







August 5, 2024

Lynne Tanoue, MD Chair, Pulmonary Disease Board

Laura Evans, MD Chair, Critical Care Medicine Board

American Board of Internal Medicine 510 Walnut Street, Suite 1700 Philadelphia, PA 19106

Dear Drs. Evans and Tanoue,

On behalf of the Association of Pulmonary and Critical Care Medicine Program Directors (APCCMPD), the American College of Chest Physicians (CHEST), the Society of Critical Care Medicine (SCCM), and the American Thoracic Society (ATS), we extend our gratitude for the opportunity to provide feedback to the American Board of Internal Medicine (ABIM) Pulmonary Disease Board and the Critical Care Medicine Board regarding the procedural requirements outlined in the ABIM Policies for Training and Procedural Requirements for Pulmonary Disease and Critical Care Medicine.

As noted in our June 10, 2024 letter, we developed a survey aligning with the Accreditation Council on Graduate Medical Education (ACGME) core requirements outlined in the ACGME Program Requirements for Graduate Medical Education in Pulmonary, Critical Care Medicine (CCM), and Pulmonary Critical Care Medicine (PCCM)^{1, 2, 3}. These requirements stipulate that fellows must demonstrate knowledge of the indications, contraindications, and complications of various procedures rather than achieving competency as mandated by the ABIM Policies.

This survey was distributed to 288 Pulmonary Diseases, CCM, and PCCM fellowship training programs, with an overall response rate of 163 (57%). Per the ACGME Data Resource Book Academic Year 2022-2023⁴, there were 66 CCM training programs with 358 CCM fellows, 202 PCCM training programs with 2,268 PCCM fellows, and 22 Pulmonary training programs with 65 Pulmonary fellows in 2023. We present these program characteristics so that the data can be interpreted within the context of the number of trainees and training programs potentially impacted by future changes to procedural training requirements.

Each program was asked to provide their opinion on whether the ABIM should require fellows to perform each procedure competently before graduation, recommend competent performance, remove the procedure from the list of required procedures or ensure fellows have the opportunity to train in the procedure, and requiring only those fellows who intend to use a particular procedure in their future practice. Enclosed are the survey results (Appendix 1).

• The majority of respondents recommended requiring procedural competence in advanced cardiac life support, thoracentesis, chest tube placement and management, invasive and non-invasive ventilator management, endotracheal intubation, arterial and central venous catheter placement, POCUS for diagnosis and procedural guidance, diagnostic bronchoscopy with bronchoalveolar lavage, moderate sedation, and arterial blood gas sampling.

- The majority of respondents recommended providing opportunities to train in extracorporeal membrane oxygenation (ECMO), pericardiocentesis, temporary transvenous pacemaker insertion, continuous renal replacement therapy, and hemodialysis.
- The majority of total respondents recommend against requiring competence in bedside pulmonary artery catheter placement (77%). These responses varied slightly by program type. CCM (n=45; 64%), Pulmonary (n=8; 50%), and PCCM (n=109; 84%), however, only 23% of all respondents across CCM, Pulmonary, and PCCM felt that bedside pulmonary artery catheter placement should be required.
- Responses were divided on requiring calibration and operation of hemodynamic recording systems, interpretation of cardiopulmonary exercise testing, and supervision of technical aspects of pulmonary function testing.

Thank you for your attention and consideration. We appreciate our ongoing collaboration to ensure that procedural requirements are aligned with our educational and clinical practice standards. We look forward to learning more about the ABIM's findings.

