

Improving the Retrieval Rate of Inferior Vena Cava Filters

**Impact of Inferior Vena Cava Filter Retrieval in the
Office Endovascular Center**

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Hypothesis

If an Office Endovascular Center (OEC) is available and utilized by a medical community and a follow-up plan is established, then the rate of IVC filter retrievals will increase



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Study Design

Study Type: Retrospective analysis

Intervention: Chart review (n=191 pts)

Selection Criteria: all patients with an implanted IVC filter placed and/or removed at Bronson, Borgess, or Advanced Vascular Surgery (AVS)

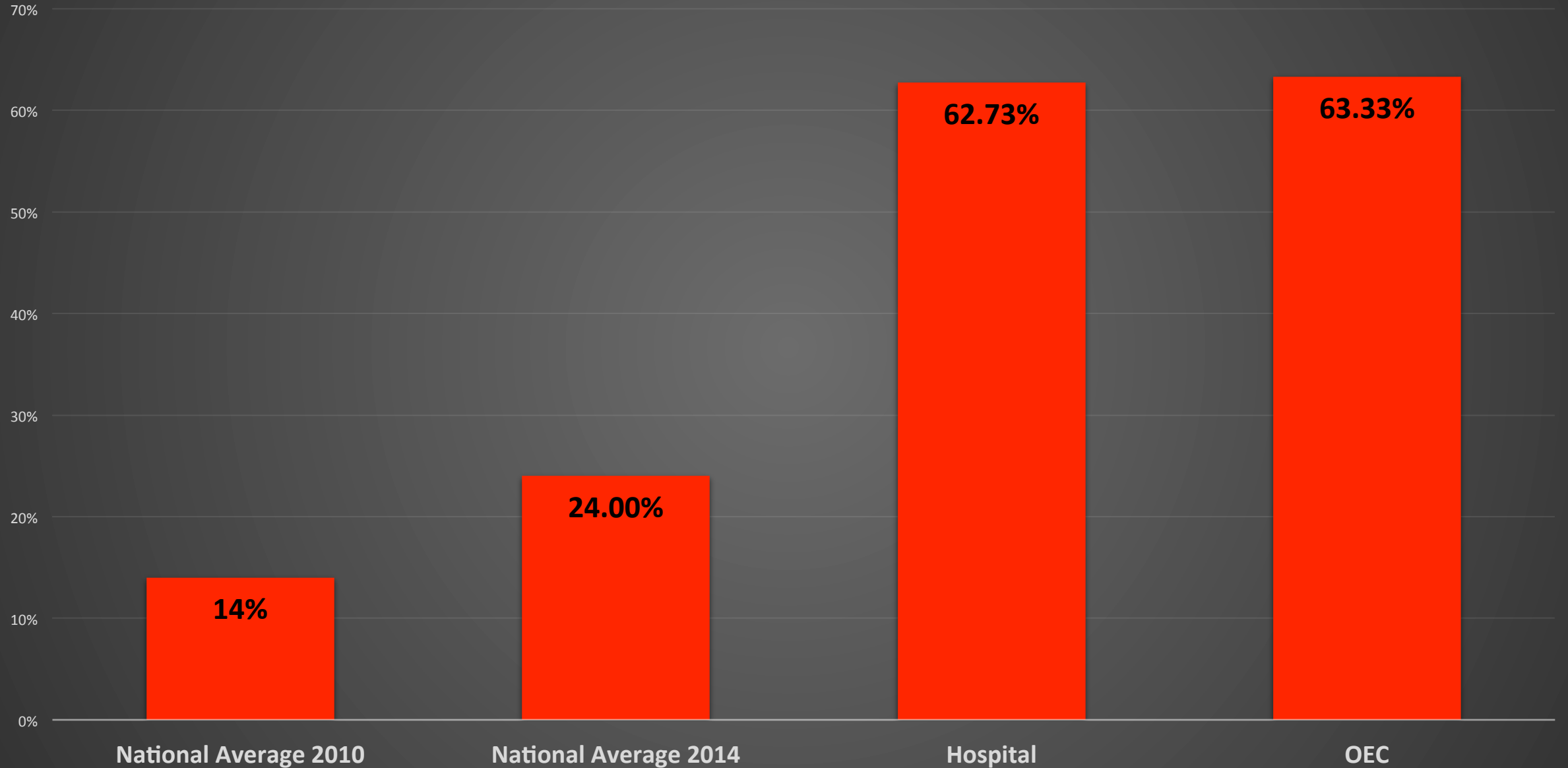
Time range: Jan. 2011 – Feb. 2017

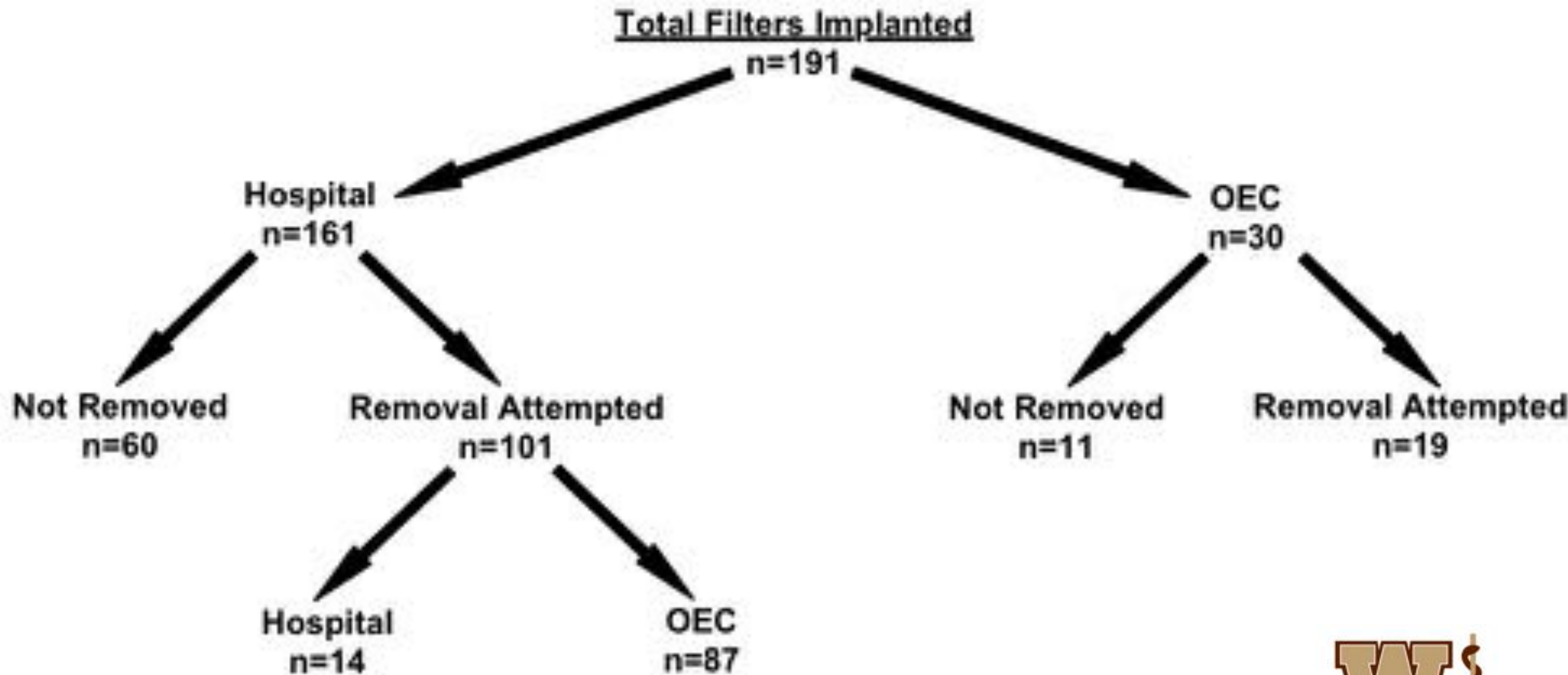
Outcome measures: success/failure of IVCF retrieval, setting of procedures, complications, ordering service, indication for filter, comorbidities, duration of filter placement, filter type, retrieval plan

