Quality Training Program

Project Title:

ANALYSIS OF THE HOSPITAL ADMISSIONS OF ONCOLOGICAL PATIENTS

Presenter's Name:

BEGOÑA CAMPOS BALEA & MARÍA FERREIRO DURÁN

Institution:

HOSPITAL UNIVERSITARIO LUCUS AUGUSTI (HULA)

Date: 14 DECEMBER 2020





Institutional Overview

- √HULA is a 3rd level hospital located in the city of Lugo (>800 beds)
- ✓It is part of the Health Care Area of Lugo, A Mariña e Monforte de Lemos
- √The Oncology Service is made up of 12 oncologists, 27 nurses, and other personnel (orderlies, administrative assistants and health assistants)
- ✓ Oncology outpatien consultations (OC) and DH (Day Hospital) in all three hospitals
- ✓UNE standard 197003 of patient safety
- ✓In the HULA we have a hospital ward with 30 beds (26 in double rooms and 4 singles) and 1 DH with 36 chairs and 2 beds, shared with Hematology





Problem Statement

An increase has been observed in the number of cancer patients admitted to the Oncology Service in recent months:

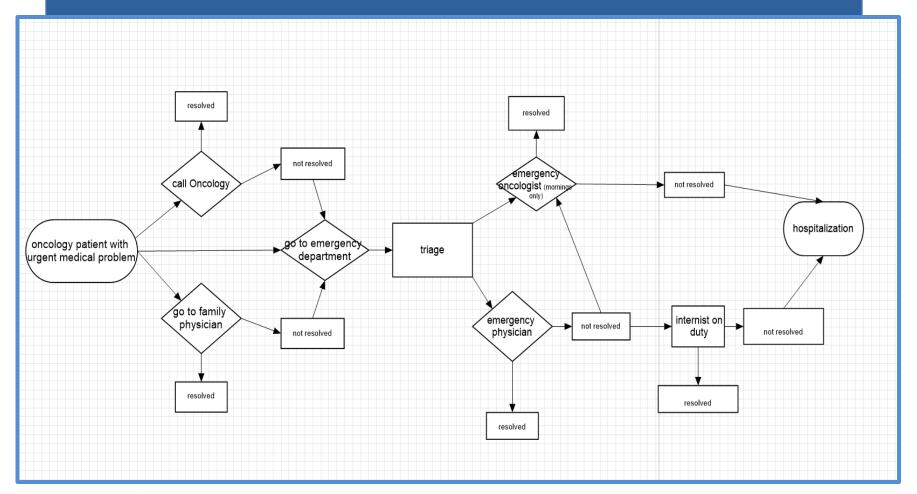
12-15 → 24-26 patients admitted / day

It affects the quality of patient care





Process Map







Team Members

- Sponsor: Sergio Vázquez Estévez -- Head of the Medical Oncology service and Radiation Oncology Coordinator
- Leader: Begoña Campos Balea medical oncologist
- Facilitator: María Ferreiro Durán nurse (Oncology Nursing) Consultant)
- •Team:
 - Laura Torrado radiotherapy oncologist
 - Jonathan Grandío emergency physician
 Pilar Rodríguez family physician

 - •Olga Roca quality départment nurse
 - Alberto Carral medical oncologist





Baseline Data

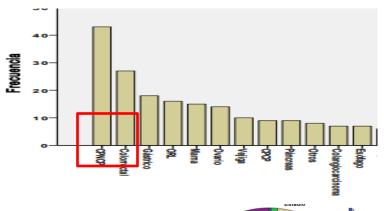
Admitted between 10/1/19 and 12/31/19 in the Oncology Service:

o 225 patients

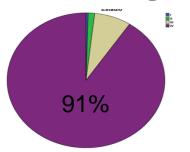
Admission from Oncology consultation 23%

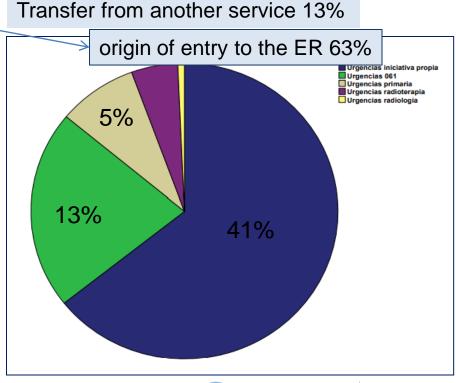
o Average age: 67 (36-92)