Sincerely,

James Frank, MD APCCMPD President

John R. Chley

Jack Buckley, MD, FCCP CHEST President

Wedeche

Irina Petrache, MD, ATSF ATS President

Jauren Arce_

Lauren R. Sorce, PhD, RN, CPNP-AC/PC, FAAN, FCCM SCCM President

1. ACGME. (2024). ACGME Program Requirements for GME in Critical Care Medicine. ACGME, 24 (2024).

2. ACGME. (2024). ACGME Program Requirements for GME in Pulmonary Critical Care Medicine. ACGME, 2(2024).

3. ACGME. (2024). ACGME Program Requirements for GME in Pulmonary Disease. ACGME, 23 (2024).

4. Accreditation Council on Graduate Medical Education, Data Resource Book Academic Year 2022-2023

Appendix 1

This survey was distributed to 288 Pulmonary Diseases, CCM, and PCCM fellowship training programs, with an overall response rate of 163 (57%). Per the Accreditation Council on Graduate Medical Education, Data Resource Book Academic Year 2022-2023¹, there were 66 CCM training programs with 358 CCM fellows, 202 PCCM training programs with 2,268 PCCM fellows, and 22 Pulmonary training programs with 65 Pulmonary fellows in 2023. We present these program characteristics so that the data can be interpreted within the context of the number of trainees and training programs potentially impacted by future changes to procedural training requirements.

1. Accreditation Council on Graduate Medical Education, Data Resource Book Academic Year 2022-2023)

Response Rates:

- Pulmonary Critical Care Medicine Fellowship Programs: 109 (53%)
- Critical Care Medicine Fellowship Programs: 45 (67%)
- Pulmonary Disease Fellowship Programs: 9 (53%)
- Total: 163 (57%)

Fellowship Program Type	ABIM should <u>require</u> all fellows competently perform the procedure	ABIM should recommend all fellows competently perform the procedure	Opportunity to train : All fellows should be required to have knowledge of indications, contraindications, limitations, complications, techniques, and interpretation of procedure results. Only fellows who intend to use this in future practice should be required to competently perform.	ABIM should <u>remove</u> from the list of required procedures	Total
CCM	1 (2%)	7 (16%)	34 (75%)	3 (7%)	45 (100%)
PCCM	2 (2%)	6 (6%)	78 (71%)	23 (21%)	109 (100%)
Pulmonary*					
Total	3 (2%)	13 (8%)	112 (73%)	26 (17%)	154 (100%

*This procedure is not currently required by the ABIM Pulmonary Disease Board. Pulmonary Programs did not see this procedure.

Fellowship Program Type	ABIM should require all fellows competently perform the procedure	ABIM should recommend all fellows competently perform the procedure	er insertion <u>Opportunity to train</u> : All fellows should be required to have knowledge of indications, contraindications, limitations, complications, techniques, and interpretation of procedure results. Only fellows who intend to use this in future practice should be required to competently perform.	ABIM should remove from the list of required procedures	Total
CCM	5 (11%)	10 (22%)	30 (67%)	0	45 (100%)
PCCM	4 (4%)	11 (10%)	81 (74%)	13 (12%)	109 (100%)
Pulmonary*					
Total	9 (5%)	21 (14%)	111 (72%)	13 (9%)	154 (100%)

*This procedure is not currently required by the ABIM Pulmonary Disease Board. Pulmonary Programs did not see this procedure.

Table 3: Conti	Table 3: Continuous renal replacement therapy						
Fellowship Program Type	ABIM should require all fellows competently perform the procedure	ABIM should recommend all fellows competently perform the procedure	Opportunity to train : All fellows should be required to have knowledge of indications, contraindications, limitations, complications, techniques, and interpretation of procedure results. Only fellows who intend to use this in future practice should be required to competently perform.	ABIM should <u>remove</u> from the list of required procedures	Total		
CCM	1 (2%)	10 (22%)	31 (69%)	3 (7%)	45 (100%)		
PCCM	10 (9%)	13 (12%)	75 (69%)	11 (10%)	109 (100%)		
Pulmonary*							
Total	11 (7%)	23 (15%)	106 (69%)	14 (9%)	154(100%)		

*This procedure is not currently required by the ABIM Pulmonary Disease Board. Pulmonary Programs did not see this procedure.

