

ABSTRAK

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Program Studi : Pendidikan Dokter Gigi
Judul : Profil Protein Sel Galur Karsinoma Skuamosa Rongga Mulut HSC-3 dan HSC-4 serta Jaringan Mukosa Mulut Normal

Protein sel merupakan makromolekul yang terdiri dari satu atau beberapa polipeptida yang tersusun dari rangkaian asam amino yang saling berikatan. Terdapat perbedaan profil protein antara sel normal dengan sel kanker. **Tujuan :** Melihat ekspresi protein pada KSSRM dan mukosa mulut normal. **Metode :** Sel galur HSC-3 dan HSC-4 dikultur hingga *confluent*. Sel skuamosa mukosa normal diambil dari jaringan gingiva pasien odontektomi. Semua sampel dilakukan prosedur ekstraksi protein, *Bradford protein assay*, dan *SDS PAGE*. **Hasil :** KSSRM mengekspresikan protein dengan level cukup tinggi pada berat molekul 31-78 kDa. Namun, pada mukosa normal, kebanyakan mengekspresikan protein pada berat molekul antara 39 — 172 kDa.. **Kesimpulan :** Terdapat perbedaan ekspresi protein pada sel galur KSSRM dibandingkan dengan mukosa mulut normal.

Kata Kunci :

Profil protein, HSC-3, HSC-4, jaringan mukosa mulut normal.

ABSTRACT

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Title : The protein profile in oral squamous cell carcinoma (OSCC) and normal oral mucous tissue

Cells Proteins are macro molecules consist of one or several polypeptides which formed from amine acid chain that bound one another. There is a different of protein profile between normal and cancer cells. **Objective :** To observe the protein expression in OSCC and normal oral mucous. **Method :** Cell lines HSC-3 and HSC-4 were cultured until confluent. Normal squamous mucosa was taken from gingival tissues patient who had odontectomy procedure. Protein extraction, Bradford protein assay, and SDS PAGE procedure were performed for all samples. **Results :** Oral squamous cells carcinoma expressed rather high level of protein which have molecular weight of 31-78 kDa compared to normal gingival which express protein molecular weight ranging between 39 — 172 kDa. **Conclusion :** There are different protein expression between oral squamous cells carcinoma and normal oral mucous.

Keywords : Protein profile, HSC-3, HSC-4, normal oral mucous tissue.