it possible to prepare realistic models which can be dismantled and reassembled. Similarly CDs showing different aspects of gross and histology are supplementing the traditional methods of the study of human anatomy. All these developments have now made it possible for undergraduate students majority of whom are going to become Family Physicians to learn human anatomy without the need of dissecting the dead body.

After these developments I feel the time has come when the dissection of human body as a requirement of undergraduate teaching should be given up. The moral justification for dissecting a dead body at least for the undergraduate is not there any more. There is some justification for doing so for postgraduates training for surgical disciplines.

The undergraduate anatomy should concentrate on the anatomy of the living and utilize teaching aids like models and CDs as a substitute for dissection.

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**Case Reports**

**Baso-Squamous Cell Carcinoma - a Case Report**

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**Introduction**

Basosquamous cell carcinoma (BSCC) is a rare variant of basal cell carcinoma, which carries poor prognosis because of its metastatic potential. We present a case of BSCC of face, treated with radical surgical and adjuvant radiation. This case report stresses the need to critically differentiate BSCC from the close terminology of Basaloid squamous cell carcinoma which is an aggressive variant of squamous cell carcinoma occurring in the upper aerodigestive tract.

**Case Report**

A 65 year old male reported to Ear, Nose and Throat (ENT) outpatient with painful ulcerative lesion of left lower two third of face. It started as a tiny lesion at left nasomaxillary groove one year back. This gradually increased in size. On clinical examination, it was an ulcerated lesion of 5 cm x 3 cm involving whole upper lip and left angle of mouth but sparing right angle mouth. The lesion extended to involve lower half of collumella and adjacent zygomatic region. The margins were irregular and the base was covered with purulent odouriferous secretion with numerous maggots crawling in it. Plain x-ray paranasal sinus (Water's view) did not depict any bony erosion.

Presumptive diagnosis of basal cell carcinoma was made. After cleaning, debridement and parental antibiotics, the whole lesion was excised. On histopathological examination it was diagnosed as Baso-squamous cell carcinoma. The specimen revealed ulcerated surface squamous epithelium. Intact skin adnexae were however present. At low power, the tumor cells were predominantly arranged as cords (Figure 1). There were two types of cells. The peripheral cells were small and arranged in a palisading pattern. Centrally, the cells showed squamoid differentiation with keratin formation, which were more obvious at high power (Figure 2). Brisk mitotic activity was
also identified along with inflammatory infiltrate in the stroma. The surgical defect was secondarily covered with horizontal forehead flap. The patient was later sent for adjuvant radiotherapy.

**Discussion**

Baso-squamous cell carcinoma is a variant of basal cell carcinoma. Basal cell carcinomas are seen almost exclusively on the hair-bearing skin, especially on the face. Except for the nevoid basal cell carcinoma, they rarely occur on the palms\(^1,2\) or the soles.\(^3,4\) Their occurrence on the mucous membrane is doubted. Basal cell carcinoma of the oral cavity as reported in the literature\(^5\), are probably ameloblastomas.\(^6\)

The existence of basal cell carcinomas with features of squamous cell carcinoma was first postulated in 1922.\(^7\) Two types of baso-squamous cell carcinomas (also called metatypical epitheliomas) were recognized: a mixed and an intermediary type. The mixed type was described as showing focal keratinization consisting of pearls with a colloidal or parakeratotic center; and the intermediary type showing within a network of narrow strands two kinds of cells, an outer row of dark-staining basal cells and an inner layer of cells appearing larger, lighter, and better defined than the basal cells (regarded as intermediate in character between basal and squamous cells).

Several authors have accepted the existence of baso-squamous cell carcinoma or metatypical epitheliomas.\(^8,9\) They are considered by some to represent a transition from basal cell carcinoma to squamous cell carcinoma. It has been stated a continuum which extends from basal cell carcinoma at one extreme to squamous cell carcinoma at the other end.\(^10\) The incidence of baso-squamous cell carcinomas among basal cell carcinomas has been judged to be 3%.\(^10\) It has also been stated that baso-squamous cell carcinoma shows a greater tendency to metastasize than basal cell carcinoma.\(^8,9\)

On the other hand, the existence of BSCC is questioned by many.\(^11\) It would seem that the entirely different genesis of squamous cell carcinoma, a true anaplastic carcinoma of epidermis and BCC a tumour composed of immature rather than anaplastic cells, makes the occurrence of transitional forms quite unlikely. It can be assumed that the so-called mixed type of BSCC represent a keratotic BCC and the intermediate type represents a BCC with differentiation into two types.

Basaloid squamous carcinoma, on the contrary is a biologically aggressive variant of squamous cell carcinoma. Wain, first described it in 1986 and reported it as an independent malignancy.\(^12,13\) To date 100 cases are reported in literature.\(^13,14\) The common site of origin being the upper aero digestive tract, vis-à-vis oral cavity, nasal cavity, nasopharynx, base of tongue, hypo-pharynx and supraglottic larynx. Few cases are reported involving cutaneous areas of head and neck i.e. face, neck, scalp region\(^14-16\) while an extremely rare reported site is vulva.\(^17\)

This tumor has a high proliferative activity, propensity for local destruction and potential for an early regional and distant metastasis, the behaviour that all together differs from basal cell carcinoma.\(^18-20\) The differential diagnosis include adenoid cystic carcinoma, small cell undifferentiated carcinoma, neuroendocrine carcinoma, conventional basal cell carcinoma and squamous cell carcinoma.\(^15,19,21,22\)

The variants of squamous and basal cell carcinoma are rare, and closely mimic conventional squamous cell carcinoma, basal cell carcinoma etc. It is therefore mandatory to critically evaluate this tumor microscopically; as well as to understand the terminology used by the histopathologist correctly, in order to plan correct line of therapy.

**References**

Successful Use of Angiographic Embolization to control Hemorrhage from Blunt Pelvic Trauma in a Pediatric Patient

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Introduction

In adults, the role of angioembolization in blunt pelvic trauma is fairly well established. However, its role in pediatric practice is not clearly defined. We present the case of a child, initially operated for blunt abdominal and pelvic trauma, later treated successfully by angioembolization. Its role as a safe and effective treatment modality in appropriately selected cases is discussed.

Case Report

A 10-year-old boy, involved in a motor vehicle accident was transferred to our Emergency Department. On arrival, he was in grade III shock. Examination revealed a distended abdomen, with bruising over the suprapubic region and blood at the urethral meatus. Both lower extremities showed extensive abrasions. He was immediately resuscitated and intubated in accordance with established advanced trauma life support (ATLS) protocols.

Initial x-rays demonstrated extensive pelvic and lower limb fractures involving the right sacroiliac joint, right acetabular fracture, right pubic rami, right femur, and right tibia and fibula. As he remained hypotensive and tachycardic despite fluid resuscitation, and no other obvious bleeding site was found, he was taken to the operating room for abdominal exploration.

Laparotomy revealed 500 milliliters of blood in the peritoneal cavity, no solid or hollow viscus injury, presence of massive retroperitoneal hematomas, and a distended and contused urinary bladder. Suprapubic tube cystostomy was performed, and external fixators were applied to the right leg.

Postoperatively in the intensive care unit, the child remained hemodynamically unstable and required massive blood transfusion. Angiography was performed 17 hours after surgery, which showed contrast extravasation from branches of the right internal pudendal artery (Figure 1). These bleeding points were successfully embolized using 2mm x 2.5mm platinum coils (Trufill-Cordis, USA) and Poly vinyl alcohol particles (Cordis, USA) (Figure 2).

The child's condition improved following...