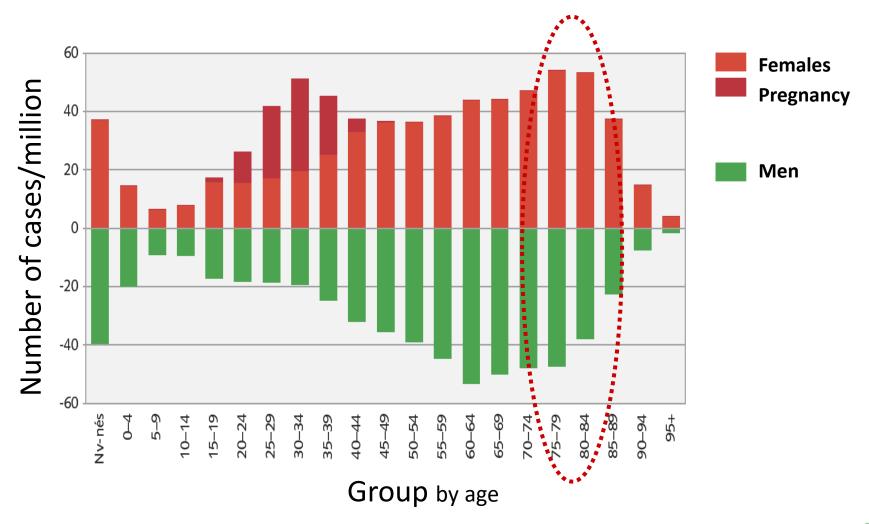
The SOMADEM unit

Aline Mendes, MD 08.11.2019

SOMADEM
SOMatique Aigu & DEMence



Number of hospitalizations/age in Switzerland





Background

→ Rate of acute hospitalization of Alzheimer's patients is high (30% per year);

Aguero-Torres et al., 1998

→ Older people → high risk of delirium;

Tropea et al., 2008

→ Dementia increases the risk of delirium (more than 50% superimposed);

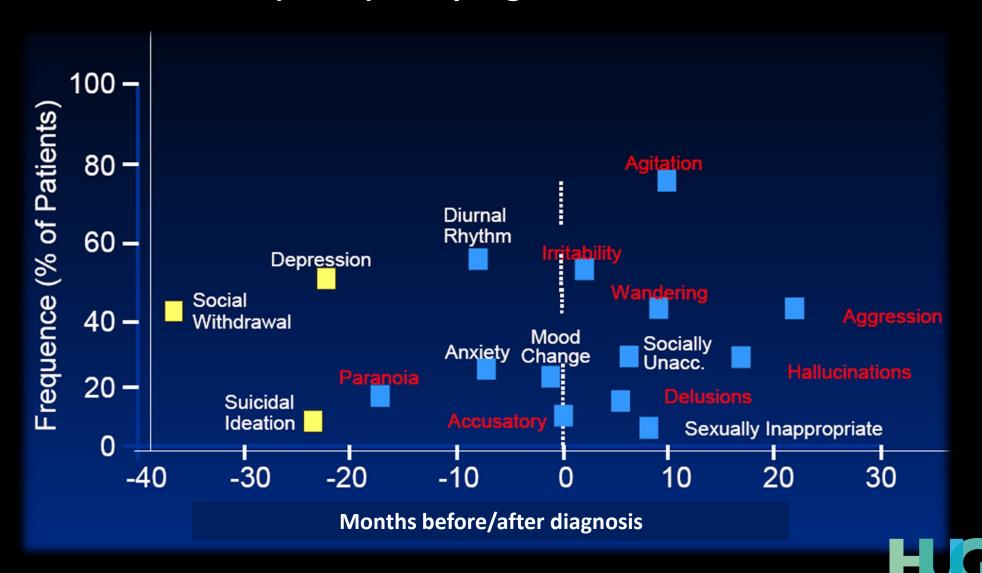
Fick et al., 2002

→ Delirium worsens the prognosis of dementia and accelerates cognitive impairment;

Fick et al., 2002



Prevalence of behavioral and psychological symptoms of dementia (BPSD) and progression of the disease



Major issue

□ Patients with behavioral and psychological symptoms of dementia (BPSD) due to a concomitant acute somatic disease are at risk of not being adequately treated in respect to all their problems either in a somatic or in a psychiatric setting.

