

-Clinical view of oral lesions

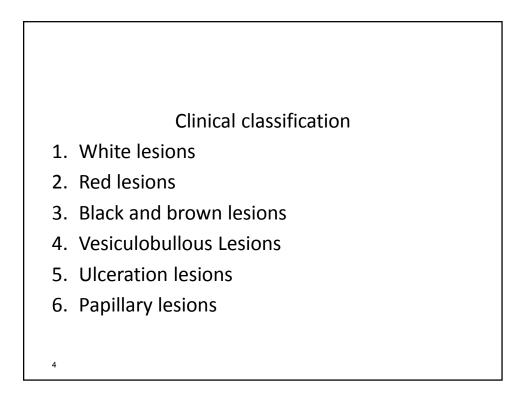
-Oral potentially malignant disorders (OPMDs) & Oral epithelial dysplasia

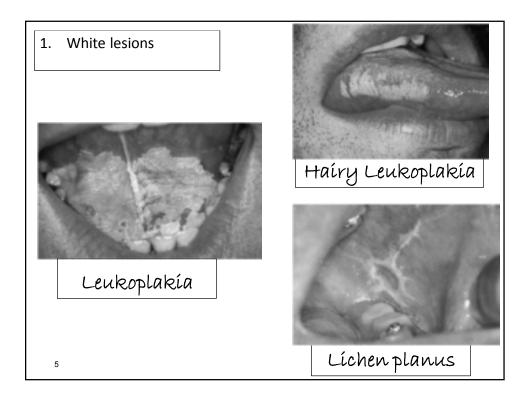
- Atypical Verrucous Hyperplasia/ Keratosis/Proliferative Verrucous Leukoplakia

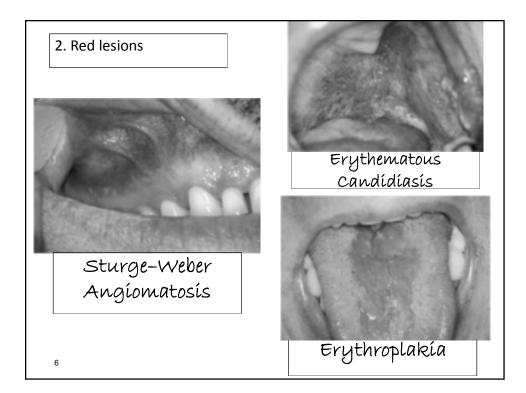
- Pitfalls in Diagnosis of OED and other OPMDs

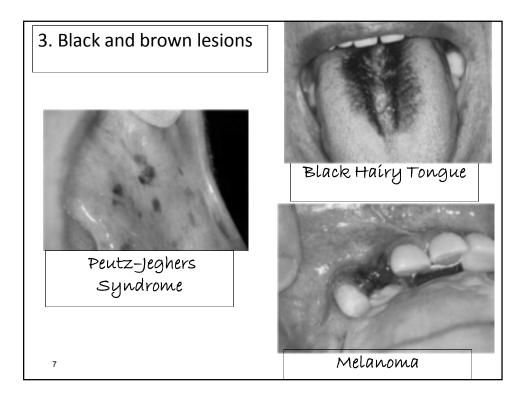
- HPV- related oral epithelial dysplasia

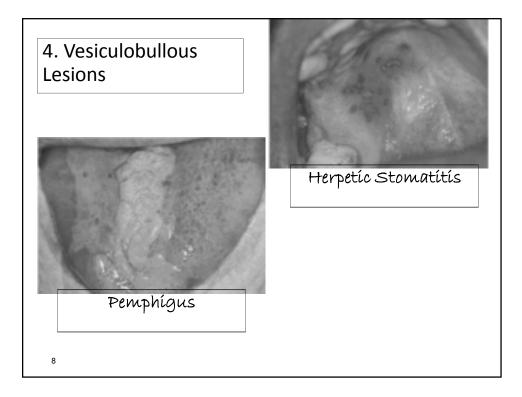
- Histopathology reporting guide of oral cavity carcinoma recommendation from ICCR dataset

