Post COVID-19 Condition

9 Feb 2021

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Prof. Francesco Castelli
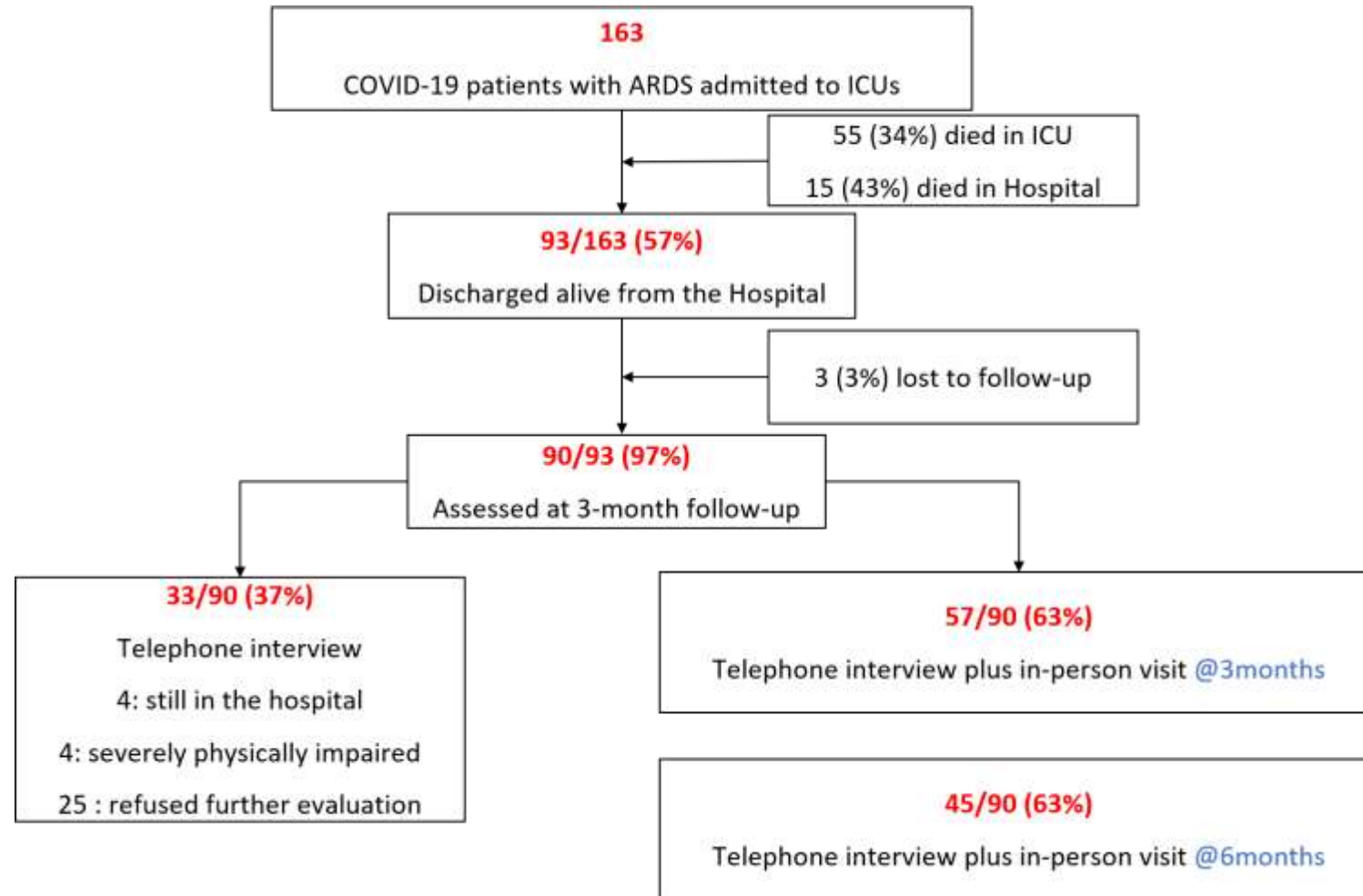**Prof. Nicola Latronico**

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I do not have conflicts of Interest