Consequences

- ☐ Frequent and often repetitive transfers between institutions;
- ☐ The need for models of care for patients with dementia hospitalized for somatic disease concomitant with challenging BPSD has led to the development of **SOMADEM**.



Target and Outcomes

Improvement in quality of care resulting in better outcomes

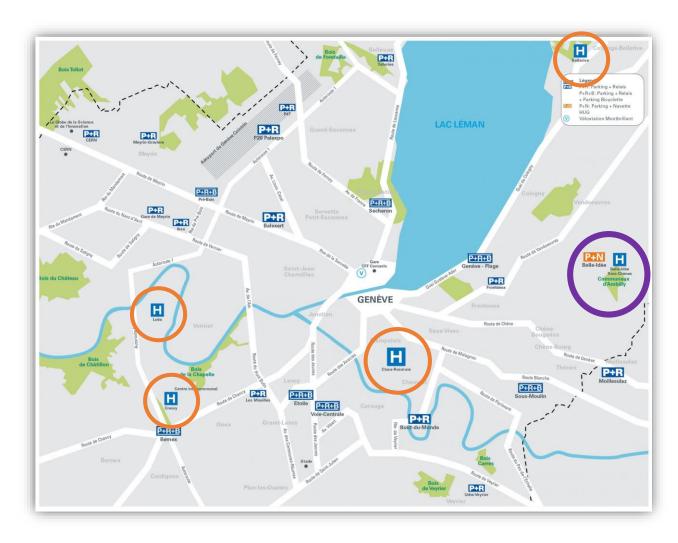
Important issues

- The safety for wandering patients
- Reduction of psychological stress
 - and workload for the staff
- Better integration of proxies in the care process

SOMADEM

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In 2000, a program of care led to the creation of a unit for elderly patients with acute somatic disorders (SOMA) with dementia (DEM) and BPSD, called "SOMADEM";





SOMADEM SOMatique Aigu & DEMence

- 18-bed acute unit in a 300-bed Geriatric Hospital (with acute and rehabilitation programs);
- Major behavioral disorders are detected (according to the Pittsburgh scale):
 - Agitation
 - Shouting
 - Disrupted behavior during the night
 - Opposition to care
 - Verbal and physical aggression
 - Wandering
 - Disinhibition
- The patient with at least one of these disorders in addition to an acute somatic problem is referred to the SOMADEM unit.



Cognitive status - behaviour

Pittsburgh Agitation Scale - Hospital setting

Measures 4 dimensions of agitated behavior:

Rated from 0-4 – 0 represents normal behavior, 4 represents extreme example of agitated behavior.

- Takes 1 minute or less to complete per patient.
- Completed by nurses.
- Assess for efficacy of interventions during hospitalization.

