Quality Training Program

Optimization of the management of a medical oncology consultation (OM) and decrease of the waiting time linked to the administration of a systemic treatment

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University Hospital Marqués de Valdecilla

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Institutional Overview

- The Marqués Valdecilla University Hospital (HUMV) is the main hospital in Cantabria and is a reference center for the Community and for other geographical areas. The Medical Oncology Service performs its assistance, research and teaching work in the External Consultations and in the Hospitalization.
- The medical staff of the Medical Oncology Service is composed of 1 Head of Service, 12 Staff and 2 Residents per year (10 Residents in total)
- The activity of external consultations during the year 2017 is detailed below: 1,276 first consultations and 18,332 successive consultations, a figure that has increased in recent years





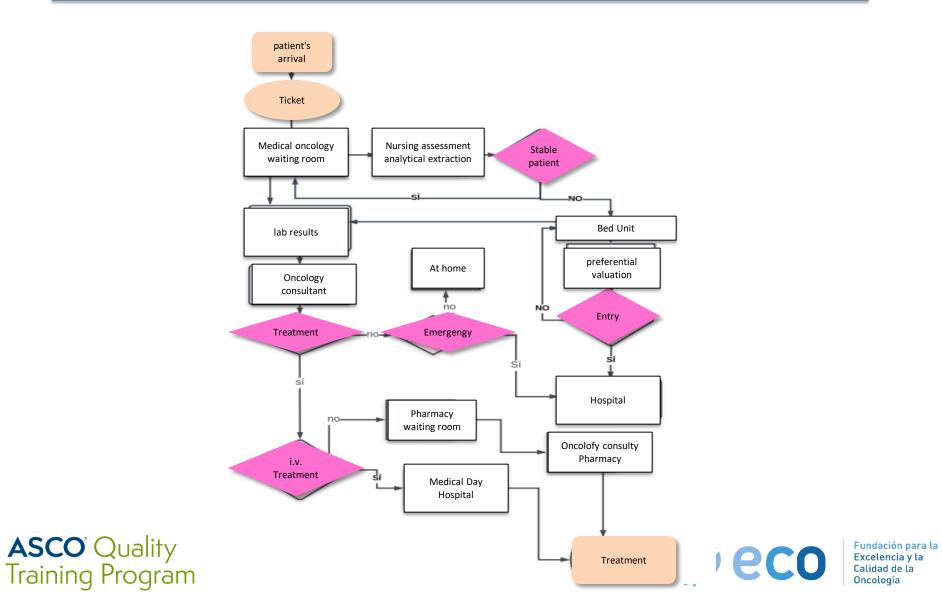
Problem Statement

- 30% (n = 21) of cancer patients experienced a hospital stay of more than 4 hours in the period from November 15-27, 2018
- Oncology patient care must be multidisciplinary and involve different services
- The administration of systemic treatment (both oral and intravenous) involves the Oncology Pharmacy units, the Medical Day Hospital and the outpatient clinics of medical oncology
- The lack of coordination between these units implies an increase in the hospital stay of outpatients with the consequent impairment in their quality of life





Process Map



Team Members

Almudena García Castaño and Raquel Jimeno Maté

Virginia Martínez Callejo (Oncology Pharmacy) Marisol González Sobrado (Consultation nurse) Carlos Rodriguez de la Vega (Day hospital nurse) Ignacio Magaldi (administrative assistant of consultation)