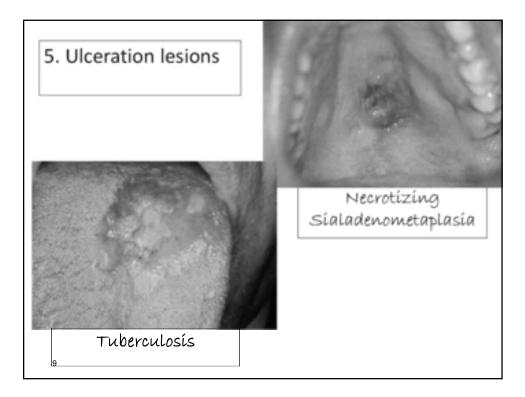


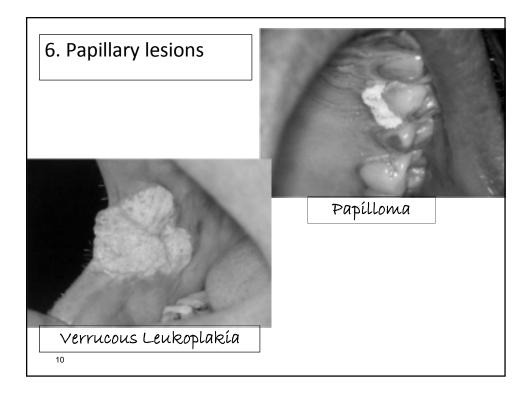


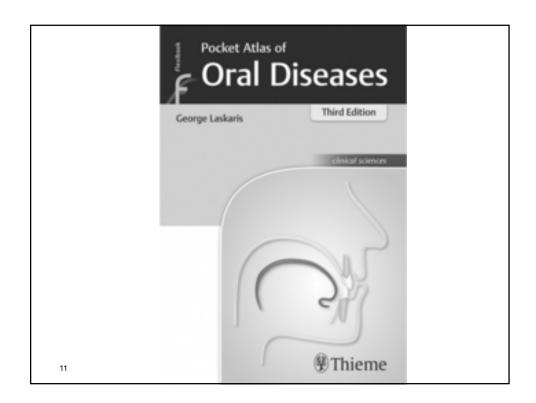


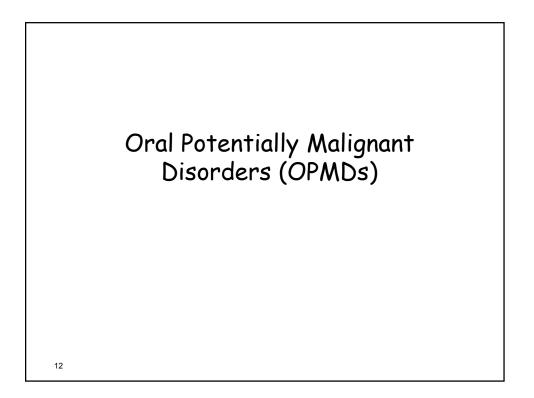


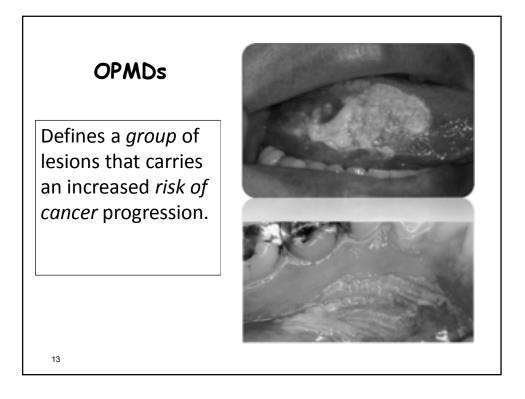


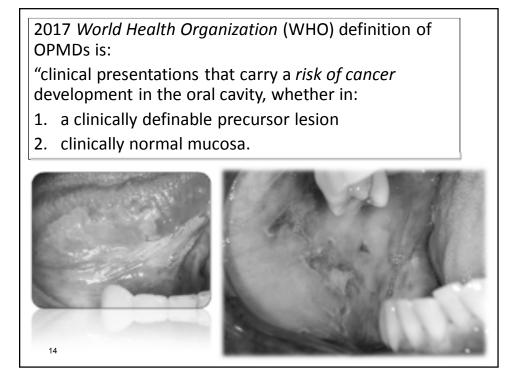




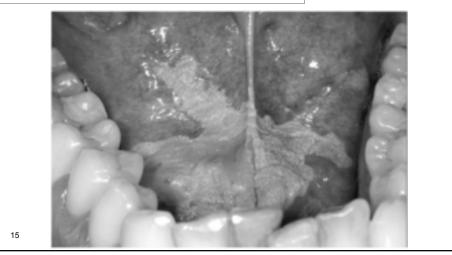


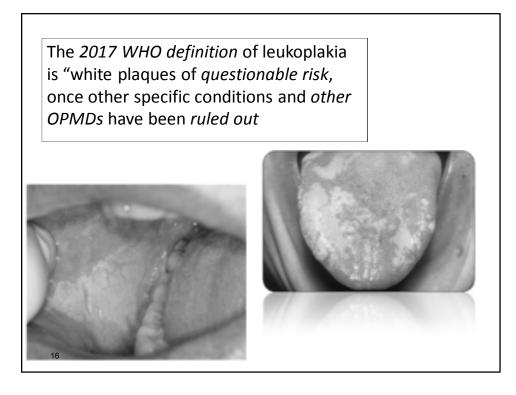


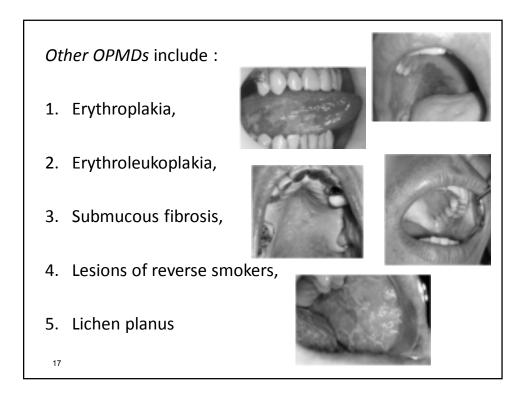


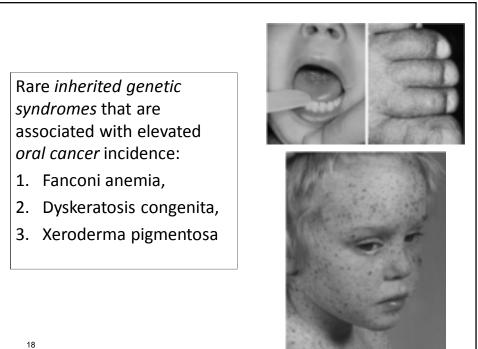


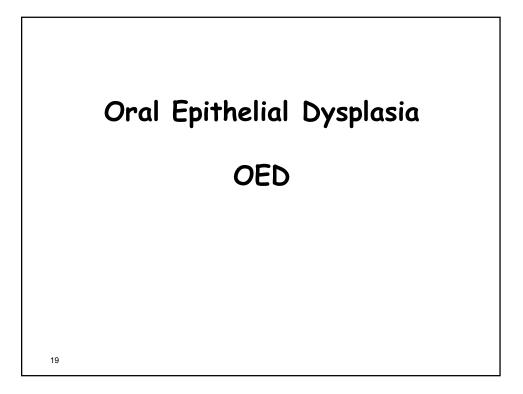
*Oral leukoplakia*, the *most common* OPMD, has a 1% prevalence and reported malignant transformation rates of 2% to 5%.

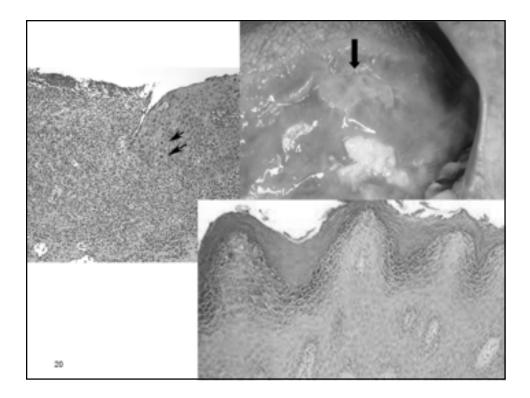


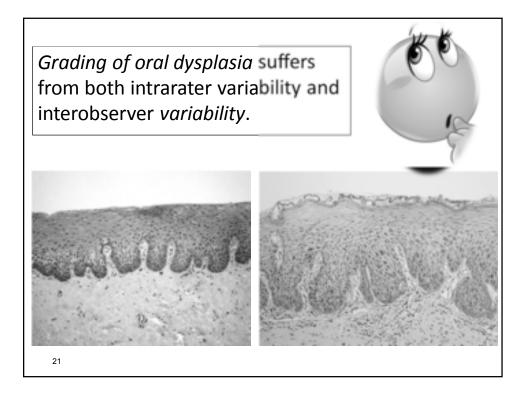












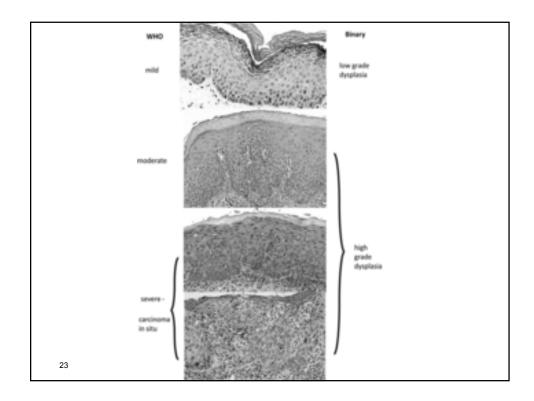


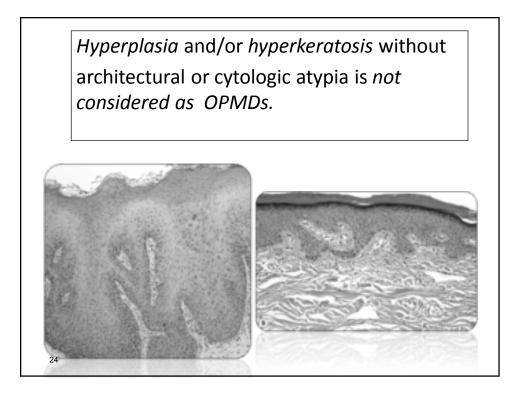
- 1. Mild dysplasia
- 2. Moderate dysplasia
- 3. severe dysplasia

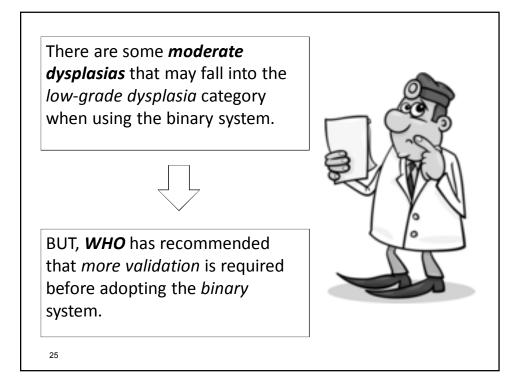
*Binary grading* system:

- 1. Low-grade dysplasias
- 2. High-grade dysplasias

*Carcinoma in situ* is synonymous with *severe dysplasia* in this grading system.



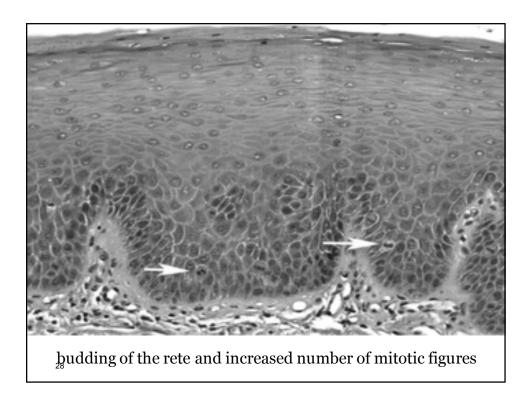


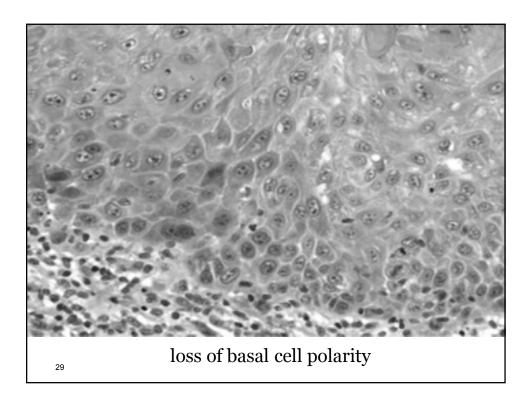


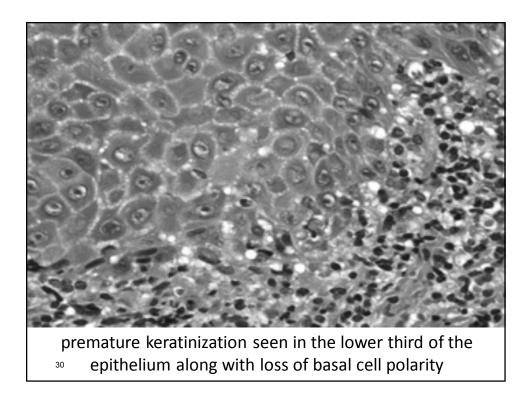
Architectural features	Cytologic feature
Loss of basal cell polarity	Abnormal variation in nuclear shape (nuclear pleomorphism)
Increased number of mitotic figures	Abnormal variation in cell shape (cellular pleomorphism)
Premature keratinization in single cells (dyskeratosis)	Atypical mitotic figures
Loss <sup>2</sup> 6f epithelial cell cohesion	Hyperchromasia

