Supplemental Table 1: Bias assessment using QUADAS-2

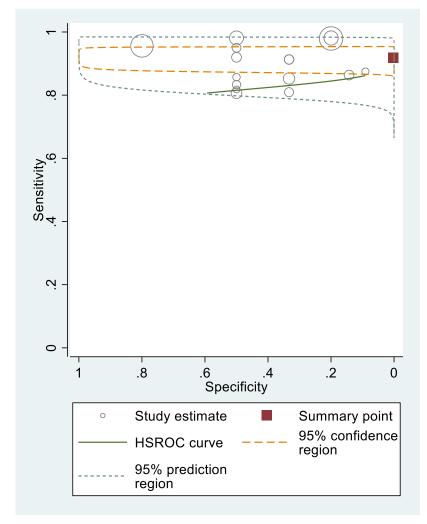| First Author	Year	Risk of Bias				Applicability		
		Patient Selection	Index Test	Reference Standard	Flow and Timing	Patient Selection	Index Test	Reference Standard
Alharbi	2018	High	Low	Low	Low	Low	Low	Low
Amadou	2019	High	Low	Low	Low	Low	Low	Low
Bossert	2019	Low	Low	Low	Unclear	Low	Low	Low
Broos	2019	Low	Low	Low	Unclear	Low	Low	Low
Christakis	2019	Low	Low	Low	Unclear	Unclear	Low	Low
Fischli	2017	Unclear	Unclear	Low	High	Low	Low	Low
Grimaldi	2018	Unclear	Low	Low	High	Low	Low	Low
Hocevar	2016	Low	Unclear	Low	Low	Low	Low	Low
Huber	2018	Unclear	Unclear	Low	Low	Low	Low	Low
Khafif	2019	Low	Low	Low	Unclear	Low	Low	Low
Kluijfhout	2017	Unclear	Low	Low	Low	Low	Low	Low
Kluijfhout	2016	Unclear	Unclear	Low	Low	Low	Low	High
Lezaic	2014	Low	Low	Low	Low	Low	Low	Low
López-Mora	2020	Low	High	Low	Unclear	Low	High	Low
Michaud	2014	Unclear	Low	Low	Low	Low	Low	Low
Piccardo	2019	Low	Low	Low	Unclear	Low	High	Low
Quak	2018	Unclear	Low	Low	Low	Low	Low	Low
Thanseer	2018	Low	Low	Low	Low	Low	Low	Low
Uslu-Beşli	2020	Unclear	Low	Low	Low	Low	Low	Low
Zajíčková	2019	Unclear	Low	Low	Unclear	Low	Low	Low

Supplemental Figure 1: Summary of sensitivity, specificity, and hierarchical summary receiver-operating-characteristic (HSROC) plot of sensitivity/specificity for FCH vs. pathology in studies reporting primary hyperparathyroidism only. Effect size for sensitivity and specificity was 0.94 (95% CI, 0.92–0.97) and 0.14 (95% CI, -0.08–0.36), respectively. Size of circles represents size of individual studies.

Supplemental Figure 2: Effect Size for FCH vs Pathology Sensitivity