VIP network

ESICM ENGRERA SOCIETY OF PITETS OF CAME REDUCTE

The Very old Intensive care Patient
An ESICM/HSRO initiated research project

Hans Flaatten

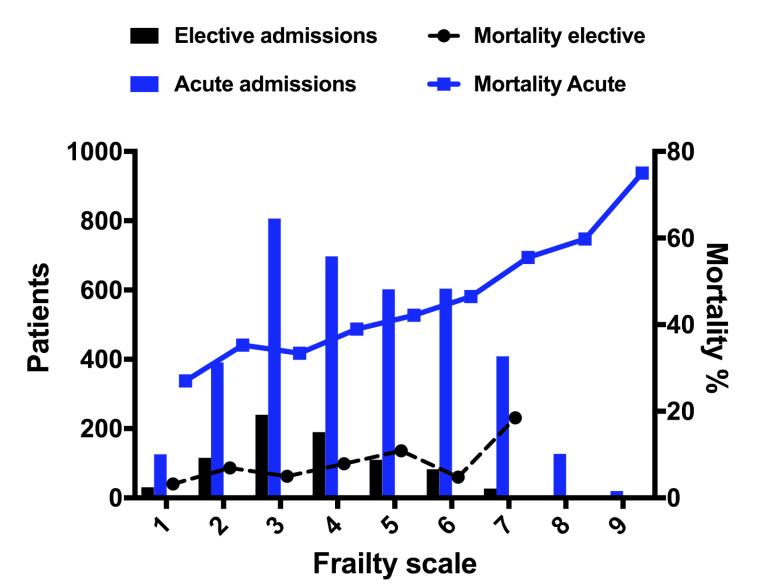


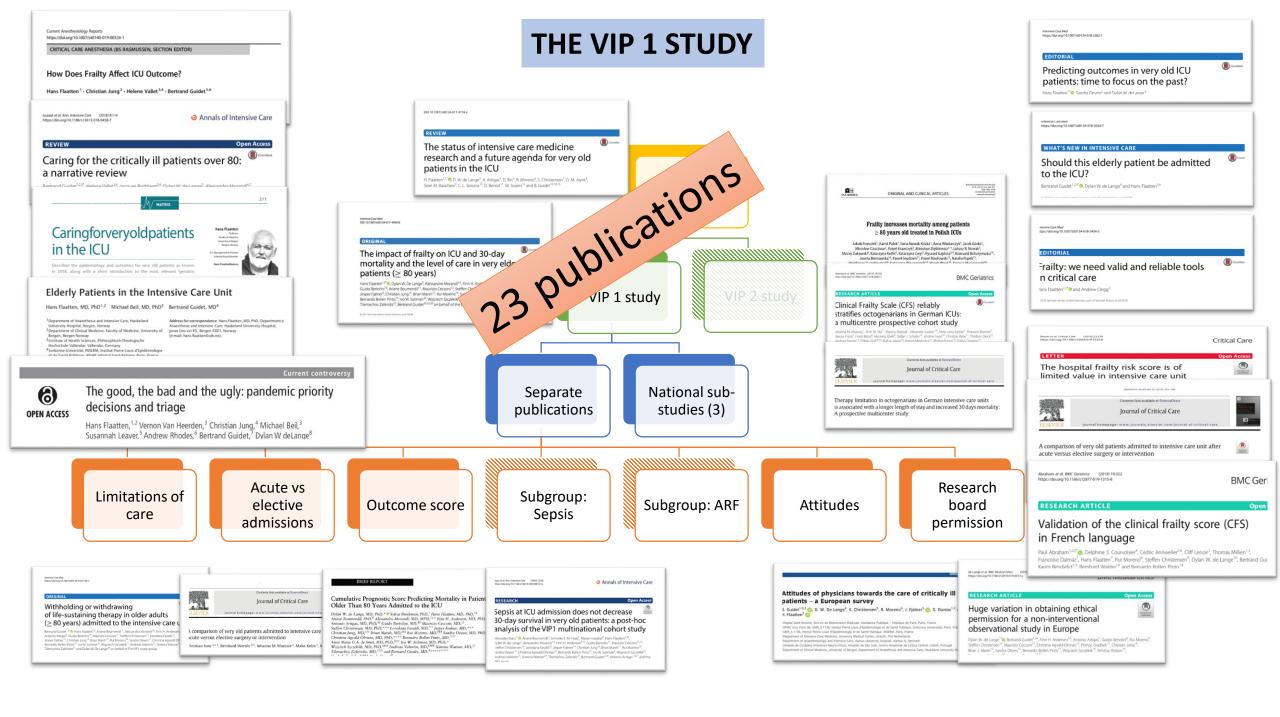
ORIGINAL

The impact of frailty on ICU and 30-day mortality and the level of care in very elderly patients (\geq 80 years)

Hans Flaatten^{1,2*}, Dylan W. De Lange³, Alessandro Morandi^{4,5}, Finn H. Andersen^{6,7}, Antonio Artigas⁸, Guido Bertolini¹⁰, Ariane Boumendil¹¹, Maurizio Cecconi¹², Steffen Christensen⁹, Loredana Faraldi¹³, Jesper Fjølner⁹, Christian Jung¹⁴, Brian Marsh¹⁵, Rui Moreno¹⁶, Sandra Oeyen¹⁷, Christina Agwald Öhman¹⁸, Bernardo Bollen Pinto¹⁹, Ivo W. Soliman²⁰, Wojciech Szczeklik²¹, Andreas Valentin²², Ximena Watson¹², Tilemachos Zaferidis²³, Bertrand Guidet^{24,25,26} on behalf of the VIP1 study group