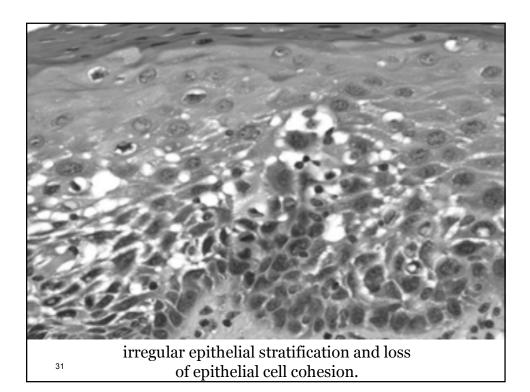
## Note

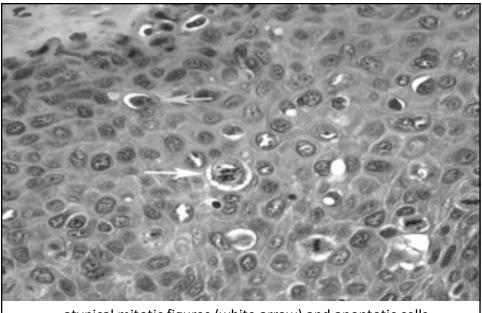
Severe cytonuclear atypia and dyskeratosis may be presented and restricted to the bottom third of an epithelial surface. Such lesions may give rise to so-called " drop-down carcinomas that seemingly drop from the base of relatively mature bland epithelium without gradual transition.



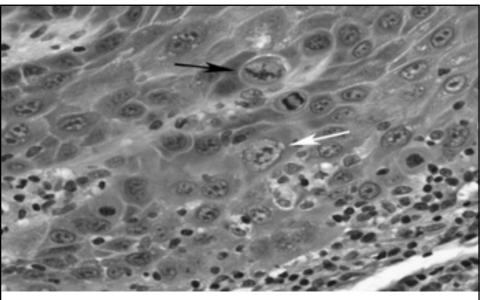






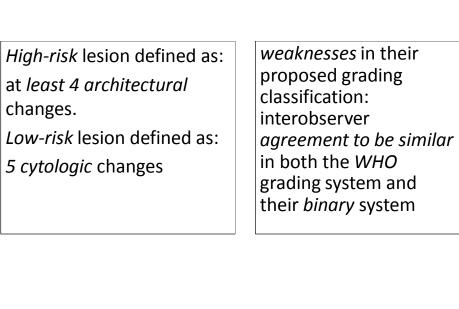


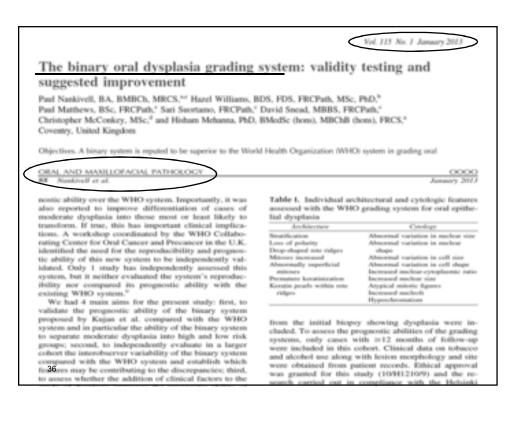
atypical mitotic figures (white arrow) and apoptotic cells characterized by eosinophilic cytoplasm and pyknotic nucleus (blue arrow).

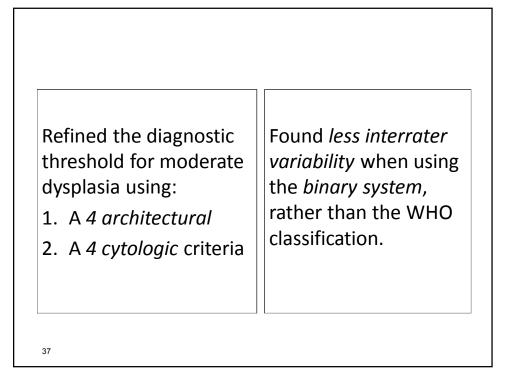


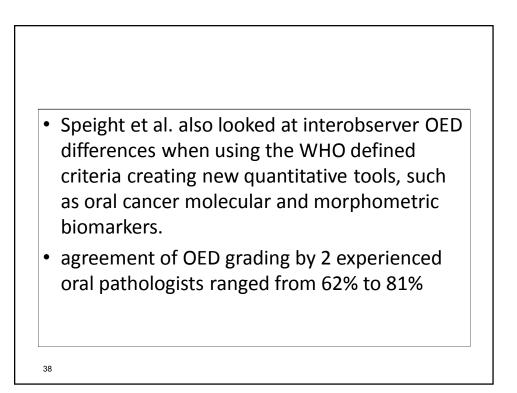
marked cellular and nuclear pleomorphism, multiple nucleoli (white arrow), atypical mitotic figures (black arrow), increased <sup>33</sup> nuclear/cytoplasmic ratio and hyperchromasia.

	Onsi Oncology (2006) 42, 987-993		
	Parks a	***** ScienceDirect ONCOLOGY	
	ELSEVIER P	unal konepage: http://intl.etavierkealth.com/journals/uron/	
<	Evaluation of a new binary system of grading oral epithelial dysplasia for prediction of malignant transformation Omar Kujan *, Richard J. Oliver *, Ammar Khattab <sup>b</sup> , Stephen A. Roberts <sup>c</sup> , Nalin Thakker *, Philip Sloan <sup>k,s</sup> <sup>1</sup> School of Dentitry, The University of Marchester, Methodester M15 6/16, United Ringdom <sup>1</sup> Statistics Group, The University of Marchester, Marchester M15 6/17, United Ringdom <sup>2</sup> Statistics Group, The University of Marchester, Marchester M15 6/17, United Ringdom		
	KEYWORDS Onal epithelial dysplasia; Grading systems; Productan; Malignant (normalianiadian) Potentially premalignant oral leaters	Summary The aim of this paper is to assess the reproductibility of a neuroi binary grading system (high-liner risk) of oral epithetical dysplants and to compare 8 with the WHO classification 2001. The accuracy of the new system for predicting maintern attachments with observations also assessed. Ninety-site consecutive anal epithetical dysplants biogenes with known clickal autoeness were retrieved from the Oral Pathology architects. A pilot study was combacted on 20 cases to deter- mine the process of classification. Four observers then reviewed the same set of Hill statute clicks of 48 and dysplants being architect process then reviewed the same set of Hill statute comm. The overall inter-observer unvergifted and weighted larges agreements for the WHO grading system uses $K_{i} = 0.22$ (WIS CI $0.1 + 0.19_{i}$ , $K_{i} = 0.043$ (WE) CI $0.42 + 0.70_{i}$ , respectively, remains $K = 0.01$ actions $M_{i} = 0.01 + 0.01_{i}$ , $K_{i} = 0.043$ (WE), respectively, remains $K = 0.01$ actions $M_{i} = 0.01_{i}$ , $K_{i} = 0.01_{i}$ , $M_{i} = 0.01_{i}$ , $M_{i} = 0.01_{i}$ , $M_{i} = 0.01_{i}$ , there are independent of the same set of the origin of the same set of main set contex. The overall inter-observer unvergifted and weighted larges agreements for the WHO product $K = 0.01_{i}$ , $M_{i} = 0.01$	
	34	(b)(5) and may have ment to begin gitterative to make certain locked decision pertaints and the pertaint of the second	



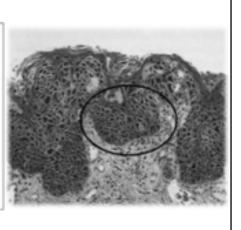


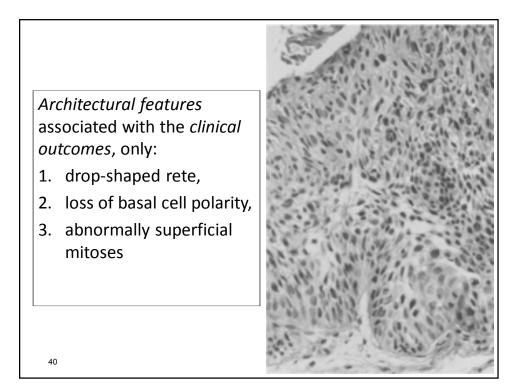




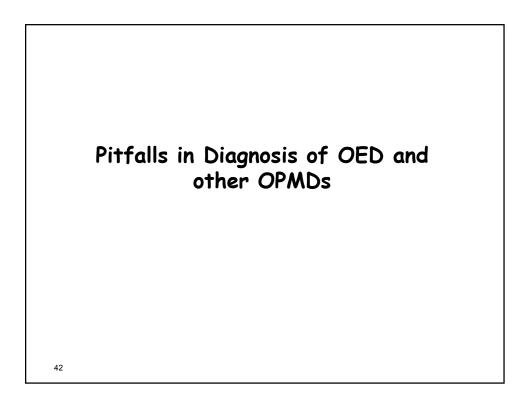
highest agreement among the *pathologists*:

