

Safety and Effectiveness of UFE in Fibroids Larger than 10 cm

Viktor Bérczi · Éva Valcseva · Dóra Kozics · Ildikó Kalina · Pál Kaposi · Péter Sziller · Szabolcs Várbíró · Erzsébet Mária Botos

Received: 16 August 2014/Accepted: 25 October 2014

© Springer Science+Business Media New York and the Cardiovascular and Interventional Radiological Society of Europe (CIRSE) 2015

Abstract

Introduction Early literature suggested that the size of the uterus, the size of the dominant fibroid, and the amount of applied embolization particles would be the risk factors for major postprocedural complications, but recent publications have confuted these early results. The purpose of our study was to evaluate whether the size of the dominant fibroid would influence the complication rate and effectiveness in a large single-center cohort.

Patients and Methods From 28 April 2008 until 31 December 2012, 303 patients had uterine artery embolization (UAE). 262 patients had small [largest diameter <10 cm (Group 1)], 41 patients had large [largest

from unilateral femoral access using 500–710 and 355–500 μ m polyvinyl alcohol particles. Periprocedural and postprocedural complications and numerical analog quality-of-life scores (0—unbearable symptoms; 100—perfect quality of life) were listed and statistically analyzed. Results During the mean follow-up time [7.79 \pm 5.16

diameter >10 cm (Group 2)] fibroid. UAE was performed

Results During the mean follow-up time $[7.79 \pm 5.16]$ (SD) month], data on 275 patients (275/303 = 90.8%) were available. Quality-of-life score was 33.3 ± 23.5 and 33.5 ± 24.1 before, whereas 85.6 ± 16.0 and 81.5 ± 23.5 after UAE in Group 1 and Group 2, respectively, (Mann–Whitney U test one-sided, p = 0.365). There were 4 myoma expulsions, 1 acute myomectomy, and 2 acute hysterectomies reported from Group 1, meanwhile 1 myoma expulsion, 1 acute myomectomy, and 2 acute hysterectomies were documented from Group 2 (NS differences).

Conclusion There was no significant difference in the effectiveness and in the number of minor and major complications between fibroids with <10 cm largest diameter compared to those >10 cm.

Keywords Uterine artery embolization (UAE) · Dominant fibroid · Major complications · Acute hysterectomy and myomectomy

V. Bérczi (⋈) - É. Valcseva - D. Kozics - I. Kalina -P. Kaposi - E. M. Botos Department of Radiology and Oncotherapy, Semmelweis

University, Budapest, Hungary e-mail: berezi@hotmail.com

É. Valcseva

e-mail: evapeneva@gmail.com

D. Kozics

e-mail: dora.kozics@gmail.com

L. Kalina

e-mail: ilkalina@t-online.hu

P. Kaposi

e-mail: kaposipal@gmail.com

E. M. Botos

e-mail: erzsebetbotos@gmail.com

P. Sziller · S. Várbíró

2nd Department of Gynaecology and Obstetrics, Semmelweis University, Budapest, Hungary e-mail: psziller@t-online.hu

S. Várbíró

e-mail: varbiroszabolcs@gmail.com

Published online: 10 January 2015

Introduction

Uterine leiomyomas (fibroid, fibromyoma) are the most common benign tumors in women in the age over 35. Although most women with uterine leiomyomas are asymptomatic, 20–25 % of them have symptoms, most frequently abnormal uterine bleeding or pelvic compression.

For symptomatic cases, hysterectomy remains the most common surgical treatment for leiomyomas because it is

