Appendix

Table 1. Patients who underwent radiologist performed diagnostic imaging after having Point-of-Care Ultrasound performed by the Emergency Room Physician (POCUS: point-of-care ultrasound)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **POCUS for Appendicitis** | **None** | **Ultrasound** | **CT** | **Ultrasound and CT** | **Ultrasound and MRI** |
| POCUS (+) | 2 | 6 | 13 | 3 | 0 |
| POCUS (-) | 17 | 21 | 19 | 8 | 1 |

Table 2. Imaging findings of patients who underwent Point-of-Care ultrasound imaging and were ultimately found to be falsely positive (POCUS: point-of-care ultrasound; Gold standard: pathology, laparoscopy, CT scans, radiologist performed ultrasounds)

|  |  |  |
| --- | --- | --- |
| **False Positive Patients** | **POCUS Findings** | **Gold Standard Findings** |
| 53 Female | Appendicitis | Terminal ileitis on CT |
| 22 Female | Appendicitis | Ruptured ovarian cyst on CT |
| 44 Female | Non-compressible blind ending loop >6mm | Radiologist performed ultrasound inconclusive; Renal Colic on CT |
| 20 Male | Appendicitis | Radiologist performed ultrasound inconclusive; CT showed normal appendix |
| 50 Female | Ruptured appendicitis | Cecal diverticulitis with mild appendiceal inflammation on CT |
| 18 Female | Appendicitis | Radiologist performed ultrasound inconclusive; Normal appendix on CT |

Table 3. Imaging findings of patients who underwent Point-of-Care ultrasound imaging and were ultimately found to be falsely negative (POCUS: point-of-care ultrasound; Gold standard: pathology, laparoscopy, CT scans, radiologist performed ultrasounds)

|  |  |  |
| --- | --- | --- |
| **False Negative Patients** | **POCUS Findings** | **Gold Standard Findings** |
| 87 Female | Appendix not visualized | Perforated appendicitis on CT |
| 35 Male | Limited views of RLQ; inconclusive | Appendicitis on radiologist performed ultrasound and pathology |
| 20 Female | No blind ending non-compressible loops | Appendicitis on radiologist performed ultrasound and laparoscopy |
| 53 Female | Appendix not visualized | Appendicitis on CT and laparoscopy |
| 18 Female | Appendix not visualized | Appendicitis on radiologist performed ultrasound and pathology |
| 25 Female | Trace free fluid in right lower quadrant | Appendicitis on CT and pathology |
| 27 Male | Appendix not visualized | Appendix not visualized on radiologist performed ultrasound; CT confirmed appendicitis |
| 36 Female | Appendix not visualized | Appendicitis on CT |

Table 4. Contingency table of patients who underwent Point-of-Care Ultrasound to diagnose appendicitis (POCUS: point-of-care ultrasound; Gold standard: pathology, laparoscopy, CT scans, radiologist performed ultrasounds)

|  |  |  |
| --- | --- | --- |
|  | **Gold Standard** | |
|  | **Appendicitis** | **No Appendicitis** |
| POCUS (+) | 18 | 6 |
| POCUS (-) | 8 | 58 |