

# Physician Advice - Pathology

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Rules for ADH

riskIncreases for upgrade

**Phrase: Risk of upgrade increases if 3 or more foci of ADH**

```
riskIncreases(BxID) :-  
    aDH(BxID, 'Y'),  
    aDHFoci(BxID, N), N >= 3.
```

**Phrase: Risk of upgrade increases if 2 or more foci of ADH (redundant?)**

```
riskIncreases(BxID) :-  
    aDH(BxID, 'Y'),  
    aDHFoci(BxID, N), N >= 2.
```

**Phrase: Risk of upgrade increases if ADH contains calcifications and calcifications are not completely removed (low proportion of abnormality removed)**

```
riskIncreases(BxID) :-  
    aDH(BxID, 'Y'),  
    aDHMicrocalc(BxID, 'Y'),  
    disappearanceCalc(BxID, 'CalcPartiallyRemoved').
```

**Phrase: Risk of upgrade increases if ADH  
cytologic atypia is worrisome**

```
riskIncreases(BxID) :-  
    aDH(BxID, 'Y'),  
    aDHCytologic(BxID, 'Y').
```

# Phrase: Risk of upgrade increases if ADH contains necrosis

```
riskIncreases(BxID) :-  
    aDH(BxID, 'Y'),  
    aDHNecrosis(BxID, 'Y').
```

# Phrase: Risk of upgrade increases if ADH is micropapillary

```
riskIncreases(BxID) :-  
    aDH(BxID, 'Y'),  
    aDHArcH(BxID, micropapillary).
```



Rules for ADH

riskDecreases for upgrade

**Phrase: Risk of upgrade decreases if ADH is incidental and few foci (2 or fewer)**

```
riskDecreases(BxID) :-  
    aDH(BxID, 'Y'),  
    aDHInc(BxID, 'Y'),  
    aDHFoci(BxID, N), N <= 2.
```

**Phrase: Risk of upgrade decreases if ADH is co-existent with papilloma and the abnormality is completely removed (marginal rule?)**

```
riskDecreases(BxID) :-  
    aDH(BxID, 'Y'),  
    papi(BxID, 'Y'),  
    disappearanceAbn(BxID, 'AbnRemoved').
```

Papilloma

riskIncreases for upgrade

**Phrase: Risk of upgrade increases if papilloma has 2 or more foci of atypia**

```
riskIncreases(BxID) :-  
    papi(BxID, 'Y'),  
    papiFoci(BxID, N), N >= 2.
```

Lobular Neoplasia  
riskIncreases for upgrade

# Phrase: Risk of upgrade increases if Lobular neoplasia contains necrosis

```
riskIncreases(BxID) :-  
    lobula(BxID, 'Y'),  
    lCISNecrosis(BxID, 'Y').
```

# Phrase: Risk of upgrade increases if Lobular neoplasia is pleomorphic

```
riskIncreases(BxID) :-  
    lobula(BxID, 'Y'),  
    lCISPleomorphic(BxID, 'Y').
```



**Phrase: Risk of upgrade increases if Lobular neoplasia and if mass was dominant imaging finding**

```
riskIncreases(BxID) :-  
    lobula(BxID,'Y'),  
    domiFinding(BxID,mass).
```

# Phrase: Risk of upgrade increases if Lobular neoplasia and the biopsy is discordant

```
riskIncreases(BxID) :-  
    lobula(BxID, 'Y'),  
    concordancePrio1(BxID, 'D').
```

**Phrase: Risk of upgrade increases LCIS and is florid (marginal rule?)**

```
riskIncreases(BxID) :-  
    lobula(BxID, 'Y'),  
    lCISFlorid(BxID, 'Y').
```

Lobular Neoplasia  
riskDecreases for upgrade

**Phrase: Risk of upgrade decreases if Lobular neoplasia contains **only** atypical lobular hyperplasia and not LCIS**

```
riskDecreases(BxID) :-  
    lobula(BxID, 'Y'),  
    lCISAtypical(BxID, 'Y')  
    lCIS(BxID, 'N').
```

Radial Scar  
riskIncreases for upgrade

**Phrase: Risk of upgrade increases if Radial scar contains atypia**

```
riskIncreases(BxID) :-  
    radial(BxID, 'Y'),  
    radialAtypia(BxID, 'Y').
```

**Phrase: Risk of upgrade increases if radial scar contains atypia and dominant finding is architectural distortion**

```
riskIncreases(BxID) :-  
    radial(BxID,'Y'),  
    radialAtypia(BxID,'Y'),  
    domiFinding(BxID,'arch distortion').
```



Radial Scar

riskDecreases for upgrade

# Phrase: Risk of upgrade decreases if Radial scar is incidental

```
riskDecreases(BxID) :-  
    radial(BxID, 'Y'),  
    radialInc(BxID, 'Y').
```

Epithelial Lesion  
riskIncreases for upgrade

**Phrase: Risk of upgrade increases if  
fibroepithelial lesion and 3 or more mitoses...**

```
riskIncreases(BxID) :-  
    fibro(BxID, 'Y'),  
    fibroMitoses(BxID, '3 or more').
```

**Phrase: Risk of upgrade increases if fibroepithelial lesion and if stromal cellularity is increased around epithelium**

```
riskIncreases(BxID) :-  
    fibro(BxID, 'Y'),  
    fibroCellularity(BxID, 'Marked').
```

**Phrase: Risk of upgrade increases if  
fibroepithelial lesion if there is an infiltrative  
border (marginal rule—not common)**

```
riskIncreases(BxID) :-  
    fibro(BxID, 'Y'),  
    fibroBorder(BxID, 'Y').
```

**Phrase: Risk of upgrade increases if  
fibroepithelial lesion and if stromal atypia is  
moderate or marked**

```
riskIncreases(BxID) :-  
    fibro(BxID, 'Y'),  
    (fibroAtypia(BxID, 'Moderate');  
     fibroAtypia(BxID, 'Marked')).
```

**Phrase: Risk of upgrade increases if  
fibroepithelial lesion if stromal cellularity is  
moderate or marked and the stromal atypia is  
moderate or marked**

```
riskIncreases(BxID) :-  
    fibro(BxID, 'Y'),  
    (fibroCellularity(BxID, 'Moderate');  
     fibroCellularity(BxID, 'Marked')),  
    (fibroAtypia(BxID, 'Moderate');  
     fibroAtypia(BxID, 'Marked')).
```

(This is a superset of previous rules. Are the others  
redundant?)