IRB Exempt status



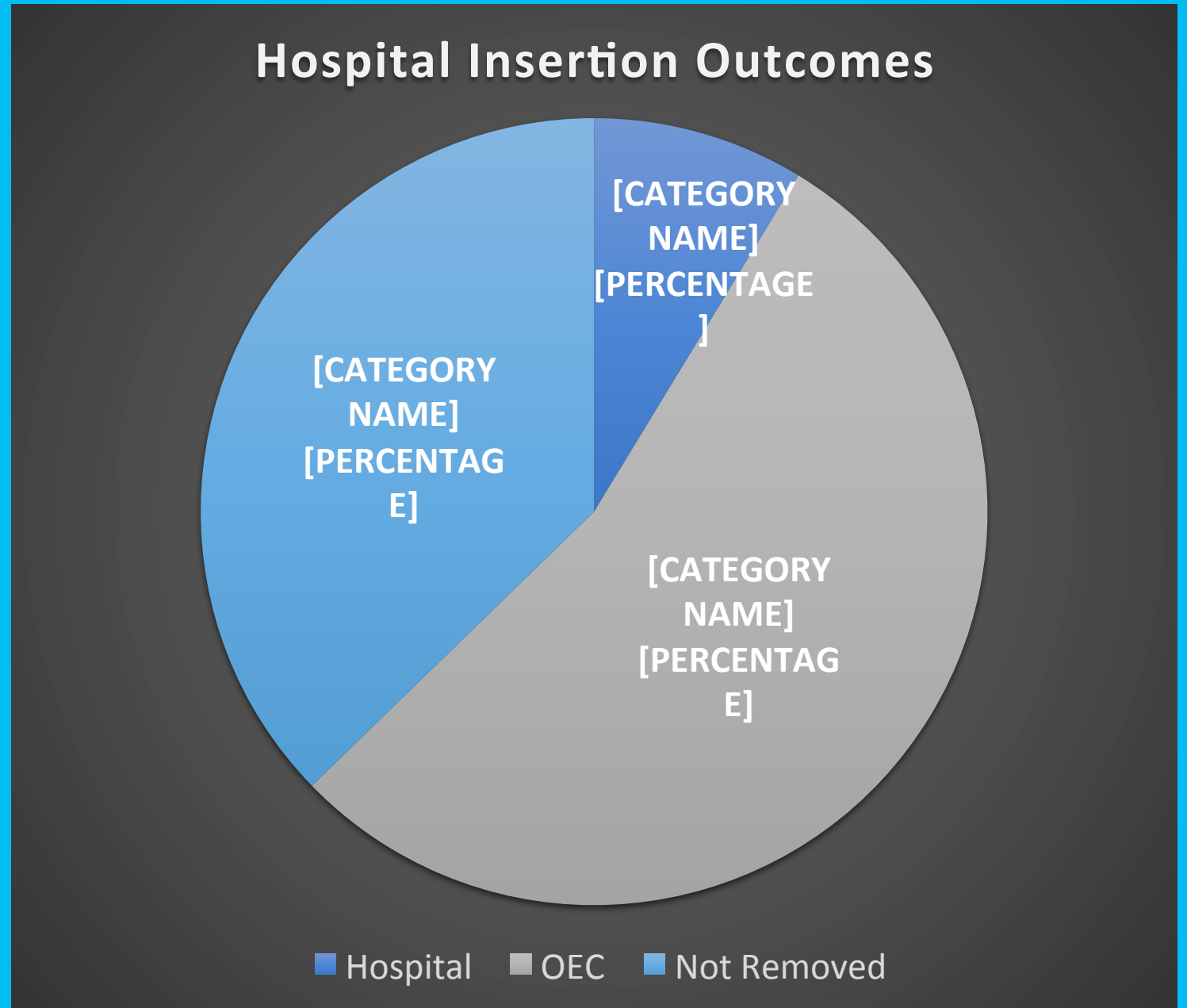
IVCF Removal Rates





Results

Filters inserted in hospital

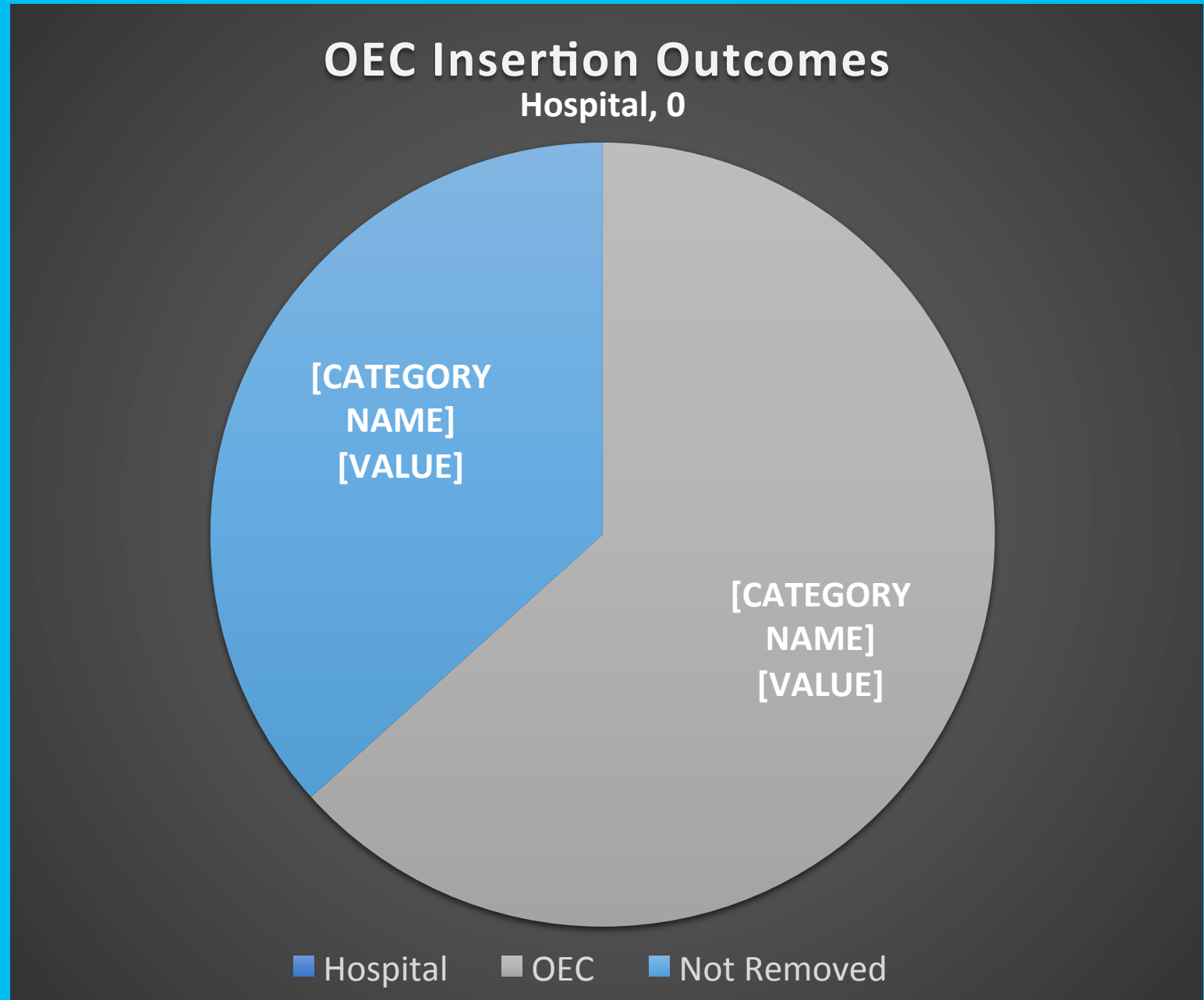


