EVALUATION OF COSMETIC AND SATISFACTION RATE AFTER URETHROPLASTY PROCEDURE USING PPPS

THE INCIDENCE OF ED AFTER TURP AND TVP ON BPH PATIENTS

THE ROLE OF UROLOGISTS IN MANAGEMENT OF DISORDERS OF SEX DEVELOPMENT

DISTRIBUTION OF GLEASON SCORE IN PROSTATE ZONES AMONG PROSTATIC CANCER PATIENTS

THE EFFECT OF TESTOSTERONE DEPRIVATION ON AThEROPLaque FORMATION, TESTOSTERONE RECEPTORS, AND COLLAGENIZATION IN WISTAR PENILE TISSUE

METABOLIC RISK FACTORS OF URINARY STONE DISEASE IN CHILDREN

THE DIAGNOSTIC VALUE OF PROCALCITONIN FOR EARLY DETECTION OF UROSEPSIS

DIFFERENCE IN SERUM PSA LEVEL AND IIEF-5 BEFORE AND AFTER TURP IN BPH PATIENTS WITHOUT URINARY RETENTION
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CONTENTS

Evaluation of Cosmetic and Satisfaction Rate After Urethroplasty Procedure Using PPPS.
EDHI HAPSARI, IRFAN WAHYUDEI, ARRY RODJANI.
Department of Urology, Faculty of Medicine/Indonesia University, Cipto Mangunkusumo Hospital, Jakarta.

The Incidence of ED After TURP and TVP on BPH Patients.
ARIE ALPEKDI, SIAHYO KELONO UTOMO, TRISULI UTOMO, PRWITO SINGODIMEDJO.
Department of Urology, Faculty of Medicine/Indonesia University, Cipto Mangunkusumo Hospital, Jakarta.

The Role of Urologists in Management of Disorders of Sex Development.
II HAM WAHYUDI, IRFAN WAHYUDI, KANADI SUMADIPRADJA, JOSE R. BAIU BARA, ARRY RODJANI.
Department of Urology, Faculty of Medicine/Indonesia University, Cipto Mangunkusumo Hospital, Jakarta.

Distribution of Gleason Score in Prostate Zones among Prostatic Cancer Patients.
INDRA PATA, SUWANDI SUGANDI, ANGLITA YANTISETIASTI, BETHY S. HERNOWO.
Department of Urology, Faculty of Medicine/Padjadjaran University, Hasan Sadikin Hospital, Bandung.

The Effect of Testosterone Deprivation on Atheroplaque Formation, Testosterone Receptors, and Collagenization in Wistar Penile Tissue.
IMAM DIRGANTARA AZRUL, AARON TIGOR, SUWANDI SUGANDI, BETHY S. HERNOWO.
Department of Urology, Faculty of Medicine/Padjadjaran University, Hasan Sadikin Hospital, Bandung.

Metabolic Risk Factors of Urinary Stone Disease in Children.
DANDY TANUWIDJA, SAFENDRA SHUGAR.
Department of Urology, Faculty of Medicine/Padjadjaran University, Hasan Sadikin Hospital, Bandung.

The Diagnostic Value of Procalcitonin for Early Detection of Urosepsis.
M. ANDRIADY S. NASUTION, SUNARYO HARDIOWIJOTO, DODDY M. SOEBADI, ARYATI, WIDODO JP.
Department of Urology, Faculty of Medicine/Airlangga University, Soehono Hospital, Surabaya.

Difference in Serum PSA Level and IIEF - 5 Before and After Turp in BPH Patients Without Urinary Retention.
ZULHAFI NASIBUAN, SOETOJO, WAHJOE DJATISOESANTO, WIDODO JP.
Department of Urology, Faculty of Medicine/Airlangga University, Soehono Hospital, Surabaya.
DISTRIBUTION OF GLEASON SCORE IN PROSTATE ZONES AMONG PROSTATIC CANCER PATIENTS

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ABSTRAK


Kata kunci: Karsinoma prostat, zona prostat, Gleason score.

ABSTRACT

Objective: To analyze the distribution features of Gleason score in the different prostate zones. Material & Method: Twenty paraffin block specimens of radical prostatectomy were analyzed looking for Gleason score distribution in each zone. Specimens were stained with Hematoxilin Eosin. Results: Among the 20 cancers, 16 (80%) specimens had more than one focus. Most foci were found in peripheral zone (95%), only one specimen contained foci solely found in transitional zone. More than half (55%) prostate specimens contain three different Gleason grades. Only one specimen contained a single grade. Conclusion: Our results confirm the heterogeneous, multifocal, and multizonal nature of prostate carcinomas. Most specimens had more than one tumor focus, with predominant location in the peripheral zone. Almost all transition zone foci were found concomitantly with peripheral zone foci.

Keywords: Prostate cancer, prostate zones, Gleason score.

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INTRODUCTION

Prostate carcinoma is a heterogeneous disease that exhibits considerable histologic and anatomic variability. Many of the difficulties in understanding diseases of the prostate have arisen through poor understanding of the anatomy of the prostate. The recent description of histological separate zones in the prostate has been an important advance, allowing evaluation of separate cancers arising in various zones of the prostate.

The Gleason grading system remains one of the most powerful prognostic factors in prostate cancer and is the dominant method around the world in daily practice. The Gleason grading system should be performed in needle core biopsies and radical prostatectomy specimens where it shows a reasonable degree of correlation between both specimens, and most importantly, it remains vital in the treatment decision-making process.

Detailed characterization of prostate carcinoma distribution in various zones, particularly Gleason score, could lead to improved detection procedures and biopsy strategies.