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A SUPPORTIVE CARE UNIT CAN BE COST EFFECTIVE!

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ABSTRACT

Background: Supportive care in cancer (SCC) may create a financial burden, compared to a standard cancer department. Since 2011, a specific SCC inpatient unit has been developed in an academic hospital, based on a multidisciplinary approach in order to anticipate patient's disability and limit emergency hospitalization.

anticipate patient's disability and limit emergency hospitalization. **Objective:** SCC unit expenses and benefits were compared to Medical (MO) and Gastro-Intestinal (GI) oncology departments, in order to assess its cost effectiveness. **Methods:** Data were analyzed over a six year period (2011-2016). Cost of hospital stays and cost per year were calculated based on the hospital's standard cost accounting method. Hospital benefits were calculated as the difference between total incomes and total expenses (cost and Diagnosis Related Group tariffs for the stay) and results were compared (period available for comparison 2011 to 2014).

Results: Total costs for the hospital, in the majority due to staff expenses, were lower for the SCC unit compared to MO and GI in 2011 and 2014, as well as the daily cost per stay (DCS). Benefit per year was also higher in favor of the SCC unit permitting this unit to benefit financially compared to the two other oncology units (Table).

financially compared to the two other oncology units (Table). Incomes reimbursed by the National Health system for SCC **unit** were 1,632,601 euros in 2015 and 2,096,285 euros in 2016 with a total of 357 and 408 patients admitted in the 8 bed SCC unit in 2015 and 2016 respectively.

8 bed SCC unit in 2015 and 2016 respectively. Conclusion: The SCC unit was less expensive when compared to the other oncology units in our hospital. Our results suggest that its development permitted the oncology department to enhance its quality of care without occurring any additional expenses.

METHODS

To assess activity of the Supportive Care in Cancer Unit, data were analyzed over a six year period (2011-2016).

Cost of hospital stays and cost per year were calculated based on the hospital's standard cost accounting method.

Hospital benefits were calculated as the difference between total incomes and total expenses (cost and Diagnosis Related Group tariffs for the stay).

We compared results over the available period for comparison (2011 to 2014), between 3 cancer department; medical oncology unit, GI oncology unit.

RESULTS



2014

8 Beds Expenses Comparison

(Charges Induites comparées - Examens Complémentaires)

	Labo	imagerie	EF
HC - ONCO DIG MED	128 160 €	267 462 €	104 643 €
ONCOLOGIE HOSPIT.	92 976 €	108 229 €	14 317 €
UNITE SOINS SUPPORT	22 742 €	142 341 €	6 607 €
	243 878 €	518 032 €	125 568 €

	2014 8 Beds Staff Costs					
	Med <u>Oncol</u>	GI <u>Oncol</u>	SCUPP			
Physician Workforce	344 907 €	295 217 €	86 165€			
Nurses Workforce	880 172 €	782 489 €	479 627 €			
Others	269 540 €	428 159 €	156 788 €			
Total	1 494 619 €	1 505 865 €	722 580 €			
-	16 Beds	17 Beds	8 Beds			

2014





		SCC unit	MO unit	GI unit
Total hospital costs	2011	400,450 (4 beds) [298]	2,742,165 (12 beds) [541]	1,304,182 (9 beds) [344]
[DCS] (euros)	2014	1,172,501 (8 beds) [416]	2,408,547 (16 beds) [421]	2,594,932 (17 beds) [447]
Benefit per year	2011	329,894	-638,723	18,564
(euros)	2014	603,449	326,948	-178,352
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Abbreviations: daily cost per stay – DCS; GI – Gastrointestinal; MO – Medical Oncology; SCC – Supportive care in cancer

CONCLUSIONS

The SCC unit is less expensive when compared to the other oncology units in our hospital. SCC organization may impact hospital incomes.

Our results suggest that its development permitted the oncology department to enhance its quality of care without occurring any additional expenses.