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Digital and Green Innovations –
Shaping the Future of
Occupational Safety and Health

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Occupational Burnout in Healthcare Workers Following a Climate Disaster: Evidence from the Valencia DANA Flood (2024)

Advocating for Standardized OSH Mental Health Protocols for Healthcare Professionals.



DEPARTAMENT DE SALUT DE VALÈNCIA
DOCTOR PESET



GENERALITAT VALENCIANA
Conselleria de Sanitat

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CONTEXT: THE VALENCIA DANA (OCT 2024)



238
Recorded Deaths



€5.26 Billion
in Losses
(83% of insured losses
in Spain 2024)



57
Primary Care
Centers Affected
(Hospitals at minimum capacity)



Primary care center affected during the Valencia DANA (2024).



The Dual Role: Victim and Caregiver

Staff provided life-saving care while processing personal trauma (loss of homes, vehicles)

A catastrophic flood struck the Valencia region, creating a dual-role crisis for healthcare professionals who were both responders and victims.

STUDY METHODOLOGY



n=121 Healthcare Participants
Physicians, residents, and nursing staff at a tertiary hospital



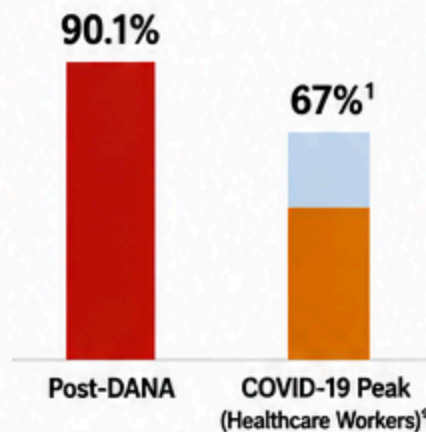
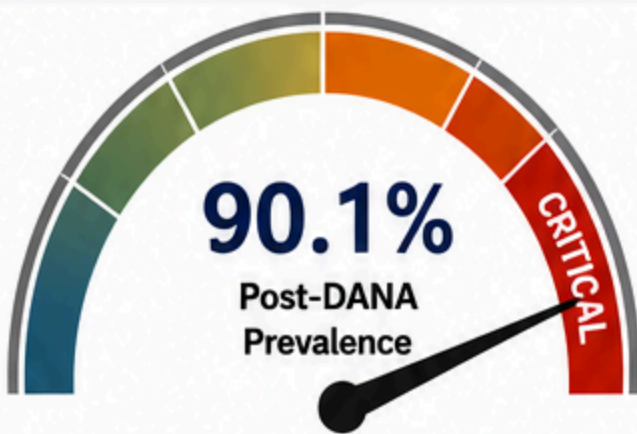
Maslach Burnout Inventory (MBI)
22-item digital survey measuring three core dimensions (5-point Likert scale)

Scan for full study, abstract, complete work and MBI survey



Cross-Sectional Analysis (Nov 2024 – Jan 2025) | High Internal Consistency: Cronbach alpha (EE=0.74, DP=0.75, LPA=0.66)

BURNOUT PREVALENCE & BENCHMARKS



Surpassing the COVID-19 Peak

Post-DANA burnout prevalence (90.1%) significantly exceeded the 67% reported in a large multicentric study (n=3,537) during the COVID-19 pandemic¹.

MBI RESULTS BY DIMENSION



Emotional Exhaustion (EE)

72.7% Affected

Mean Score: 3.14 (± 0.84)



Lack of Personal Accomplishment (LPA)

81.8% Affected

Mean Score: 2.54 (± 0.74)



Depersonalization (DP)

59.5% Affected

Mean Score: 2.14 (± 0.75)

KEY REFERENCES

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KEY TAKE-HOME MESSAGE



Climate disasters may generate burnout levels in healthcare workers exceeding the COVID-19 peak, highlighting the urgent need for standardized OSH mental health protocols and organizational resilience strategies.

CONTACT & RESOURCES



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Scan the QR code above for:
• Full abstract
• Complete study
• MBI survey used