# Successful Implementation of Osteopathic Principles in Practice (OPP)

#### INTRODUCTION

- In the Single Accreditation System (SAS), residency programs can highlight their training in Osteopathic Principles and Practice (OPP) by achieving Osteopathic Recognition (OR) from the Accreditation Council for Graduate Medical Education (ACGME).<sup>1</sup>
- Having OR status means that programs emphasize holistic patient care and teach residents in the tenets of Osteopathic practice.<sup>2</sup>
- Since the inception of the SAS, the number of surgical or specialty-based programs achieving OR has been low (Figure 1).<sup>3</sup>

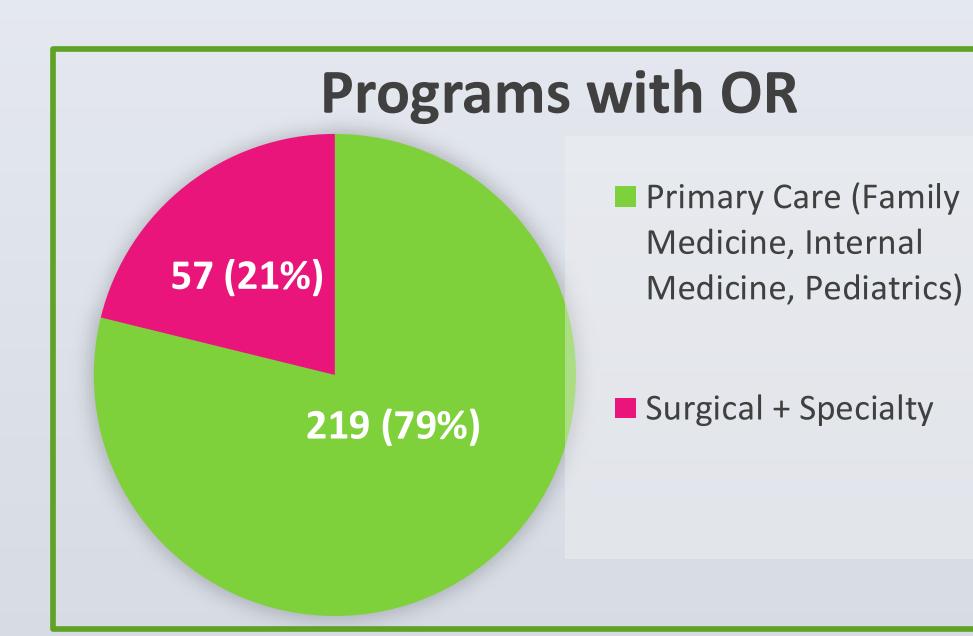


Figure 1: Percentage of Primary Care Programs vs Non-Primary Care Programs that have achieved Osteopathic Recognition or applied for Osteopathic Recognition from the American Council for Graduate Medical Education, as of date: March 7, 2025

There is currently a lack of literature addressing the effectiveness of implementing OPP in specialty residencies.

#### **OBJECTIVES**

Our goal was to demonstrate the efficacy of the Anesthesia program achieving OR through assessments of feedback from resident and faculty surveys and **ACGME OR Review Committee citations.** 

Hypothesis:

• The Anesthesia program would be able to exhibit success in Osteopathic Recognition through analysis of its programing, with few citations, and be looked at positively by residents/faculty.

#### **METHODS**

This study explored the efficacy of an Anesthesiology program at a community based, mid-sized hospital in the midwest implementing an OPP curriculum (Table 1) and achieving OR status utilizing the following methods:

- 1. A comparison of the resident responses on the annual ACGME OR program survey before and after the program achieved OR Continued- Accreditation status in September of 2022. Statistical differences were determined using chisquare tests, with p-value set at 0.05 (Table 2).
- 2. A descriptive report of ACGME OR review committee citation letters issued throughout the process of this program receiving Continued OR status.
- 3. Results from a program-administered Likert-based anonymous survey (Table 3) on the OPP programing utilizing a validated "Return on Learning"<sup>4</sup> survey among faculty, residents and administrative staff of the program. For analysis, the responses "strongly disagree", "disagree", and "neutral" were combined and "agree" and "strongly agree" were combined.