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Results

Filters inserted in OEC



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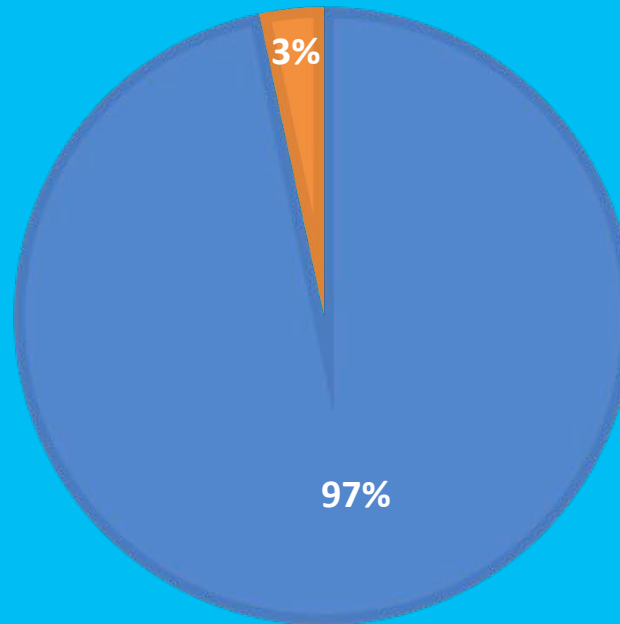
Results

