




Objectives

After this session on glandular lesions in Pap tests, should be able to:

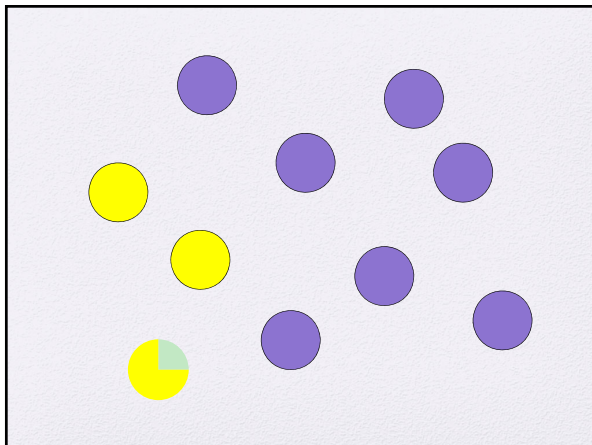
1. Design an approach to glandular lesions in your practice
2. Distinguish benign mimics from abnormal glandular cells
3. Apply criteria for diagnostic categories

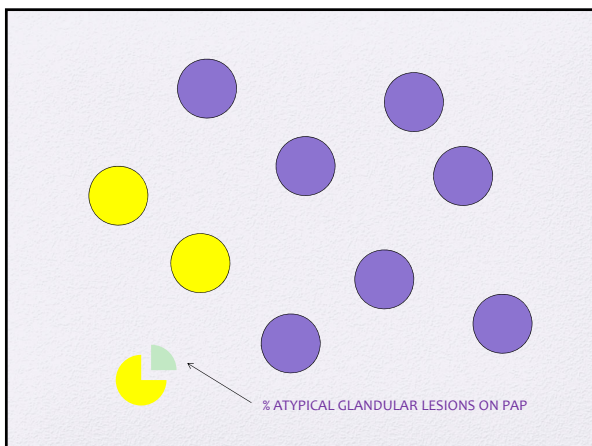


Background

- Pap test screening for SIL
- **Reduction** of cervical squamous cell ca
- Pap test: not great for glandular especially endometrial
- **Increase** in cervical adenocarcinoma







Relevance Glandular Lesions

- Although only < 2% of cases
- Results in 80% headaches!
- Significant management difference
 - not a repeat Pap
 - referral – colp/gyn



Bethesda Classification

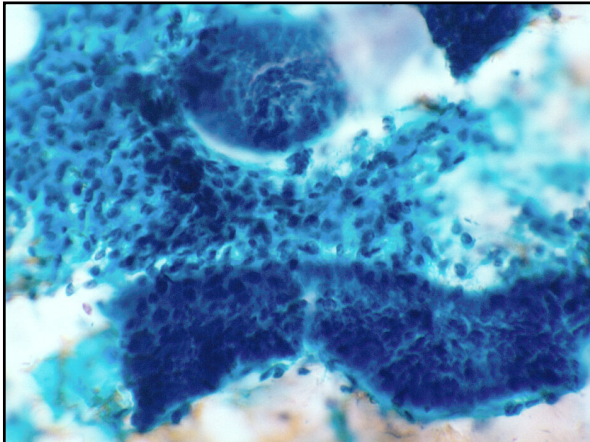
GLANDULAR ABNORMALITIES

	NOS	Neoplastic	AIS	Adenoca
Endocervical	+	+	+	+
Endometrial	+	*		+
Glandular Cells	+	+		+

* For Ontario Guidelines, not Bethesda

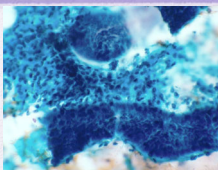
CASE 1

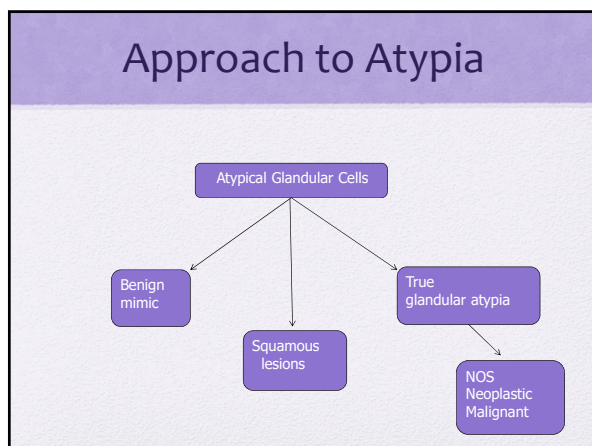
- 34 year old female
- Follow-up Pap test
- Post cone biopsy for HSIL
- LMP: day 10