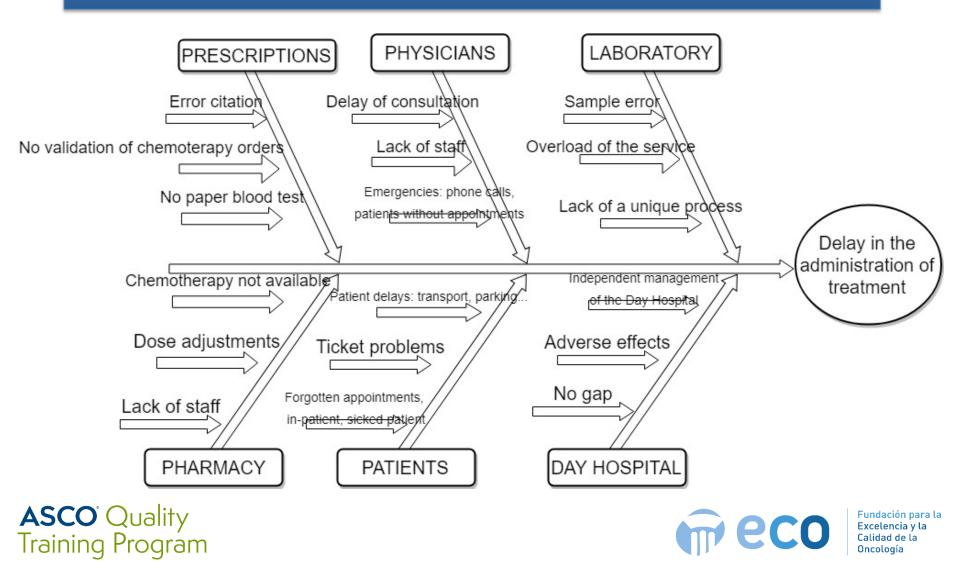
Fernando Rivera Herrero (OM chief of service)

Patients and families





Cause & Effect Diagram



Diagnostic Data (I)

Patient's arrival time (ticket)OralAnalytical extraction timeIV.Time of consultation in medical oncology- 5Consultation time in Oncology PharmacyStart time of treatment in the medical day hospital (MDH)

Time from arrival (ticket) to analytical Time from analytics to consultation Time from OM consultation to Oncology Pharmacy Time from OM consultation to MDH treatment

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N = 69 Oral treatment: 26 IV. treatment: 43 - same day 14



Diagnostic Data (II)

- Patients with ORAL treatment (n 26)
 - Pharmacy dispensing time Ticket pickup time
 - 3h 51min (231 minutes) on average
- Patients with I.V. treatment (N=43)
 - (Time of consultation time collected ticket) + (day of administration in HDM)
 - Same day = 5h 23 min (323 minutes) on average
 - Different day = 43 hours (2576 minutes)

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Aim Statement

- Decrease the waiting time in the hospital and improve the care and quality of life of the oncological patient in treatment
- ✓ In those patients with oral treatment it would be desirable to have a hospital stay of no more than 3 hours (3h51min) and in those with iv treatment a hospital stay of no more than 4 hours (5h23min) (if the treatment is that day)





Measures

- Measure: hour of analytical extraction (theoretical and real), time of consultation (theoretical and real), time dispensation (theoretical and real) and time of administration of endovenous treatment (theoretical and real).
- Population of patients: patients cited in an OM consultation under treatment (between 11/15 and 11/27/2018).
- Methodology of calculation: average waiting time in the HUMV
- Data source: Citation program (Ticares) and computerized clinical history of HUMV (Altamira)
- Frequency of data collection: consultation number 267 on days 15, 19, 21, 22 and 27 of November 2018.

