Santa Fe Working group

Dynamical Resilience in Aging

Santa Fe Nov 12-13 2018
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Urgency Resilience Research

1. Multiple health catastrophes
   a) Hurricanes
   b) Terrorism
   c) Microbes
   d) Etc, etc...

2. “Red Zone” in aging by multiple stressors
   a. Multimorbidity competition
   b. Invasive interventions
   c. Bio-psych-social
Urgency Resilience Research

3. New data acquisition methods
   a) Health monitoring
   b) Wearables
   c) Daily life data of crowds

4. New analyses methods
   a. Machine learning
   b. Agent based and/or network modeling
   c. Entropy bases
   d. DIORs
Opportunity Resilience Research

5. Interprofessional synergy

6. Putting the patient together again
Bremer musicians
Why We forgot (the complexity of) the AD patient

NEJM Dec 2017 Greene et al
Resilience concept (starter)

Ability to adapt well after a physical, mental or social perturbation

- Define and validate ex-post hoc (APA)
- Not flip side of frailty/ vulnerability

Kalish et al Nature Human Behavior 2017
Resilient = dynamic adaptability
Improved Guidance on Resilience