Fellowship Program Type	ABIM should <u>require</u> all fellows competently perform the procedure	ABIM should recommend all fellows competently perform the procedure	Opportunity to train : All fellows should be required to have knowledge of indications, contraindications, limitations, complications, techniques, and interpretation of procedure results. Only fellows who intend to use this in future practice should be required to competently perform.	ABIM should remove from the list of required procedures	Total
CCM	40 (89%)	3 (7%)	2 (4%)	0	45 (100%)
PCCM	102 (93%)	4 (4%)	3 (3%)	0	109 (100%)
Pulmonary*					
Total	142 (92%)	7 (5%)	5 (3%)	0	154 (100%

*This procedure is not currently required by the ABIM Pulmonary Disease Board. Pulmonary Programs did not see this procedure.

Table 5: Hemo	dialysis				
Fellowship Program Type	ABIM should require all fellows competently perform the procedure	ABIM should recommend all fellows competently perform the procedure	Opportunity to train : All fellows should be required to have knowledge of indications, contraindications, limitations, complications, techniques, and interpretation of procedure results. Only fellows who intend to use this in future practice should be required to competently perform.	ABIM should remove from the list of required procedures	Total
CCM	3 (7%)	8 (18%)	32 (71%)	2 (4%)	45 (100%)
PCCM	22 (20%)	12 (11%)	71 (65%)	4 (4%)	109 (100%)
Pulmonary*					
Total	25 (16%)	20 (13%)	103 (67%)	6 (4%)	154 (100%)

*This procedure is not currently required by the ABIM Pulmonary Disease Board. Pulmonary Programs did not see this procedure.

Table 6: Thora	Table 6: Thoracentesis							
Fellowship Program Type	ABIM should require all fellows competently perform the procedure	ABIM should recommend all fellows competently perform the procedure	Opportunity to train : All fellows should be required to have knowledge of indications, contraindications, limitations, complications, techniques, and interpretation of procedure results. Only fellows who intend to use this in future practice should be required to competently perform.	ABIM should remove from the list of required procedures	Total			
CCM	44 (99%)	1 (1%)	0	0	45 (100%)			
PCCM	108 (99%)	1 (1%)	0	0	109 (100%)			
Pulmonary*								
Total	152 (99%)	2 (1%)	0	0	154 (100%)			

*This procedure is not currently required by the ABIM Pulmonary Disease Board. Pulmonary Programs did not see this procedure.

Table 7: Chest Fellowship Program Type	tube placement ABIM should require all fellows competently perform the procedure	ABIM should recommend all fellows competently perform the procedure	Opportunity to train : All fellows should be required to have knowledge of indications, contraindications, limitations, complications, techniques, and interpretation of procedure results. Only fellows who intend to use this in future practice should be required to	ABIM should <u>remove</u> from the list of required procedures	Total
CCM	39 (87%)	6 (13%)	competently perform. 0	0	45 (100%)
PCCM	96 (88%)	12 (11%)	1 (1%)	0	109 (100%)
Pulmonary	6 (66%)	3 (33%)	0	0	9 (100%)
Total	141 (86%)	21 (13%)	1 (1%)	0	163 (100%)

Fellowship Program Type	ABIM should require all fellows competently perform the	ABIM should recommend all fellows competently perform the	Opportunity to train : All fellows should be required to have knowledge of indications, contraindications, limitations, complications, techniques, and interpretation of procedure results. Only fellows who intend to use	ABIM should from the list of required	Total
	procedure	procedure	this in future practice should be required to competently perform.	procedures	
CCM	44 (98%)	1 (2%)	0	0	45 (100%)
PCCM	106 (97%)	2 (2%)	0	1 (1%)	109 (100%)
Pulmonary	8 (89%)	1 (11%)	0	0	9 (100%)
Total	158 (97%)	4 (2%)	0	1 (1%)	163 (100%)

Fellowship Program Type	ABIM should require all fellows competently perform the procedure	ABIM should ABIM should recommend all fellows competently perform the procedure	Opportunity to train : All fellows should be required to have knowledge of indications, contraindications, limitations, complications, techniques, and interpretation of procedure results. Only fellows who intend to use this in future practice should be required to	ABIM should remove from the list of required procedures	Total
ССМ	44 (99%)	1 (1%)	competently perform. 0	0	45 (100%)
PCCM	109 (100%)	0	0	0	109 (100%)
Pulmonary	9 (100%)	0	0	0	9 (100%)
Total	162 (99%)	1 (1%)	0	0	163 (100%)