103 patients >70 years old (45%)



ASCO Quality Training Program







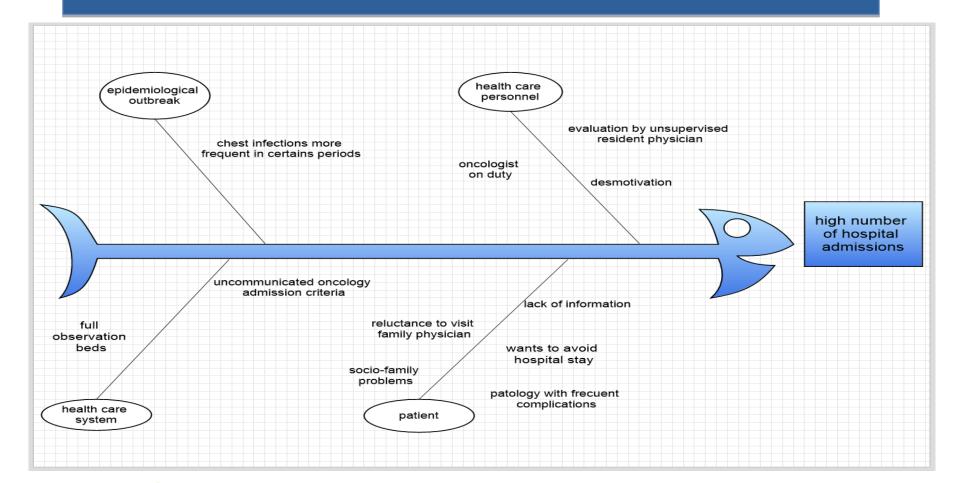
Baseline Data

Admitted between 10/1/19 and 12/31/19 in the Oncology Service:

225 patients Sintomas al Ingreso Average age: 67 (36-92) 103 patients >70 years old (45%) Frecuencia Diagnostico al Ingreso 40 Frecuencia oncology admission criteria 10-Mal control sintomático yes no **ASCO** Quality Excelencia y la Training Program Calidad de la

Oncología

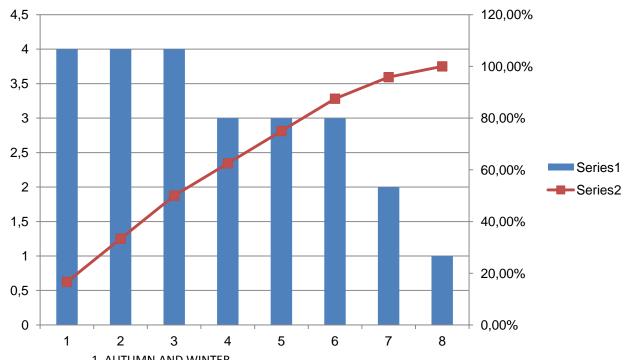
Cause & Effect Diagram







Diagnostic Data



- 1. AUTUMN AND WINTER
- 2. LACK OF DISSEMINATION OF ADMISION CRITERIA IN ONCOLOGY
- 3. THE PATIENT DOES NOT WANT HOSPITALIZATION
- 4. NO ONCOLOGIST ON DUTY
- 5. DEMOTIVATION OF HEALTH PERSONNEL
- 6. PATHOLOGY WITH FREQUENT COMPLICATIONS
- 7. SOCIO-FAMILY PROBLEMS
- 8. LACK OF INFORMATION





Aim Statement

The objective is to analyze the causes of the increase in the average number of cancer patients admitted, in order to to act on them and reduce the number of admissions.

yes

A 15 -20 %
R improves quality of care and reduces costs

decrease the number of admissions

6 months





Measures

Measures:

- Promote the flu and pneumococcal vaccination campaign in Oncology and oncology nursing consultations
- Disseminate the admission criteria for Oncology among emergency
- physicians, internists on duty and residents (Medical Director)
 Increase hours of the Oncology Emergency consultation
 Promote the oncology nursing consultation for more personalized care for cancer patients and their caregivers (TELEA design)

Patient population:

- All cancer patients under active treatment and / or follow-up in Oncology
- Calculation methodology:
 - Comparison of monthly average admissions
- Data source: hospital registry of patients admitted to Oncology
- Data collection frequency: quarterly
- Data quality(any limitations): none... ¿COVID pandemic?





