



Objective of the 2019 AE survey

- To estimate the incidence of adverse events in medical and surgical wards in acute care public and private healthcare organisations
- To compare with 2009 results
- Two groups of AE
 - AE causes of admission
 - AE occurring during hospitalisation



Definitions

- Harm to the patient consecutive to medical management rather than to pathological process
- associated with death or life-threatening conditions, or liable to lead to disability or to an extension by (or caused the occurrence of) at least one hospitalisation day
- preventable if they would not have occurred if the care provided had complied with recommended or, in the absence of guidelines, commonly accepted practice at the time of the occurrence



Quality controls

- Unexpected visits by survey team
 - verification of the exhaustivity, exactitude and coherence of information collected
- Each questionnaire verified by survey team and completed if needed with the investigators before data entering
- Coherency tests on the database
- All AE verified by one single physician from survey team
- All cases related to a healthcare product and HA infections were reviewed by at least three experts under the coordination of two national bodies



Sample

• 4,825 patients

- 21,686 days of observation, 143 AE
 - Medicine : 11,658 days, 80 AE
 - Surgery : 10,028 days, 43 AE
- Preventability of AE
 - AE during hospitalization: 33.8 %
 - AE cause of admission: 53.5 %

4.4 SAEs (95% CI [2.9 – 6.8]) were observed in 2019 for 1,000 days of hospitalization

« 4 AEs per ward of 30 beds and per month »

« 160,000 to 375,000 SAEs occurred in 2019 during hospital stay in medicine or surgery in France »

between 55 000 et 130 000 were consisdered as preventable AE (34%)

(95,000 to 180,000 in 2009) »

2.6% [1,9-3,7] of admissions caused by an AE

«1 admission out 40 »

 « 176,000 and 372,000 stays annually caused by an AE in primary care or due to a rehospitalization »

93,000 to 197,000 preventable



- if we take into account the number of days attributable to AE
 - a median of 5.5 days for AEs occurring during hospitalization
 - all the days for events causing hospitalization (median 4 days)
- 680 000 to 1,500,000 days of hospitalization would have been avoidable

AE reporting	
AE with mandatory reporting (R. 1413-67 du décret du 25 novembre 2016) (n=61)	N (%)
AE declared in the hospital reporting system	11 (18,0)
AE reported in the national system	1 (1,6)





- Incidence density **decreased statistically** between 2009 and 2019, while it had remained stable between 2004 and 2009.
- In medicine, downward trend in all specialties, except **critical care**
- In surgery, decrease only in the academic hospitals

 Except in wards with diverse types of surgery (multiple specialties)





- Preventable AEs linked to invasive procedures decreased in the interventional sectors overall
 - not for surgical procedures
- Healthcare products mainly concerned drugs, with a similar classification of drugs most at risk in 2009 and in 2019.
 - Stability of incidence of events associated with implantable medical devices







Discussion

- A third survey in France
- No difference between the two first surveys
- Statistically significant differences 2-3rd surveys
 - surely shows that changes in preventable AE can be detected
 - Health systems should monitor AE rates over time
 - provide a very general sense of the 'burden of disease' - the degree to which safety problems cause measurable impacts on morbidity and mortality







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2022 actions plan

- Promoting and facilitating teamwork
- Improving skills in mitigating actions
- Improving reporting systems and safety culture (professionals and patients education, safety culture measurement, information campaigns)
- Improving the quality of root cause analyzes and feedback
- Analyzing for improving, role of simulation
- 4 specific areas (surgical theaters, critical care, implantable devices, discharge organization)
- An indicator of interest: rehospitalization rate

