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Overlapping and Concurrent Surgery in Plastic Surgery Training Programs: A Program Director Survey

The practice of double-booking surgery has garnered national attention. A 2015 *Boston Globe* exposé launched this practice into public consciousness and it quickly became a subject of controversy.¹ Many patients were shocked to learn their surgeon may not be present throughout their entire operation.² Advocates argued such practices are critical in the transition from trainee to surgeon.³

The American College of Surgeons and the American Society of Plastic Surgeons stated their positions on such practices, both making critical distinctions between overlapping and concurrent surgery.^{4,5} During overlapping operations, the surgeon is present for predetermined “critical” portions, and noncritical portions are delegated to qualified assistants/trainees. During concurrent operations, the surgeon delegates one critical portion to a qualified assistant/trainee in

order to perform a critical portion of a different case contemporaneously. Both groups expressed concerns regarding concurrent surgery and emphasized the need for informed consent in both practices. Nevertheless, concerns for unlawful billing moved the Senate Finance Committee to publish a report criticizing variations in definitions, stressing the need for disclosure, and demanding robust oversight.²

While the discussion continues, academic plastic surgeon perspectives remain uncharacterized. To address this, we developed a survey to assess program directors’ perspectives, evaluate institutional policies, and determine the prevalence of overlapping/concurrent surgery. Institutional review board approval was obtained for a 17-item survey that was distributed to all 102 plastic and reconstructive surgery program directors. Three survey rounds yielded a response rate of 61 percent ($n = 62$).

Results indicate that overlapping/concurrent surgery practices in plastic and reconstructive surgery training programs are evolving, with 56 percent of program directors reporting a policy change within the last 5 years. A majority (81 percent) of programs have a policy regarding such practices. While 79 percent allow overlapping surgery, 73 percent prohibit concurrent surgery (Fig. 1). Overlapping surgery occurs weekly in many programs, and regional frequencies were similar (Fig. 2). Overlapping surgery is viewed favorably by program directors, most of whom believe it has a positive effect on training, access to plastic surgeons, and billing (Fig. 1). Concurrent surgery perspectives/practices were not evaluated, as the practice was widely prohibited. Despite progress, policies regarding overlapping/concurrent

Overlapping and Concurrent Surgery Practices and Perceptions

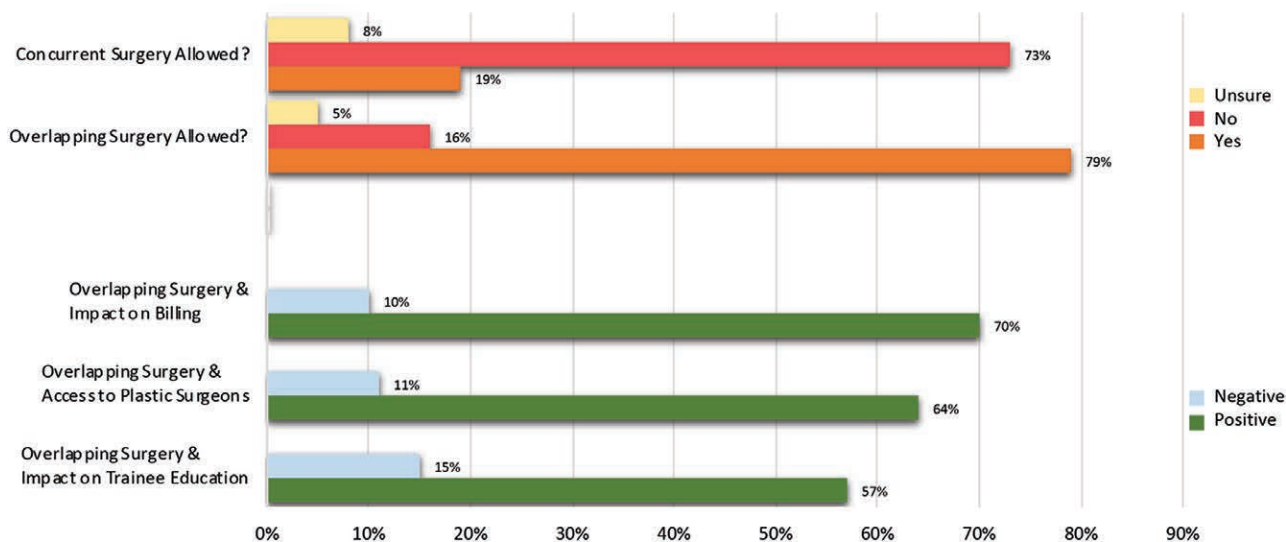


Fig. 1. Overlapping and concurrent surgery practices and perceptions. Relative percentages of overlapping and concurrent surgery practices in plastic and reconstructive surgery training programs across the United States, as well as program director perceptions of the impact of overlapping surgery on various areas.

