











Intraductal adenocarcinoma of prostate: differential diagnosis

- High grade PIN
- Invasive adenocarcinoma (Gleason pattern 4 or 5)
- Urothelial carcinoma in situ in prostatic ducts

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Ductal adenocarcinoma of prostate

- Papillae and large glands/cribriform and/or solid areas
- Lined by pseudostratified tall columnar epithelium
- Typically a greater degree of cytological atypia/chromatin irregularity than in acinar subtypes of prostatic adenocarcinoma
- Commonly occurs admixed with acinar adenocarcinoma and rare in pure form (<1% cases)
- Gleason pattern 4 by ISUP; pattern 5 if necrosis

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Radiotherapy effects on prostate cancer

- Foamy vacuolated cytoplasm
- Atophic changes
- Pleomorphic nuclei (including in benign glands)
- 'Grade inflation'
- Immunohistochemistry for basal cell makers remains useful

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Hormonal therapy effects on prostate cancer

- Shrunken glands or single malignant cells
- Xanthomatous cytoplasm
- Pyknotic fragmented nuclei
- Mucin extravasation
- [Benign glands show marked atrophy, basal cell hyperplasia +/- squamous metaplasia]

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