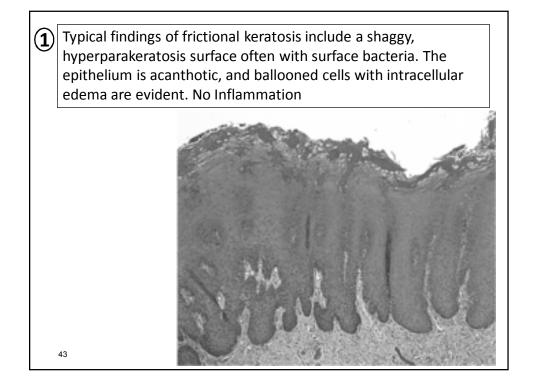
- 1. increased mitotic figures,
- 2. drop-shaped rete,
- 3. increased nuclear size,
- 4. cellular pleomorphism

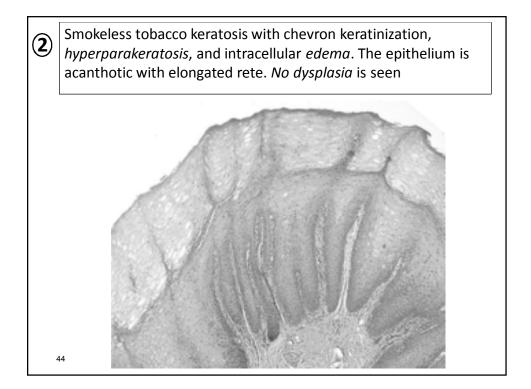


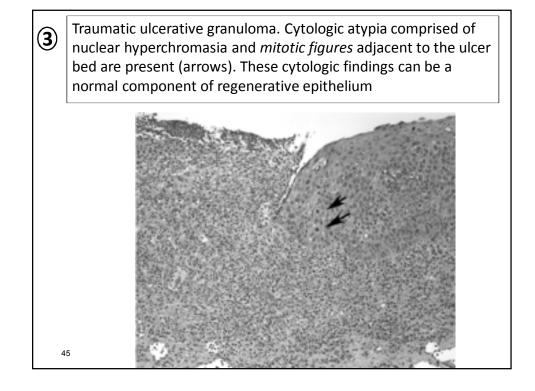


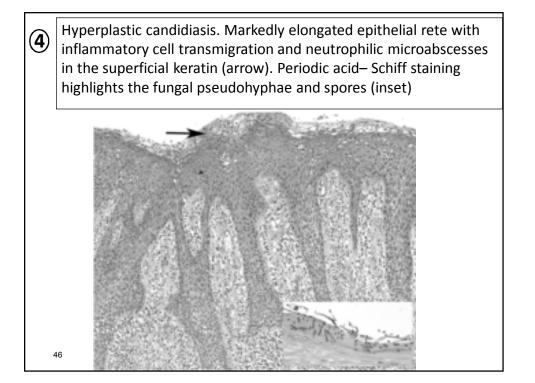


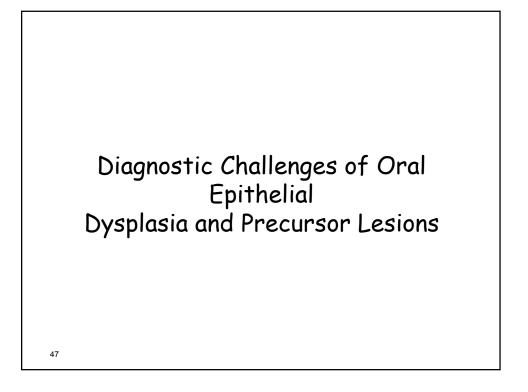


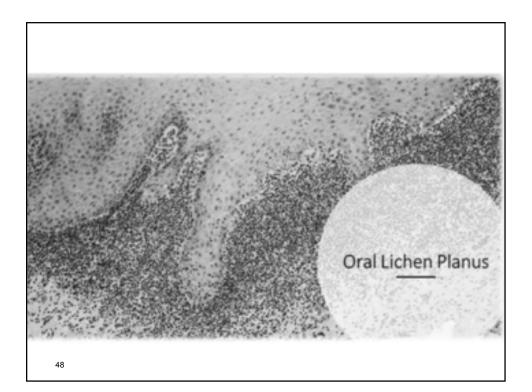


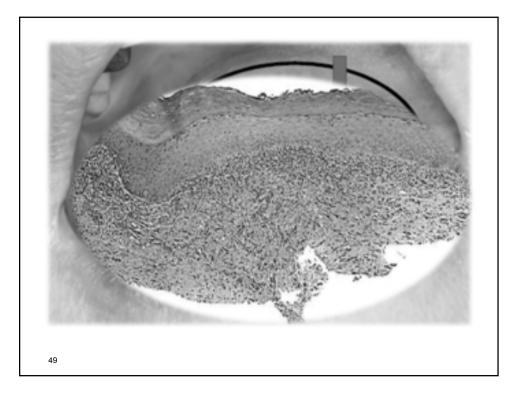


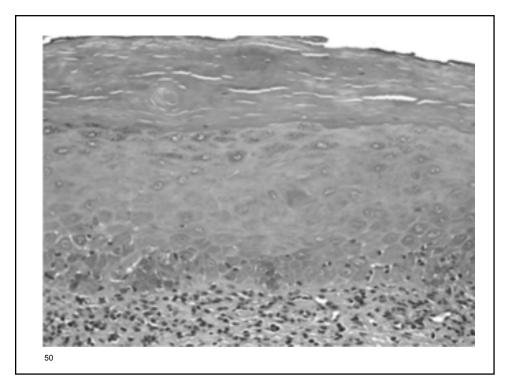














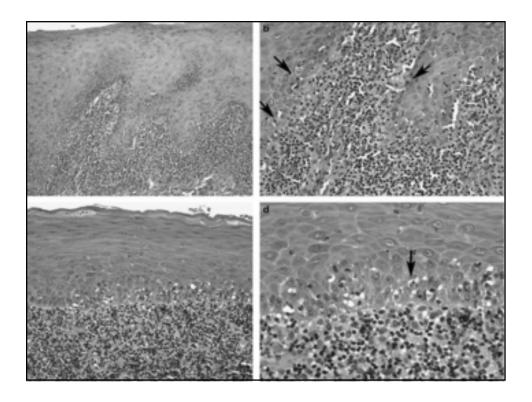


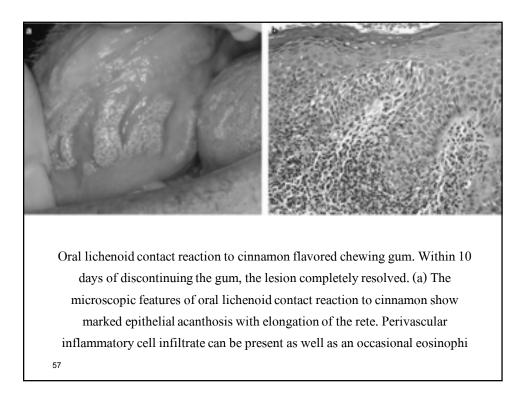
## Should we make the diagnosis: lichenoid dysplasia?