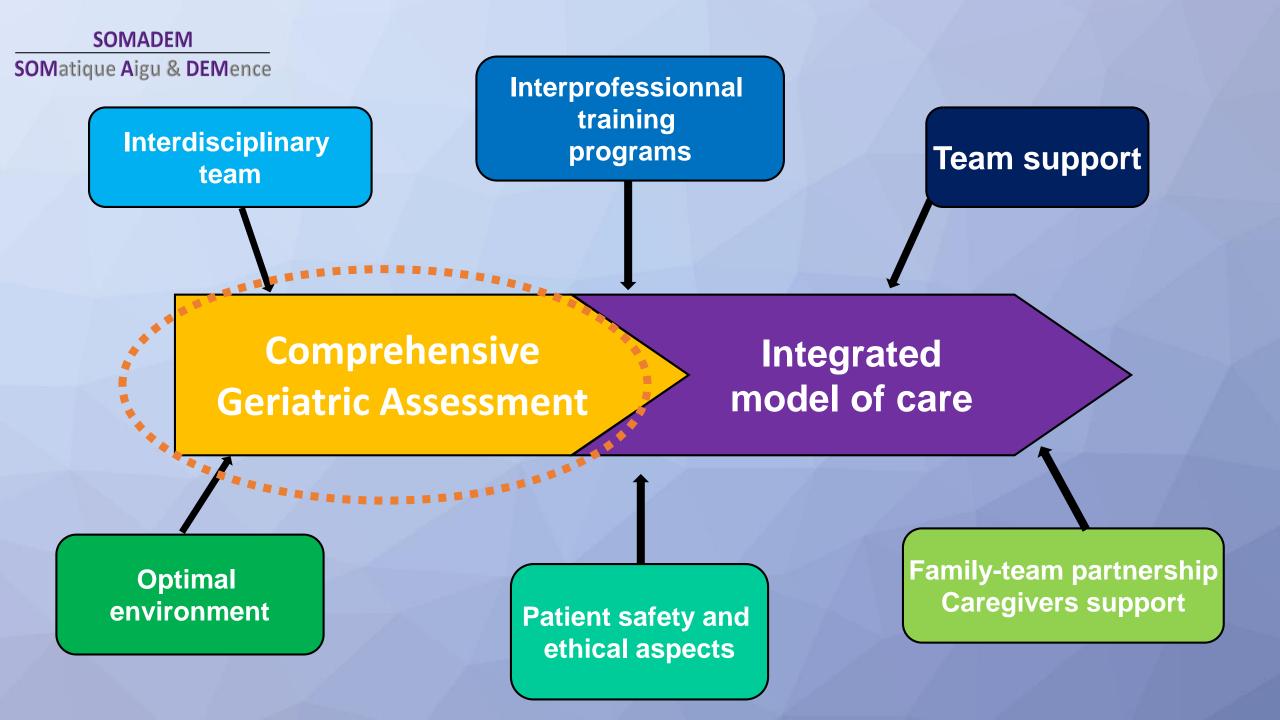
Aberrant Vocalization:

- Crying, shouting, inappropriate communication.
- Motor Agitation:
- Pacing, rate of movement, exit seeking.

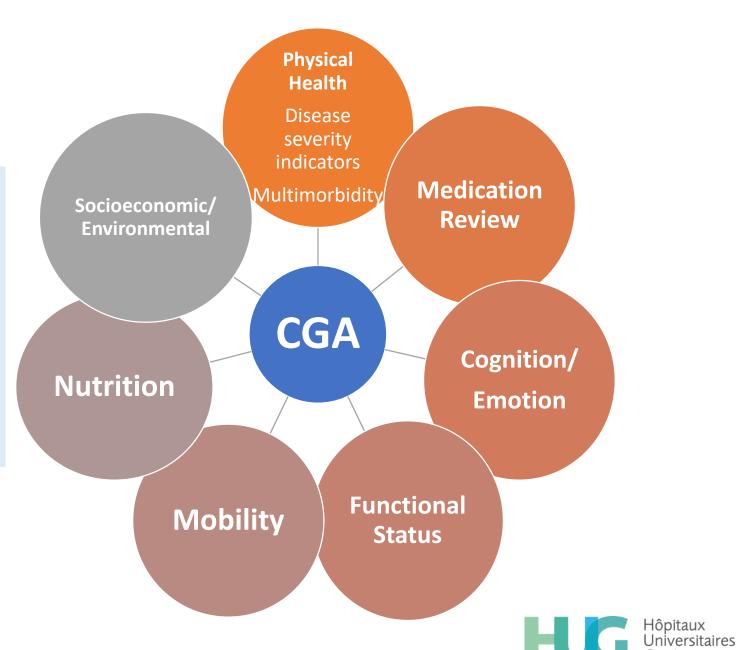
• Aggression:

