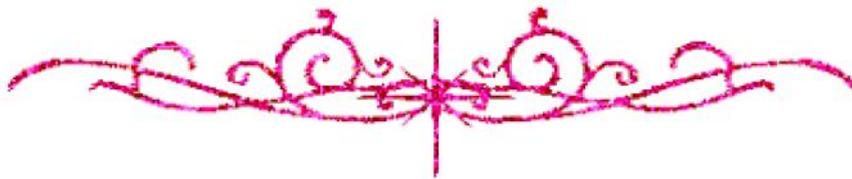
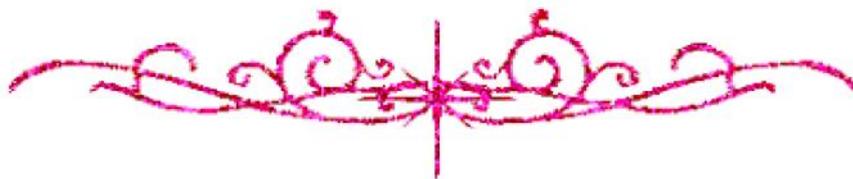


بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ





شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

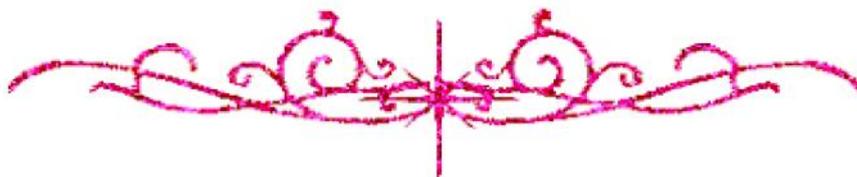
قسم

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



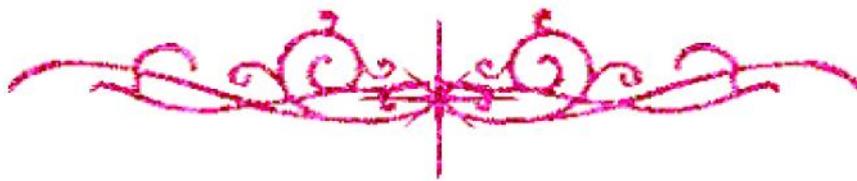
يجب أن

تحفظ هذه الأقراص المدمجة بعيدا عن الغبار



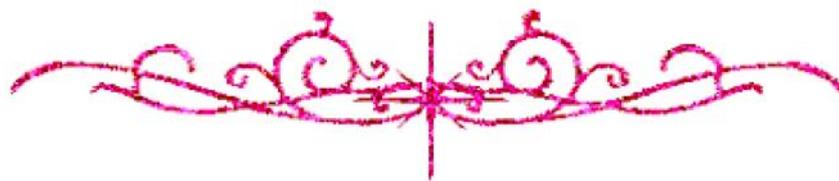


بعض الوثائق الأصلية تالفة





بالرسالة صفحات لم ترد بالأصل



**Bipolar Plasma Vaporization versus Quartz
Head Laser Ablation of the Prostate for the
treatment of benign prostate hyperplasia:
A comparative study of outcome
and complications**

A Thesis

Submitted for partial fulfillment of Doctorate degree
in Urology

By

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2020

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

قالوا

لسبب انك لا تعلم لنا
إلا ما علمتنا إنك أنت
العليم العظيم

صدق الله العظيم

سورة البقرة الآية: ٣٢



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 *Mohamed Ahmed Abd El Hamid*

Abstract

Background: Benign prostatic hyperplasia (BPH) is considered one of the most common causes of lower urinary tract symptoms (LUTS), urinary obstruction and urinary retention which usually occurs above age of 40 years.

Aim of the Work: to compare the short term effectiveness and complications of bipolar plasma versus laser vaporization of prostate over 6 months duration of follow up post-operative.

Patients and Methods: This prospective comparative clinical study (double armed) included 128 patients with prostates less than 80 gm operated upon and followed up in the Urology Department of Ain shams University hospitals in the period from September 2015 to January 2018. The patients were divided into 2 groups: Group A 64 patients who underwent Plasma vaporization. Group B 64 Patients who underwent Quartz Laser Ablation of prostate (QLAP).

Results: There were statistically significant differences between both groups as regards prostate volume reduction, PSA reduction and decrease in postvoiding residual urine more in the laser group. While IPSS and QOL reduction and uroflowmetry improvement showed higher improvement in the plasma group.

Conclusion: both techniques whether laser vaporization or plasma vaporization are considered safe, effective minimally invasive procedure in managing prostatic enlargement indicated for surgery. Both techniques are similar in the outcome and both lead to improvement of all parameters of prostatic symptoms. Laser vaporization looks to be faster, has stronger power to vaporize more tissues than plasma. No serious complications occurred in both groups. Nevertheless complications are more frequent in the plasma group.

Key words: bipolar plasma vaporization, laser vaporization, prostate, benign prostate hyperplasia

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List of Abbreviations

<i>Abbr.</i>	<i>Full-term</i>
ARIs	: Alfa reductase enzyme inhibitors
AUA	: American Urological Association
BNI	: Bladder neck incision
BOO	: Bladder outlet obstruction
BPE	: Benign prostatic enlargement
BPH	: Benign prostatic hyperplasia
B-TURP	: Bipolar Transurethral resection of prostate
DHT	: Dihydrotestosterone
DiLEP	: Diode laser enucleation of the prostate
DiVAP	: Diode laser vaporization of the prostate
DRE	: Digital rectal examination
EAU	: European association of urology
FDA	: Food drug administration
HIFU	: High Intensity Focal Ultrasound
HoLAP	: Holmium laser ablation of the prostate
HOLEP	: Holmium Laser Enucleation of Prostate
HoLEP	: Holmium laser enucleation of the prostate
HoLRP	: Holmium laser resection of prostate
IPSS	: International prostate symptom score
LUTS	: Lower urinary tract symptoms
M-TURP	: Monopolar Transurethral resection of prostate
PDEIs	: Phosphodiesterase inhibitors
PSA	: Prostate specific antigen
PVP	: Plasma vaporization of prostate
PVR	: Post voiding residual
QLAP	: Quartz head laser ablation of prostate

QOL	: Quality of life
RCT	: Randomized controlled trial
ThuVP	: Thulium laser vaporization of the prostate
ThLRP	: Thulium laser resection of the prostate
TUIP	: Transurethral incision of prostate
TUMT	: Transurethral Microwave Thermotherapy of the Prostate
TUNA	: Transurethral Needle Ablation of the Prostate
TURIS	: Transurethral resection of prostate in saline
TURP	: Transurethral resection of prostate
U/S	: Ultra sound
UTI	: Urinary tract infection
VIU	: Visual internal urethrotomy

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