

Disclosures

- I have no conflicts of interest related to this presentation

Defining Anesthesia Services in a Value-based Era

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SAAA

Objectives

- Review current factors driving need for anesthesiology support
- Discuss approaches for hospital-based support of anesthesiology departments
- Examine a proposed model for defining value of anesthesiology-based services

The problem...

- Anesthesiology departments increasingly dependent on hospital support
- Current manpower, economic and legislative realities will increase that need
- Hospitals less able/willing to financially support academic missions
- Inadequate resources impact clinical care and patient safety

Status of the Anesthesia Workforce in 2011: Evolution During the Last Decade and Future Outlook

Armin Schubert, MD, MBA,* Gifford V. Eckhout, MD, MBA,† Anh L. Ngo, MD, MBA,†
Kevin K. Tremper, PhD, MD,§ and Mary D. Peterson, MD, MHA||

Anesthesia Analgesia 2012; 115: 407-27

	2000-3*	2004-6*	2007-8*	2009-10*
Anesthesiologist salary (US \$)	317,481	364,758	410,658	423,657*
% change (versus prior year)	3.9	3.0	3.3	—
CRNA salary† (US \$)	145,000	164,000	189,000	—
% change (versus prior year)	NA	5.1	2.2	—
Hospital operating rooms	29,735	30,830	31,721	32,290
Medicare-certified surgery centers‡	9620	12,220	13,452	NA
Surgery center operating rooms‡	9620	12,220	13,452	NA
No. of active surgeons§	127,100	133,796	135,854	127,100
Estimated demand growth¶	1.5%-2.0%	1.5%	0.5%-1.0%	0
Medicare case mix index¶	1.0	1.17	1.19	—
Median ASA units/anesthesiologist/year§	—	11.394	11.202	12.575*
Median no. of cases/anesthesiologist/year¶	1021	1007†	851	—

Number operating rooms, CMI, salaries and productivity increasing over time....

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Year (data)†	Private sector median income (MGMA)†	%Δ†	Academic median income (MGMA)	%Δ†	Meritt Hawkins‡	%Δ‡	Academic institutional support*	%Δ*
1999	244,091	—	176,156	—	—	—	—	—
2000	279,977	14.7	194,375	10.3	—	—	34,300	—
2001	281,963	0.7	198,413	2.1	278,000	—	—	—
2002	305,676	8.4	—	—	290,000	4.3	60,000	75†
2003	317,481	3.9	220,144	11.0†	300,000	3.4	86,000	43
2004	321,686	1.3	240,489	9.2	303,000	1.0	98,000	14
2005	354,241	10.1	241,655	0.4	306,000	1.0	116,000	18
2006	364,758	3.0	267,881	10.9	300,000	-2.0	120,000	3
2007	398,925	9.4	285,618	6.6	336,000	12.0	126,000	5
2008	410,658	2.9	276,045	-3.3	344,000	3.6	136,000	8
2009	423,657	3.2	299,802	?	331,000	-2.0	159,000	17
2010	404,996	-4.4	?	?	?	?	166,000	4

Institutional support increasing over time.....

Professional Staffing Practice of Academic Anesthesia Departments in the United States

Steven Ginsberg¹, Jonathan Kraidin¹, Christopher Gallagher¹, Don R. Hoover², Alann Solina¹

Table 4. Staffing related problems.		
Staffing Issues	N	%
The average % of clinical assignments that are performed by a faculty member alone	60	11.25
% of institutions indicating that inadequate clinical staffing affects their ability to provide adequate faculty non-clinical time	62	74.2
% of institutions indicating that inadequate clinical staffing affects their ability to provide maximal resident educational experience	62	48.39
% of institutions indicating that inadequate staffing creates situations where patient safety is compromised secondary to suboptimal supervisory ratios	62	32.26
% of institutions indicating that inadequate staffing creates obstacles to providing vacation time for faculty	62	38.71
% of institutions reporting that they occasionally supervise 3 simultaneous anesthesia sites	60	7
% of institutions reporting that they only supervise one clinical site at a time	60	1.7

Open Journal of Anesthesiology 2013

System in crisis.....