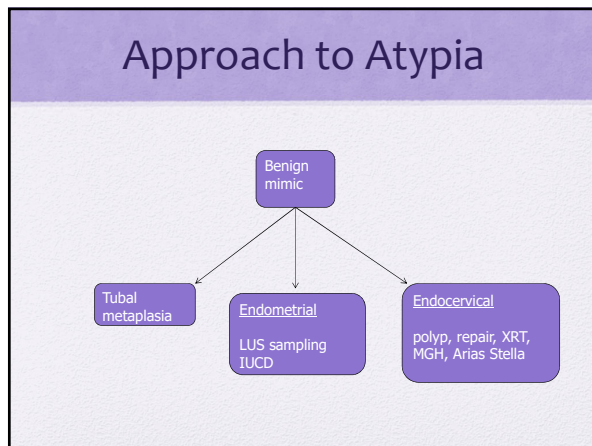


Your diagnosis

- a) HSIL
- b) AIS
- c) Adenocarcinoma, endometrial
- d) LUS sampling
- e) Atypical endocervical cells, neoplastic







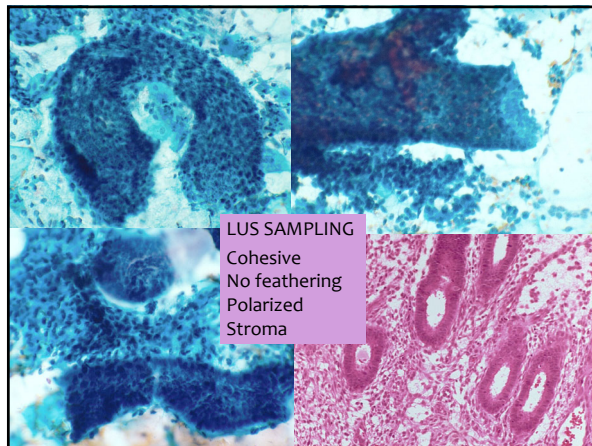
Is There Glandular Atypia?

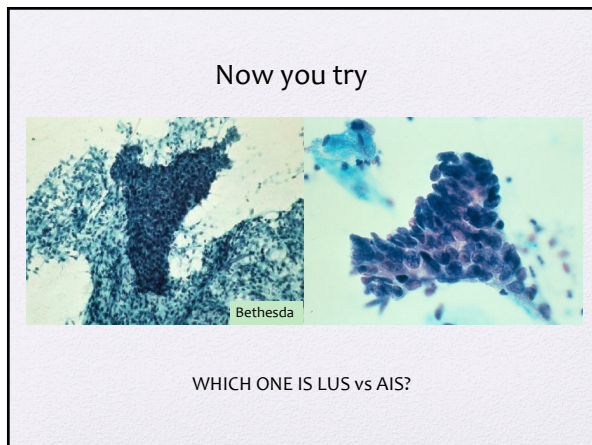
- 3 IMPORTANT CRITERIA benign vs. neoplastic

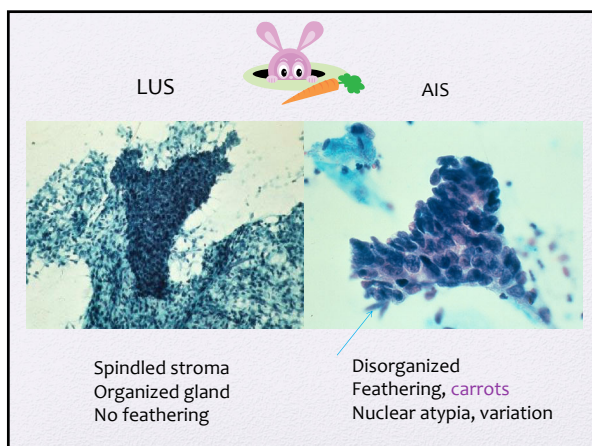
1. Irregular nuclear outline
2. Atypical single cells
3. Reduced cytoplasm amount (increased N/C)

