Glandular lesions in cervical cytology

An interactive workshop

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Glandular abnormalities reported in NZ in 2013*

Cytology:

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Atypical Glandular Cells/AIS = 456 reports (0.11%)
Adenocarcinoma (all types) = 83 reports (0.02%).

HSIL= 4057 reports; SCC = 41 reports
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Histology:

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Adenocarcinoma in situ (AIS) = 118 reports (Adenocarcinoma: heterogeneous group – data too difficult to dissect )

SCC = 102 reports
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^{*}Data relates to report numbers, not new cases or numbers of women Percentages given relate to satisfactory samples only

The NZ Cervical Cancer Audit 2000 - 2002

- 336 smears from 178 women taken within 4 years prior to a histological diagnosis of invasive cervical cancer were rescreened.
- 18% of 160 negative smears prior to invasive SCC were upgraded to "high-grade"
- 22% of 65 negative smears prior to invasive (endocervical) adenocarcinoma were upgraded to "high-grade"

Topics

1. Atypical Glandular Cells

2. AIS

Subtypes
Benign Mimics
AIS in LBC samples

3. Diagnosing adenocarcinoma
Endocervical carcinomas
Endometrial malignancies
Rare entities

1. Atypical Glandular Cells

Classification under The Bethesda System

2001: AGC = Atypical Glandular Cells

- Atypical endocervical glandular cells NOS/favour neoplasia
- Atypical endometrial cells NOS
- Atypical glandular cells NOS/favour neoplasia

Adenocarcinoma in situ (AIS) is a specific report category

2. Adenocarcinoma in situ (AIS) subtypes

Well differentiated

Endocervical - dominant component in 59%

Endometrioid - dominant component in 36%

Intestinal – rarely the major subtype

Poorly differentiated

Invasive Adenocarcinoma Cytologic Prediction

Cytology	Proportion invasive
Possible AIS	13.5%
AIS	12.1%
AIS ?Invasion	21.4%
Adenocarcinoma	79.0%
Possible CIN 3	0.2%
CIN 3	1.2%
CIN 3 ?Invasion	19.2%

3. Invasive Adenocarcinomas

Primary Endocervical Carcinomas

ADENOCARCINOMA

Mucinous: endocervical / intestinal / signet-ring types

Endometrioid: endometrioid with squamous metaplasia

Clear cell adenocarcinoma

Minimal deviation: endocervical type(adenoma malignum)