Prioritized List of Changes (Priority/Pay –Off Matrix)

Easy

High	 ○Disseminate the admission criteria for Oncology among emergency physicians, internists on duty and residents (Medical Director) ○Increase hours of the Oncology Emergency consultation 	oPromote the oncology nursing consultation for more personalized care for cancer patients and their caregivers (TELEA design)
Impact		
<u> </u>	oPromote the flu and pneumococcal vaccination campaign in Oncology and oncology nursing consultations	
Low		







Prioritized List of Changes (Priority/Pay –Off Matrix)

Easy

New meeting with the working group in November

 Disseminate the admission criteria for Promote the oncology nursing consultation for more personalized care for Oncology among emergency physicians, cancer patients and their caregivers internists on duty and residents (Medical (TELEA design) High Director) oIncrease hours of the Oncology **Emergency consultation** Impact Promote the flu and pneumococcal vaccination campaign in Oncology and oncology nursing consultations Low







Prioritized List of Changes (Priority/Pay –Off Matrix)

New meeting with the working group in November

lmpact dgiH	 Disseminate the admission criteria for Oncology among emergency physicians, internists on duty and residents (Medical Director) Increase hours of the Oncology Emergency consultation Define subgroups of patients to refer to observation prior to admission 	 Promote the oncology nursing consultation for more personalized care for cancer patients and their caregivers (TELEA design) Surveys to patients and develop specific courses of symptom management
Low	oPromote the flu and pneumococcal vaccination campaign in Oncology and oncology nursing consultations oPublicize the criteria for entry into Primary Care	oCalculate percentage of cancer patients who come to the emergency room and are admitted



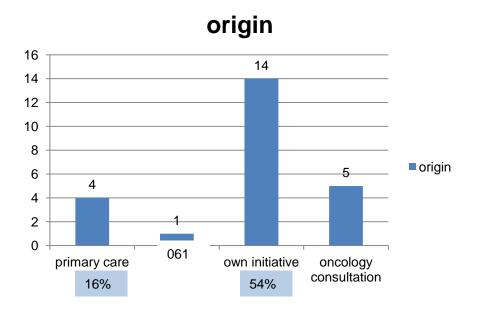




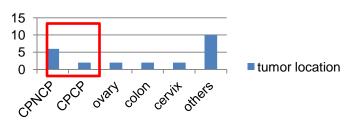
New data (I)

Admitted between 9/11/20 and 15/11/20 in the Oncology Service:

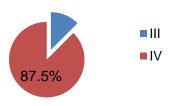
- 28 patients (4 not evaluable)
- Average age: 68 (50-91)
- 8 patients >70 years old (33%)



tumor location



tumor stage



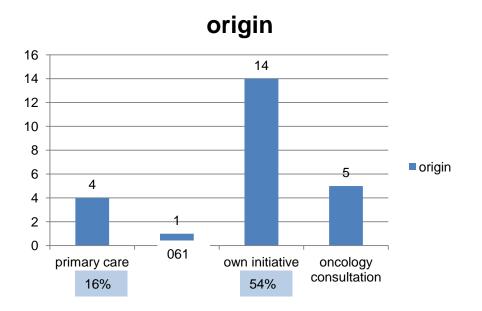




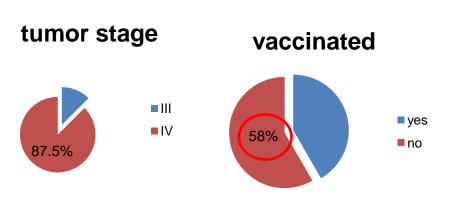
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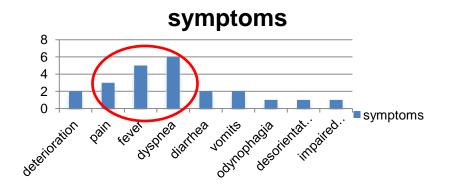
tumor location 15 10 5 0 tumor location tumor location