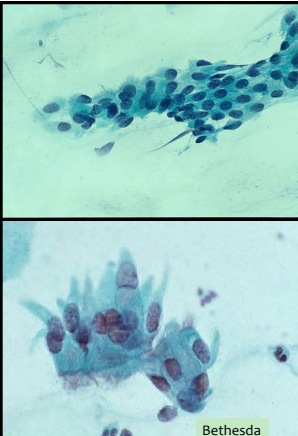
Diagnostic Criteria

LUS SAMPLING	AIS
<ul style="list-style-type: none"> • Honeycomb, overlapping • Sheets, glands <ul style="list-style-type: none"> - uniform, tightly packed • Pseudostratification • Nuclear atypia • Small cells, scant cytoplasm • Biphasic - stroma 	<ul style="list-style-type: none"> • Crowding, overlapping • Strips • Feathering • Rosettes • Pseudostratification • Nuclear atypia (carrots)





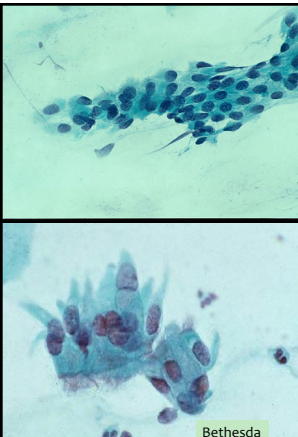




Now you try

- a) HSIL
- b) AIS
- c) Tubal metaplasia
- d) LUS sampling
- e) Atypical endocervical cells, NOS

Bethesda



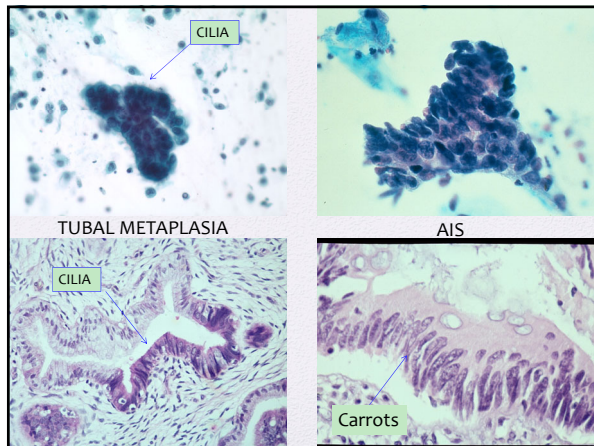
Now you try

- a) HSIL
- b) AIS
- c) Tubal metaplasia
- d) LUS sampling
- e) Atypical endocervical cells, NOS

Bethesda

Diagnostic Criteria

TUBAL METAPLASIA	AIS
<ul style="list-style-type: none"> Crowding, overlapping Strips, groups Cilia, terminal bars 	<ul style="list-style-type: none"> Crowding, overlapping Strips Feathering
<ul style="list-style-type: none"> Pseudostratification Nuclear atypia (rounder) 	<ul style="list-style-type: none"> Rosettes Pseudostratification Nuclear atypia (carrots)



Management

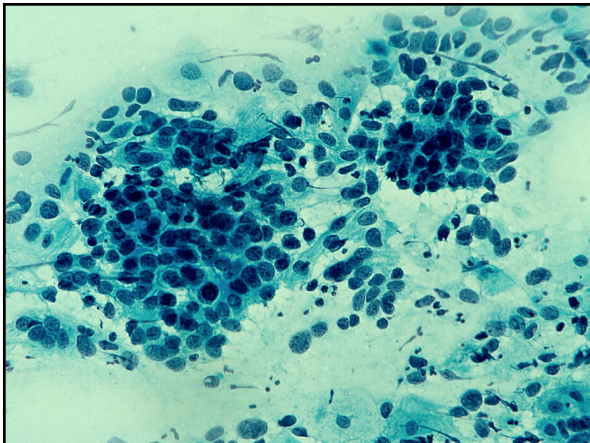
- LUS sampling → Routine screening
- Tubal metaplasia