Table 10: Inva	sive ventilato	⁻ management			
Fellowship Program Type	ABIM should require all fellows competently perform the procedure	ABIM should recommend all fellows competently perform the procedure	Opportunity to train: All fellows should be required to have knowledge of indications, contraindications, limitations, complications, techniques, and interpretation of procedure results. Only fellows who intend to use this in future practice should be required to competently perform.	ABIM should remove from the list of required procedures	Total
CCM	44 (98%)	1 (2%)	0	0	45 (100%)
PCCM	109 (100%)	0	0	0	109 (100%)
Pulmonary	9 (100%)	0	0	0	9 (100%)
Total	162 (99%)	1 (1%)	0	0	163 (100%)

Fellowship Program Type	ABIM should require all fellows competently perform the procedure	ABIM should recommend all fellows competently perform the procedure	Opportunity to train : All fellows should be required to have knowledge of indications, contraindications, limitations, complications, techniques, and interpretation of procedure results. Only fellows who intend to use this in future practice should be required to competently perform.	ABIM should <u>remove</u> from the list of required procedures	Total
CCM	41 (91%)	4 (9%)	0	0	45 (100%)
PCCM	96 (88%)	12 (11%)	1 (1%)	0	109 (100%)
Pulmonary	7 (87%%)	1 (13%)	0	0	8 (100%)
Total	144 (89%)	17 (10%)	1 (1%)	0	162 (100%)

Table 12: Arte	rial catheter p	acement			
Fellowship Program Type	ABIM should require all fellows competently perform the procedure	ABIM should recommend all fellows competently perform the procedure	Opportunity to train : All fellows should be required to have knowledge of indications, contraindications, limitations, complications, techniques, and interpretation of procedure results. Only fellows who intend to use this in future practice should be required to competently perform.	ABIM should <u>remove</u> from the list of required procedures	Total
CCM	43 (96%)	2 (4%)	0	0	45 (100%)
PCCM	108 (99%)	1 (1%)	0	0	109 (100%)
Pulmonary	5 (62%)	2 (25%)	1 (13%)	0	8 (100%)
Total	156 (96%)	5 (3%)	1 (1%)	0	162 (100%)

Fellowship Program Type	ABIM should require all fellows competently perform the procedure	ABIM should recommend all fellows competently perform the procedure	Opportunity to train : All fellows should be required to have knowledge of indications, contraindications, limitations, complications, techniques, and interpretation of procedure results. Only fellows who intend to use this in future practice should be required to competently perform.	ABIM should <u>remove</u> from the list of required procedures	Total
CCM	44 (98%)	1 (2%)	0	0	45 (100%)
PCCM	109 (100%)	0	0	0	109 (100%)
Pulmonary	6 (75%)	2 (25%)	0	0	8 (100%)
Total	159 (98%)	3 (2%)	0	0	162 (100%)

Fellowship Program Type	ABIM should require all fellows competently perform the procedure	ABIM should recommend all fellows competently perform the procedure	Opportunity to train : All fellows should be required to have knowledge of indications, contraindications, limitations, complications, techniques, and interpretation of procedure results. Only fellows who intend to use this in future practice should be required to competently perform.	ABIM should <u>remove</u> from the list of required procedures	Total
CCM	42 (93%)	3 (7%)	0	0	45 (100%)
PCCM	107 (98%)	1 (1%)	1 (1%)	0	109 (100%)
Pulmonary	7 (88%)	1 (12%)	0	0	8 (100%)
Total	156 (96%)	5 (3%)	1 (1%)	0	162 (100%)