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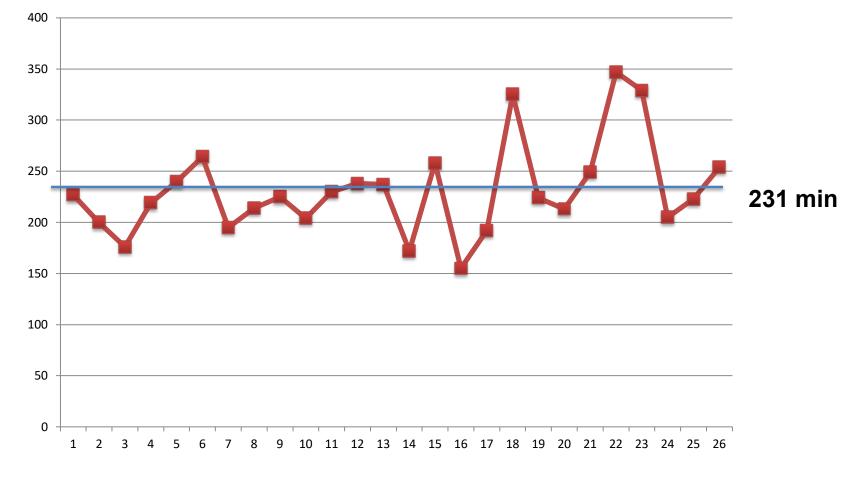


Fundación para la Excelencia y la

Oncología

Expected times	Identification problem delay
Ticket \rightarrow Extraction (15 minutos)	Patients/prescription/nurse
Extraction \rightarrow Consulty (60 minutos)	Laboratory/Doctor
Consulty \rightarrow Pharmacy (15 minutos)	Pharmaceutical dispensation
Consulty \rightarrow Medical Day Hospital	Medical Day Hospital

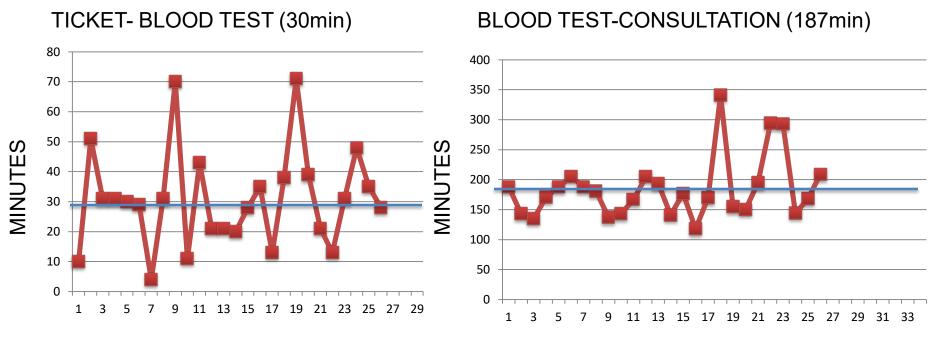
Patients with ORAL treatment (I)



PATIENTS NUMBER

MINUTES

Patients with ORAL treatment (II)



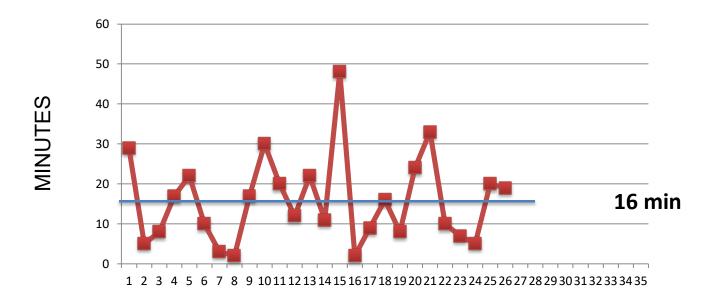
PATIENTS NUMBER

PATIENTS NUMBER



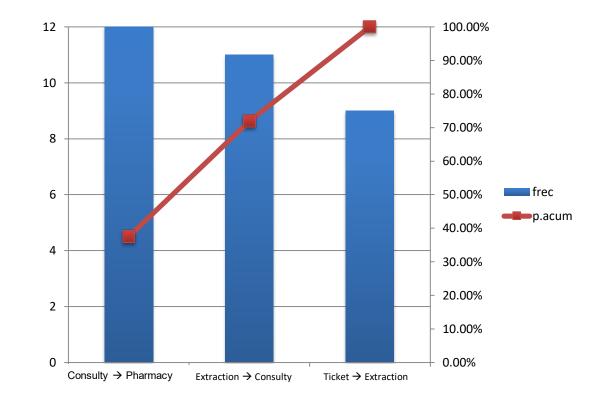
Patients with ORAL treatment (III)