RULE IN A
BENIGN MIMIC

Remember
LUS sampling
Tubal metaplasia

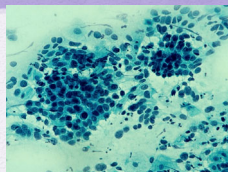
CASE 2

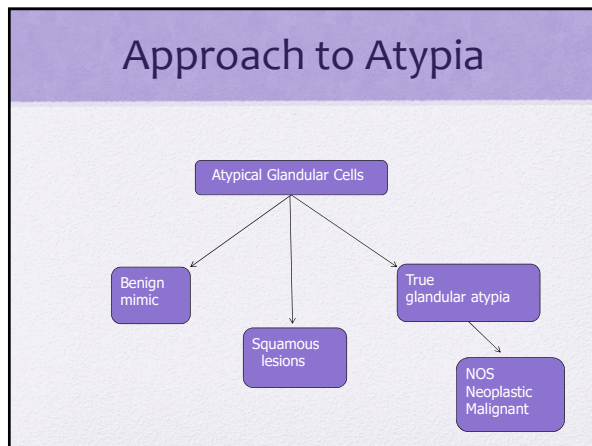
- 31 year old female
- Colposcopy Pap test
- Referred for abN Pap
- LMP: now day 15



Your diagnosis

- a) HSIL
- b) AIS
- c) Adenocarcinoma, endometrial
- d) LUS sampling
- e) Atypical endocervical cells, neoplastic



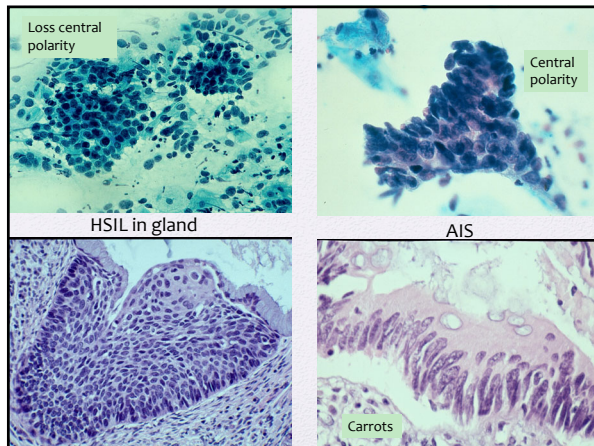


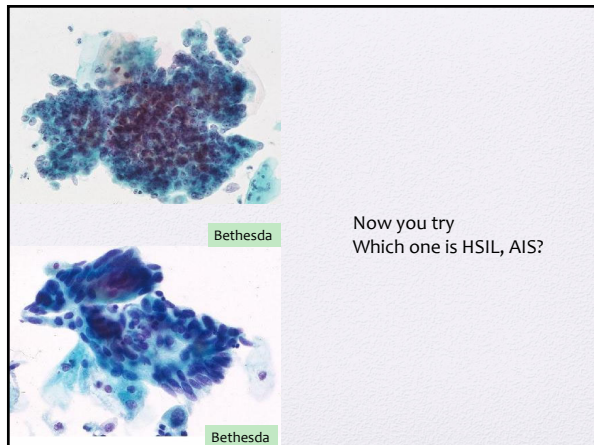
Squamous Lesions

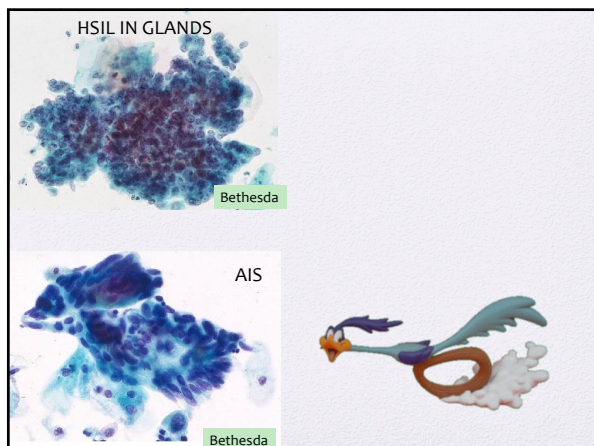
- Atypical glandular cells on Pap
 - 10-40% are HSIL on investigation
- HSIL involves endocervical glands
- Mix – squamous & glandular in group

