

POSTER PRESENTATION

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Distribution of critically ill patients (CIP) with severe sepsis (SS) according to the major diagnostic categories (MDC) of the diagnosis-related groups (DRG)

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Introduction

Apart from financial purposes (cost accounting), DRG as case - mix system are not used for obtaining competitive advantage. MDC can be useful to classify the SS; if so, it is possible to assign each focus of sepsis to a specific category, which is important from a socio-economic perspective.

Objectives

- Identify which MDCs encompasses a greater or lesser number of CIPs con SS.
- Find out which MDC incorporating CIPs with SS carries a higher an average relative weight (RW).

Methods

- Type of Study: prospective, analytical, longitudinal, and observational
- Period: January 1-2011 / June 30-2014 (42 months)

Setting

Medical/Surgical ICU

- Population: 2559 CIPs admitted consecutively to the ICU; sample: 484 CIPs.
- Exclusion criteria: CIPs < 16 y., major burn CIPs, incomplete clinical documentation, and voluntary discharge.

- DRG AP-DRG 25.0 version (684 DRG are grouped into 25 MDC and 1 extra MDC).
- Depending on the focus of sepsis, SS related to MDC '0' (precategoria) are transferred to another MDC.
- MDC: 1 (neurology), 2 (eye), 3 (ear, nose, mouth, throat), 4 (respiratory), 5 (circulatory), 6 (digestive, 7 (hepatobiliary & pancreas), 8 (musculoskeletal & connective), 9 (skin & breast), 10 (endocrine), 11 (urinary tract), 12 (male reproductive), 13 (female reproductive), 14 (pregnancy & childbirth), 15 (new-born), 16: (blood & immunological), 17 (mMyeloproliferative), 18 (infectious), 19 (mental), 20 (alcohol / drug), 21 (Injuries & poison), 22 (burns), 23 (factors influencing health status), 24 (HIV), 25 (PLT), 0 (Pre-Med, miscellany)

Results

See Tables 1, 2 and 3.

Excluded MDCs (< 8 DRG with SS): '2', '3', '4', '12', '13', '14', '15', '16', '17', '19', '20', '21', '22', '23', '24' y '25'

Conclusions

- 16 MDC do not identify SS (or less than 8 DRG).
- MDC '6', '4' and '7' carry more SS, that, it respectively, correspond to the septic focus abdominal, respiratory, and biliopancreatic.
- MDC '4' and '6' show the highest RW

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Table 1 Results I

	Global	%	SS	%	no SS	%	p value
CIPs	2559	100	484	18,8	2075	81,1	
Age	65,9		73,5		64,1		0,001
Mortality	159	6,21	119	24,6	63	3,0	0,001
RW	4,21		7,9		3,35		0,001

Table 2. Results II

MDC	SS	%	average RW
1	8	1,7	8,4598
4	114	24,0	11,0677
5	30	6,3	6,1961
6	152	32,0	9,9382
7	94	19,8	4,5068

Table 3. Results III

MDC	SS	%	average RW
8	14	2,9	5,1191
9	8	1,7	4,0320
11	22	4,6	5,1687
18	33	6,9	3,7598
Global	475	100	7,9815

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