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COVID-19 pandemic impact on lung cancer patients performance status and access to treatment

A comparative study pre and during COVID-19 era

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INTRODUCTION

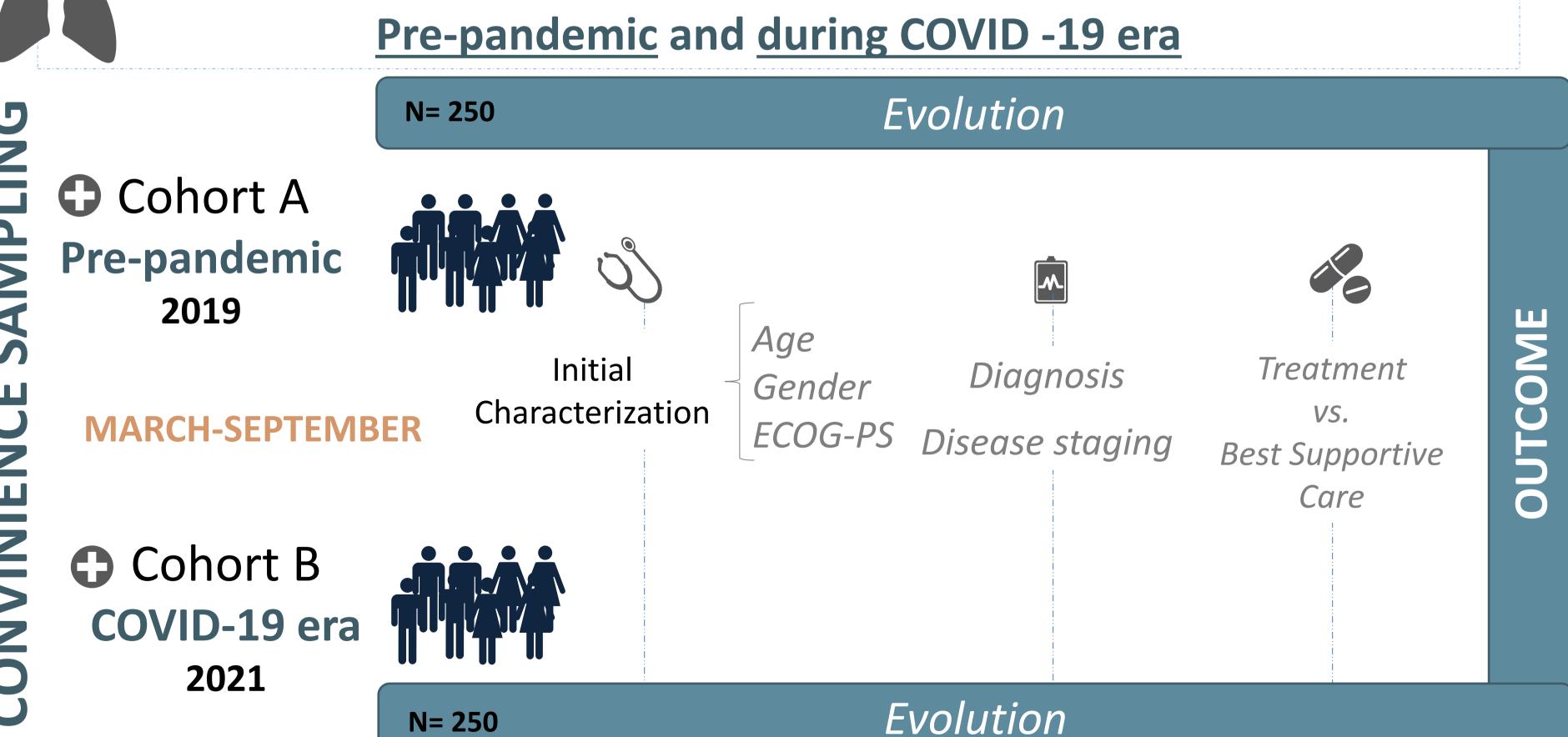
- COVID-19 represents a large health care consuming problem worldwide.
- The real impact of the pandemic among non-COVID patients is still undetermined.
- Cancer patients encountered profound changes in health care accessibility.
- Unknown impact in their diagnosis, access to treatment and outcomes.

