

Endometriosis in Hungary

Attila Bokor

Semmelweis University Faculty of Medicine
1st Department of Obstetrics and Gynaecology

ESHRE guidelines for the diagnosis and treatment of endometriosis
Presentation and interactive discussion
ESHRE Campus Hungary, 26 February 2010



Conflict of interest/potential bias

Lecturer at Semmelweis University Faculty of Medicine
1st Department of Obstetrics and Gynaecology

Doctoral Fellow at KULeuven, Experimental Gynaecologic Laboratory

No conflict of interest

Outline

Endometriosis Prevalence in Hungary

Hungarian Healthcare System – Role of the University
Hospitals

Semmelweis University Faculty of Medicine
1st Department of Obstetrics and Gynaecology

Patient Self-help Groups in Hungary

National Guidelines for Diagnosis and Therapy of
Endometriosis

Prevalence of Endometriosis

- 10% women of reproductive age
- 30% and 60% in women with infertility and pelvic pain respectively
- More than 70 million women worldwide
- Endometriosis EU 14 million women

Prevalence of Endometriosis in Hungary

Female: 5263687

POPULATION OF HUNGARY
30 January 2010

Women of reproductive age
35%

1842290

Total: 10015425

10%

~184223 with endo

Source: Hungarian Central Statistical Office

The Cost of Endometriosis

\$22 billion in 2002 in the USA

DRUGS	DIAGNOSTICS	SURGERY	HEALTH CARE	OTHER
NSAIDs	Ultrasound scan	Laparoscopy	GP	ART
Progestagens	Internal scan	Laparotomy	Gynaecologist	A&E visits
c-OCP	MRI	Hysteroscopy	Nurse	Hospitalisation
Danazol	Blood tests	Hysterectomy	Urologist	Alternatives
Gestrinone	Swabs	Endometrial ablation	Gastro-enterologist	Transportation
GnRH-a	Barium enema	Theatre costs	Anaesthetist	Child care
Add-back HRT	Sigmoidoscopy		Radiologist	Work absence
Mirena coil	Endoscopy		Theatre staff	↓ productivity
Antibiotics	Bone scans		Haematologist	↓ education
Anti-depressants	X-rays		Counsellor	↓ activities
			Physiotherapist	
			Psychiatrist	

Comparative Costs: Endo versus Other Chronic Diseases

Review of endo-related cost estimates in USA (Simoens et al, 2007)

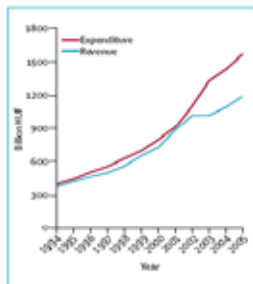
1. annual (2002) healthcare costs + costs of productivity loss:
= about \$ 4000 per patient per year
2. USA cost per year for endo (2002)
\$22 billion per year
(at 10% prevalence of endo among women of reproductive age)
3. **Endo cost considerably higher than cost related to Crohn's disease or to migraine in the USA for 2002**

Expenditure and Revenue of the Hungarian National Health Insurance Financing System (Million HUF)

Year	2007	2008	2009	2010
Total revenue	1 676 024,3	1 445 184,4	1 408 714,0	1 376 095,0
Total expenditure	1 648 616,7	1 445 111,0	1 417 566,1	1 445 503,3
Difference	27 407,6	73,4	-8 852,1	-69 408,3

Source :National Health Insurance Fund

Expenditure and Revenue of Hungarian National Health Insurance Financing System



Boncz et al Lancet, 2006

Figure: Expenditure and revenue of Hungarian OEP between 1994 and 2005

Hungarian Medical Universities

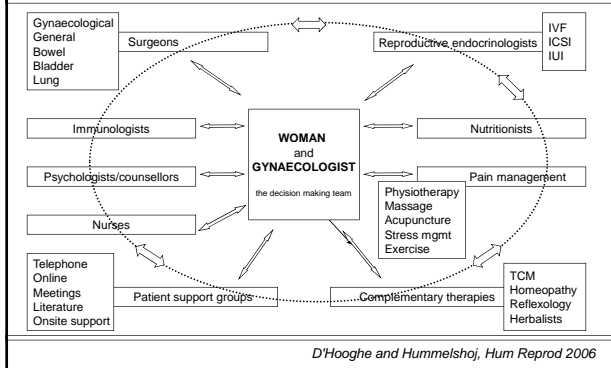


Four Medical Schools
Five Clinics

Semmelweis University
Faculty Of Medicine
Budapest(2)