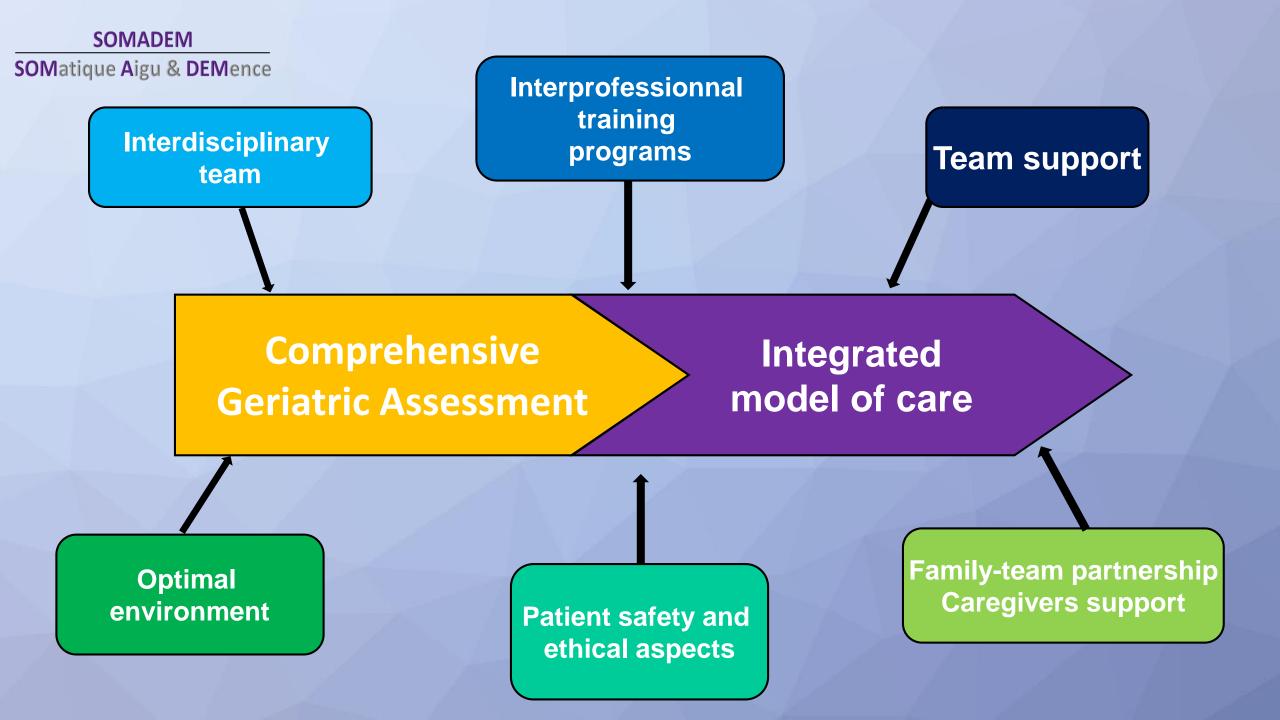
- Threats, physical violence.
- Resistance to Care:
- Procrastination, refusal, striking out during care.



