شبكة المعلومات الجامعية

بسم اللّه الرحمن الرحيم

شبكة المعلومات الجامعية

التوثيق الالكتروني والميكروفيلم

شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

قسم

نقسم باللّه العظيم أن المادة التي تم توثيقها وتسجيلها علي هذه الأقراص المدمجة قد أعدت دون أية تغيرات

يجب أن

تحفظ هذه الأقراص المدمجة بعيدا عن الغبار

شبكة المعلومات الجامعية

بعض الوثائق الأصلية تالفة

بالرسالة صفحات
لم ترد بالأصل

Outcome of Single Tibial Artery Angioplasty in Critical Limb Ischemia

Abstract

Peripheral arterial disease (PAD) presents with 12% to 20% of the elderly patients (aged 65 years and older). Critical limb ischemia (CLI) represents the most severe form of PAD; which is a severe obstruction of the arteries which markedly reduces blood flow to the extremities (hands, feet and legs) and has progressed to the point of severe pain and even skin ulcers or sores. In daily practice, CLI patients often have significant lesions in both the anterior tibial artery (ATA) and the posterior tibial artery (PTA). In patients who have progressed to CLI, revascularization of the affected extremity through endovascular intervention plays a crucial role in staving off limb loss, prolonging survival, and improving their quality of life. The aim of this work was to evaluate the outcomes and advantages of single tibial artery angioplasty in critical limb ischemia. In this one arm observational prospective study; 40 patients were selected from the Department of Vascular Surgery- Ain Shams University Hospital from the period of June to December 2018. Patients were subjected to Duplex study and Computerized tomography (CT) angiography for investigation. Patients were treated by single vessel infra-popliteal PTA with or without stent and balloon. Post-intervention medical treatment included: **Anti-coagulants & Anti-platelets. Outcome within one month. Complications, Length of stay in hospital & Mortality.**

- Wound healing at three and six months (Complete or Incomplete). Our results showed that: **1.** The mean of age was 60.525 ± 4.013 years. 26 patients (65%) were male while 14 patients (35%) were female. BMI was 23.075 ± 4.299 kg/m^2

2. Regarding the past medical history, hypertension was found in 30 patients (75%). Diabetes mellitus was found in 32 patients (80%). Smoking was found in 28 patients (70%). Cardiac diseases were found in 27 patients (67.5%). Renal diseases were found in 16 patients (40%). COPD was found in 8 patients (20%).

3. Four patients (10%) had no prior intervention in this study while 9 patients (22.5%) had suprapopliteal angioplasty and 12 patients (30%) had infrapopliteal angioplasty. Bypass was done in 11 patients (27.5%) while 4 patients (10%) had minor amputations.

4. The indications for intervention among the studied cases were rest pain in 3 patients (7.5%), ulcer in 16 patients (40%) and gangrene in 21 patients (52.5%).

5. The anterior tibial artery was targeted for revascularization in 18 patients (45%) while the posterior tibial artery was the target in 14 patients (35%). The peroneal artery was revascularized in 8 patients (20%).

6. Intraoperatively, complications occurred in 7 patients (17.5%); perforation occurred in 4 patients (10%) while dissection occurred in 3 patients (7.5%). The mean length of hospital stay among the patients was 2.95 ± 1.358 days.

7. No complications were encountered during follow-up in 28 patients (70%). Restenosis was found in 4 patients (10%) while thrombosis was found 6 patients (15%). Kidney problems were encountered in 2 patients (5%) due to contrast administration.

8. During follow-up, complete wound healing was found in 24 patients (60%) while incomplete healing was encountered in 16 patients (40%). [Ashraf Elzoghby Elsaeed Elseginy, Ahmed Farouk Mohamed, Kamal George Asaad Soryal. **Outcome of Single Tibial Artery Angioplasty in Critical Limb Ischemia.** *J Am Sci* 2019;15(10):35-43]. ISSN 1545-1003 (print); ISSN 2375-7264 (online). **http://www.jofamericanscience.org. 5. doi:10.7537/marsjas151019.05.**

Outcome of Single Tibial Artery Angioplasty in Critical Limb Ischemia

THESIS

Submitted for Partial Fulfillment of the Requirement for Master Degree in General Surgery

By

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2020

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M.Sc. Thesis

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DEDICATION

To my father, who always close to me with his boundless love…trust…inspiration…and for given me strength when I thought of given up …

To my mother, for her love… understanding… sharing me words of advices and encouragement…and all the support she lovely offered during my post-graduate studies …

To my sister and fiancée, for giving me happiness and joy, may they have always a life of peace, love, success and happiness ☺ ☺ …

To all who helped me to get this work done by this way, especially in Ain Shams University Hospitals, Ain Shams University and all my family and friends, thank you so much …

ACKNOWLEDGEMENT

First of all, I would like to raise my deepest thanks and gratitude to ***ALLAH*** *who helped me to accomplish this work.*

I would like to express my deepest thanks to ***Prof. Dr. Ashraf Elzoghby Elsaeed Elseginy, Professor of General Surgery, Faculty of Medicine, Ain-Shams University****, for his sincere help and reliable direction all over the conduction of this work.*

I would like also to express my deepest thanks to ***Prof. Dr. Ahmed Farouk Mohamed, Professor of Vascular Surgery, Faculty of Medicine, Ain-Shams University****, for his encouragement, continuous guidance and unforgettable assistance.*

Thanks for ***Prof.Dr. Mohamed Mostafa Abd El-Wahab Professor of General Surgery, Faculty of Medicine, Benha University*** *and* ***Dr. Mohamed Abd El-Monem Abd El-Salam Rizk, Assistant Professor of Vascular Surgery, Faculty of Medicine, Ain-Shams University****, for their acceptance to discuss this work.*