Study flow-chart

Age	62 [55-68]
SAPS II	34 [27-46]
ICU-LOS	10 [5-16]
H-LOS	24 [18-36]
Pre-ICU Steroids Duration	6 [1-9]
Pre-ICU NIV Duration	2 [0-7]
Tracheostomy	36%
MV Duration	10 [5-17]
iNO	23%
Sedation duration	12 [8-17]
NMBA	95% 2[1-5]
Prone Position	60%
CVVH	16%
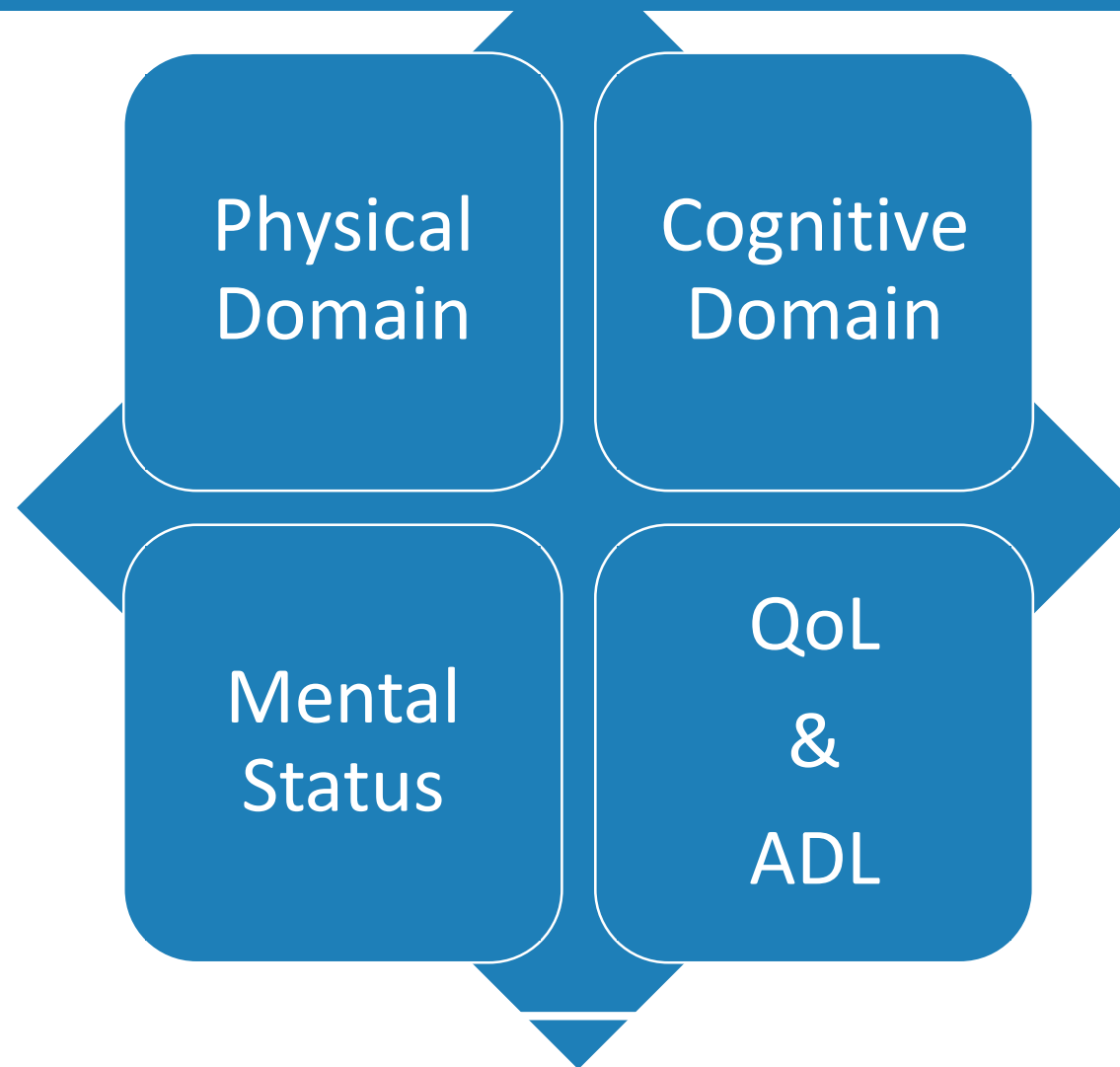
Clinical Visit

Pulmonary function tests

RPF (DLCO: CO diffusion capacity)