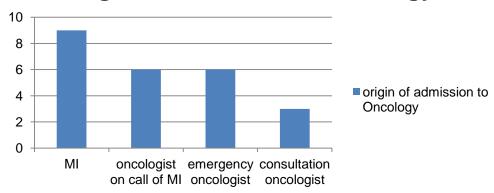




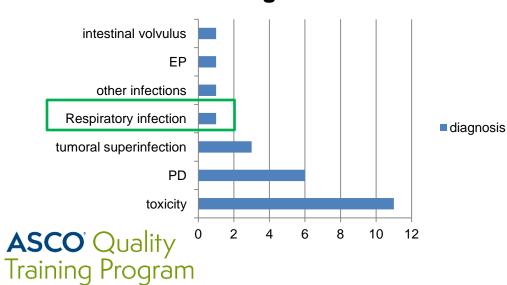
New data (II)



origin of admission to Oncology



diagnosis



oncology admission criteria





Date of PDSA Cycle	Description of Intervention	Results	Action Steps
15/09/20	Publicize the criteria for admission to Oncology		
	oSubsequent survey of the physicians of their knowledge		
	oReview the percentage of patients admitted to Oncology		
6/10/20	Spread the flu and pneumococcal vaccination campaign		
	oAnalyze the percentage of vaccinated among the oncological population that attends consultation and among those admitted		
	oSee the percentage of respiratory infections among those admitted		





Date of PDSA Cycle	Description of Intervention	Results	Action Steps
15/09/20	Publicize the criteria for admission to Oncology	<u>9-15/11/00</u>	
	oSubsequent survey of the physicians of their knowledge	oThe 75% know the criteria	
	oReview the percentage of patients admitted to Oncology	oEntry criteria are met in 83% (vs 85% in 2019)	
6/10/20	Spread the flu and pneumococcal vaccination	<u>9-15/11/00:</u>	
	campaign oAnalyze the percentage of vaccinated among the oncological population that attends consultation and among	o50% of patients who attend the Oncology consultation are vaccinated o 42% vaccinated in patients admitted	
	those admitted	Respiratory infections admitted:	
	 See the percentage of respiratory infections among those admitted 	1:24 (0.04%) vs 20:225 (0.08%)	





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15/09/20	Publicize the criteria for admission to Oncology	<u>9-15/11/00</u>	
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6/10/20	Spread the flu and	<u>9-15/11/00:</u>	
	pneumococcal vaccination		
	campaign	o50% of patients who attend the	
	Analyza the negonitors of	Oncology consultation are	
	 ○Analyze the percentage of vaccinated among the 	vaccinated	
	oncological population that attends consultation and among	admitted	
	those admitted	 Respiratory infections 	
		admitted:	
	○See the percentage of respiratory infections among	1:24 (0.04%) vs 20:225 (0.08%)	
	those admitted	* Due to measures for the	
		COVID pandemic, respiratory	
SCO Quality aining Progran		infections would already	Fundación pa
pinina Program	n	decrease	Excelencia y Calidad de la
aning Frogram	1		Oncología

Date of PDSA Cycle	Description of Intervention	Results	Action Steps
15/09/20	Publicize the criteria for admission to Oncology	<u>9-15/11/00</u>	
	oSubsequent survey of the physicians of their knowledge	oThe 75% know the criteria	Remember them quarterly
	oReview the percentage of patients admitted to Oncology	oEntry criteria are met in 83% (vs 85% in 2019)	
6/10/20	Spread the flu and	<u>9-15/11/00:</u>	
	pneumococcal vaccination		
	campaign	o50% of patients who attend the	
		Oncology consultation are	∘Further enhance this
	oAnalyze the percentage of	vaccinated	measure from consultatio
	vaccinated among the	○ 42% vaccinated in patients	
	oncological population that	admitted	○Raise awareness in
	attends consultation and among	Doominate my info ations	Primary Care of the
	those admitted	Respiratory infections admitted:	priority of the vaccine in
	oSee the percentage of respiratory infections among	1:24 (0.04%) vs 20:225 (0.08%)	cancer patients
	those admitted	* Due to measures for the	
		COVID pandemic, respiratory	
SCO [®] Quality	1	infections would already	Fundaci
Quality	_	decrease	Excelen Calidad
SCO ' Quality aining Progran	1	decrease	

PDSA Plan... The future...