• CONSULTATION – PHARMACY (16 minutes)



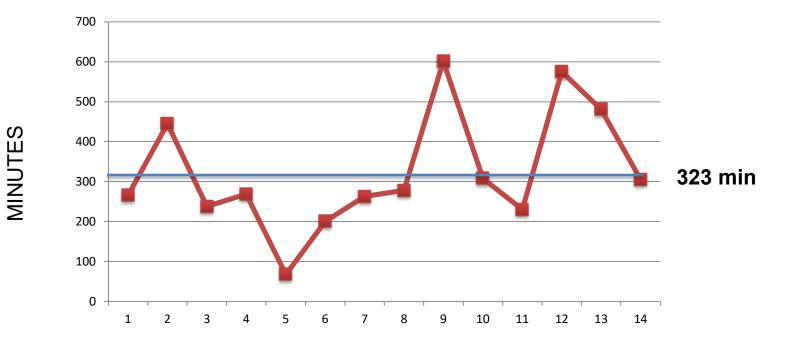
PATIENTS NUMBER

Pareto: ORAL TREATMENT



PATIENTS

Patients with I.V. treatment (same day) (I)



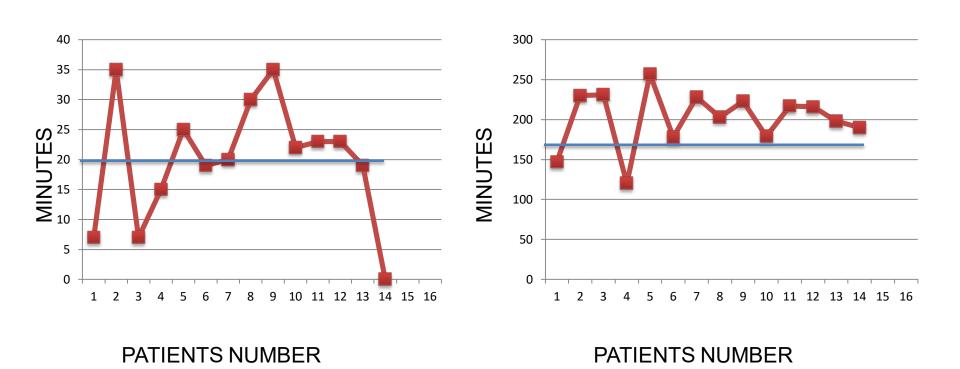
PATIENTS NUMBER



TICKET-ANALÍTICA (20 min)

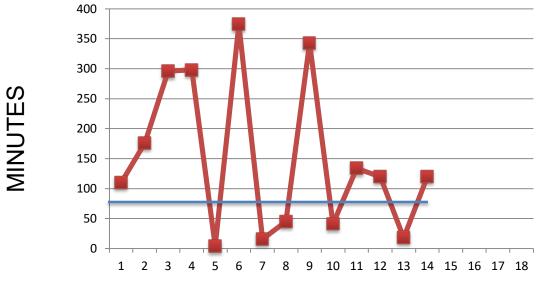
Patients with I.V. treatment (same day) (II)

ANALÍTICA-CTA (174 min)



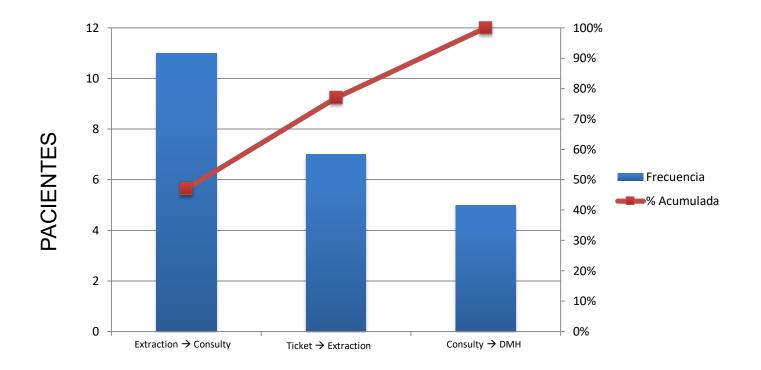
Patients with I.V. treatment (same day) (III)