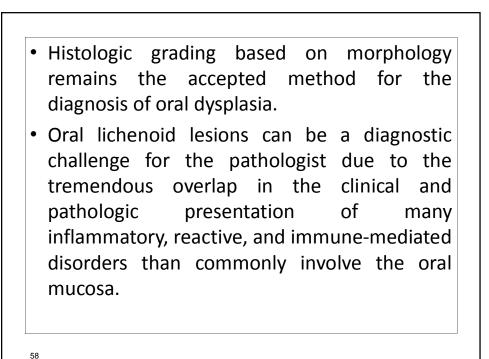
The term may cause confusion and this may result in inadequate patient management



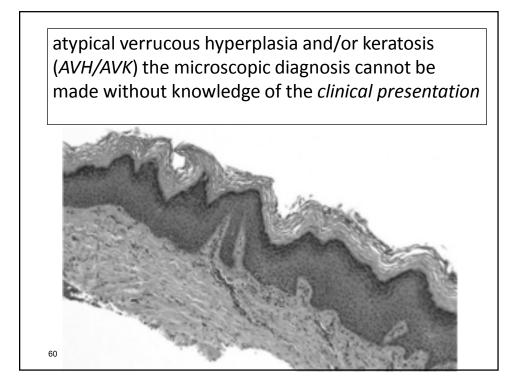


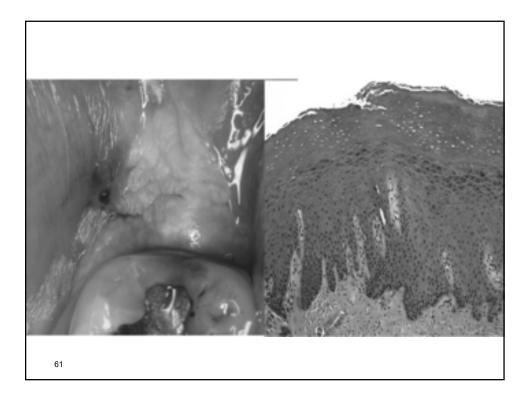


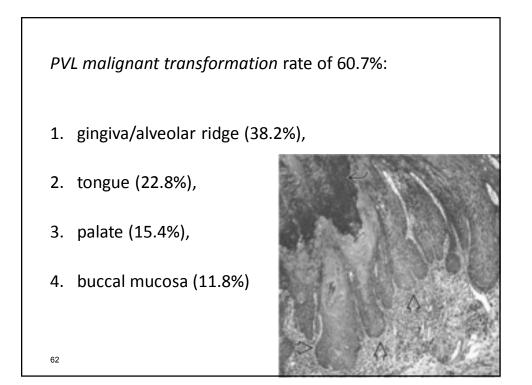


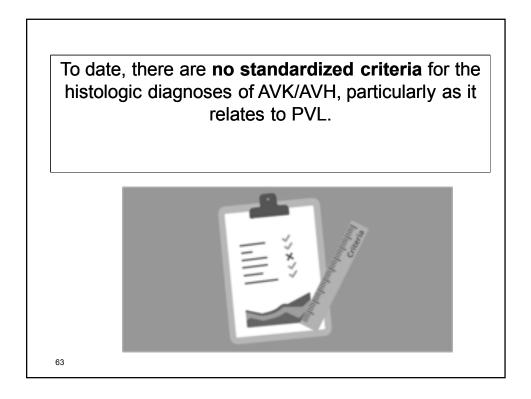


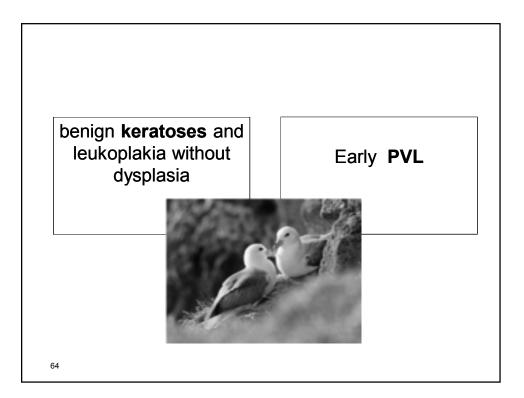


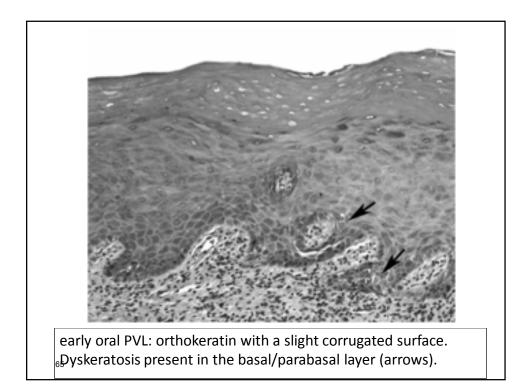


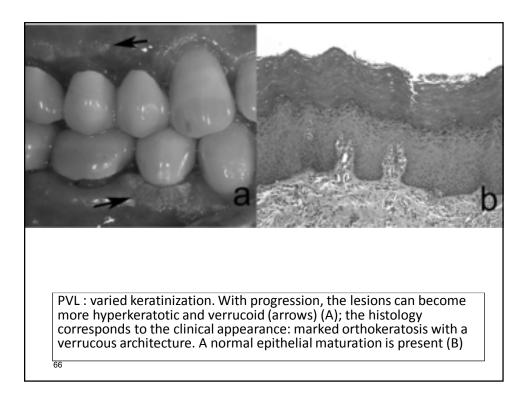


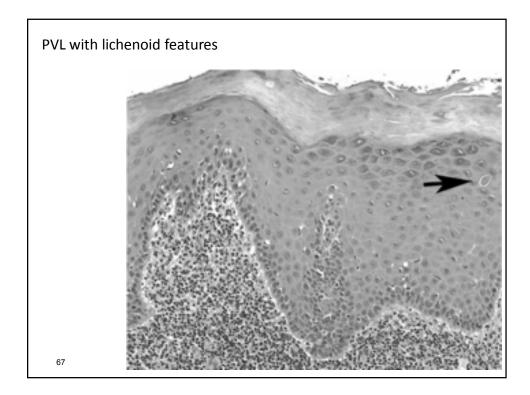


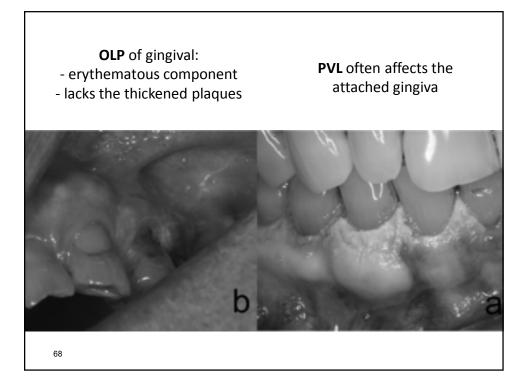


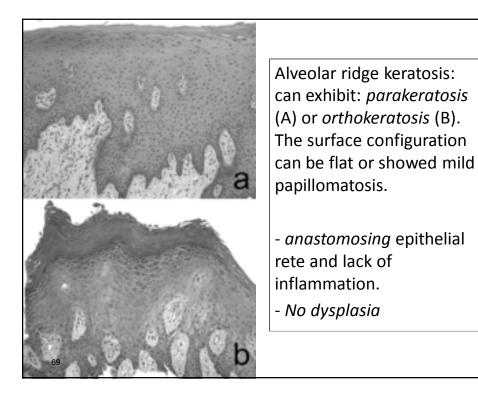


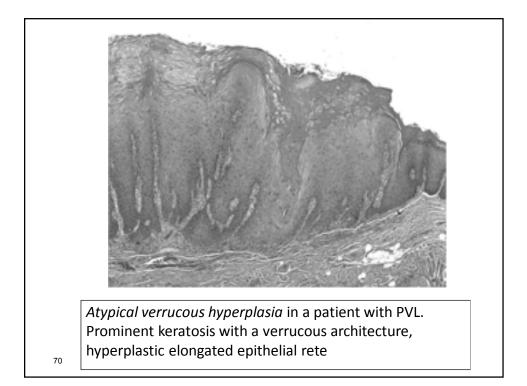


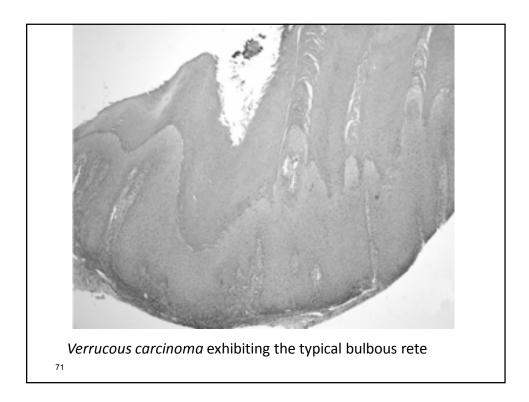




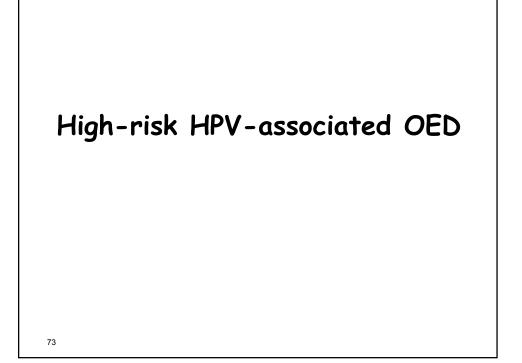


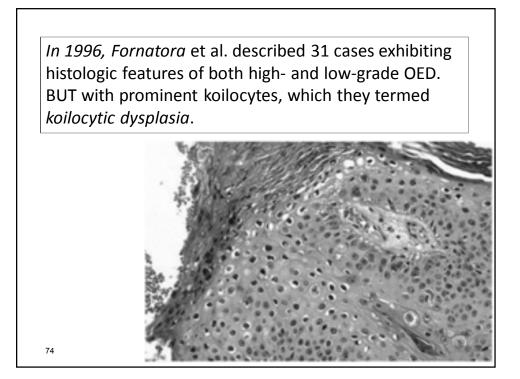


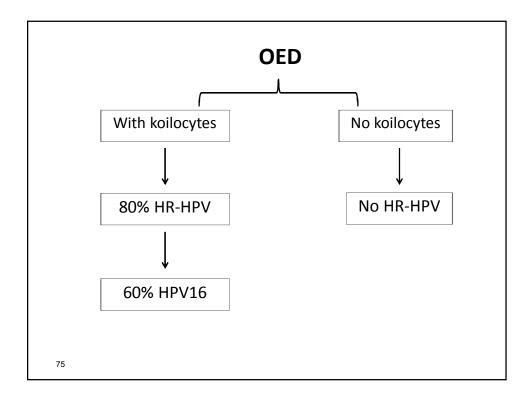


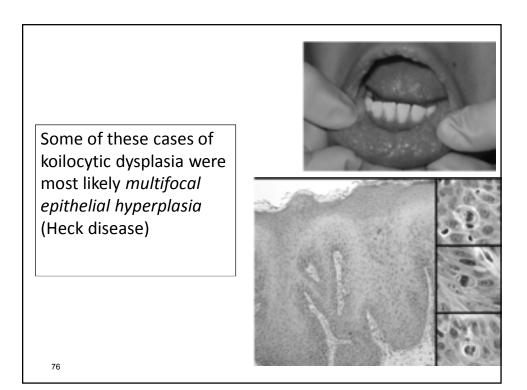


## In VC: 1. normal *mitotic figures* in the basal or parabasal layer, 2. *no cytologic* atypia. 3. exhibit *minimal dysplasia* and minimal *invasion*,

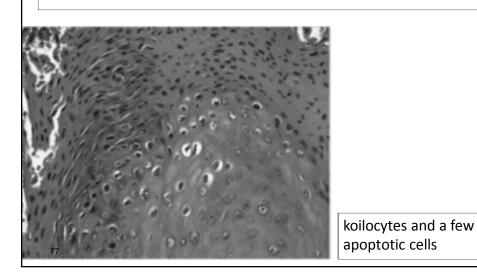


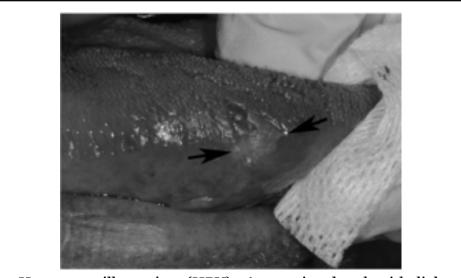






In *2013, Woo* et al. described a unique subset of OED associated with high-risk HPV, which they termed HPV associated oral intraepithelial neoplasia.