endometrioid type

Well-differentiated villoglandular

Serous

Mesonephric

OTHER EPITHELIAL TUMOURS OF CERVIX

Adenosquamous carcinoma

Glassy cell carcinoma

Clear cell adenosquamous carcinoma

Mucoepidermoid carcinoma

Adenoid cystic carcinoma

Adenoid basal carcinoma

Typical/ atypical carcinoid tumours

Large cell neuroendocrine carcinoma

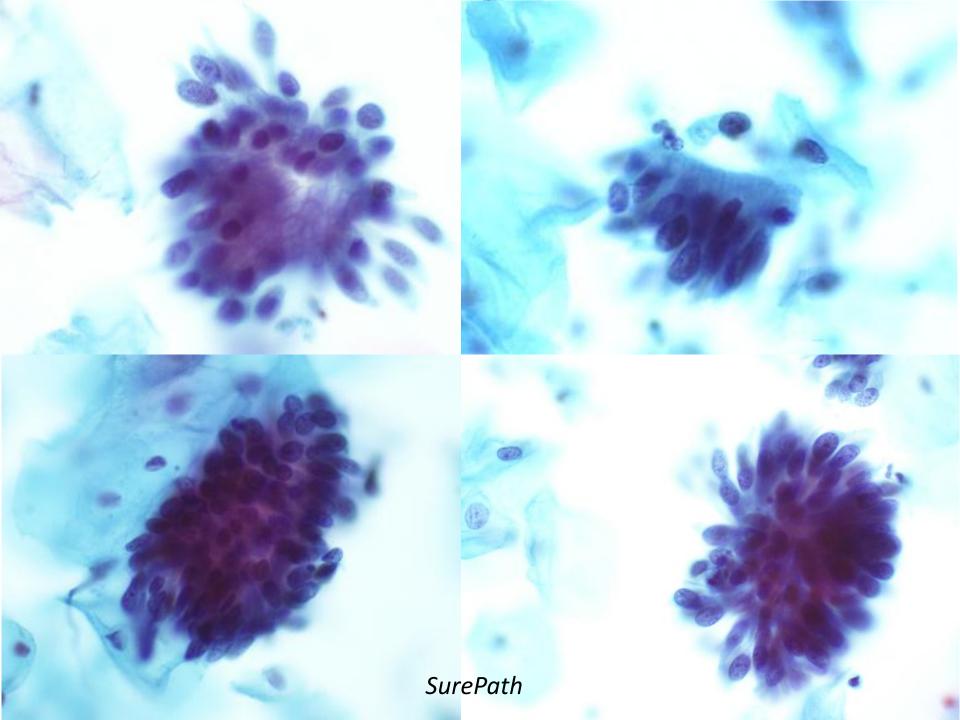
Small cell carcinoma

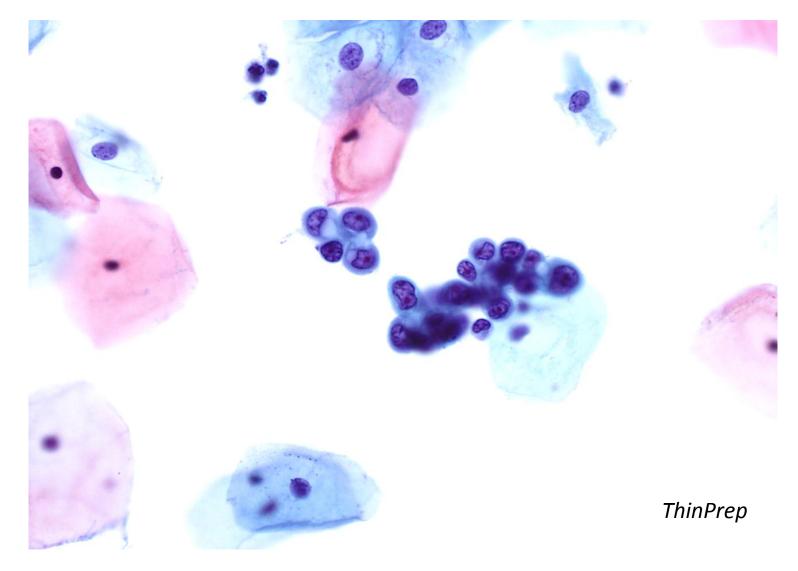
Undifferentiated carcinoma



CASE 1 Opinions A. Tubal metaplasia

- B. Adenocarcinoma in situ (AIS)
- C. Atypical Endocervical Cells (AGC)
- D. Atypical Endocervical Glandular Cells, favour neoplasia





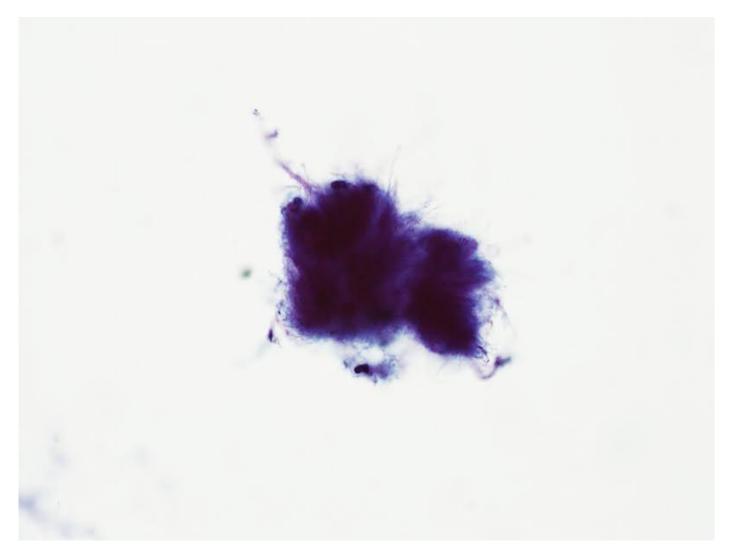
CASE 2 Opinions A. Normal endometrial cells

