Quality Training Program

Project Title: Optimization of screening tools in patients eligible to receive Immune Checkpoint Inhibitors (ICPI)

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Institution: La Paz University Hospital, Madrid-Spain

Date: April 8, 2019





Institutional Overview



Institutional Overview

Medical Oncology Department



14 Oncologist

15 Fellows (3 Fellows/year)

<u>Units:</u>

A: Breast, Gynecological, Genitourinary,, head and neck cancer, Melanoma, Sarcoma and brain tumors

B: Digestive and thoracic tumors sections. Neuroendocrine tumors

Cross – sectional consultations:

- Hereditary Cancer
- Long survivors
- VTD in cancer patients

Hospitalization



Institutional Overview



Immune Checkpoint Inhibitors

Incorporation of a new therapeutic group

Different side effects

Variability in prevention and management of immune related side effects

Implementation of protocols





ICPI, 2017-2018







45% immune related side effects*:

Impact on Quality of care

- Delay in treatment administration (33%)
- Definitive suspension of treatment (11%)
- Increase in the number of visits to the emergency room and Unscheduled visits
- Interconsultations another medical specialists
- Increase of costs

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- Patients dissatisfactions with the treatment administred

*CLINICAL TRIALS DATA:

Pembro 74% EAir, 26% G3-G5 Nivo 61% EAir, 15% G3-G4



An adequate baseline screening is performed before receiving treatment with ICPI ?





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Process Map



Cause & Effect Diagram



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Diagnosis data

Basal evaluation of liver, renal and endocrine function



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Diagnosis Data

Basal analysis of chronic infections



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BCO

Diagnosis Data

Basal physical examination and heart function





Diagnosis Data





Oncología

Process Improvement Team Members

- Sponsor: Dr. Feliu
- Medical Team:
 - Dr. Higuera, Dra. Ostios.

In charge of identification of the problem, design of the program, analysis and monitoring of the results

- Medical oncologist Day Hospital In charge of recruitment of patients treated with ICPI

• Nurse team:

- In charge of processing samples





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

High	 Medical and Nurse team education. Early identification of patients eligible to receive immunotherapy. Implementation of standardized protocols (PNT) related to immunotherapy. 	- Multidisciplinary board team - Immuno-Oncology Unit
Minpact No	 Patient education by oncologist and nurse. Provide written information and phone contact to patients. 	- APP to record irAE - Emergency Unit and Primary Care education

Easy

Difficult

ASCO[®] Quality Training Program **Ease of Implementation**



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Measures PROCESS

• <u>Selection of patients:</u>

- **1. Inclusion criteria:** Adult patients who, for the first time, will receive immunotherapy regardless the line of treatment and type of tumor
- 2. Exclusion criteria: Patients who are participating in clinical trials.
- <u>Process measurement steps</u>
 - Develop a **profile of screening tests** in the electronic medical.
 - Selection of candidates for ICPI during the period January-April 2019.
 - **Review of screening tests** before administration of the first dose of immunotherapy.
 - Implementation of **standardized protocols (PNT)** related to of immune mediated side effects.





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PDSA Plan (Test of Change)

Date of PDSA Cycle	Description of Intervention	Results
Jan-15 to Feb-1	1. Protocol design	
Feb-1 to Feb-20	 Education to oncologist and nurses Computer template design with data to be collected 	
Feb- 20 to Mar-31	 Identification of candidates for immunotherapy. Informative document with possible complications and advice for patients and relatives Collection and evaluation of screening data. Tracking complications irAE 	

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Conclusions

- Improvement in the collection of screening data.
- Tests that depend on **interventionism or collaboration with other specialties** (mantoux, echocardiogram ...) are not performed.
- Alterations in the tests prior to immunotherapy in a significant number of patients, which could lead to possible toxicities or interactions with the immunological treatment.
- We are on the right track, but it is still necessary to continue improving.







Next Steps/Plan for Sustainability

୍ୟୁ ମୁଖ୍ୟ Impact	 Medical and Nurse team education. Early identification of patients eligible to receive immunotherapy. Implementation of standardized protocols (PNT) related to immunotherapy. 	- Multidisciplinary board team - Immuno-Oncology Unit
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