Association between frailty and mortality



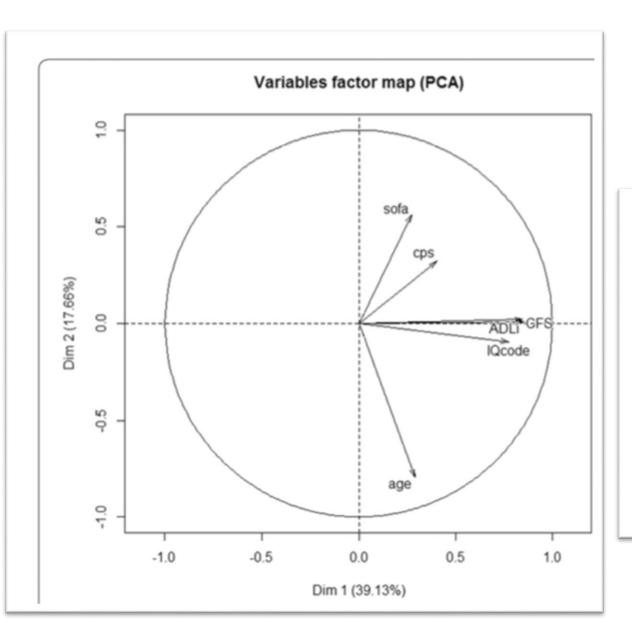


ORIGINAL



The contribution of frailty, cognition, activity of daily life and comorbidities on outcome in acutely admitted patients over 80 years in European ICUs: the VIP2 study

Bertrand Guidet^{1*}, Dylan W. de Lange², Ariane Boumendil³, Susannah Leaver⁴, Ximena Watson⁵, Carol Boulanger⁶, Wojciech Szczeklik⁷, Antonio Artigas⁸, Alessandro Morandi⁹, Finn Andersen¹⁰, Tilemachos Zafeiridis¹¹, Christian Jung¹², Rui Moreno¹³, Sten Walther¹⁴, Sandra Oeyen¹⁵, Joerg C. Schefold¹⁶, Maurizio Cecconi^{17,18}, Brian Marsh¹⁹, Michael Joannidis²⁰, Yuriy Nalapko²¹, Muhammed Elhadi²², Jesper Fjølner²³, Hans Flaatten^{24,25} for the VIP2 study group



