

Selecting for Resilience then maintaining mental wellbeing - keeping the stuffing in the 'right stuff'

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Agenda

- Background
- Selecting the right stuff
- Measuring mental wellbeing
- Recent results

Background

Symbiotics specialise in assessing for recruitment and promotion in high-risk industries

20 years' experience





Requirements in High risk sector

- Low Anxiety
- High stress tolerance
- Self-attributor
- Locus of Control
- Low levels of competitiveness
- Motivation



Mental Wellbeing 1:5 – 1:7 people at work have symptoms of an existing mental health condition





Putting figures into perspective

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2011 – 618000 FAA certificated pilots

By 2035 predicted growth further 617000 pilots

2017 – 65000 in UK civil nuclear sector, set to grow with new plants



Aviation Sector -Precipitating Factor

 Regulatory changes following publication of report into Germanwings 9525 (2015)





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- Access to a *support programme*;
- Psychological assessment of pilots;



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Personality vs Mental Health Personality is stable over time

Mental health varies from day to day and even hour to hour

Sudden severe psychotic episodes are extremely rare





What's missing?

Current mental state

What level of understanding is required?

- Risk indicator
- Diagnostic





Clinical tests

surveillance including environmental factors General psychosocial traits

Mental Health

Substance use

Trauma/exposure

Global functioning

Suicide assessment

Specific diagnostic tests





Mental Health (Wellbeing)

MMPI-2

- Published 1989
- 'most widely used psychological test in the world'

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- Assist in psychiatric diagnosis
- Clinical scales

Wellbeing indicator

> assessments Published 2015 Indicate risk of

Indicate risk of participant developing symptoms of mental illness

MindQ

clinical

Derived from

Catch people and intervene to prevent











Overview: MindQ Scores of Pilots and Corporate Employees



Pilot profiles

Depression Item:

Difficulty expressing yourself or knowing what you are feeling



Pilot profiles

"The following are ways people react to difficult, stressful, or upsetting situations. Indicate how much you engage in these types of activities:"

Coping Strategies



Pilot profiles



Pilot levels of risk

What makes a good solution?

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Online Short Nonthreatening

Easy to administer

Repeatable

Cost effective



Thank you for listening

Any questions?



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References

Aviation and aerospace psychology: Pilot Mental Health and Wellbeing position statement, British Psychological Society November 2017 http://www.boeing.com/commercial/market/long-term-market/pilot-and-technician-outlook/ MMPI-2 Training slides, University of Minnesota Press, 2015 Thriving at work, The independent review of mental health and employers, Stevenson and Farmer, October 2017 Guidance Materials and Best Practices for Pilot Aptitude Testing, 2nd edition, IATA March 2012 Psychology guidance material, MED B.060 UK CAA Pilot Mental Health Assessment and Support, Bor, Eriksen, Oakes, Scragg (eds), Routledge 2017 Aviation Mental Health, Bor and Hubbard (eds), Ashgate 2006 https://www.mentalhealth.org.uk/statistics/mental-health-statistics-uk-and-worldwide