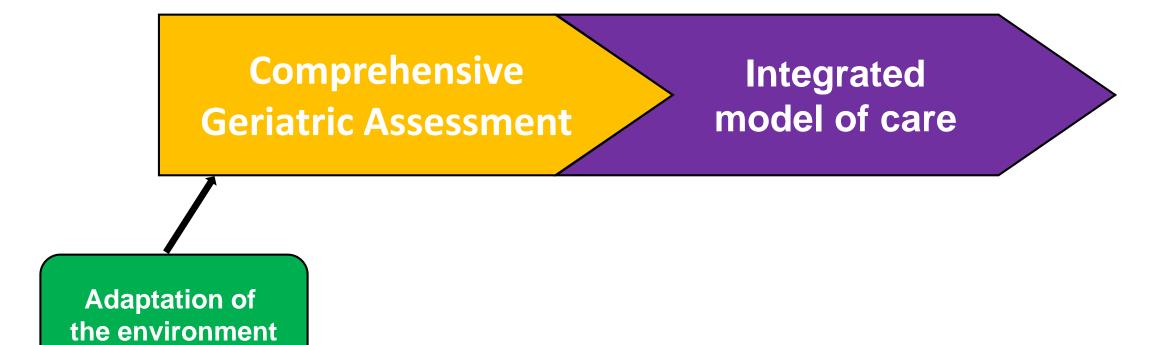


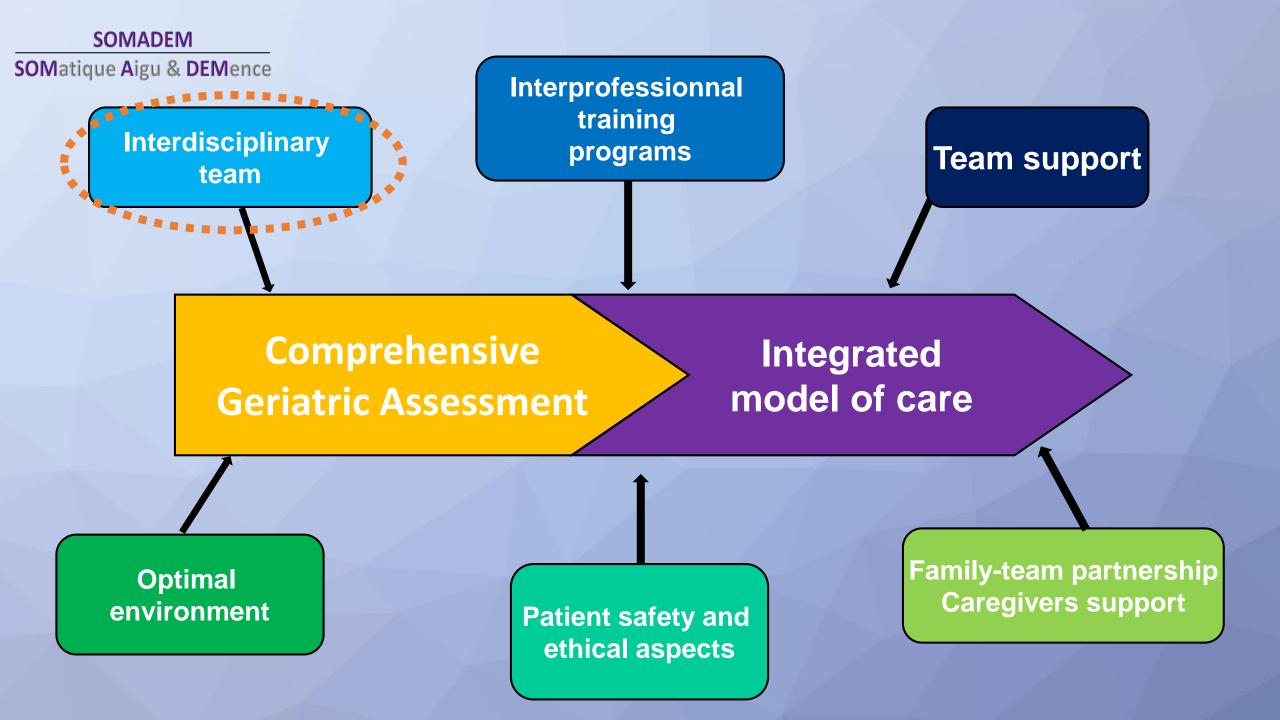
"The multidimensional and multidisciplinary tool of choice to determine the clinical profile, the pathologic risk and the residual skills as well as the short- and long-term prognosis to facilitate the clinical decision making on the personalized care plan of older persons."





- ✓ Secured windows, to avoid defenestration of confused patients;
- ✓ Controlled water temperature in the faucets so that patients do not burn with too hot water;
- ✓ Quo Vadis: a radio system, composed of a wristwatch controlled wandering;
- ✓ Circular path that promotes walking in a contained environment;
- ✓ One patient per room (only 2 rooms with 2 beds);
- ✓ Noise and light control.





Interdisciplinary team

2 junior supervised by a senior resident Nurses and (internal medicine assistants and geriatrics) Occupational Physiotherapist Therapist Psychologist/ Neuropsychologist Social Worker **Psychiatrist** Case manager **Dentist** MRI, CT-scan, US, Speech Radiography, **Podiatrist**

Consultants from other medical specialties (cardiology, oncology, etc)

Therapist

Hôpitaux Universitaires Genève

Interdisciplinary team

Interprofessionnal training programs

Team support



√ 3-day training program/year;

√1 hour/ week – team support, management of challenging behaviours.

