

# Benign papilloma excised at an NAPBC-accredited breast center: analysis of local upgrade rates for use in patient counseling

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## INTRODUCTION

- Until recently, most surgeons have recommended excision of intraductal papillomas (IP) diagnosed on core biopsy, as there is a risk of under-diagnosis of malignancy when IP is identified by core biopsy.
- In more recent series, the rate of upgrade of an IP without atypia (on core biopsy) to malignancy (on excision) is <10%.
- ASBrS and NCCN guidelines allow for observation without excision in select patients with a core biopsy showing IP without atypia.
- The primary objective is to examine our institutional upgrade rate from IP without atypia on needle core biopsy to atypia or malignancy on excisional biopsy.

## METHODS

- Retrospective analysis of patients treated at AAMC from December 2010 to April 2018, with core biopsy showing IP (without atypia), that underwent excision.
- Patients with atypia or papillomatosis in the core biopsy were excluded from the analysis.
- The clinical and radiographic characteristics were recorded for correlation with final diagnosis by excision.

## CONCLUSION

- Based on our study results, we can counsel patients with intraductal papilloma without atypia and concordant imaging that the risk of being upstaged to cancer on excision is quite low.
- This aligns with the recommendations put forth by the American Society of Breast Surgeons 2016 Consensus Statement and NCCN guidelines.
- We continue to recommend excision for any patient with accompanying atypia, large (>1cm) lesion (due to sampling error), palpable, symptomatic, or a peripheral lesion (posterior third of breast). For other patients, observation and excisions are discussed as options.
- Patients who would consider increased surveillance or chemoprophylaxis in light of a diagnosis of atypia may benefit from excision of a papilloma.
- We recommend that other surgeons offering observation rather than excision of intraductal papilloma verify their own institutional rate of upgrade to atypia or malignancy.

## RESULTS

**Table 1. Patient characteristics (n=87)**

Mean age at diagnosis (y)	50
No. of patients with nipple discharge (%)	30 (34.5%)
No. of patients had associated mass on imaging	76 (87.4%)
Average mass size (cm)	0.8
No. of patients with associated microcalcifications (%)	24 (27.6%)

**Table 2. Upgrade rates of intraductal papilloma without atypia on excisional biopsy (n=87)**

	No atypia	Atypia	DCIS	Invasive breast cancer
Patient number (%)	82 (94.3%)	5 (5.7%)	0 (0%)	0 (0%)

**Table 3. Five year literature review of upgrade rates of intraductal papilloma (IP) without atypia on surgical excision**

		No. of IP without atypia that had surgical excision	Upgrade to high risk lesion (ADH,ALH,LCIS,FEA)	Upgrade to DCIS	Upgrade to invasive cancer
2014	Glenn et al	146	25 (17%)		7 (4.7%) cancer
2015	Nakhlis et al	45		2 (4.4%)	1 (2.2%)
2016	Hong et al	234		9 (3.8%)	5 (2.1%)
2016	Pareja et al	171		2 (1.2%)	2 (1.2%)
2017	Tran et al	28	2 (7.1%)	1 (3.6%)	0
2017	Ko et al	135	15 (11.1%)	7 (5.2%)	0
2017	Armes et al	67		5 (7.5%)	0
2017	Seely et al	107	7 (6.5%)	4 (3.7%)	1 (0.9%)
2018	Han et al	398	17 (4.3%)	3 (0.8%)	0
2018	Asirvatham et al	104	8 (7.7%)	4 (3.9%)	0
2018	Zaleski et al	206	17 (8.3%)	8 (3.9%)	0
2018	Leithner et al	62		6 (9.7%)	4 (6.5%)
2018	Kiran et al	136	5 (3.7%)	2 (1.5%)	2 (1.5%)
<b>2019</b>	<b>Tran et al</b>	<b>87</b>	<b>5 (5.7%)</b>	<b>0</b>	<b>0</b>

DCIS = ductal carcinoma in situ, ADH = atypical ductal hyperplasia, ALH = atypical lobular hyperplasia, LCIS = lobular carcinoma in situ, FEA = flat epithelia atypia