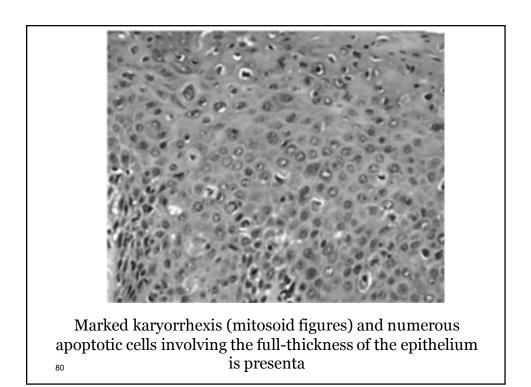


Human papillomavirus (HPV)-16–associated oral epithelial dysplasia arising on the lateral tongue of a 70-year old white male. The clinical presentation is indistinguishable from non-HPV dysplasia.

 Koilocytes may or may not be present or, if present, usually in small numbers.

 Prominent karyorrhexis, sometimes referred to as mitosoid cells, and apoptosis throughout the epithelium are the hallmark of HPV-OED

79

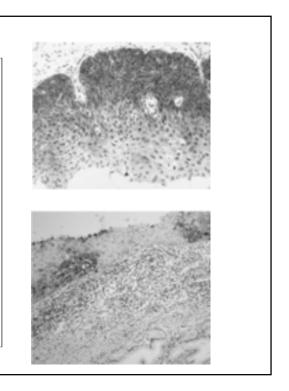


p16 IHCs: diffuse and strong *nuclear and cytoplasmic* staining, usually as a *continuous band* with full thickness of the epithelium, excluding the keratin layer.

Often, the *demarcation* between the *affected epithelium* and the *normal* epithelium is striking.

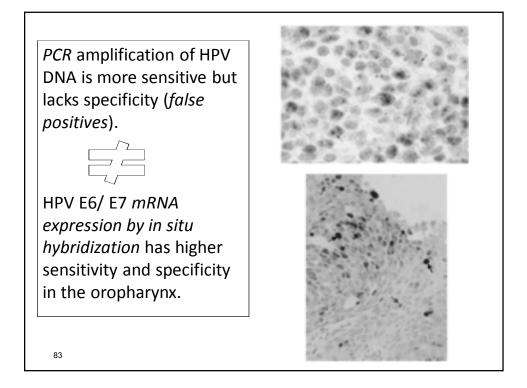
81

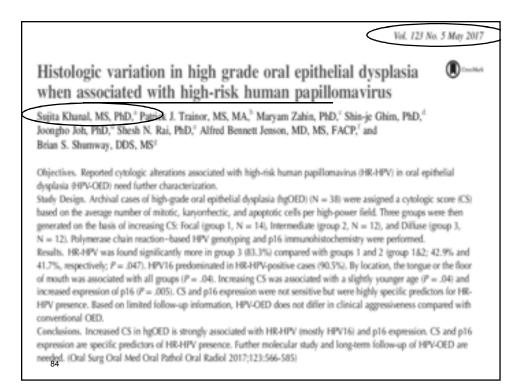
82

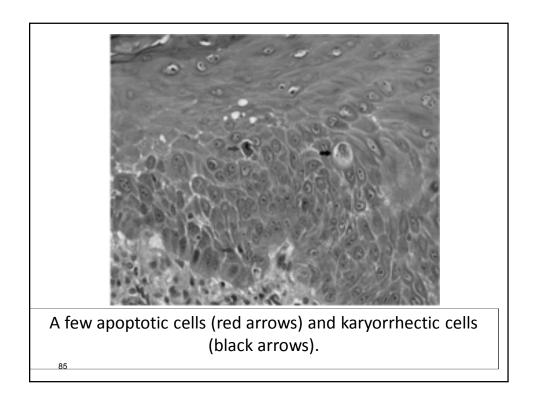


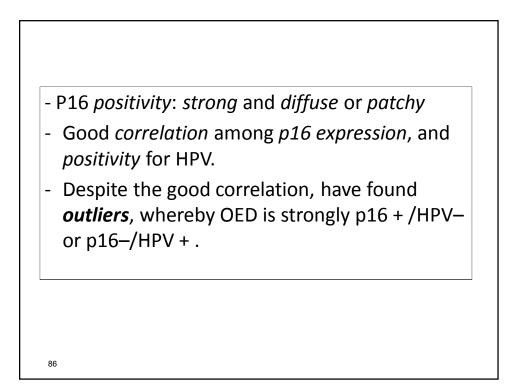
strong and diffuse cytoplasmic and nuclear staining with an abrupt transition to nondysplastic epithelium presenting as

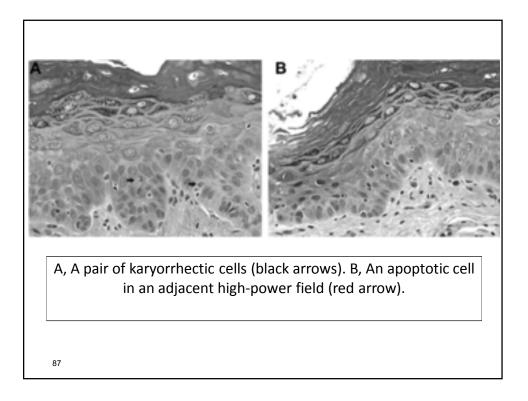
discontinuous staining (skip lesion).