University of Debrecen
University of Szeged
University of Pécs

The Centre/Network of Excellence in Endometriosis



Role of Centres of Excellence

Should improve cost-effectiveness of endo management by

- 1.a reduction in the time to diagnosis
- 2.a reduction in the time before individualised specialist care is invoked
- 3.a reduction in expensive fertility treatments, if the disease is under control before fertility is impaired

**1st Dept. OB/GYN Semmelweis University
Faculty of Medicine**

- Founded in 1812, first Hungarian Dept.of OB/GYN
- 158 beds
- ISO 2001/9001
- 10000 inpatients/year
- 100000 outpatients/year
- Courses in Hungarian, English, German

**Multidisciplinary Management of Endometriosis at
1st Dept. OB/GYN**

Division of Ultrasonography
(István Szabó MD, PhD)

**Endocrinology Outpatient
Clinic**
(György Szendei MD, PhD)

Minimally Invasive Surgery Unit
(Attila Bokor MD)

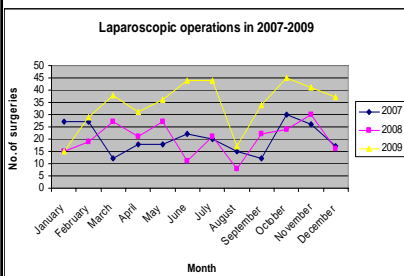
Fertility Centre
(Prof. János Urbancsek MD, PhD)

Psychotherapy
(Katalin Szakács MD)

Clinical Collaboration

- General surgeon
(Péter Lukovich MD
Semmelweis University
1 st Dept.of Surgery)
- Urologist
(Péter Nyirády MD, PhD
Semmelweis University
Dept.of Urology)

Laparoscopic Interventions at Our Department



35% for Endo

Year	No. of LSC
2007	244
2008	241
2009	411

International Collaboration

- KULeuven, Belgium (Thomas D'Hooghe)
 - LKH Villach, Austria (Jörg Keckstein)
 - University of Tübingen, Germany (Christoph Reising)
 - Università di Sacro Cuore, Italy (Carlo de Cicco)
 - Tel Hashomer Hospital, Israel (Ron Schonman)
 - University of Chicago, USA (Andras Ladanyi)
-
- EndoCost Study

EndoCost Consortium

Belgium	Thomas D'Hooghe Steven Simmoens	KULeuven
Denmark	Jens Jørgen Kjer Lianna Christensen	Glostrup Hospital
France	Michel Canis Laurent Gerbaud	Clermont-Ferrand
Germany	Gülden Halis Iris Brandes	KEZ, Berlin Medizinische Hochschule Hannover
Hungary	Attila Bokor Valentin Brodzsky	Semmelweis University Corvinus University
Italy	Paolo Vercellini Giorgio Colombo	University of Milano
Netherlands	Gerard Dunselman Carmen Dirksen	University of Maastricht
Switzerland	Michael Müller Marcel Wullschlegler	University of Bern
USA	Dan Lebovic/Tomasso Falcone/Eden Moran	Madison/Cleveland Clinics/Christus St. Francis
UK	Andrew Horn Barbara Graham	University of Edinburgh

Patient Self-help Groups in Hungary

"Patient self-help groups can provide invaluable counselling, support and advice."

Kennedy et al, Human Reprod 2005

- www.endometriozis.hu
- www.endostop.hu
- www.endometriozis.lap.hu
- www.femina.hu/baba/endometriosis

Endometriosis Treatment

"Treatment must be individualised, taking the clinical problem in its entirety into account, including the impact of the disease and the effect of its treatment on quality of life"

Kennedy et al, Human Reprod 2005

National Guidelines for Endometriosis

Issued by the Ministry of Health 9 April 2006

Under the supervision of the College of Hungarian Obstetricians and Gynaecologists

Based on the ESHRE guidelines

Unclear parts with respect to medical and surgical treatment

National adoption of the current ESHRE guidelines would be of great benefit
