References from the literature search that were not retained had a poor study design, were not relevant to the topic, or had unclear or biased results.

**Search Strategy**

1. ("Society of Radiologists" and "masses").tw. (4)
2. *Soft-Tissue neoplasms/ (17465)
3. exp diagnostic imaging/ and 2 (5046)
4. algorithm.tw. and 3 (33)
5. 1 or 4 (37)
6. limit 5 to yr="2000 -Current" (33)

**Search Strategy**

1. Muscle Neoplasms/ or Soft Tissue Neoplasms/ or sarcoma/ or lipoma/ (59176)
2. exp diagnostic imaging/ and 1 (15274)
3. Muscle Neoplasms/dg or Soft Tissue Neoplasms/dg or sarcoma/dg or lipoma/dg (6949)
4. 2 or 3 (15553)
5. Muscle Neoplasms/di or Soft Tissue Neoplasms/di or sarcoma/di or lipoma/di (12379)
6. 4 or 5 (22227)
7. limit 6 to (abstracts and english language) (12625)
8. limit 7 to yr="2017 -Current" (2022)
9. limit 8 to "all child (0 to 18 years)" (449)
10. 8 not 9 (1573)
11. limit 10 to case reports (740)
12. 10 not 11 (833)
13. limit 12 to animals (74)
14. 12 not 13 (759)
15. Biomarkers/ or Biomarkers, Tumor/ (460416)
16. 14 not 15 (659)

**Summary**

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