

Bosniak Category	Imaging Features (5)	General Population	Co-morbidities or Limited Life Expectancy
I*	Hairline–thin wall; no septa, calcifications, or solid components; water attenuation; no enhancement	Ignore	Ignore
II	Few hairline–thin septa with or without perceived (not measurable) enhancement; fine calcification or a short segment of slightly thickened calcification in the wall or septa; homogeneously high-attenuating masses ( $\leq 3$ cm) that are sharply marginated and do not enhance	Ignore	Ignore
IIF	Multiple hairline–thin septa with or without perceived (not measurable) enhancement, minimal smooth thickening of wall or septa that may show perceived (not measurable) enhancement, calcification may be thick and nodular but no measurable enhancement present; no enhancing soft-tissue components; intrarenal nonenhancing high-attenuation renal masses ( $> 3$ cm)	Observe <sup>††</sup>	Observe <sup>†</sup> or ignore <sup>§</sup>
III	Thickened irregular or smooth walls or septa, with measurable enhancement	Surgery <sup>  </sup>	Surgery <sup>  </sup> or observe <sup>†</sup>
IV	Criteria of category III, but also containing enhancing soft-tissue components adjacent to or separate from the wall or septa	Surgery <sup>  </sup>	Surgery <sup>  </sup> or observe <sup>†</sup>

Figure 1

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<http://radiology.rsna.org/content/249/1/16/T1.medium.gif>