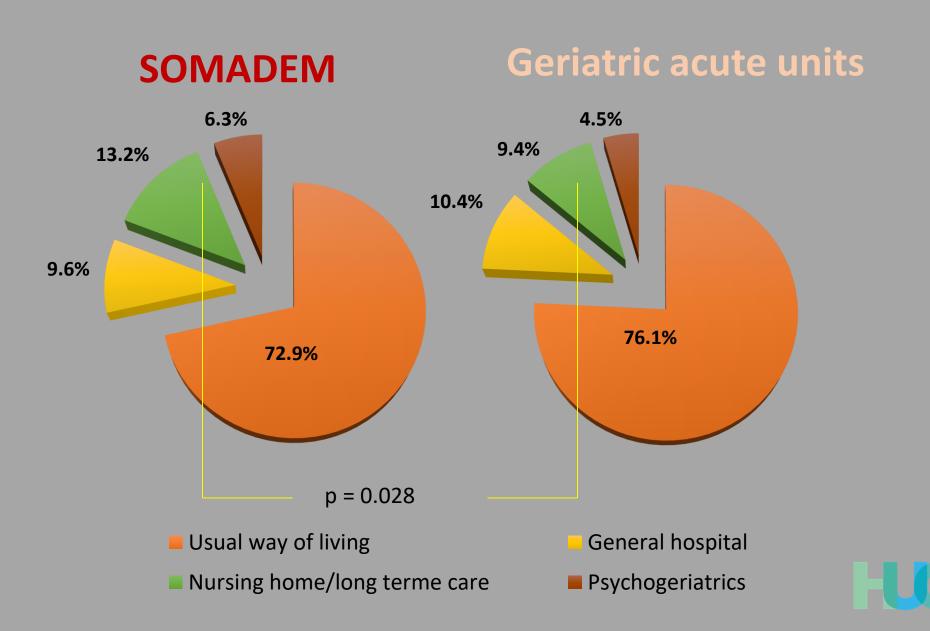


Characteristics of the Population at admission

	Geriatric acute units	SOMADEM	р
Number of admissions	806	271	
Age	84.3 ± 6.9	83.6 ± 6.9	0.166
% females (n)	60.4 (487)	55.4 (150)	0.142
% Coming from (n)			0.169
Emergency room	66.3 (533)	66.4 (180)	
General hospital	17.4 (140)	19.6 (53)	
Own home alone	8.6 (69)	5.5 (15)	
Own home partner	6.2 (50)	5.9 (16)	
Nursing home	1.0 (6)	0.4 (1)	
Psychogeriatrics	0.4 (3)	1.9 (5)	
MNA (15 items)	8.2 ± 2.9	7.9 ± 2.53	0.353



Destination after discharge



Hôpitaux

Genève

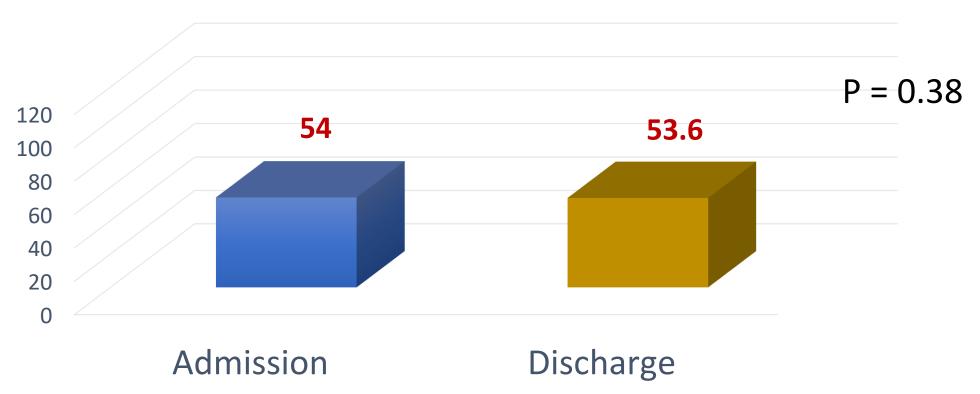
Quality Indicators

Ge	riatric acute units	SOMADEM	Р
% Falls (n)	19.1 (154)	18.8 (51)	0.498
% Intra-hospital mortality (n)	11.2 (90)	13.3 (150)	0.348
% Discharge to (n)			0.169
Usual way of living	76.1 (613)	72.7 (197)	0.326
General hospital	10.4 (84)	9.6 (26)	0.697
Nursing home/long terme car	re 9.4 (76)	13.2 (31)	0.028
Psychogeriatrics	4.5 (36)	6.3 (17)	0.218
% Mortality 3 months after discharge (n)	5.2 (24)	13.7 (22)	<0.001



