

Evidence Discussion (Neck 8.3)

Parathyroid Imaging

- The purpose of parathyroid imaging is to aid in localizing hyperfunctioning parathyroid gland(s) for the purpose of curative surgery. Imaging has no role in the diagnosis of hyperparathyroidism.
- There may be a need for more than one modality in the localization of a parathyroid adenoma as studies have shown because no one modality is superior over others,
- The sensitivity and PPV of imaging modalities will vary in different situations, such as whether the patient has a single parathyroid adenoma or if multiple parathyroid glands are involved, if the imaging is for an initial surgical intervention versus a re-operation, and whether the patient has primary, secondary, or tertiary hyperparathyroidism.

References

1. ACR Appropriateness Criteria Parathyroid Adenoma, New 2021. <https://acsearch.acr.org/docs/3158171/Narrative/>.
2. Bilezikian, J.P., Khan, A.A., Silverberg, S.J., Fuleihan, G.E.-H., Marcocci, C., Minisola, S., Perrier, N., Sitges-Serra, A., Thakker, R.V., Guyatt, G., Mannstadt, M., Potts, J.T., Clarke, B.L., Brandi, M.L. and (2022), Evaluation and Management of Primary Hyperparathyroidism: Summary Statement and Guidelines from the Fifth International Workshop. J Bone Miner Res, 37: 2293-2314. <https://doi.org/10.1002/jbmr.4677>