

Objectives
9. Discuss the risk factors for breast cancer development
9. Define the high-risk proliferative epithelial lesions of the breast
9. Discuss the histologic criteria for the diagnosis of usual ductal hyperplasia (ADH), atypical lobular hyperplasia (ALH) and LCIS, classic and pleomorphic types
9. Discuss the histologic criteria for the diagnosis of flat epithelial atypia (FEA)
9. Appreciate the clinical significance of high-risk proliferative epithelial lesions of the breast

Outline

- Definition
- ADH
- ALH
- LCIS (and subtypes)
- · Factors that modify risk in patients with atypias
- Issues with accuracy of diagnosis (interobserver variability)
- Molecular pathology/biomarkers in high risk lesions
- · Genetic alterations in proliferative breast lesions
- Management of high risk lesions
- Columnar cell lesions of the breast (CCC, CCH, FEA)

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- "Punched out", neatly rounded geometric spaces (cribriform pattern)
- Round, hyperchromatic, monotonous nuclei
- Complete involvement of the lesional spaces
- Area bound by basement membrane
- Microcalcifications

























	Family	Time since	Risk based on type of
	history	biopsy	AH and age
Nashville Cohort	Increases risk	Risk is greatest during first 10 years, then decreases	Risk for ALH>ADH Constant with age/menopausal status
NHS	No effect	Constant over time	Risk for ALH>ADH more so in young /premenopausal pts
Mayo Clinic	No effect	Constant over time	Risk for ALH=risk for ADH Risk higher in younger pts

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Foun The A Conce	Anagement of High-Risk Lesions Found on Core Biopsy The American Society of Breast Surgeons Consensus Guideline on Concordance Assessment of Image-Guided Breast Biopsies and Management of Borderline or High-Risk Lesions (2016)				
	Lesion	Recommendation	Notes		
	ADH	Surgical Excision	If ADH is focal and completely excised on core biopsy may be observed based on risk assessment and multidisciplinary discussion		
	ALH/LCIS	Surgical Excision or Observation with Clinical and Imaging follow up	Excision is needed if limited sampling, other high risk lesion is present and pathology/imaging correlation is discordant. No margin assessment		
			discordant. No margin assessment		



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Summary In high-risk proliferative lesions of the breast newer insights and new recommendations continue to challenge our preexisting concepts and our understanding of their significance in increasing future breast cancer risk and are expected to lead to improved patient management and outcomes.