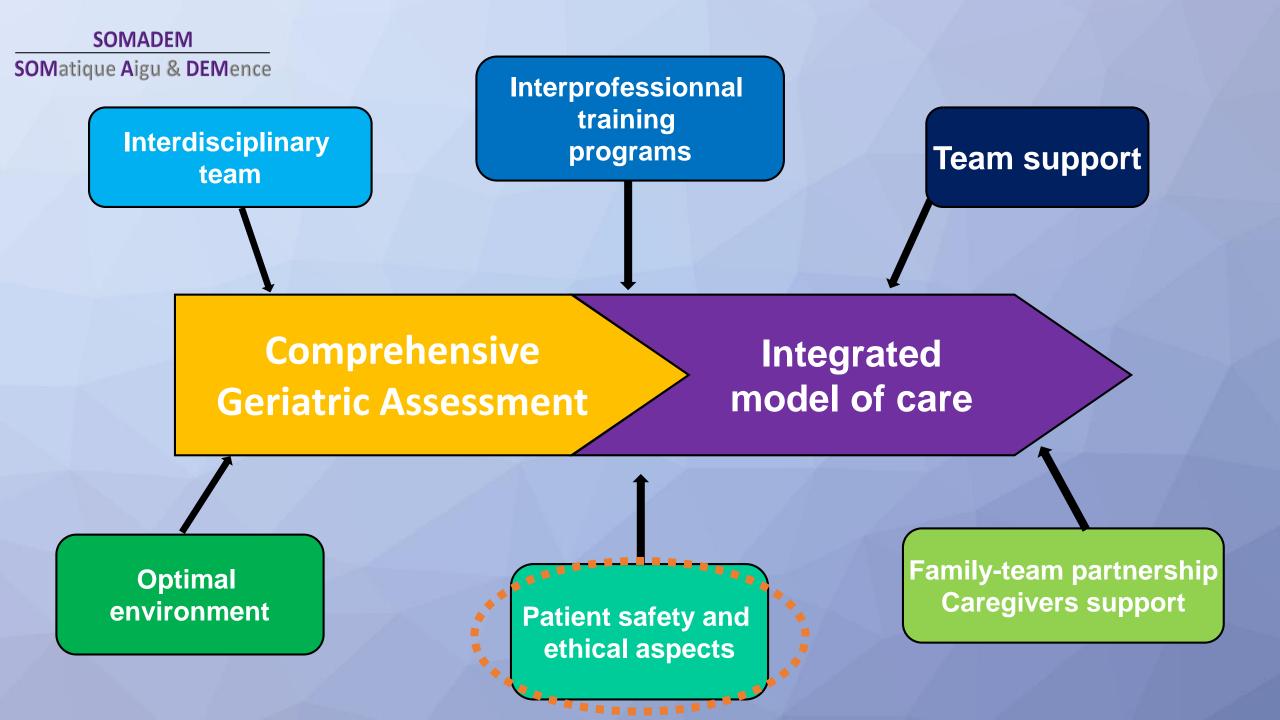
Functional decline acquired during hospitalization

Functional Independence Measure



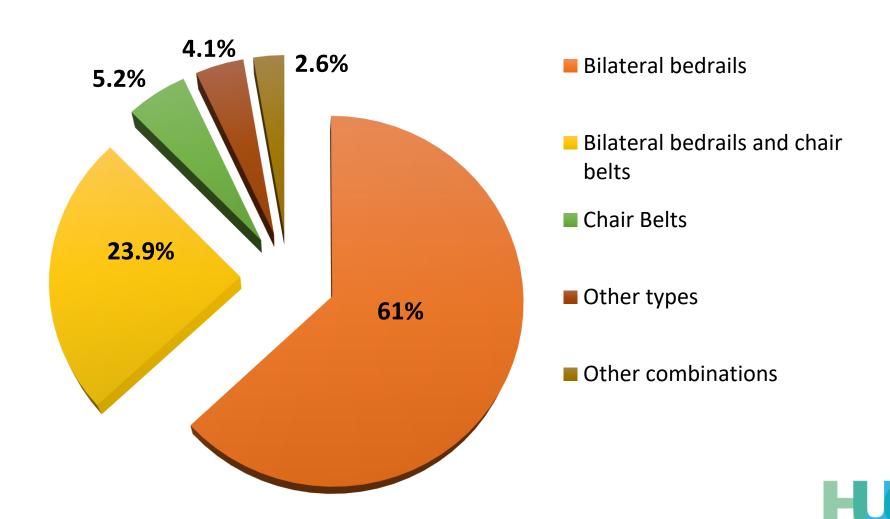
Functional Independance Measure (0-126) — higher scores indicate better functional status.