Date of PDSA Cycle	Description of Intervention	Results	Action Steps
23/11/20	Surveys of patients to detect problems in home management of certain symptoms	PainVomitingDiarrheaConstipationMucositis	Develop specific courses for patients and caregivers relatives of
December 2020	Review of certain admission criteria with the emergency room doctors to establish admission criteria for emergency observation	 Poor analgesic control Febrile neutropenia with good prognosis Small symptomatic brain metastases 	Visit of the oncologist every working day first hour in the morning to assess emergency observation patients





Materials Developed (optional)





CRITERIOS DE INGRESO EN EL SERVICIO DE ONCOLOGÍA MÉDICA DEL HULA

- Complicaciones directas del tratamiento oncológico.
- Urgendas oncológicas directamente relacionadas con el tumor (hipercalcemia tumoral, hiponatremia por SIADH, compresión medular, síndrome de vena cava superior, metástasis cerebrales, etc.).
- 3. Mal control analgésico en paciente oncológico, que precise ingreso.
- 4. Infecciones de cualquier tipo en pacientes con tratamiento activo

NO SON MOTIVO DE INGRESOEN ONCOLOGÍA:

- Descompensaciones de Diabetes Mellitus
- 2. Tromboembolismo pulmonar.
- 3. Trombosis venosas profundas.
- Pacientes seguidos por la Unidad de Cuidados Paliativos del HULA (según quedaría reflejado en IANUS).
- 5. EPOC reagudizado.
- 6. Insuficiencia cardíaca.
- Infecciones de cualquier tipo en pacientes oncológicos sin tratamiento activo.





 Derrames pleurales sintomáticos subsidiarios de tubo de tórax y pleurodesis. Estos pacientes ingresarán a cargo del servicio de Neumología.

Los pacientes <u>no seguidos por el servicio de Oncología</u>, que precisen ingreso hospitalario, no se ingresan en Oncología:

Los ingresos se realizarán a cargo del Servicio responsable y, en caso de precisar atención oncológica, se realizará interconsulta al Servicio de Oncología para solicitar valoración y eventual traslado.

Actualizados a fecha de 15 de septiembre de 2020

Fernando F. Lamelo

Director de Atención Hospitalaria





Materials Developed (optional)



SERVIZO | Área Sanitaria de Lugo, A Mariña GALEGO | e Monforte de Lemos

ENCUESTA DIRIGIDA A FACULTATIVOS DEL HULA QUE REALICEN GUARDIAS DE MEDICINA INTERNA

- 1- ¿Sabes que existen unos criterios de ingreso en Oncología?
 - o Si
 - o No
 - No sabe/No contesta
- 2- ¿Conoces esos criterios?
 - o Sí
 - o No
 - No sabe/No contesta
- 3- ¿Están accesibles esos criterios en la intranet?
 - o Sí
 - o No
 - No sabe/No contesta
- 4- ¿Crees que deberían difundirse más para su adecuado conocimiento?
 - o Sí
 - o No
 - o No sabe/No contesta

SUGERENCIAS

GRACIAS DE NUEVO POR VUESTRA COLABORACIÓN

Por favor, cubrir y enviar por correo interno a la consulta de Oncología, Dra. Campos, 2º planta, bloque A. 202, o a la secretaria de la Unidad 4B.

25 doctors answered the survey (19 + 6)

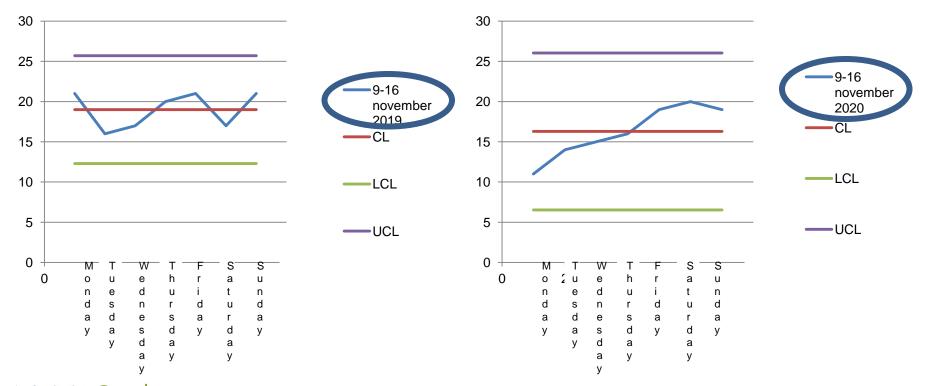
- 1. They know there are admission criteria in Oncology: 23:25 (90%)
- 2. They know the criteria for admission to Oncology: 19:25 (75%)
- 3. They know where to look for them: 11:25 (44%)
- Believe they should be more widely spread: 12:25
 (48%)