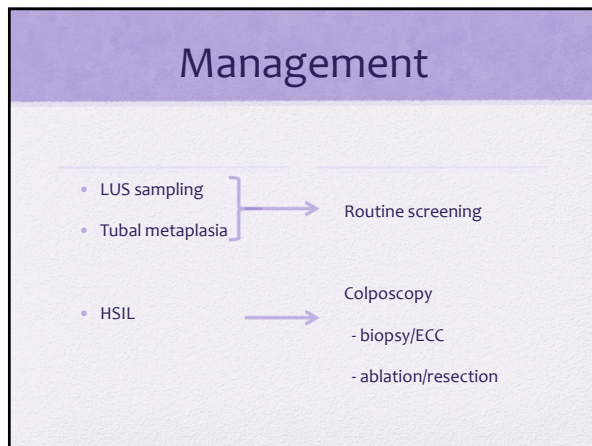
Diagnostic Criteria

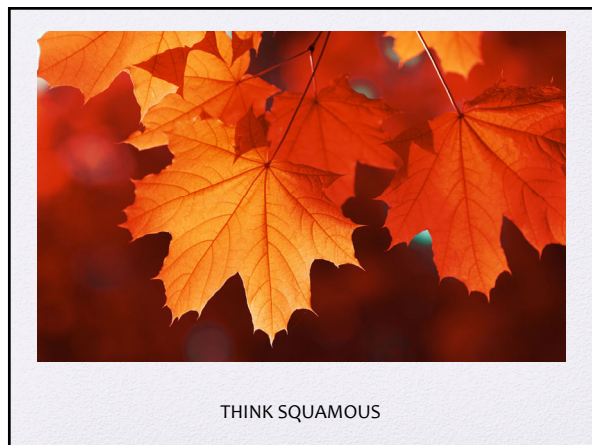
HSIL in glands	AIS
<ul style="list-style-type: none"> • Sheets, depth of focus • Focal feathering • Loss of central polarity • Hard edge, dense cytoplasm • Central nuclei • Single HSIL background • Beware: nucleoli 	<ul style="list-style-type: none"> • Strips, rosettes • Diffuse feathering • Maintain central polarity • Crowded columnar cells • Basal carrot nuclei • Nucleoli possible







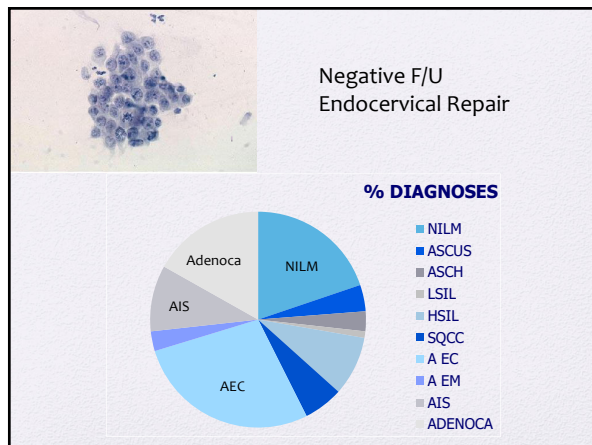




CASE 3

- 42 year old female
- Routine Pap test
- LMP: now day 20





Atypical Endocervicals	
NOS	NEOPLASTIC
<ul style="list-style-type: none"> Atypia exceeds reactive or reparative changes Lack unequivocal features of AIS, adenoca Crowding, overlapping Increased N/C ratio Nuclear atypia 	<ul style="list-style-type: none"> Atypia like AIS, adenoca Falls short <ul style="list-style-type: none"> - quantity (too few) - quality (criteria)

Atypical EC NOS

- Examples:
 - **XRT** situation: too much atypia
 - Atypical **repair**
 - **IUCD** changes, but no IUCD

Management

- Benign mimics → Routine screening
- HSIL → Colposcopy
- Glandular atypia → Colposcopy, EC/EM sample
NOS, neoplastic, AIS

Summary

- Glandular atypia **mimics**
 - LUS sampling, tubal metaplasia
 - HSIL in glands
- **Spectrum** of glandular atypia
 - use criteria to classify (NOS, Neopl)
 - colposcopic/gyn referral in all



Take Home Pearls

When considering glandular atypia:

- Rule in **benign** mimics
- Think **squamous**!
- **Respect** (don't ignore) atypia





QUESTIONS?
