

Additional file 6: Full association testing results between the level of each reflection criterion and the competencies levels.

- a. Associations between the level for the “Writing spectrum” criterion and the competencies levels (N=50).

	Writing spectrum				p
	Lower levels of reflection		Higher levels of reflection		
	n	(%)	n	(%)	
PCE					0.19
Novice	2	(7.7%)	3	(12.5%)	
Intermediate	15	(57.7%)	18	(75%)	
Competent	9	(34.6%)	3	(12.5%)	
HACC					0.91
Novice	3	(11.5%)	3	(12.5%)	
Intermediate	16	(61.5%)	16	(66.7%)	
Competent	7	(26.9%)	5	(20.8%)	
EPICH					0.08
Novice	3	(11.5%)	5	(20.8%)	
Intermediate	11	(42.3%)	15	(62.5%)	
Competent	12	(46.2%)	4	(16.7%)	
CFCCP					0.85
Novice	4	(15.4%)	5	(20.8%)	
Intermediate	16	(61.5%)	15	(62.5%)	
Competent	6	(23.1%)	4	(16.7%)	
RCPCA					0.89
Novice	1	(3.8%)	1	(4.2%)	
Intermediate	14	(53.8%)	14	(58.3%)	
Competent	11	(42.3%)	9	(37.5%)	
Prof					0.28
Novice	5	(19.2%)	3	(12.5%)	
Intermediate	10	(38.5%)	15	(62.5%)	
Competent	11	(42.3%)	6	(25%)	

PCE: “Primary care, emergency” ; HACC: “Holistic approach, consideration of complexity” ; EPICH: “Education, prevention, individual and community health” ; CFCCP: “Continuity, follow-up and coordination of care around the patient” ; RCPCA: “Relationship, communication, patient-centered approach” ; Prof: Professionalism competency.

- b. Associations between the level for the “Presence” criterion and the competencies levels (N=50).

	Presence				p
	Lower levels of reflection		Higher levels of reflection		
	n	(%)	n	(%)	
PCE					0.29
Novice	0	(0%)	5	(14.3%)	
Intermediate	10	(66.7%)	23	(65.7%)	
Competent	5	(33.3%)	7	(20%)	
HACC					0.34
Novice	3	(20%)	3	(8.6%)	
Intermediate	10	(66.7%)	22	(62.9%)	
Competent	2	(13.3%)	10	(28.6%)	
EPICH					0.08
Novice	0	(0%)	8	(22.9%)	
Intermediate	8	(53.3%)	18	(51.4%)	
Competent	7	(46.7%)	9	(25.7%)	
CFCCP					0.62
Novice	2	(13.3%)	7	(20%)	
Intermediate	11	(73.3%)	20	(57.1%)	
Competent	2	(13.3%)	8	(22.9%)	
RCPCA					0.88
Novice	0	(0%)	2	(5.7%)	
Intermediate	8	(53.3%)	20	(57.1%)	
Competent	7	(46.7%)	13	(37.1%)	
Prof					0.64
Novice	3	(20%)	5	(14.3%)	
Intermediate	6	(40%)	19	(54.3%)	
Competent	6	(40%)	11	(31.4%)	

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- c. Associations between the level for the “Description of conflict or disorienting dilemma” criterion and the competencies levels (N=50).

	Description of conflict or disorienting dilemma				p
	Lower levels of reflection		Higher levels of reflection		
	n	(%)	n	(%)	
	26		24		
PCE					0.56
Novice	2	(7.7%)	3	(12.5%)	
Intermediate	16	(61.5%)	17	(70.8%)	
Competent	8	(30.8%)	4	(16.7%)	
HACC					0.44
Novice	2	(7.7%)	4	(16.7%)	
Intermediate	16	(61.5%)	16	(66.7%)	
Competent	8	(30.8%)	4	(16.7%)	
EPICH					0.14
Novice	2	(7.7%)	6	(25%)	
Intermediate	13	(50%)	13	(54.2%)	
Competent	11	(42.3%)	5	(20.8%)	
CFCCP					0.41
Novice	3	(11.5%)	6	(25%)	
Intermediate	18	(69.2%)	13	(54.2%)	
Competent	5	(19.2%)	5	(20.8%)	
RCPCA					0.69
Novice	1	(3.8%)	1	(4.2%)	
Intermediate	13	(50%)	15	(62.5%)	
Competent	12	(46.2%)	8	(33.3%)	
Prof					0.44
Novice	4	(15.4%)	4	(16.7%)	
Intermediate	11	(42.3%)	14	(58.3%)	
Competent	11	(42.3%)	6	(25%)	