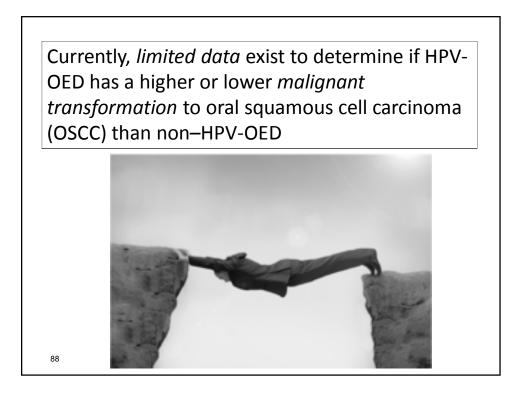


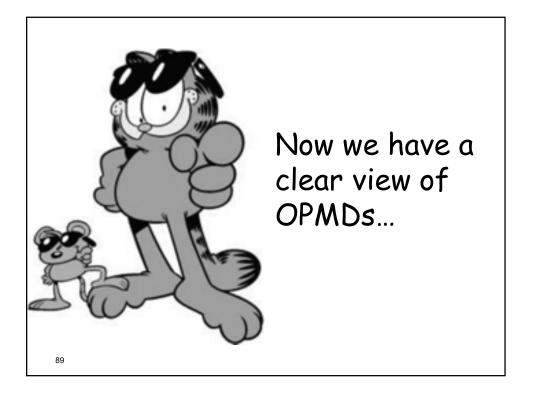




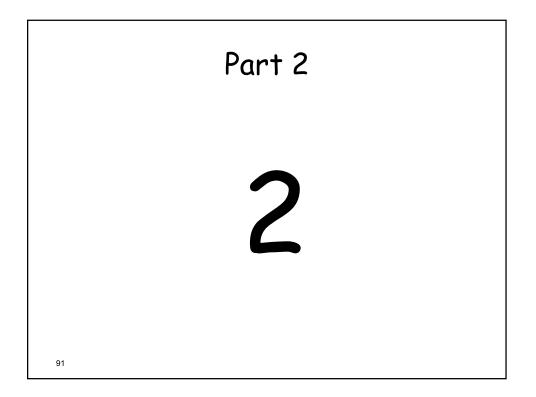


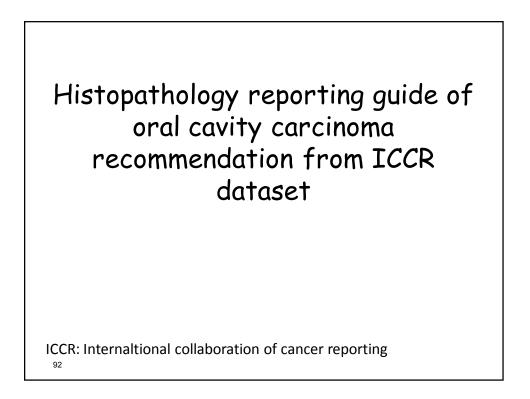


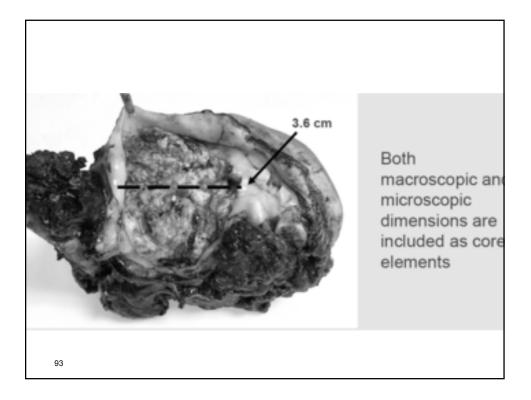


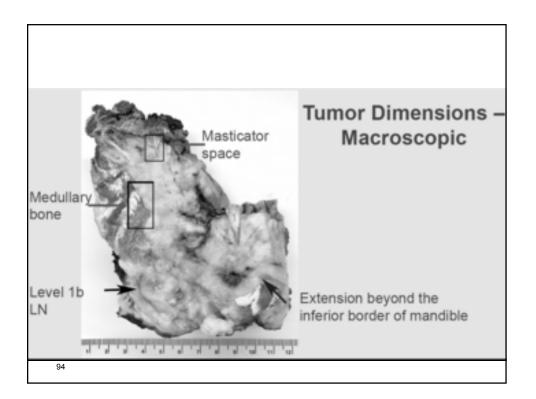


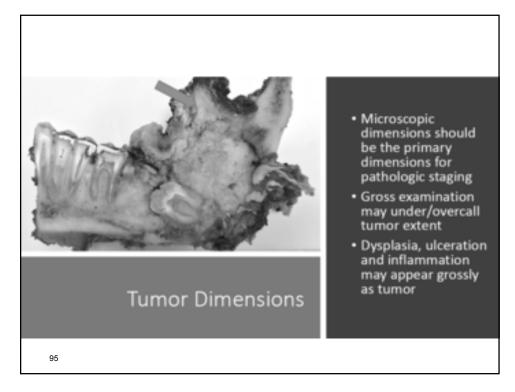


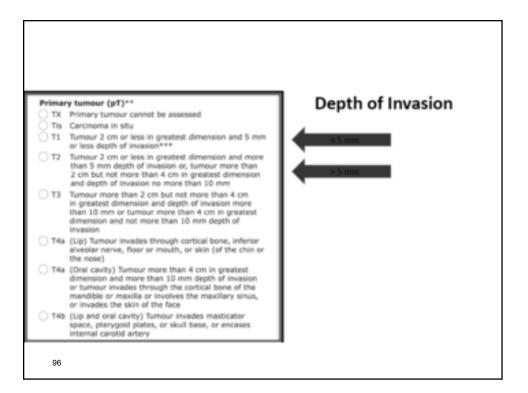








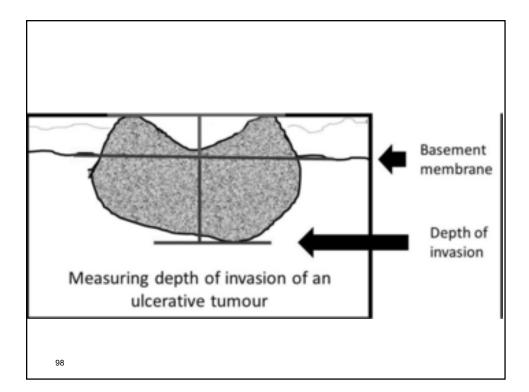


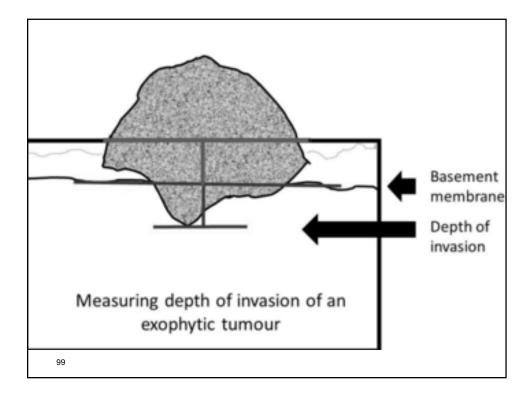


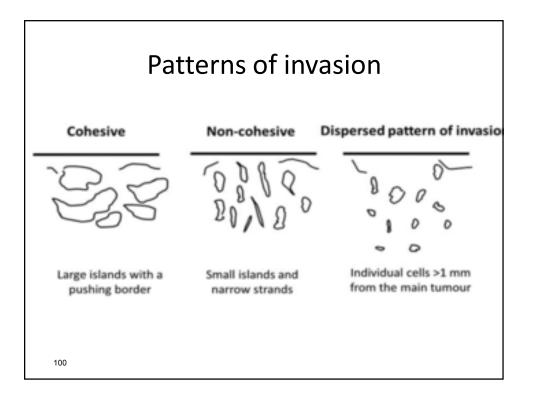


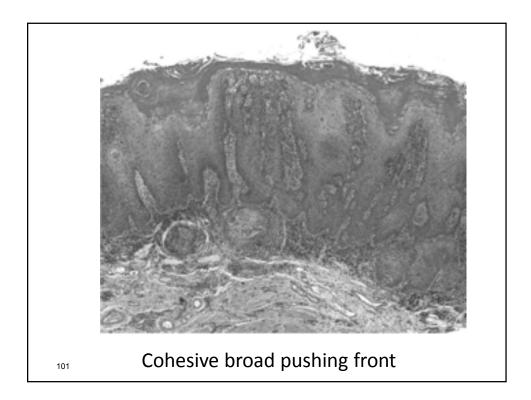
## Depth of Invasion

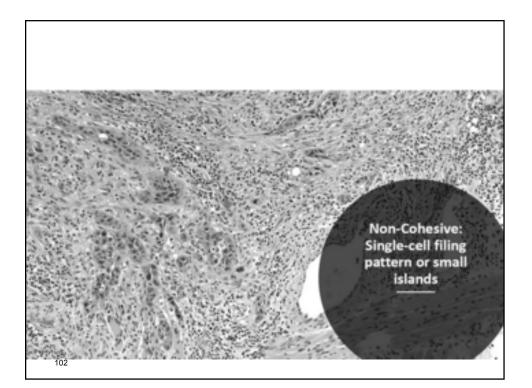
- UICC: does not define where it is assessed
- AJCC: defines it as horizontal of adjacent basement membrane
- RCPath: defines it as the epithelial surface