Documented retrieval plan in place

+OEC removals

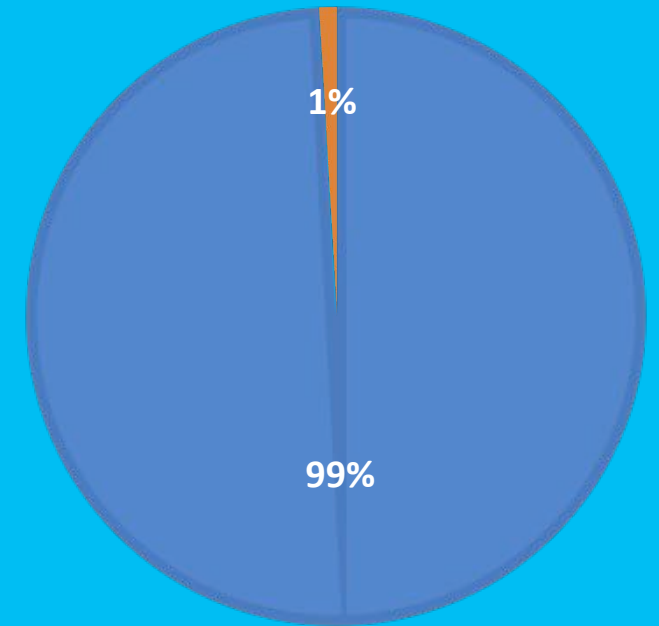
RETRIEVAL PLAN IN MEDICAL RECORD

■ Found ■ Not Found



RETRIEVAL PLAN IMPACT ON REMOVAL RATES

■ Plan + Removal ■ Plan - Removal

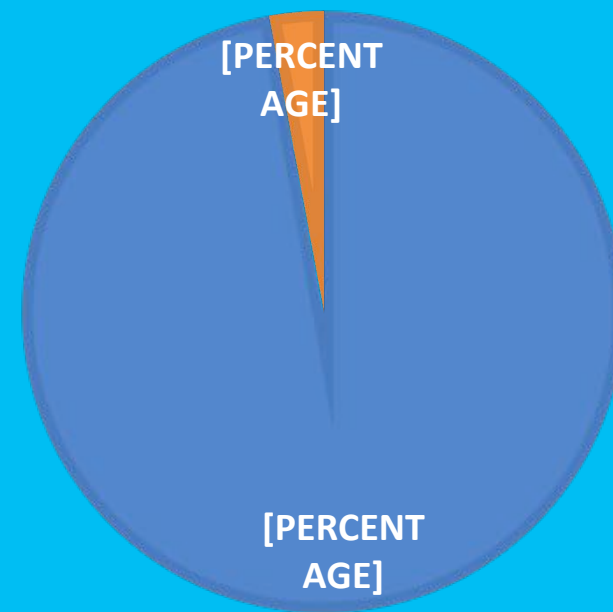
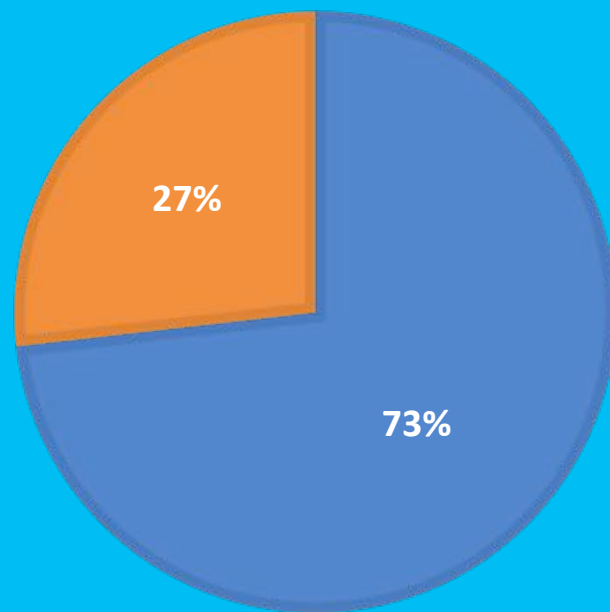


Results

Success of filter removal in OEC setting

NATIONAL SUCCESS RATE OF IVCF REMOVAL SUCCESS RATE OF IVCF REMOVAL IN OEC

■ Successful Removal ■ Unsuccessful Removal ■ Successful Removal ■ Unsuccessful Removal



National Rates: Al-Hakim, R., Kee, S. T., Olinger, K., Lee, E. W., Moriarty, J. M., & McWilliams, J. P. (2014). Inferior Vena Cava Filter Retrieval: Effectiveness and Complications of Routine and Advanced Techniques. *Journal of Vascular and Interventional Radiology*, 25(6), 933-939. doi:10.1016/j.jvir.2014.01.019



Conclusions

- OEC access increases IVCF removal rate
- Follow-up protocol in place correlates with higher removal rates
 - OEC's with low complication and high success rate for IVCF removal



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