CONSULTATION-DAY HOSPITAL (149 minutes)



PATIENTS NUMBER

Pareto: I.V. treatment (same day)



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

High	•	Analytic outside the hospital (in clinic) Analytic every 15 minutes Stepped extractions Do not duplicate information	•	Medical Day Hospital united to Oncology Prioritize oncology analytics support doctor
and the sect	•	Check treatment day before	•	More sites in medical day hospital
		Easy		Difficult

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Ease of Implementation



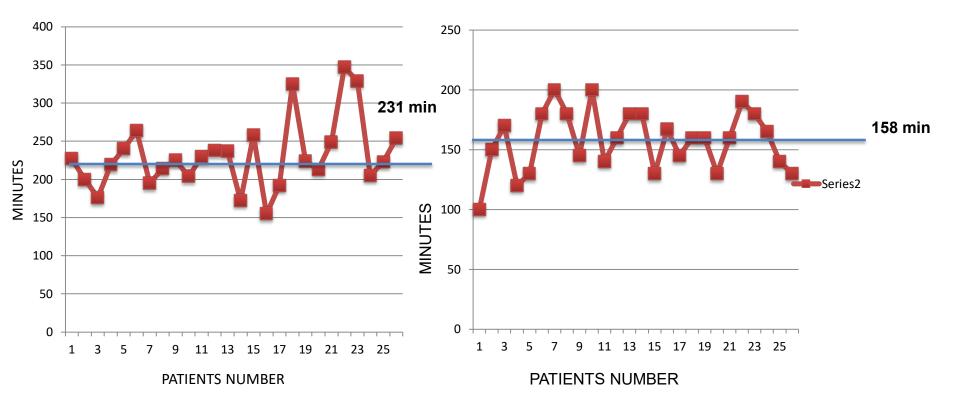
PDSA Plan (Test of Change)

Date of PDSA Cycle	Description of Intervention	Results	Action Steps
15 – 27 / Nov / 2018	 Patient identification Data collection Identification of the problem (waiting time of patients in the consultation of excessive medical oncology) Identification of medical services involved in the problem Creation of work group 	 Base-line data Identification problem delay 	 Analysis of obtained data Improvement measures Brainstorming
21-25 / Jan / 2019	 Working group meeting Data presentation Brainstorming Chief service meeting Responsible laboratory meeting Nurses meeting 	 Plan of action Patients with oral treatment Patients with i.v. treatment (same day) Decide order of improvement measures 	Analysis of obtained data
4-8 / Feb / 2019	 Adapt laboratory use Analytical extractions outside the hospital in patients with oral treatment (some days before) 	Decreased waiting time in the hospital	 Analysis of obtained data Evaluation of results
25 – 28 / Feb / 2019	 Adapt laboratory use Analytical extractions inside the hospital in patients with i.v. treatment Send analytical steps to the laboratory (every 15 minutes) Stepped analytical extraction (citation of patients every 30 minutes) 	Decreased waiting time in the hospital	 Analysis of obtained data Evaluation of results
SCO 1-1/abit//2019 aining Program	 Working group meeting Data presentation Plan reevaluation 	Plan of action e	Creation meetingsion Excelenci periodic groupad de work

Change Data

Patients with ORAL treatment (I)

Patients with ORAL treatment (I)



