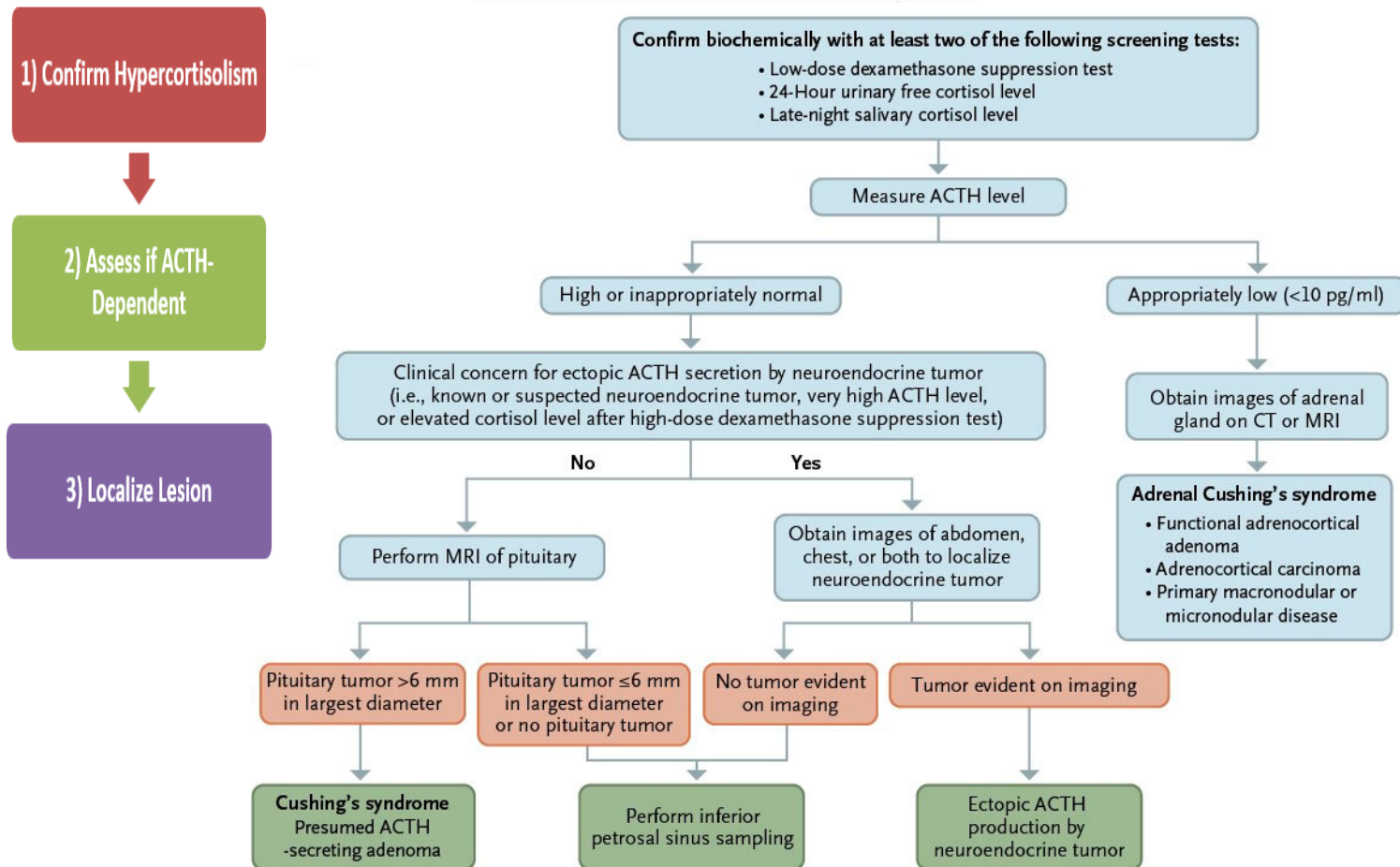


# Cushing's Syndrome



## Treatment of Ectopic Cushing's Syndrome

Medication	Mechanisms	Comments*
Metyrapone	Inhibits 11 $\beta$ -hydroxylase, an enzyme responsible for the final step in cortisol synthesis	May cause abdominal discomfort and nausea
Ketoconazole	Is best known as an antifungal agent but can be used off-label to inhibit cortisol synthesis	<ul style="list-style-type: none"> <li>Has a black-box warning for hepatotoxicity</li> <li>Is contraindicated in patients with aminotransferase levels more than three times as high as the upper limit of the normal range</li> </ul>
Levoketoconazole	Is a stereoisomer of ketoconazole that inhibits cortisol synthesis	<ul style="list-style-type: none"> <li>Is associated with hepatotoxicity and prolongation of the corrected QT interval</li> <li>Unlike ketoconazole, does not have a black-box warning</li> </ul>
Etomidate	<ul style="list-style-type: none"> <li>Is best known as a general anesthetic but can be used off-label for severe hypercortisolemia (inhibits 11<math>\beta</math>-hydroxylase)</li> <li>Is administered as a continuous intravenous infusion</li> <li>Has a rapid onset of action</li> </ul>	<ul style="list-style-type: none"> <li>Is associated with the risk of sedation</li> <li>Requires intravenous administration</li> <li>Requires close monitoring in the intensive care unit</li> </ul>
Mitotane	<ul style="list-style-type: none"> <li>Is typically used as chemotherapy for adrenocortical cancer</li> <li>Can suppress adrenocortical hormone production</li> </ul>	<ul style="list-style-type: none"> <li>Has a black-box warning for adrenal crisis</li> <li>Has toxic effects that can include hepatotoxicity, nausea, diarrhea, hyperlipidemia, ataxia, and bone marrow suppression</li> <li>May induce cytochrome P-450 3A4 (CYP3A4) activity, leading to interaction with other medications</li> </ul>
Mifepristone	Is a progesterone and glucocorticoid-receptor antagonist	<ul style="list-style-type: none"> <li>Is associated with hypokalemia and hypertension</li> <li>Is associated with endometrial thickening</li> </ul>
Osilodrostat	Inhibits 11 $\beta$ -hydroxylase, the enzyme responsible for the final step in cortisol synthesis	Also inhibits aldosterone synthase