



Volume 19 No. 1 Jan 2012

ISSN 0853-442X

Indonesian Journal of Urology

Jurnal Urologi Indonesia

**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**

Indonesian Urological Association

JURI

Vol. 19

No. 1

Page 1 - 48

Jan 2012

ISSN
0853-442X

Accredited No. 81/DIKTI/Kep/2011

INDONESIAN JOURNAL OF UROLOGY
(JURI-Jurnal Urologi Indonesia)
Official Journal of the Indonesian Urological Association
Issued Twice A Year in January and July

Patron

Chairman of IAU

Founder

Sunaryo Hardjowijoto

Chief Editor

Sabilal Alif

Editorial Boards

Basuki B. Purnomo

Soetojo

Tarmono

Wahjoe Djartsoesanto

Sugeng Mulyadi

Samsul Islam

Budi Suwarno

Akmal Toher

Rainy Umbas

Doddy M. Soebadi

Lukman Hakim

Ilan J.A. Mensink

Administrative Assistants

Devita Dyahwati

Ninis Yoeniati

Ariani

Dian Novikasari W

Published by

The Indonesian Urological Association

(IAUI-Ikatan Ahli Urologi Indonesia)

Address

Secretariat of the Department of Urology

School of Medicine Airlangga University

Soetomo General Hospital

Jl. Prof. Dr. Moestopo No. 6 - 8 Surabaya 60286

Tel: (031) 5501318/5017404 Tel/Fax: (031) 5024971

E-mail: juri@urologi.or.id

Website: www.taui.or.id

Bank Account

Bank Jatim, Cabang RSU Dr. Soetomo Surabaya

a/n Majalah JURI c.q. DR. Dr. Tarmono, SpU-K

No. AC: 0322233167

CONTENTS

Evaluation of Cosmetic and Satisfaction Rate After Urethroplasty Procedure Using PPPS.

EDHI HAPSARI, IRFAN WAHYUDI, ARRY RODJANI.

*Department of Urology, Faculty of Medicine/Indonesia University,
Cipto Mangunkusumo Hospital, Jakarta.*

1 - 6

The Incidence of ED After TURP and TVP on BPH Patients.

ARIES ALPENDRI, TJAHYO KELONO UTOMO, TRISULA UTOMO,
PRAWITO SINGODIMEDJO.

*Department of Urology, Faculty of Medicine/Indonesia University,
Cipto Mangunkusumo Hospital, Jakarta.*

7 - 10

The Role of Urologists in Management of Disorders of Sex Development.

ILHAM WAHYUDI, IRFAN WAHYUDI, KANADI SUMADIPRADJA,
JOSE RI BATUBARA, ARRY RODJANI.

*Department of Urology, Faculty of Medicine/Indonesia University,
Cipto Mangunkusumo Hospital, Jakarta.*

11 - 18

Distribution of Gleason Score in Prostate Zones among Prostatic Cancer Patients.

INDRA JAYA, SUWANDI SUGANDI, ANGIJTA YANTISELASTI,
BETHY S. HERNOWO.

*Department of Urology, Faculty of Medicine/Padjadjaran University,
Hasan Sadikin Hospital, Bandung.*

19 - 22

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.*

23 - 28

Metabolic Risk Factors of Urinary Stone Disease in Children.

DANDY TANU WIDIJAJA, SAFENDRA SIREGAR.

*Department of Urology, Faculty of Medicine/Padjadjaran University,
Hasan Sadikin Hospital, Bandung.*

29 - 33

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, Soetomo Hospital, Surabaya.

34 - 41

Difference in Serum PSA Level and IIEF - 5 Before and After Turp in BPH Patients Without Urinary Retention.

ZULFIAN HASIBUAN, SOETOJO, WAHJOE DJATISOESANTO, WIDODO JP.

Department of Urology, Faculty of Medicine/Airlangga University, Soetomo Hospital, Surabaya.

42 - 48

DISTRIBUTION OF GLEASON SCORE IN PROSTATE ZONES AMONG PROSTATIC CANCER PATIENTS

¹Indra Jaya, ¹Suwandi Sugandi, ²Anglita Yantisetiasti, ²Bethy S. Hernowo

¹Department of Urology, Faculty of Medicine/Padjadjaran University, Hasan Sadikin Hospital, Bandung

²Department of Anatomic Pathology, Faculty of Medicine/Padjadjaran University, Hasan Sadikin Hospital, Bandung.

ABSTRAK

Tujuan Penelitian: Mengetahui distribusi Gleason score pada berbagai zona prostat. **Bahan & Cara:** Dilakukan analisis terhadap 20 spesimen blok paraffin prostatektomi radikal untuk menilai distribusi Gleason score pada berbagai zona prostat. Spesimen diwarnai menggunakan hematoxilin eosin. **Hasil Penelitian:** Diantara 20 spesimen, 16 (80%) spesimen memiliki lebih dari satu fokus keganasan. Kebanyakan fokus keganasan ditemukan di zona perifer (95%), hanya satu spesimen memiliki satu fokus saja pada zona transisional. Lebih dari setengah (55%) dari spesimen prostat memiliki tiga Gleason grade. Hanya satu spesimen memiliki Gleason grade tunggal. **Simpulan:** Hasil penelitian ini mengkonfirmasi sifat karsinoma prostat yaitu heterogen, multi-fokal dan multi-zonal, dengan lokasi predominan di zona perifer. Hampir seluruh fokus pada zona transisional ditemukan bersamaan dengan fokus pada zona perifer.

Kata kunci: Karsinomu 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 Hematoxylin 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.

Correspondence: Indra Jaya, c/o: Department of Urology, Faculty of Medicine/Padjadjaran University, Hasan Sadikin Hospital, Il. Pasteur No.38, Bandung 40161. Phone: 022-2039141. Mobile phone: 08122424963.

INTRODUCTION

Prostate carcinoma is a heterogeneous disease that exhibits considerable histologic and anatomic variability.¹ 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.²

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.³

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