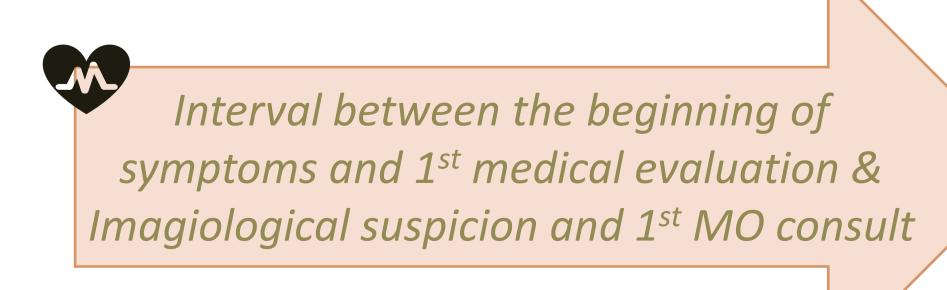
METHODS

RETROSPECTIVE COHORT STUDY

1st Medical Oncology (MO) consult patients with lung cancer during an homologous time period

Pre-pandemic and during COVID -19 era





Overall survival

Access to treatment/ Early referral to

best supportive care

RESULTS

VARIABLES		2019		2021		p value
AGE	Years	65,6	±10,5	66,8	±9,6	0,2
SEX	Male	189	76%	182	73%	
	Female	61	24%	68	27%	0,46
HISTOPATHOLOGY	Non Small Cell Lung Cancer	209 (N=239)	87,4%	222 (N=246)	90,2%	0,33
	Small Cell Lung Cancer	30	12,6%	24	9,8%	
STAGING		37	14,8%	20	8,0%	
	II	11	4,4%	23	9,2%	
	III	32	12,8%	39	15,6%	0,037
	IV	165	66,0%	162	64,8%	
	ND	5	2,0%	6	2,4%	
ECOG –PS	≤2	224	89,6%	218	87,2%	0,40
	≥3	26	10,4%	32	12,8%	
TIME SINCE THE BEGINNING OF SYMPTOMS UNTIL 1ST MEDICAL EVALUATION (MONTHS)		3,4 (N=142)	±2,4	4,4 (N=122)	±3,5	0,009
TIME SINCE IMAGIOLOGICAL SUSPICION AND 1st ONCOLOGY CONSULT (DAYS)		33,2 (N=190)	±23,6	33,3 (N=201)	±26,8	0,98
SURGERY	Yes	50	20%	50	20%	0,54
	Palliative	39	15,6%	35	14,0%	
RT	Radical	39	15,6%	36	14,4%	0,79
	No RT	172	68,8%	179	71,6%	
EARLY REFERRAL TO BEST SUPPORTIVE CARE (BSC)		47	18,8%	54	21,6%	0,44
SYSTEMIC TREATMENT	Adjuvant Cht	9	3,6%	16	6,4%	
	Cht + RT	21	8,4%	22	8,8%	
	Neoadjuvante Cht	4	1,6%	5	2,0%	0,74
	Palliative systemic treatment	117	46,8%	118	47,2%	
	No anti-neoplasic treatment	60	24%	56	22,4%	
OVERALL SURVIVAL	Months	15,4	±8,85	ND	ND	NA

RT – Radiotherapy; SBRT – Stereotactic body radiation therapy; Cht – Chemotherapy; TKI – Tyrosine Kinase Inhibition; NA – not applicable; ND – not determined

DISCUSSION

- We found no significant differences in age, gender distribution, histopathology and treatments.
- Patients were diagnosed with more advanced staging during COVID-19 pandemic, which was statistically significant, with more stage II and III and less patients stage I. The results for Stage IV and patients not able to be studied are similar.
- There was a statistically significant delay between the symptoms onset and the first consult during COVID-19 pandemic period.
- We found a tendency towards frailty, as there was an increased number of patients presenting ECOG-PS ≥3, despite not statistically significant, concordant with the earlier BSC referral in 2021.
- The timing since the patient referral to our cancer centre and the 1st oncology consultation is not different before and after the pandemic.
- Immature OS data in 2021 more follow up time is needed to correctly understand the COVID 19's impact.

CONCLUSIONS

- The true pandemic impact in non-COVID-19 patients, particularly in lung cancer population, is still unknown.
- A problem that health care systems will need to address in coming years as a concerted effort involving increased investment in the detection and treatment of cancer patients, in order to gradually recover pre-COVID-19 health levels.