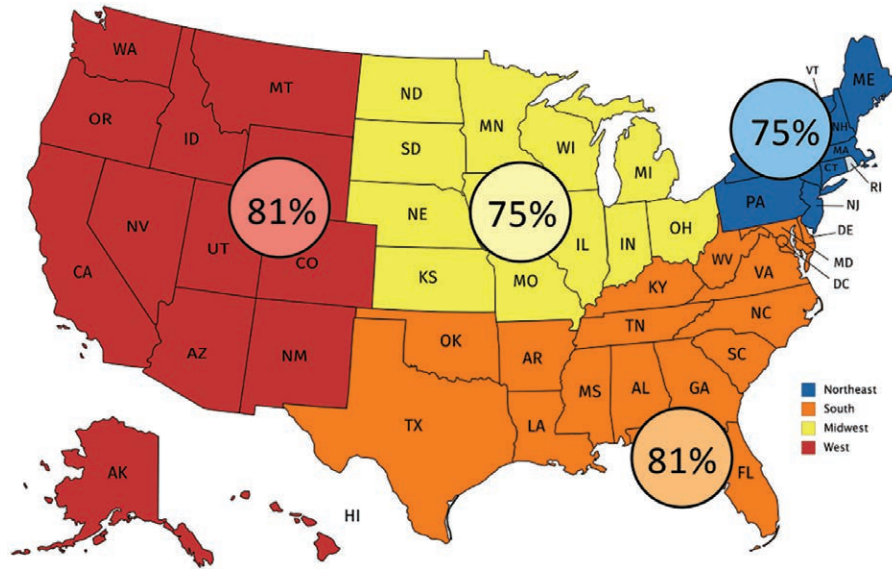


Fig. 2. Regional permissibility of overlapping surgery. Percentage of institutions that allow overlapping surgery by region. The Northeast subgroup included Maine, New Hampshire, Vermont, New York, Massachusetts, Connecticut, Rhode Island, Pennsylvania, and New Jersey. The South subgroup included Delaware, Maryland, District of Columbia, Virginia, West Virginia, Kentucky, Tennessee, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Louisiana, Arkansas, Oklahoma, and Texas. The Midwest subgroup included Ohio, Indiana, Michigan, Illinois, Wisconsin, Minnesota, Iowa, Missouri, Kansas, Nebraska, South Dakota, and North Dakota. The West subgroup included New Mexico, Colorado, Wyoming, Montana, Idaho, Utah, Arizona, Nevada, California, Oregon, Washington, Hawaii, and Alaska.

concurrent surgery require refinement and standardization across training programs. A minority (40 percent) of program directors reported a requirement for patient disclosure, validating Senate Finance Committee concerns shared by the public.² A minority (32 percent) reported a requirement for electronic medical record documentation, presenting an obstacle to future investigation.

Going forward, we advocate for adoption of the American Society of Plastic Surgeons recommendations regarding overlapping/concurrent surgery in plastic and reconstructive surgery training programs.⁵ We support overlapping surgery, provided that operative roles and critical portions be incorporated into the informed consent process to protect patient autonomy. During overlapping surgeries, a backup surgeon should be available and documented in the operative report. Concurrent surgery is not recommended, and should be reserved for emergencies during which a backup surgeon should be available for critical portions. To increase transparency and facilitate research, the presence of the primary surgeon during critical portions of the operation should be documented in the operative report. Adopting these policies helps to ensure best practice while maximizing benefit to patients, surgeons, trainees, and the healthcare system.

DOI: [10.1097/PRS.00000000000006492](https://doi.org/10.1097/PRS.00000000000006492)

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DISCLOSURE

No direct funding was provided for this study. The authors declare no financial interests that pose a conflict of interest related to this article.

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