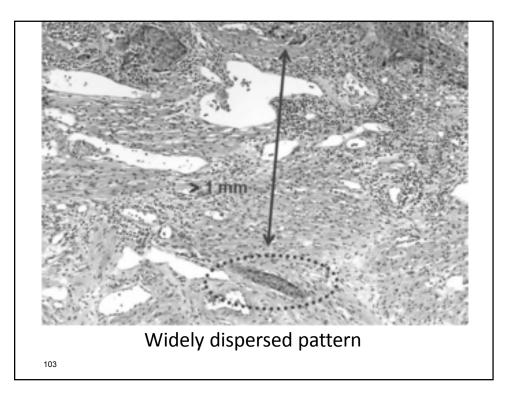


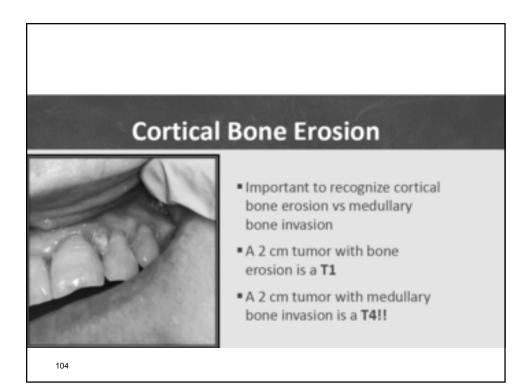


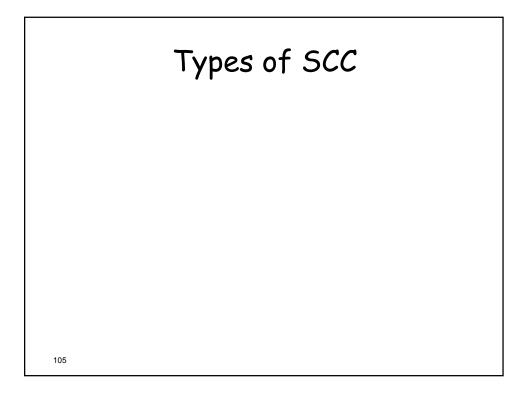


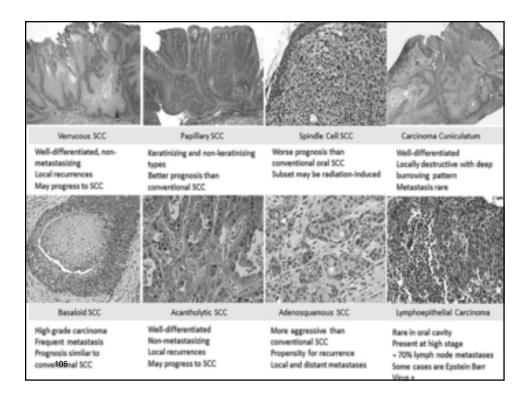


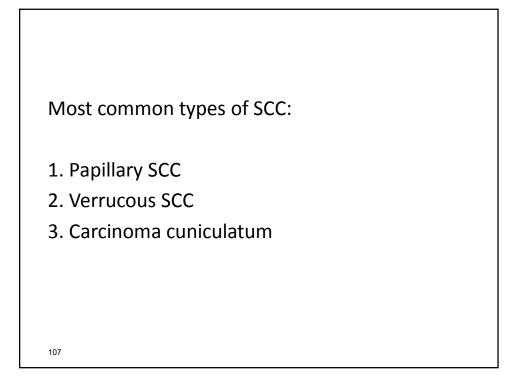


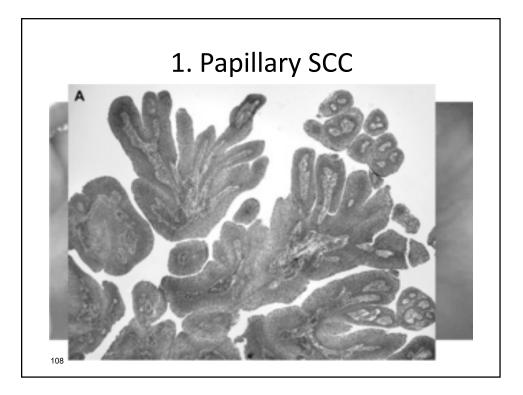


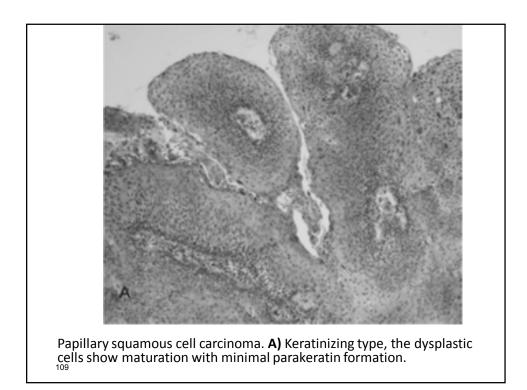


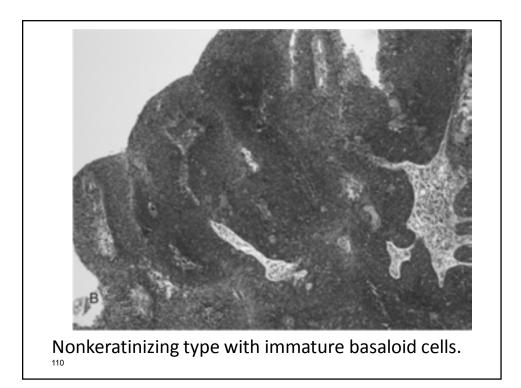


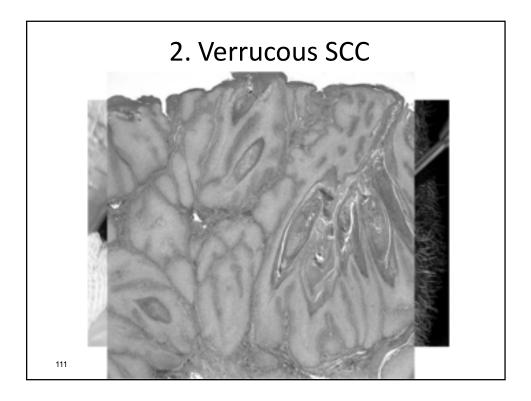


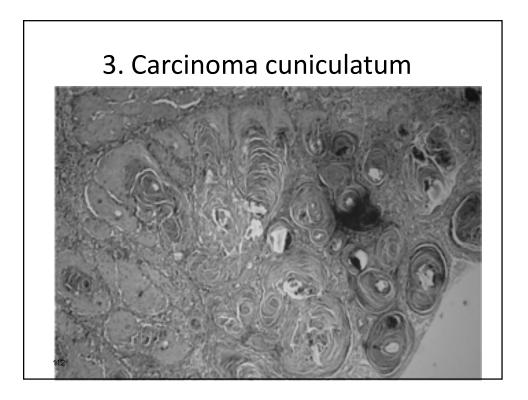




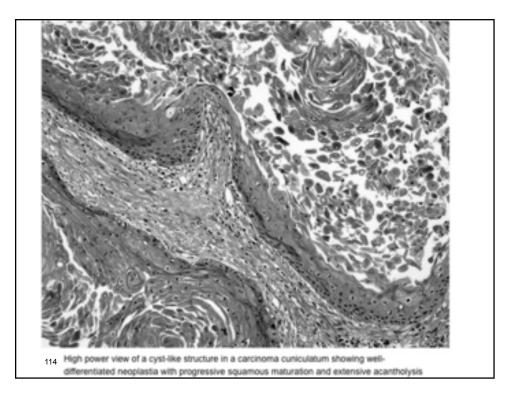












	PapSCC	VC	cc
Age	6 <sup>™</sup> -7 <sup>™</sup> decade	$6^{TH}$ -7 <sup>TH</sup> decade	6 <sup>TH</sup> -7 <sup>TH</sup> decade
Site	Larynx>oropharynx>si nonasal>others	Oral>larynx>others	Oral>others
Key morphologic features	Exophytic projection lined by carcinoma cells with infiltration at the base (>70% of exophytic projection is required)	Exophytic spire like projections, keratosis with parakeratosis between spires (crypts), bulbous pushing rete, lymphoplasmacytic background.	Exophytic with more prominent endophytic arborizing furrowing pattern of cycts and sinuses. Corrugated pattern of keratinization with superinfection of cyst common
Level of atypia acceptable	Keratinizing or non- keratinization: atypia ranging from mild to sever	No atypia in pure VC (10% in laryngeal VC and 25% of oral VC conventional SCC)	Moderate atypia
Nodalıdisease	Up to 30%	0%(except hybrid VC conventional SCC	<5%