Normal — no. (%)	7/17 (41%)
Mild — no. (%)	2/17 (12%)
Moderate — no. (%)	**8/17 (47%)**
Severe — no. (%)	0/17 (0%)

Obstructive pattern

Normal — no. (%)	**15/17 (88%)**
Mild — no. (%)	1/17 (6%)
Moderate — no. (%)	0/17 (0%)
Severe — no. (%)	1/17 (6%)

Restrictive pattern

Normal — no. (%)	**10/17 (59%)**
Mild — no. (%)	6/17 (35%)
Moderate — no. (%)	1/17 (6%)
Severe — no. (%)	0/17 (0%)

Clinical Visit

Physical Domain

MRC-sum score

	3 MONTHS	6 MONTHS
	N=57	N=45
Normal (MRCss 48-60)	55/57 (97%)	42/42 (100%)
Significant weakness (MRCss 36-47)	2/57 (3%)	0/42 (0%)
Severe Weakness (MRCss less than 36)	0/57 (0%)	0/42 (0%)

Dominant hand dynamometry (% of the predicted value)

	3 MONTHS	6 MONTHS
≥80%	16/56 (28%)	19/40 (48%)
60%-80%	27/56 (48%)	16/40 (40%)
40-60%	9/56 (17%)	3/40 (8%)
20-40%	4/56 (7%)	2/40 (4%)
<20%	0/56 (0%)	0/40 (0%)

Clinical Visit

Physical Domain

		3 MONTHS N=57	6 MONTHS N=45
Six minute walking test	% of predicted value	80%	76%
	total no. (%)	79%	78%
Fatigue (FSS Score ≥36)	no. of abnormal test / total no. (%)	20/55 (36%)	16/45 (36%)
PENT- Simplified ENG		20/57 (35%)	11/14 (79%)

Clinical Visit

		3 MONTHS	6 MONTHS
Cognitive Domain	**MoCA**		
	Normal (≥26)	43/55 (78%)	28/38 (74%)
	Mild Cognitive Impairment (18-25)	10/55 (18%)	10/38 (26%)
	Moderate Cognitive Impairment (10-17)	1/55 (2%)	0/38 (0%)
	Severe Cognitive Impairment (<10)	1/55 (2%)	0/38 (0%)
Mental Status	**HADS Depression**		
	Normal (0-7)	46/52 (88%)	39/44 (89%)
	Borderline abnormal (8-10)	4/52 (8%)	2/44 (5%)
	Abnormal (11-21)	2/52 (4%)	3/44 (6%)
	HADS Anxiety		
	Normal (0-7)	46/52 (88%)	38/44 (86%)
	Borderline abnormal (8-10)	6/52 (12%)	3/44 (7%)
	Abnormal (11-21)	0/52 (0%)	3/44 (7%)
	Post-traumatic Stress Disorders		
	PLC-5 > 32 (Abnormal)	2/57 (3%)	3/45 (7%)

Clinical Visit

QoL & ADL

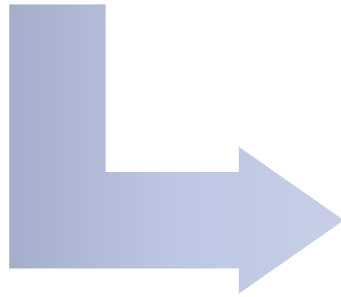|		3 MONTHS	6 MONTHS
HRQOL SF-36	Physical Component Summary median (% predicted)	42.91 (86%)	45.01 (90%)
	Mental Component Summary median (% predicted)	50 (100%)	50.95 (100%)
Barthel Index	80-100 (Independent)	56/56 (100%)	45/45 (100%)
	100 (full independence)	51/56 (91%)	44/45 (98%)
	95	4/56 (7%)	0/45 (0%)
	90	0/56 (0%)	0/45 (0%)
	85	1/56 (2%)	1/45 (2%)
	80	0/56 (0%)	0/45 (0%)

Conclusions

Mortality is high 43%

ICU Survivors have a good functional recovery
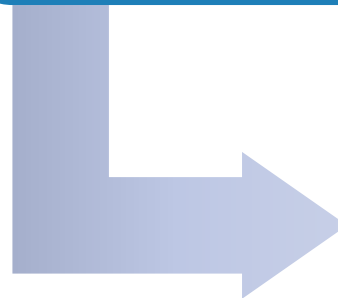
We should pursue aggressive treatments

thank you.

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