

Hospital Equipment Analysis

Analysis

Equipment count: The ICU had the most equipment purchased between 2020 and 2023. 47 pieces of equipment were purchased by the department out of a total of 100 equipment purchases made by the hospital.

Average cost: The radiology department had the highest average cost of equipment from 2020 to 2023. The average cost was \$1,704,345, which was significantly higher than the other departments.

Equipment status: Out of 100 pieces of equipment, 89 were working, 8 were under repair and 3 were out of service. Of the 8 under repair, 7 were from the radiology department.

Total cost: The total cost in 2020 was \$31,825,000 which dramatically fell to \$9,540,300 in 2021. It stayed roughly the same in 2022 and fell even further to \$4,833,700 in 2023.

Visualizations

Figure 1. Count of equipment purchased in each department

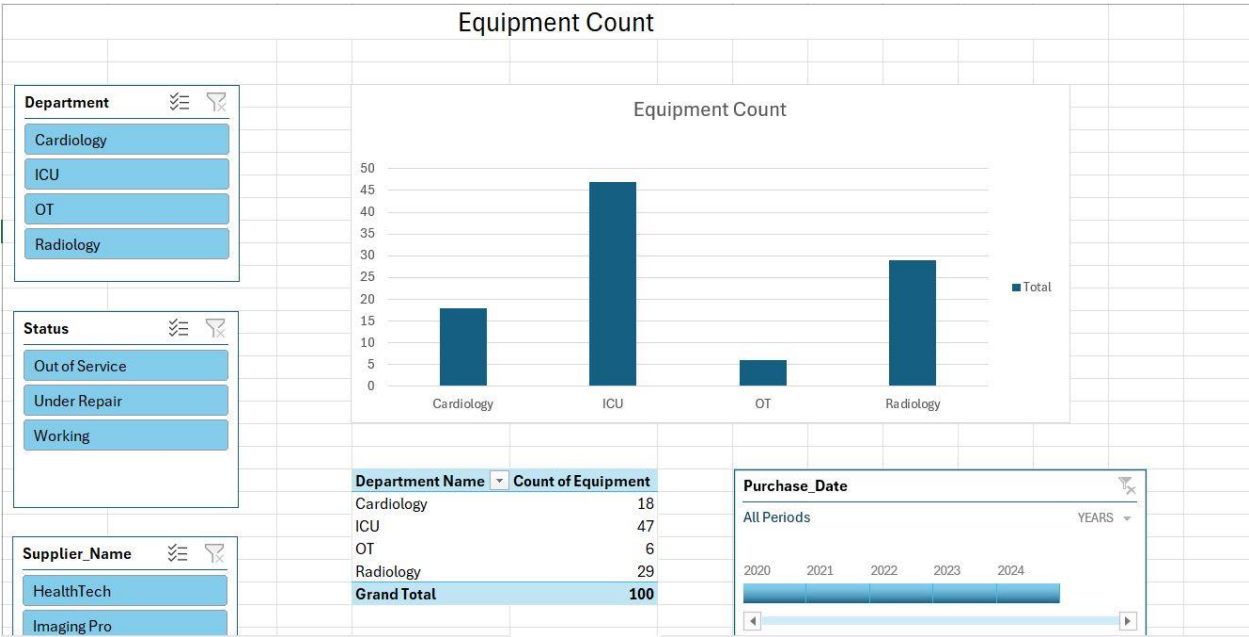