## in an Anesthesiology Program

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#### **METHODS CONTINUED Osteopathic Principles in Practice (OPP) Implementation in the Anesthesia** Curriculum **ACGME OR Competencies Curriculum Implementation** • OMM Labs with real-world focus with topics including: . **OPP-Patient Care** structural evaluation and mobility, pre assessment testing/airway structure and mechanics, perioperative/ postoperative care and complications • Associate OMM clinic • Clinical Osteopathic Recognition Training Exam ii. OPP-Medical Knowledge (CORTEX) OMM assessments • Pre-Admission Testing and Peri-Anesthesia Unit OPP iii. OPP-Systems Based Practice performance Osteopathic Journal Club iv. OPP-Practice Based-Learning OPP Grand Rounds • Required OMM logs v. OPP-Professionalism • Clinical Instructor opportunities • OPP didactics performance • OPP on Clinical Rotations vi. **OPP-Communication** Table 1: Osteopathic Curriculum implemented in an anesthesia program based on ACGME competencies, OMM= Osteopathic Manipulative Medicine RESULTS **1. ACGME OR Program Survey CHI-SQUARED TESTS FOR PRE VS. POST OR RECOGNITION** CHI-QUESTION SQUARED VALUE VALUE Do you receive an adequate education in OPP in the Hospital/Inpatient Setting? 0.069 3.31 Do you receive an adequate education in OPP in Clinic/Outpatient Setting? 0.138 0.71 0.31 1.032 Do you receive an adequate education in OPP in Didactic Setting? Do you receive an adequate education in OMM, as applicable to your 0.069 3.31 specialty/subspecialty in Hospital/Inpatient Setting? 0.71 0.138 Do you receive an adequate education in OMM, as applicable to your specialty/subspecialty in Clinic/Outpatient setting? Do you receive an adequate education in OMM, as applicable to your 1.032 0.31 specialty/subspecialty in Didactic Setting? To what extent do you feel your non-osteopathic faculty members and staff are 1.246 0.264 supportive of osteopathic residency/fellowship education? To what extent do you feel your osteopathic faculty members role model the 0.082 3.028 integration of OPP? To what extent do you feel you are supervised by osteopathic faculty members? \* 4.506 0.034 To what extent do you feel you are evaluated on OPP? \* 4.367 0.037 0.666 0.414 To what extent do you feel your program supports you to explore scholarly activity that integrates OPP? Table 2: Accreditation Council for Graduate Medical Education annual survey questions Pre and Post Osteopathic Recognition chi-squared test results, \* indicates statistical significance • In the most recent ACGME survey from 2023-2024, 100% residents reported that they "probably would select" or "definitely would select" an OR residency again. • After program received Continued OR status respondents felt: • There was more supervision by osteopathic faculty members, $(x^2 = 4.506, p-value 0.034)$ • There was more evaluation in OPP, $(x^2 = 4.367, p-value 0.037)$ 2. ACGME OR Review Committee Citation Letters

• This program received minimal administrative citations regarding clerical errors, resources, appointment policies, and evaluations. No citations regarding the structure or curriculum were received.

#### **RESULTS CONTINUED 3. Return on Learning Likert Survey**

Being in an Osteopathic Recognized program is relevant to my work?

The OR curriculum provides me with information (or clarifies previous Osteopathic information)?

I intend to use what I learn from the curriculum?

I am knowledgeable about OPP in re to the field of anesthesia?

I am knowledgeable about OMM in relation to the field of anesthesia?

The faculty is knowledgeable about

The faculty is helping me learn more information regarding OPP/OMM?

The Osteopathic Learning environm conducive to learning?

Table 3: Faculty, Residents and Administrative Staff Responses to the Program-administered Likert-based Anonymous Survey on the Osteopathic Principles in Practice Programing

- program in achieving OR status from ACGME.
- settings in specialty practice.

- and success of the Osteopathic Profession.
  - 1. Single GME Transition. American Osteopathic Association. Accessed June 18, 2024. doi

  - Accessed Aug 8, 2023. doi:h
  - 4. Phillips JJ, Phillips PP. Handbook of Training Evaluation and Measurement Methods. 4th Ed. Routledge; Philidelphia, 2016.





	Strongly Disagree + Disagree + Neutral	Agree + Strongly Agree
	9, (69.2%)	4, (30.8%)
new		
	7, (53.8%)	6, (46.2%)
OR	8, (61.5%)	5 <i>,</i> (38.5%)
lation	6, (46.2%)	7, (53.8%)
	7, (53.8%)	6 <i>,</i> (46.2%)
OPP?	5, (38.5%)	8, (61.5%)
	5, (38.5%)	8, (61.5%)
ent is	5, (38.5%)	8, (61.5%)

#### DISCUSSION

4 of 13 (30.8%) agreed or strongly agreed (3,1) that "Being in an Osteopathic Recognized program is relevant to my work." 7 of 13 (53.8%) agreed or strongly agreed (6,1) that "they are knowledgeable about OPP in relation to the field of anesthesia." 8 of 13 (61.5%) agreed or strongly agreed (4,4) that "The Osteopathic Learning environment is

conducive to learning."

• The minimal citations received and absence of citations regarding the OR curriculum from the OR-review committee demonstrates the success of this

The responses from the Likert survey indicate that OR status has been successful in increasing residents' knowledge of OPP and OMM in hospital/ outpatient

• The program successfully showed continual improvement in supervision and evaluation of residents in OPP as seen in the ACGME OR Program Survey results.

There was discrepancy between the resident's likelihood of choosing an OR program again (at 100% in the ACGME survey) and believing OR had "relevancy to work" (at 31% in the Likert survey). To explain this discrepancy, there may be intangible, difficult to measure factors in OR, such as camaraderie, that contribute to this, and residents may associate OR with OMM over OPP.

#### CONCLUSIONS

Osteopathic Recognition was shown to be a tangible and attainable way for ACGME residency programs to differentiate themselves by offering valuable Osteopathic training and a learning environment that enhances residents' OPP/OMM skills, even in specialized fields like Anesthesia.

Expanding these programs in specialty areas is crucial for the continued growth

#### RFFFRENCES

ACGME Osteopathic Recognition Standards. Accreditation Council for Graduate Medical Education. 2022, March 21.

3. List of Programs that Applied for Accreditation Under the Single Accreditation System by Specialty. Accreditation Council for Graduate Medical Education.

### ACKNOWLEDGEMENTS

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