Change Data

Average number of admissions







Conclusions

 Cancer patients present a complex pathology, with difficult symptomatic control, which requires frequent hospital admissions
 Especially in stages IV and in lung cancer

- Calls to 061 have been reduced and consultation in Primary Care has increased before going to the Emergency Room
- Admissions for pain and fever have decreased
 It probably reflects the work carried out from the Oncology consultation and the
 Oncology nursing consultation in the "education" of the patient and their family
- Admissions for respiratory infections have decreased
 Possible role of influenza and pneumococcal vaccination, and most likely due to the beneficial effect of the anti-COVID campaign





Conclusions

 Despite having disseminated the admission criteria among the physicians responsible for them, the percentage of compliance with these criteria has not improved

We will keep trying ...

 We would like to be able to continue with the project given the existing limitations this year beyond our control that have prevented us from fulfilling the proposed improvement projects





Next Steps/Plan for Sustainability

- Remember the criteria for admission to Oncology quarterly
- o Further enhance the **vaccination campaign** from consultation
- Raise awareness in Primary Care of the priority of the vaccine in cancer patients
- Develop specific courses for patients and families to manage certain symptoms
- Continue evaluating the results
 collect data from patients admitted one week, twice a year
- Continue to improve the project over time





Entity: HULA

ANALYSIS OF THE HOSPITAL ADMISSIONS OF ONCOLOGICAL PATIENTS

AIM: The objective is to analyze the causes of the increase in the average number of cancer patients admitted, in order to to act on them and reduce the number of admissions by 15-20% within 6 months.

INTERVENTION: After analyzing the most frequent reasons for admission of cancer patients by the team, improvement measures have been established to try to reduce them by 15-20%:

- Promote the flu and pneumococcal vaccination campaign in Oncology and oncology nursing consultations
- Disseminate the admission criteria for Oncology among emergency physicians, internists on duty and residents (Medical Director)
- Increase hours of the Oncology Emergency consultation
- Promote the oncology nursing consultation for more personalized care for cancer patients and their caregivers (TELEA design)

Due to the current health situation, the adequate implementation of these measures has not been possible. Despite them, we have noticed beneficial changes for our objective

•TEAM:

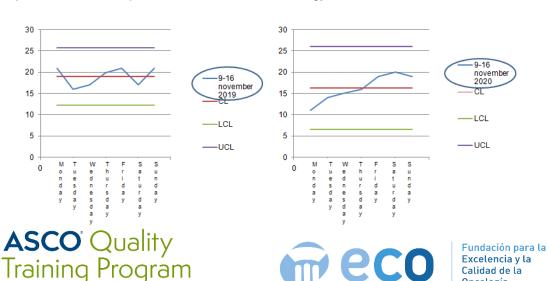
- ·Leader: Begoña Campos Balea
- •Facilitator: María Ferreiro Durán
- •Team:
- •Laura Torrado radiotherapy oncologist •Jonathan Grandío – emergency
- •Jonathan Grandío emergency physician
- •Pilar Rodríguez family physician
- •Olga Roca quality department nurse
- •Alberto Carral medical oncologist

PROJECT SPONSORS:

Sergio Vázquez Estévez - Head of the Medical Oncology service and Radiation Oncology Coordinator

RESULTS:

Graph title: number of patients admitted to the Oncology service: November 19 / November 20



CONCLUSIONS:

- Cancer patients present a complex pathology, with difficult symptomatic control, which requires frequent hospital admissions
- $_{\odot}$ Calls to 061 have been reduced and consultation in Primary Care has increased before going to the Emergency Room
- o Admissions for pain and fever have decreased
- o Admissions for respiratory infections have decreased
- Despite having disseminated the admission criteria among the physicians responsible for them, the percentage of compliance with these criteria has not improved

NEXT STEPS:

Oncología

- O Remember the criteria for admission to Oncology quarterly
- o Further enhance the vaccination campaign from consultation
- \circ Raise awareness in Primary Care of the priority of the vaccine in cancer patients
- \circ Develop specific courses for patients and families to manage certain symptoms
- o Continue evaluating the results (collect data from patients admitted one week, twice a year)
- o Continue to improve the project over time