B. Atypical endometrial cells

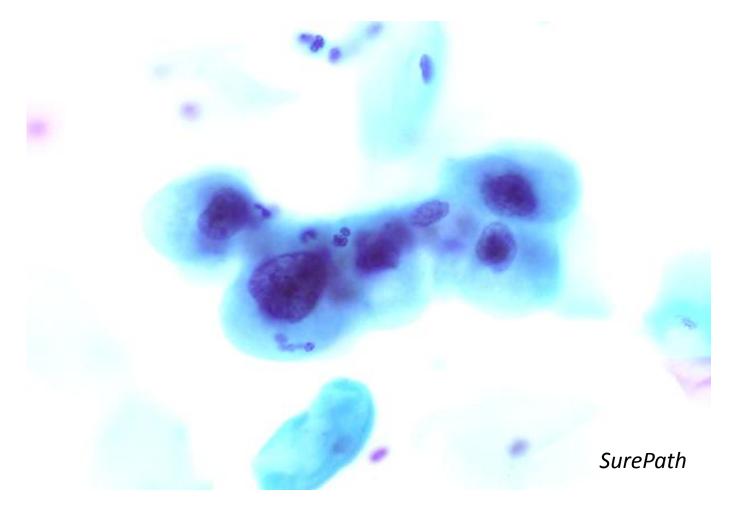
C. Malignant and matrial cells

C. Malignant endometrial cells

D. HSIL

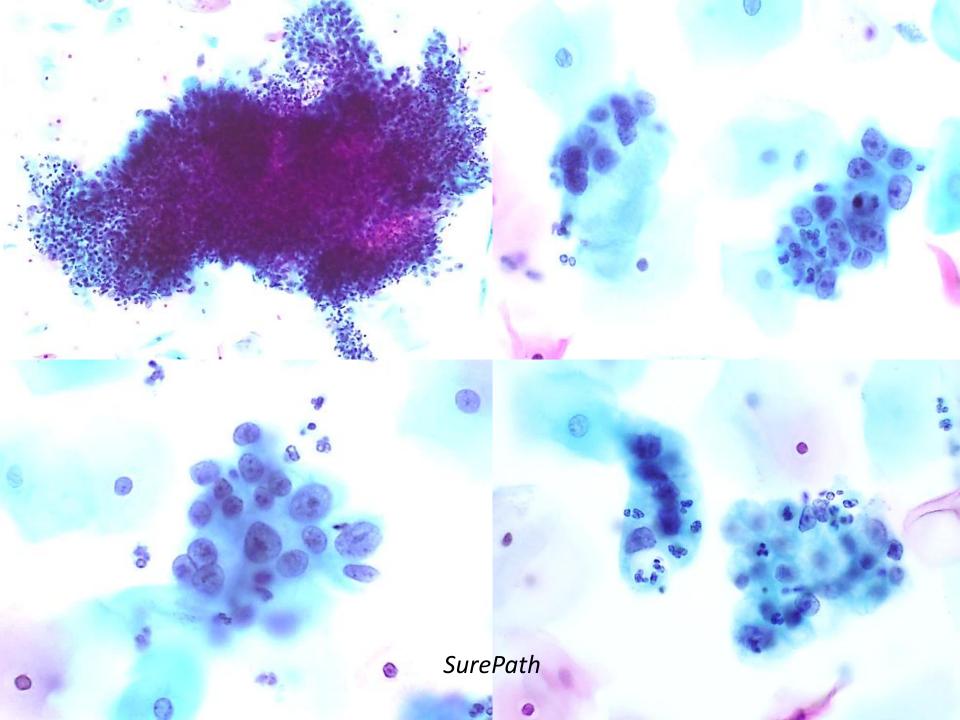


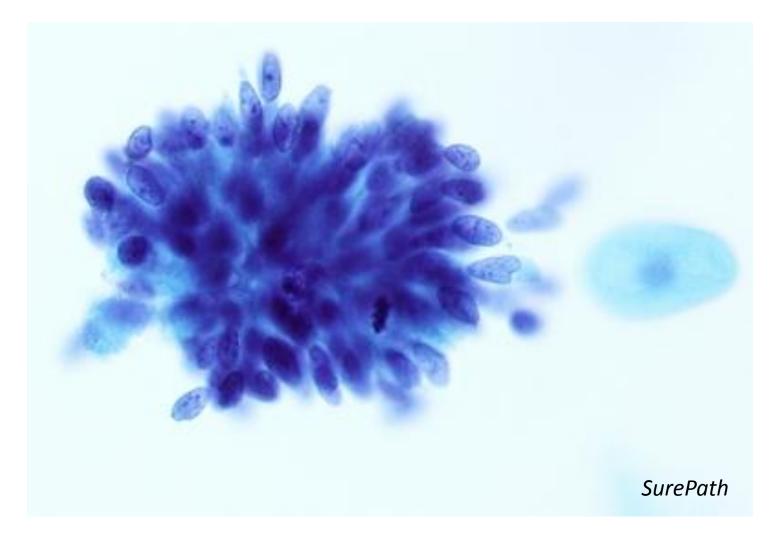
35 years Asymptomatic, IUCD



CASE 3 Opinions A. Reactive metaplastic squamous cells

- B. Reactive endocervical glandular cells