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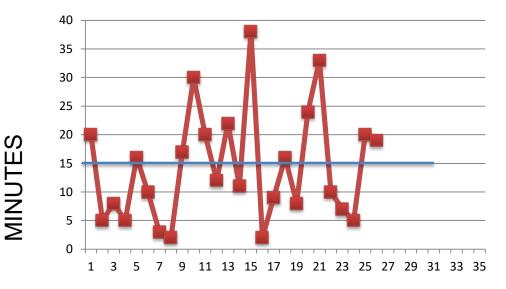


Change Data

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Patients with ORAL treatment (III)

CONSULTY – PHARMACY (15 minutes)

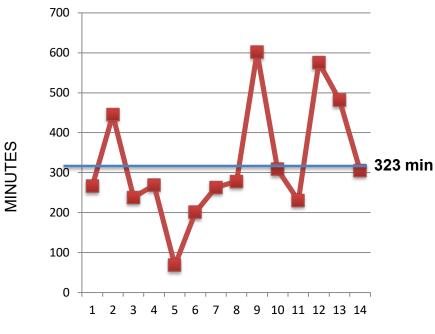


PATIENTS NUMBER



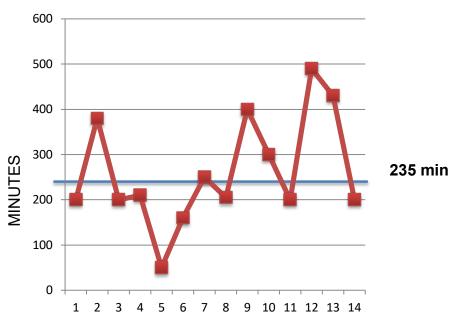
Change Data

Patients with I.V. treatment (same day)



PATIENTS NUMBER

Patients with I.V. treatment (same day)



PATIENTS NUMBER





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Conclusions

- For the implementation of this project it has been fundamental
 - Creation of a working group
 - Coordination of services involved
 - Identification of the problem
 - Improvement medical identification
 - Implementation of improvement measures
 - We have been able to meet our objective





Next Steps/Plan for Sustainability

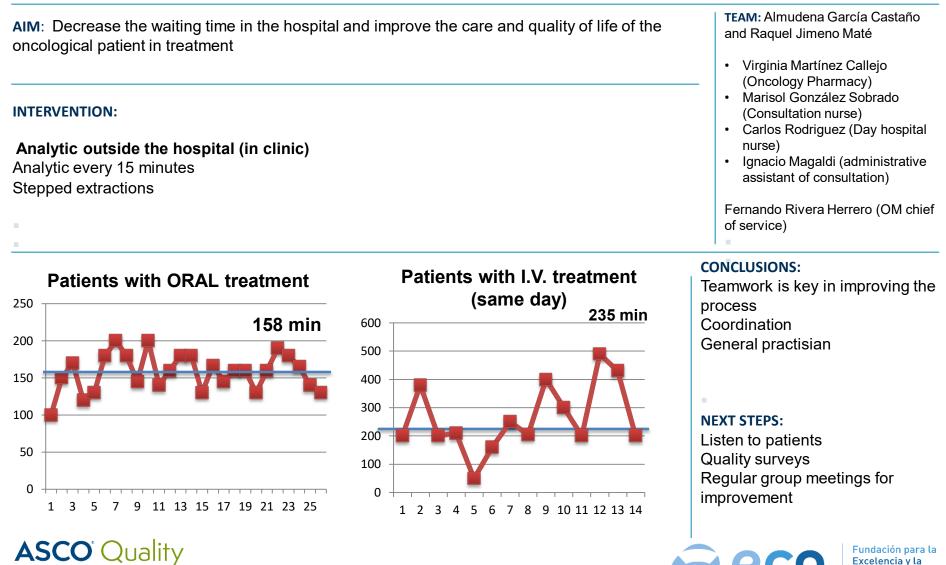
- Listen to patients
- Quality surveys
- Improve outsite hospital coordination
- Regular group meetings for improvement





Calidad de la Oncología

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