Figure 2. Average cost for each department

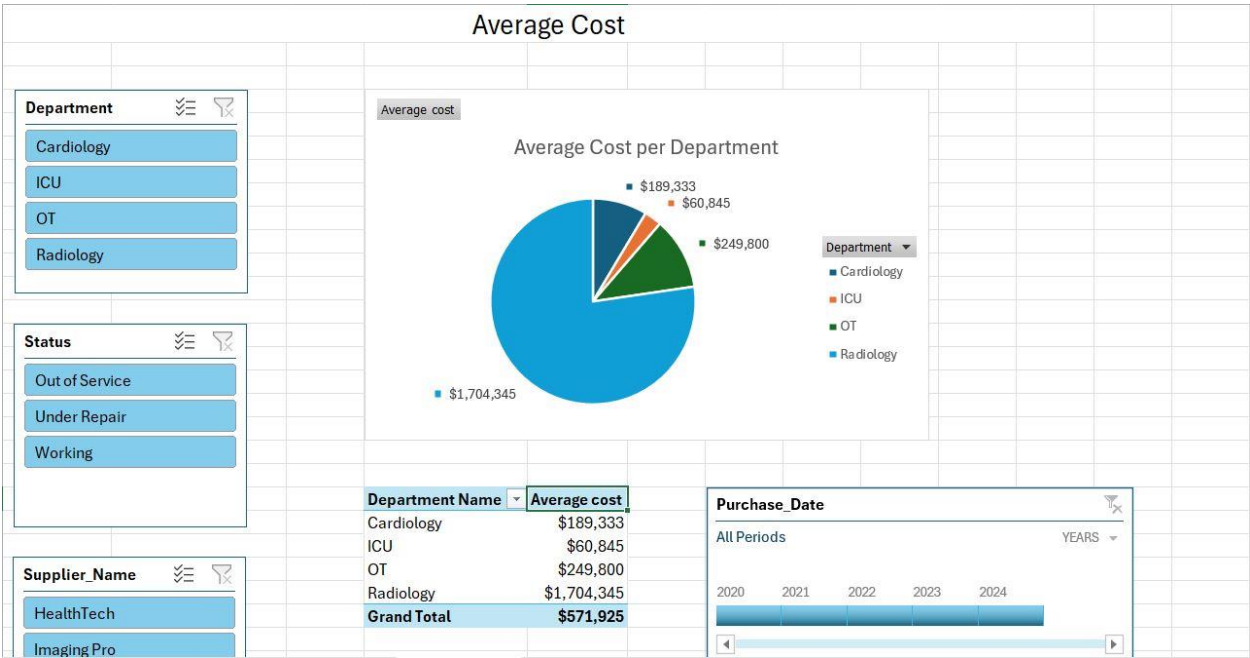


Figure 3. Status of equipment

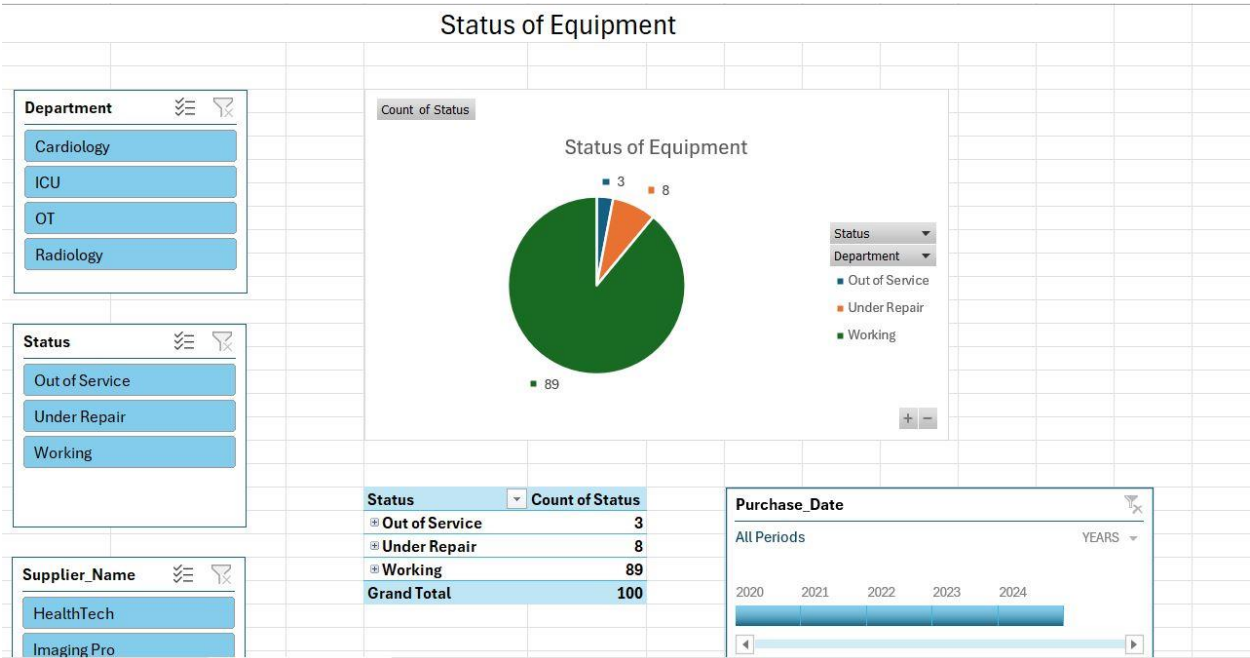


Figure 4. Total cost for each year



Insights

The radiology department had the highest average cost because CT and MRI machines are very expensive. The cost was highest in 2020 because that's when most of this equipment was purchased. The total cost for the radiology department over the 4 years is \$49,426,000 which represents a majority of the entire cost of equipment which is \$57,192,500.

The radiology department also had the most equipment under repair which represents a high opportunity cost. The 5 MRI and CT machines under repair accounted for a total of \$18,290,000 of equipment that is not being used.

Greater attention needs to be given to maintaining the radiology equipment since it is very expensive.