- C. Atypical Endocervical Glandular Cells
- D. Adenocarcinoma





Opinions A. Tubal metaplasia

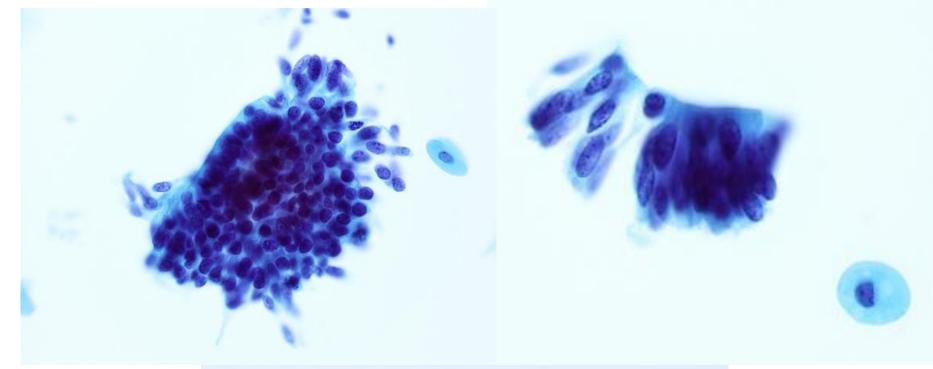
Opinions A. Tubai metapiasia

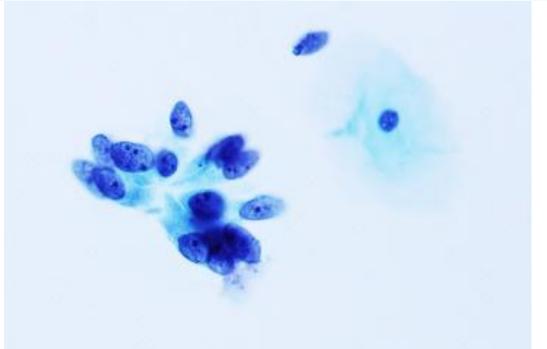
B. Adenocarcinoma in situ (AIS)

C. Atypical Endocervical Cells (AGC)

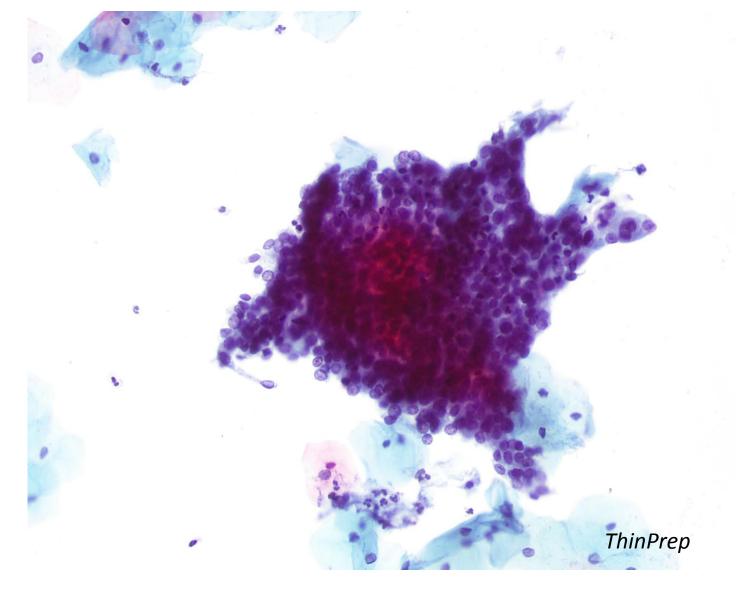
D. Atypical Endocervical Glandular Cells, favour neoplasia

