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Supplementary Material

Study in a Simulated Scenario of the Influence of Training and Personality in the Resolution of Critical Situations in Anaesthesiology Residents

Sistac Ballarín JM^{1,2}, Lliteras M² and Sistac Palacín JM³

¹Arnau de Vilanova University Hospital, Lleida, Spain

²Faculty of Medicine, University of Lleida, Lleida, Spain

³Faculty of Medicine, University Alfonso X. Madrid. Spain

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ABSTRACT

Introduction: Empowerment of simulations in emergent situations by resident medical interns has positively demonstrated the acquisition of clinical skills [1]. Even so, it remains unclear what psychological factors influence when assuming leadership in carrying out these simulations or in a real situation. This study aims to analyse, by simulating critical situations in the operating room, the influence of training and personality among anaesthesiology residents on the predisposition to assume such leadership

Materials and Methods: A study was carried out on 22 residents both trained (11) and untrained in simulation, assessing their personality and degree of stress using the Typi and Stay Trait. By observation it was determined that he was the leader, when entering a simulated model of ventricular fibrillation in pairs. Resolution capacity was not valued, but rather the characteristics that define the personality of the resident who assumed leadership.

Results: Regarding personality, measured with the TIPI test, the leaders turned out to score high in agreeableness but low in extraversion compared to the helpers. This suggests that they are altruistic, compassionate, trusting, frank, empathic and sensitive to others and on the other hand reserved, socially distant except with close friends. In the trained group, the Stai Trait test revealed a slightly lower mean in helpers compared to the total mean, in addition to a significantly higher SD in leaders (4.57) than in helpers (2.87), obtaining a $p > 0.02$. In Stai Estado, the opposite occurred in terms of the averages, lower in the group of leaders with respect to the global average. And a very similar SD was obtained in both groups (4.91 and 4.21). In the TIPI test, the leading group stands out with a low score in extraversion, compared to the total mean and compared to assistants, justified data with a $p > 0.02$.

Conclusion: The residents of the trained group turned out to have lower anxiety in the stressful situation of the simulation compared to the other group. In addition, the women who turned out to be leaders in the trained group demonstrated control of the situation with lower HRs than the leaders in the untrained group, thus demonstrating the influence of training in resolving critical situations.

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*Correspondence to: Sistac Ballarín JM

Annexe 1

N°	Gender	FC pre	FC intra	FC post	TA pre	TA post	SpO2 pre	SpO2 intra	SpO2 post

Annexe 2

TIPI: The Ten-Item Personality Inventory (TIPI), developed by Gosling, Rentfrow and Swan, was used. It is a 10-item scale developed to assess personality according to the Big-Five model. There are no breakpoints. Try to find out which dimension predominates in each person (which one scores more).

Each factor is evaluated by a pair of items: E 1/6, A 2/7, C 3/8, N 4/9 and O 5/10.

Name	
TIPI	
Date	

Below you will find a series of personality traits that may or may not be applicable to you. Write, in each blank space, the number that best reflects your degree of agreement or disagreement with the statement. You must assess the degree to which each pair of traits in each line applies to you.

I see myself as:

1. Extroverted, enthusiastic	
2. Critic, fighter	
3. Reliable, controlled	
4. Nervous, easily upset	
5. Open to new experiences, with multiple interests	
6. Reserved, quiet	
7. Understanding, affectionate	
8. Disorganized, careless	
9. Calm, emotionally stable	
10. Conventional, not very creative	

A-R**INSTRUCCIONES**

A continuación encontrará unas frases que se utilizan corrientemente para describirse uno a sí mismo.

Lea cada frase y señale la puntuación 0 a 3 que indique mejor cómo se *SIENTE* Vd. *EN GENERAL* en la mayoría de las ocasiones. No hay respuestas buenas ni malas. No emplee demasiado tiempo en cada frase y conteste señalando lo que mejor describa cómo se siente Vd. generalmente.

	Casi nunca	A veces	A menudo	Casi siempre
21. Me siento bien	0	1	2	3
22. Me canso rápidamente	0	1	2	3
23. Siento ganas de llorar	0	1	2	3
24. Me gustaría ser tan feliz como otros	0	1	2	3
25. Pierdo oportunidades por no decidirme pronto	0	1	2	3
26. Me siento descansado	0	1	2	3
27. Soy una persona tranquila, serena y sosegada	0	1	2	3
28. Veo que las dificultades se amontonan y no puedo con ellas	0	1	2	3
29. Me preocupo demasiado por cosas sin importancia	0	1	2	3
30. Soy feliz	0	1	2	3
31. Suelo tomar las cosas demasiado seriamente	0	1	2	3
32. Me falta confianza en mí mismo	0	1	2	3
33. Me siento seguro	0	1	2	3
34. Evito enfrentarme a las crisis o dificultades	0	1	2	3
35. Me siento triste (melancólico)	0	1	2	3
36. Estoy satisfecho	0	1	2	3
37. Me rondan y molestan pensamientos sin importancia	0	1	2	3
38. Me afectan tanto los desengaños, que no puedo olvidarlos	0	1	2	3
39. Soy una persona estable	0	1	2	3
40. Cuando pienso sobre asuntos y preocupaciones actuales, me pongo tenso y agitado.	0	1	2	3

Annexe 3: STAI RASGO

N.° 124

STAI

AUTOEVALUACION A (E/R)

A / E

A / R

P D = 30	+	-	=
P D = 21	+	-	=

Apellidos y nombre Edad Sexo
 Centro Curso/Puesto Estado civil
 Otros datos Fecha

A-E INSTRUCCIONES

A continuación encontrará unas frases que se utilizan corrientemente para describirse uno a sí mismo. Lea cada frase y señale la puntuación 0 a 3 que indique mejor cómo se *SIENTE* Vd. *AHORA MISMO*, en este momento. No hay respuestas buenas ni malas. No emplee demasiado tiempo en cada frase y conteste señalando la respuesta que mejor describa su situación presente.

	Nada	Algo	Bastante	Mucho
1. Me siento calmado	0	1	2	3
2. Me siento seguro	0	1	2	3
3. Estoy tenso	0	1	2	3
4. Estoy contrariado	0	1	2	3
5. Me siento cómodo (estoy a gusto)	0	1	2	3
6. Me siento alterado	0	1	2	3
7. Estoy preocupado ahora por posibles desgracias futuras	0	1	2	3
8. Me siento descansado	0	1	2	3
9. Me siento angustiado	0	1	2	3
10. Me siento confortable	0	1	2	3
11. Tengo confianza en mí mismo	0	1	2	3
12. Me siento nervioso	0	1	2	3
13. Estoy desasosegado	0	1	2	3
14. Me siento muy «atado» (como oprimido)	0	1	2	3
15. Estoy relajado	0	1	2	3
16. Me siento satisfecho	0	1	2	3
17. Estoy preocupado	0	1	2	3
18. Me siento aturdido y sobreexcitado	0	1	2	3
19. Me siento alegre	0	1	2	3
20. En este momento me siento bien	0	1	2	3

COMPRUEBE SI HA CONTESTADO A TODAS LAS FRASES CON UNA SOLA RESPUESTA

Ahora, vuelva la hoja y lea las instrucciones antes de comenzar a contestar a las frases.

Annexe 4