Dim 1 (39.13%)

Fig. 1 Principal component analysis (PCA). Two-dimensional projection of the sample was constructed having the axes (principal components, PC) as the factors. Each PC is a linear combination of the original variables and PCs are orthogonal to each other. The angles between the vectors tell us how variables correlate with one another: when two vectors are close, forming a small angle, the two variables they represent are positively correlated. If they meet each other at 90 °, they are not likely to be correlated and when they diverge and form a large angle (close to 180 °), they are negatively correlated. The length of the vector shows how much weight a specific variable has on each principal component



What should we know more about?

- The occurrence of pre- and post-ICU admission frailty and sarcopenia and its effects of functional outcomes
- What is the opinion of octogenarians towards use of critical care resources in acute, severe vital organ failure? A European survey among 10,000 octogenarians
- The effects of including a geriatrician in the early assessment and discharge of octogenarians.
- The burden of intensive care, a prospective study in caregivers of octogenarians in the ICU
- Development of a prognostic tool for the very old ICU patients
- Sepsis in the very old ICU patients: incidence and outcomes
- Dementia development after ICU discharge of octogenarians. A prospective follow-up study
- Pharmacokinetics of midazolam, propofol and dexmedetomidine in very old ICU patients
- End of life trajectories in the very old. A European multicentre study

https://vipstudy.org/

COVIP study – a VIP network study

Corona Virus disease (COVID19) in Very Elderly Intensive care Patients (VIPs). A VIP network study.

HOME

COVIP STUDY

ORGANIZATION

PREVIOUS STUDIES

VIP PAPERS

EVENTS

CONTACT

Q

COVIP study: Corona Virus disease (COVID19) in Very Elderly Intensive care Patients (VIPs)

A multinational, multicenter study of outcomes and prognostic factors in coronavirus disease (COVID-19) in very old intensive care patients.

Click to register your ICU now

You will receive further information when you register.

See the <u>COVIP page</u> for information, country coordinator list, protocol, documents, notes and ethical approval etc.

270 ICUs registered

(Updated: 28-08-2020 00:28)

38 countries participating

(Updated: 28-08-2020 00:28)

1575 patients documented

(Updated: 28-08-2020 00:28)

See the COVIP study information page

ResearchGate

ClinicalTrials.gov

View on ClinicalTrials.gov

Follow the COVIP project on ResearchGate



The COVIP study is endorsed by <u>ESICM</u> (European Intensive Care Society)

EOSC Project 2020: Database to develop guidelines for managing elderly critical ill patients during a respiratory virus pandemic

Challenges: In new infectious diseases, the set of symptomes, the degree of organ failure and, eventually, the outcome are difficult to predict. <u>Prognostic models</u> have been developed for cohorts of younger patients but are not validated for the elderly to inform <u>guidelines about efficient</u> <u>interventions</u> and provide <u>training and continuous professional education</u>.

Cloud services: Extension of the <u>collaborative database</u> from VIP1 and VIP2 studies to store, share, reuse and combine patient data

Immediate benefits: Open access for clinicians (to input data) and researchers (to analyse and model data) in participating countries

Longterm benefits: Establishing the framework for these studies will <u>improve preparedness and</u> <u>reaction time</u> during the next pandemic or public health emergency.

Evolving challenges in critical care

infectious diseases (pandemics) toxicology (e.g. new drugs in oncology)

environmental (new habits, e.g. car driving) social (e.g. military conflicts)

demographic ageing (new disease patterns) climate change (new stress-related illnesses)

short term

Network of <u>sentinel ICU's</u> to detect and monitor new challenges



Methodological challenges

Study design (retrospective, snapshots, prospective including registries)

Data types (cross-sectional vs. longitudinal, simple variables vs. composite scores)

Quality and completeness of data (including reproducibility of assessments)

Reference groups (composition and related biases)

National regulations for documentation (e.g. for reimbursement)

General data protection regulation (GDPR)