The Consequences: Hospital Relationship

- Dependence on hospital support erodes department autonomy
 - staffing patterns, resident workforce, service /site choices i.e. preop clinic
- Hospital focus on clinical service and costs
 - Lack of clarity around financial drivers (call, remotes, OR block policies)
 - Lack of aligned interest in academic missions
 - Poor understanding of opportunity in leveraging anesthesiologist expertise
- Negotiations may be difficult and strain relationship
 - Hospital emphasis on *support* rather than *contributions*
- Stigma of “charity”
- Competition from external groups offering economies of scale

Table 4. Summary of Article

Executive Opportunities for Cost Reduction

1. **Reduce Departmental Involvement:** Faculty roles in non-clinical activities (e.g., research, teaching, and administrative) are being reduced. Anesthesiologists' roles are being redefined (e.g., medical director of perioperative department, clinical director of perioperative department, etc.).

2. **Non-Clinical Care:** Anesthesiologists' roles are being redefined (e.g., medical director of perioperative department, clinical director of perioperative department, etc.).

3. **Research Opportunities:** Anesthesiologists' roles are being redefined (e.g., medical director of perioperative department, clinical director of perioperative department, etc.).

4. **Medical Director of Perioperative Department:** Anesthesiologists' roles are being redefined (e.g., medical director of perioperative department, clinical director of perioperative department, etc.).

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Strategies for Net Cost Reductions with the Expanded Role and Expertise of Anesthesiologist in the Perioperative Surgical Home

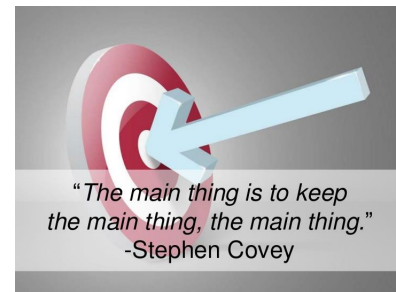
Dexter F et al Anesth Analg 2014; 118:1062-1071

Local Anest. 2012; 34(5): 448-55. doi: 10.1097/ACM.0b013e318244396a
Perspective: Hospital support for anesthesiology departments: aligning incentives and improving productivity.
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- A. “Availability” services.....manpower intensive with inadequate revenue opportunities to cover costs (On-call teams, Pre-op / PACU, Directorships, OB...)
- B. “Productivity” services.....can be managed for high efficiency (Elective OR locations, High case-density sites i.e. GI endoscopy)
- C. “Remote” services.....anesthetizing locations that may have low case density and are inherently inefficient but may be necessary (Interventional radiology, cath lab, EP lab...)

SAAA Salary and Practice Survey...are these comparisons helpful?

- Compensation by rank
- Number of FTEs, part-time FTEs and academic FTEs
- Number of positions to be filled by subspecialty
- Number of residents in the program
- Amount of weekend call
- Number of CRNAs (does not specify CAAs)
- Pain RVUS generated and number of clinic sessions
- ICU covered by faculty and trainees
- Faculty and resident assignments by specialty each day
- Patients seen in preop clinic by provider type



C suite objectives....their “main thing”



Proposed survey measures

- What does your department produce?
 - Takes into account staffing ratios, scheduling density, OR utilization...
 - Recommend separate analysis each for OR, CCM and Pain services
- What does it cost your department to produce it?
 - Takes into account resident numbers, staffing ratios, compensation, NC time
 - Can include overhead, admin costs, preop, PACU, etc.
 - Helpful to split out call (availability) costs as “cost of doing business”
- Likely not useful to benchmark nationally due to unique local factors

OR Rack report template

Units
Base Units
Qualified units
Time units
Cost units
Expenses
Cash Compensation
Physicians
Base
Variable
Anesthetists
Nurses
Administrative
Assessment /Overhead
Other Operating
Total Operating Expenses
Total Operating Expenses/Res Call
Total FTEs
Total FTEs/Res Call PACU & Pre Op
Call FTEs
PACU/Pre-Op FTEs
Anesthetist FTEs
Total Units/Physician FTE
(Units/Res FTE and PACU/Pre-Op/FTE)
Physician Comp/FTE
Base/FTE
Variable/FTE
Overhead/Comp/FTE
Physician Comp/Total Units
Base Comp/Total Units
Var Comp/Total Units
Call Expense
Practice Expense/Total Units

- Used to track year over year operating expenses
- Productivity data used to support comp and hiring
- Base/variable itemization used to target 80/20% ratio
- Administrative costs itemized separately for practice
- Call expenses include pre and post-call time
- Preop and PACU FTEs may be listed separately
- Useful to compare academic and private groups

Discussion

- Is this approach generalizable?
- Is this approach helpful for hospital negotiation?
- Could/should this be used for benchmarking externally?
- What details are missing?