CASE 4



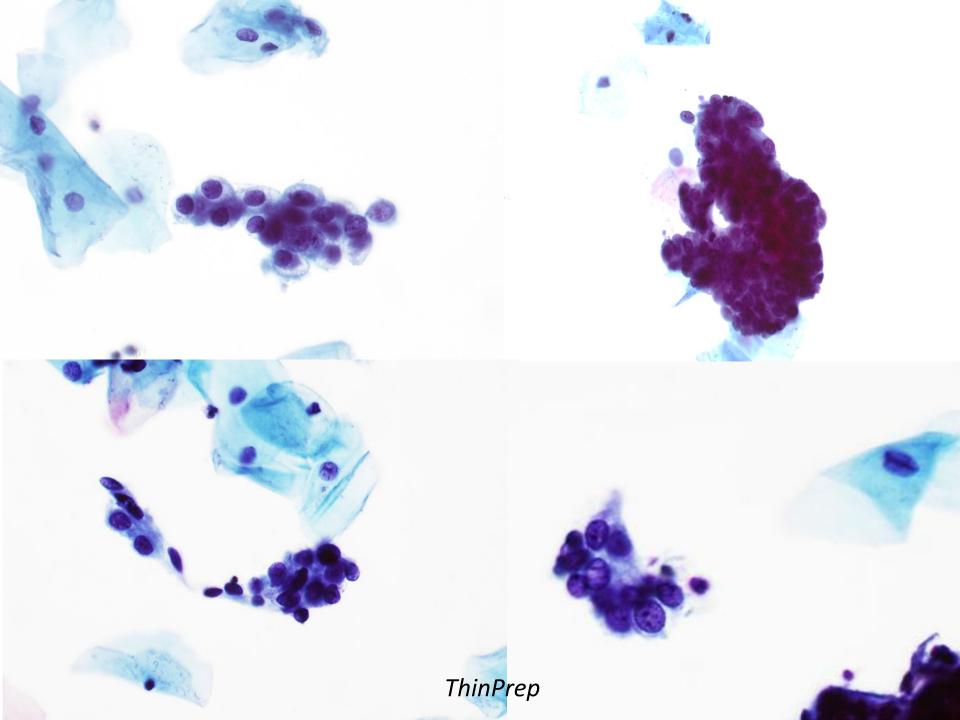


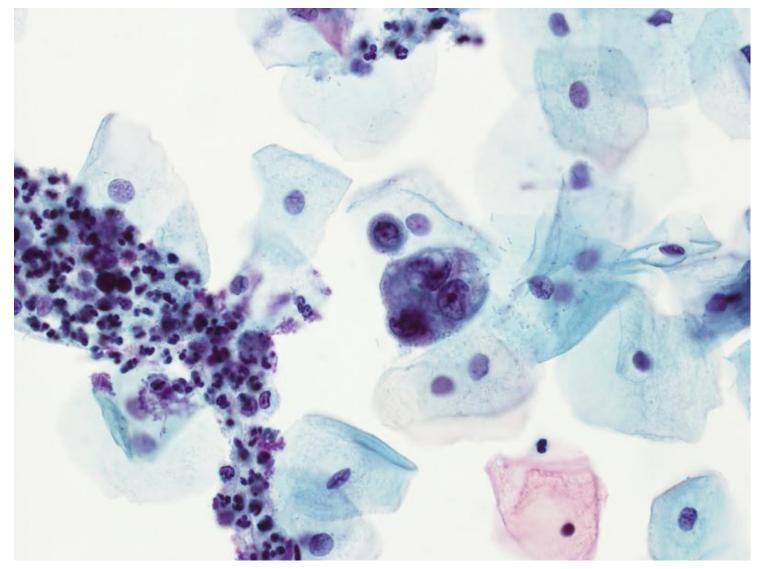
SurePath



CASE 5 Opinions A. Tubal metaplasia

- B. Adenocarcinoma in situ (AIS)
- C. Atypical Endocervical Cells (AGC)
- D. HSIL





Opinions A. Degenerate endometrial cells

B. Endometrial adenocarcinoma

C. IUCD cells

D. Endocervical adenocarcinoma

CASE 6