Table 16: POC	JS for diagnos	is			
Fellowship Program Type	ABIM should <u>require</u> all fellows competently perform the procedure	ABIM should recommend all fellows competently perform the procedure	Opportunity to train : All fellows should be required to have knowledge of indications, contraindications, limitations, complications, techniques, and interpretation of procedure results. Only fellows who intend to use this in future practice should be required to competently perform.	ABIM should <u>remove</u> from the list of required procedures	Total
CCM	35 (78%)	9 (20%)	1 (2%)	0	45 (100%)
PCCM	81 (74%)	22 (20%)	6 (6%)	0	109 (100%)
Pulmonary	5 (63%)	2 (25%)	1 (12%)	0	8 (100%)
Total	121 (75%)	33 (20%)	8 (5%)	0	162 (100%)

Fellowship Program Type	ABIM should require all fellows competently perform the procedure	ABIM should recommend all fellows competently perform the procedure	Opportunity to train : All fellows should be required to have knowledge of indications, contraindications, limitations, complications, techniques, and interpretation of procedure results. Only fellows who intend to use this in future practice should be required to competently perform.	ABIM should <u>remove</u> from the list of required procedures	Total
CCM	19 (42%)	13 (29%)	11 (25%)	2 (4%)	45 (100%)
PCCM	41 (38%)	30 (28%)	35 (32%)	3 (2%)	109 (100%)
Pulmonary*					
Total	60 (39%)	43 (28%)	46 (30%)	5 (3%)	154 (100%)

Total60 (39%)43 (28%)46 (30%)5 (3%)154 (100%)*This procedure is not currently required by the ABIM Pulmonary Disease Board. Pulmonary Programs did not see this procedure.

Fellowship Program Type	ABIM should <u>require</u> all fellows competently perform the procedure	ABIM should recommend all fellows competently perform the procedure	Opportunity to train : All fellows should be required to have knowledge of indications, contraindications, limitations, complications, techniques, and interpretation of procedure results. Only fellows who intend to use this in future practice should be required to competently perform.	ABIM should <u>remove</u> from the list of required procedures	Total
CCM	7 (16%)	9 (20%)	27 (60%)	2 (4%)	45 (100%)
PCCM	15 (14%)	23 (21%)	68 (62%)	3 (3%)	109 (100%)
Pulmonary*		-			
Total	22 (14%)	32 (21%)	95 (62%)	5 (3%)	154 (100%)

*This procedure is not currently required by the ABIM Pulmonary Disease Board. Pulmonary Programs did not see this procedure.

Table 19: Extra	acorporeal me	mbrane oxygei	nation (ECMO)		
Fellowship Program Type	ABIM should <u>require</u> all fellows competently perform the procedure	ABIM should recommend all fellows competently perform the procedure	Opportunity to train : All fellows should be required to have knowledge of indications, contraindications, limitations, complications, techniques, and interpretation of procedure results. Only fellows who intend to use this in future practice should be required to competently perform.	ABIM should <u>remove</u> from the list of required procedures	Total
CCM	7 (16%)	9 (20%)	27 (60%)	2 (4%)	45 (100%)
PCCM	8 (7%)	23 (21%)	76 (70%)	2 (2%)	109 (100%)
Pulmonary*					
Total	15 (10%)	32 (20%)	103 (67%)	4 (3%)	154 (100%)

*This procedure is not currently required by the ABIM Pulmonary Disease Board. Pulmonary Programs did not see this procedure.

Table 20: Diagnostic bronchoscopy with bronchoalveolar lavage (BAL)					
Fellowship Program Type	ABIM should <u>require</u> all fellows competently perform the procedure	ABIM should recommend all fellows competently perform the procedure	Opportunity to train : All fellows should be required to have knowledge of indications, contraindications, limitations, complications, techniques, and interpretation of procedure results. Only fellows who intend to use this in future practice should be required to competently perform.	ABIM should <u>remove</u> from the list of required procedures	Total
CCM*					
PCCM	109 (100%)	0	0	0	109 (100%)
Pulmonary	8 (100%)	0	0	0	8 (100%)
Total	117 (100%)	0	0	0	117 (100%)

*This procedure is not currently required by the ABIM CCM Board. CCM Programs did not see this procedure.

