certification program for CSSD staff



# Continuous education of CSSD staff