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- d. Associations between the level for the “Attending to emotions” criterion and the competencies levels (N=50).

Attending to emotions					p
Lower levels of reflection			Higher levels of reflection		
	n	(%)	n	(%)	
	40		10		
PCE					0.25
Novice	3	(7.5%)	2	(20%)	
Intermediate	26	(65%)	7	(70%)	
Competent	11	(27.5%)	1	(10%)	
HACC					0.06
Novice	4	(10%)	2	(20%)	
Intermediate	24	(60%)	8	(80%)	
Competent	12	(30%)	0	(0%)	
EPICH					0.17
Novice	5	(12.5%)	3	(30%)	
Intermediate	20	(50%)	6	(60%)	
Competent	15	(37.5%)	1	(10%)	
CFCCP					0.41
Novice	6	(15%)	3	(30%)	
Intermediate	25	(62.5%)	6	(60%)	
Competent	9	(22.5%)	1	(10%)	
RCPCA					0.17
Novice	1	(2.5%)	1	(10%)	
Intermediate	21	(52.5%)	7	(70%)	
Competent	18	(45%)	2	(20%)	
Prof					0.19
Novice	6	(15%)	2	(20%)	
Intermediate	18	(45%)	7	(70%)	
Competent	16	(40%)	1	(10%)	

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- e. Associations between the level for the “Impact on learning” criterion and the competencies levels (N=50).

	Impact on learning								p
	None		Confirmatory learning		Transformative learning		Both		
	n	(%)	n	(%)	n	(%)	n	(%)	
PCE									0.08
Novice	0	(0%)	2	(11.8%)	2	(10%)	1	(100%)	
Intermediate	6	(50%)	12	(70.6%)	15	(75%)	0	(0%)	
Competent	6	(50%)	3	(17.6%)	3	(15%)	0	(0%)	
HACC									0.32
Novice	1	(8.3%)	2	(11.8%)	2	(10%)	1	(100%)	
Intermediate	7	(58.3%)	13	(76.5%)	12	(60%)	0	(0%)	
Competent	4	(33.3%)	2	(11.8%)	6	(30%)	0	(0%)	
EPICH									0.11
Novice	0	(0%)	4	(23.5%)	3	(15%)	1	(100%)	
Intermediate	5	(41.7%)	9	(52.9%)	12	(60%)	0	(0%)	
Competent	7	(58.3%)	4	(23.5%)	5	(25%)	0	(0%)	
CFCCP									0.16
Novice	0	(0%)	5	(29.4%)	3	(15%)	1	(100%)	
Intermediate	8	(66.7%)	10	(58.8%)	13	(65%)	0	(0%)	
Competent	4	(33.3%)	2	(11.8%)	4	(20%)	0	(0%)	
RCPCA									0.80
Novice	0	(0%)	1	(5.9%)	1	(5%)	0	(0%)	
Intermediate	7	(58.3%)	11	(64.7%)	9	(45%)	1	(100%)	
Competent	5	(41.7%)	5	(29.4%)	10	(50%)	0	(0%)	
Prof									0.53
Novice	1	(8.3%)	5	(29.4%)	2	(10%)	0	(0%)	
Intermediate	5	(41.7%)	8	(47.1%)	11	(55%)	1	(100%)	
Competent	6	(50%)	4	(23.5%)	7	(35%)	0	(0%)	

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