Table 21: Mode	erate sedation				
Fellowship Program Type	ABIM should <u>require</u> all fellows competently perform the procedure	ABIM should recommend all fellows competently perform the procedure	Opportunity to train : All fellows should be required to have knowledge of indications, contraindications, limitations, complications, techniques, and interpretation of procedure results. Only fellows who intend to use this in future practice should be required to competently perform.	ABIM should <u>remove</u> from the list of required procedures	Total
CCM*					
PCCM	104 (94%)	4 (%)	1 (1%)	0	109 (100%)
Pulmonary	6 (75%)	0	2 (25%)	0	8 (100%)
Total	110 (94%)	4 (3%)	3 (3%)	0	117 (100%)

*This procedure is not currently required by the ABIM CCM Board. CCM Programs did not see this procedure.

Fellowship Program Type	ABIM should require all fellows competently perform the procedure	ABIM should recommend all fellows competently perform the procedure	Opportunity to train : All fellows should be required to have knowledge of indications, contraindications, limitations, complications, techniques, and interpretation of procedure results. Only fellows who intend to use this in future practice should be required to competently perform.	ABIM should <u>remove</u> from the list of required procedures	Total
CCM*					
PCCM	61 (56%)	23 (21%)	20 (18%)	5 (5%)	109 (100%)
Pulmonary	5 (63%)	2 (25%)	1 (12%)	0	8 (100%)
Total	66 (56%)	25 (22%)	21 (18%)	5 (4%)	117 (100%)

*This procedure is not currently required by the ABIM CCM Board. CCM Programs did not see this procedure.

Table 23: Supe	rvision of tech	nnical aspects	of cardiopulmonary exercise testing		
Fellowship Program Type	ABIM should <u>require</u> all fellows competently perform the procedure	ABIM should recommend all fellows competently perform the procedure	Opportunity to train : All fellows should be required to have knowledge of indications, contraindications, limitations, complications, techniques, and interpretation of procedure results. Only fellows who intend to use this in future practice should be required to competently perform.	ABIM should <u>remove</u> from the list of required procedures	Total
CCM*					
PCCM	42 (39%)	27 (25%)	34 (31%)	6 (5%)	109 (100%)
Pulmonary	3 (38%)	2 (25%)	2 (25%)	1 (12%)	8 (100%)
Total	45 (38%)	29 (25%)	36 (31%)	7 (6%)	117 (100%)

*This procedure is not currently required by the ABIM CCM Board. CCM Programs did not see this procedure.

Fellowship Program Type	ABIM should require all fellows competently perform the procedure	ABIM should recommend all fellows competently perform the procedure	Opportunity to train : All fellows should be required to have knowledge of indications, contraindications, limitations, complications, techniques, and interpretation of procedure results. Only fellows who intend to use this in future practice should be required to competently perform.	ABIM should <u>remove</u> from the list of required procedures	Total
CCM*					
PCCM	56 (51%)	32 (29%)	19 (18%)	2 (2%)	109 (100%)
Pulmonary	3 (37.5%)	3 (37.5%)	2 (25%)	0	8 (100%)
Total	59 (50%)	35 (30%)	21 (18%)	2 (2%)	117 (100%)

*This procedure is not currently required by the ABIM CCM Board. CCM Programs did not see this procedure.

Table 25: Arte	rial blood gas				
Fellowship Program Type	ABIM should <u>require</u> all fellows competently perform the procedure	ABIM should recommend all fellows competently perform the procedure	Opportunity to train : All fellows should be required to have knowledge of indications, contraindications, limitations, complications, techniques, and interpretation of procedure results. Only fellows who intend to use this in future practice should be required to competently perform.	ABIM should <u>remove</u> from the list of required procedures	Total
CCM*					
PCCM	106 (97%)	3 (3%)	0	0	109 (100%)
Pulmonary	8 (100%)	0	0	0	8 (100%)
Total	114 (97%)	3 (3%)	0	0	117 (100%)

*This procedure is not currently required by the ABIM CCM Board. CCM Programs did not see this procedure.