

Using data to identify allied health complexity in general medicine

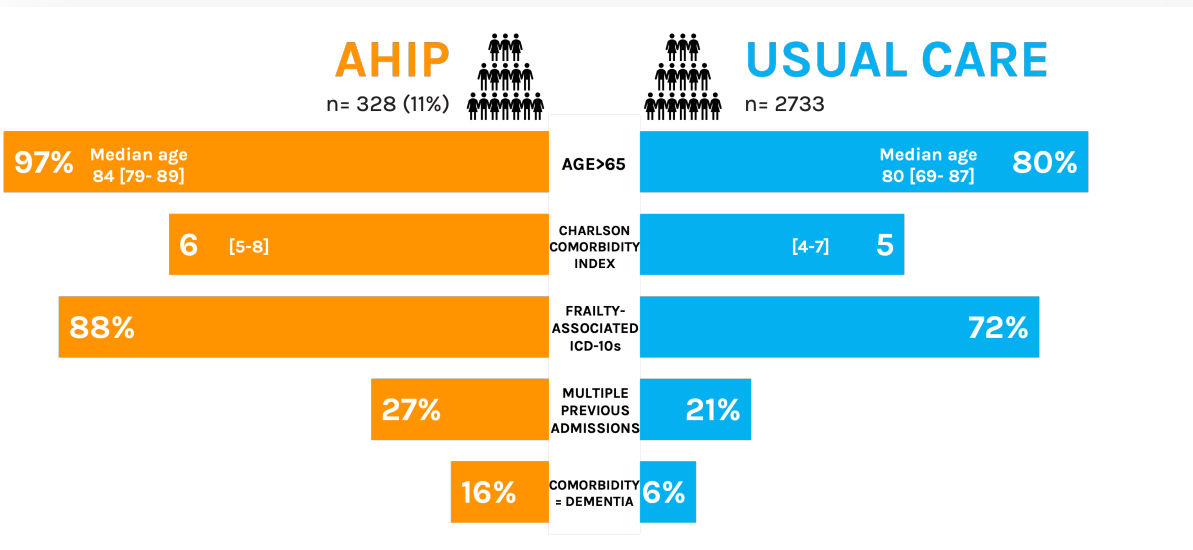
Identifying complexity in general medicine – a survey and cohort study

Background: Patients who are “**complex**” have poorer outcomes in inpatient care. At our hospital patients identified as complex for allied health are referred to the Allied Health Interdisciplinary Practitioner (AHIP) service, a complex care pathway in **general medicine**, but we have **no consistent way to identify this cohort**.

Aim: Characterise patients deemed complex for allied health by examining their **characteristics and outcomes**, and developing a list of **words clinicians associate with complexity** in the progress notes for future **digital identification**.

Cohort results: Key demographic and clinical characteristics of complex AHIP cohort compared with usual allied health care ($p < 0.01$)

Survey results: Words likely to suggest allied health complexity to participants



”carer stress”
 “complex”
 “social admission”
 “frail”
 “failed discharge”
 - Survey Respondents (n=80)

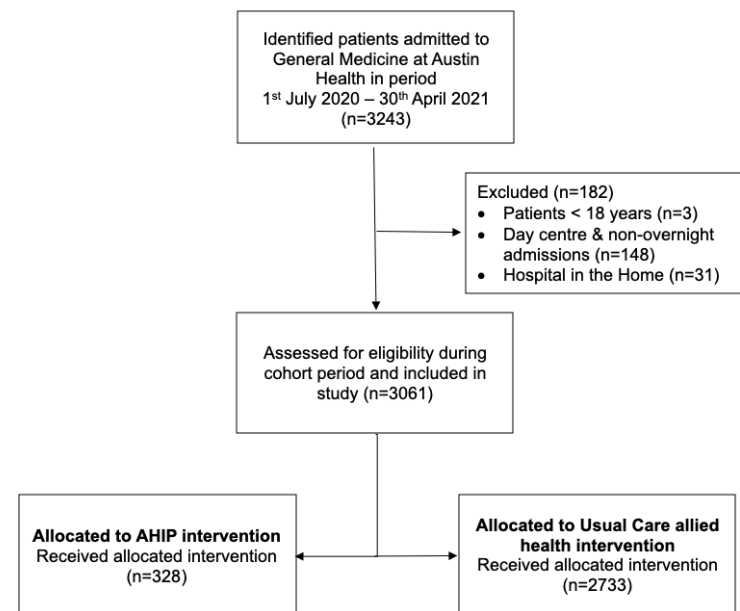
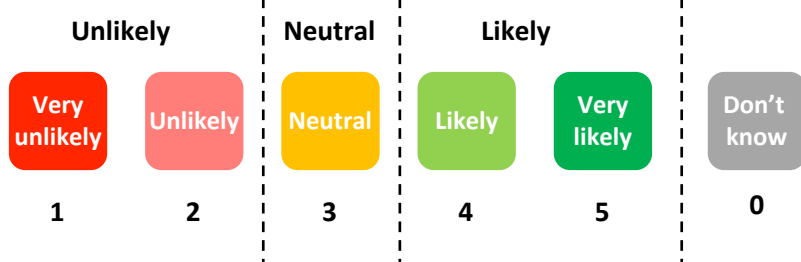
Methods

Cross-sectional survey

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Retrospective observational cohort study

Clinicians: please rate the likelihood that the following words suggest the patient has complex allied health needs:



Conclusion: Frailty, age, multimorbidity and high hospital utilisation were associated with **complexity**. Digital identification of patients may be possible using patient data and natural language processing of “complexity” words.



Elena Gerstman, Jennifer Jones, Chris Michael, Sue Berney, Karin Thursky and David Berlowitz