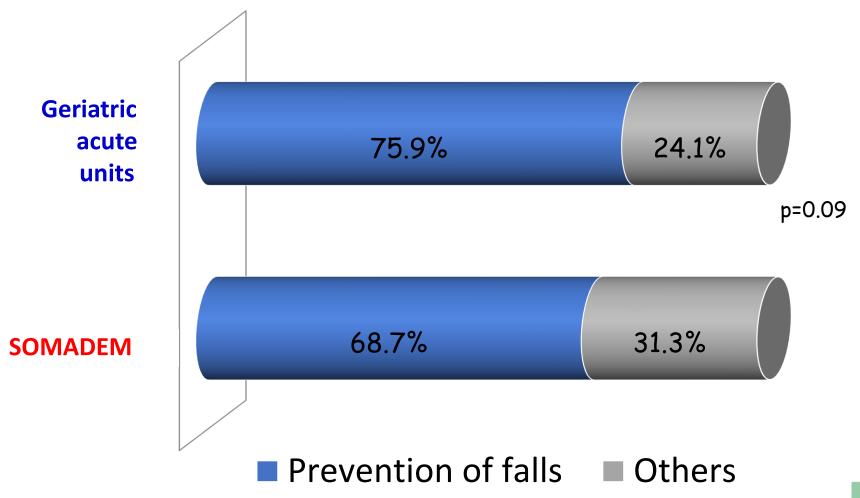


Presctiption of physical restraints

>> 28% of patients admitted to SOMADEM will have a PR prescription during the hospital stay.

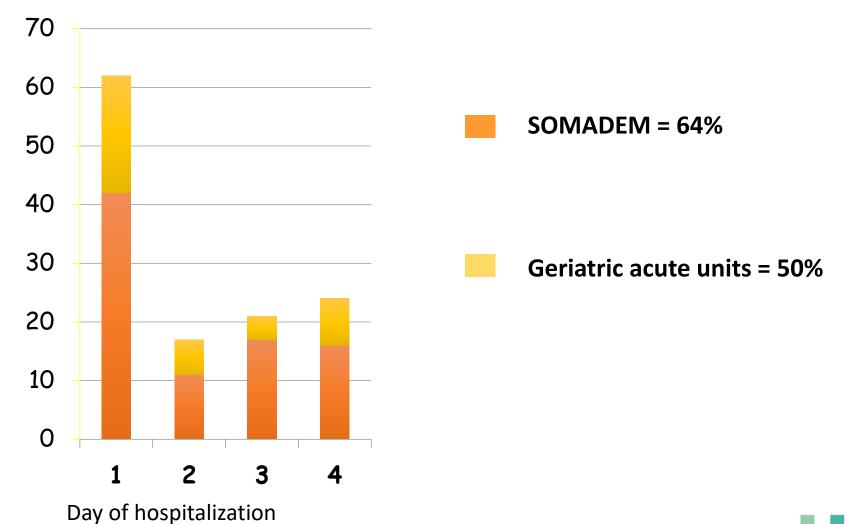


Justification for use of physical restraints

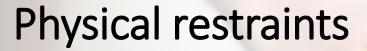




Period of hospitalization when physical restraints were introduced







Example of interdisciplinary work

 51% of prescriptions ⇒ STOP after the discussion at the interdisciplinary huddle;

 All patients with PR ⇒ at least one alternative strategy tried;

 16% of patients under PR ⇒ family participation to decrease and /or STOP use.



Conclusions

These acute care units for Alzheimer patient represent an innovative advance in the care of acutely ill hospitalized old persons with dementia;

- These units are rare;
- Lack of research specifically looking at acute unit for Alzheimer patient;
 - Need to evaluate the effectiveness and efficiency.



Thank you!

Prof Gabriel Gold, Prof Dina Zekry, Prof François Herrmann, Mme Pascale Layat-Jacquier, Mme Marie-Louise Montandon and <u>all members of the SOMADEM team.</u>

