

## ABSTRAK

**Nama** : Ambar Kusuma Astuti  
**Program Studi:** Pendidikan Dokter Gigi  
**Judul** : Profil Protein p73 pada Sel Galur Karsinoma Sel Skuamosa (KSSRM) Rongga Mulut HSC-3 dan HSC-4 serta Mukosa Mulut Normal

**Latar Belakang:** *p73*, homolog *p53*, diketahui memiliki kemampuan serupa dalam menekan pertumbuhan tumor. Protein *p73* diekspresikan dalam berbagai level pada sel kanker dan jaringan normal yang berbeda. Belum diketahui bagaimana pola ekspresi protein *p73* pada KSSRM dan pada jaringan mukosa mulut normal. **Tujuan:** Mengetahui profil protein *p73* pada KSSRM tipe mutant *p53* dan jaringan mukosa mulut normal berdasarkan berat molekul protein. **Metode:** Ekstrak protein dari HSC-3 dan HSC-4 serta jaringan mukosa normal dianalisa dengan teknik SDS PAGE untuk mendeteksi protein *p73* berdasarkan berat molekulnya. **Hasil:** pita protein *p73* pada HSC-3 lebih tebal daripada HSC-4. Terdapat variasi profil protein *p73* pada mukosa mulut normal dengan pita protein tebal (8/17) dan sedang (5/17). **Simpulan:** Terdapat perbedaan profil protein *p73* antara HSC-3 dan HSC-4 berkaitan dengan tingkat protein *p53* dan SNP pada kodon 72. Kebanyakan sampel jaringan mukosa memperlihatkan ketebalan pita protein *p73* yang cukup tinggi.

Kata Kunci: HSC-3, HSC-4, *p53*, *p73*

## ABSTRACT

**Name** : Ambar Kusuma Astuti  
**Study Program:** Dentistry  
**Title** : Profile of p73 Protein in HSC-3 and HSC-4 Oral Squamous Cell Carcinoma (OSCC) Cell Lines and Normal Human Oral Mucosa.

**Background:** p73, the homolog of p53, has a similar ability in tumor suppression. p73 protein expressed at a different level in various cancer cells and normal tissues. Profile of p73 protein in mutant p53 OSCC cell line and normal human oral mucosa have not been known. **Objectives:** To observe p73 protein profile in mutant p53 OSCC cell lines and normal human oral mucosa. **Methods:** The extracted protein of HSC-3 and HSC-4 cell lines and normal mucosal tissues were analyzed with SDS PAGE to detect p73 protein based on the molecular weight. **Results:** The band of p73 protein in HSC-3 shows a higher density compared to its density of HSC-4. A thick p73 protein band was shown on 8/17 of normal mucosal tissues while medium level of p73 protein band was shown on 5/17. **Conclusion:** The protein profile between HSC-3 and HSC-4 were different related with p53 protein and SNP on codon 72 of each samples. Most of mucosal tissues shows a quite high density of p73 protein bands.

**Keywords:** HSC-3, HSC-4, p53, p73

