



ESTS INSTITUTIONAL ACCREDITATION

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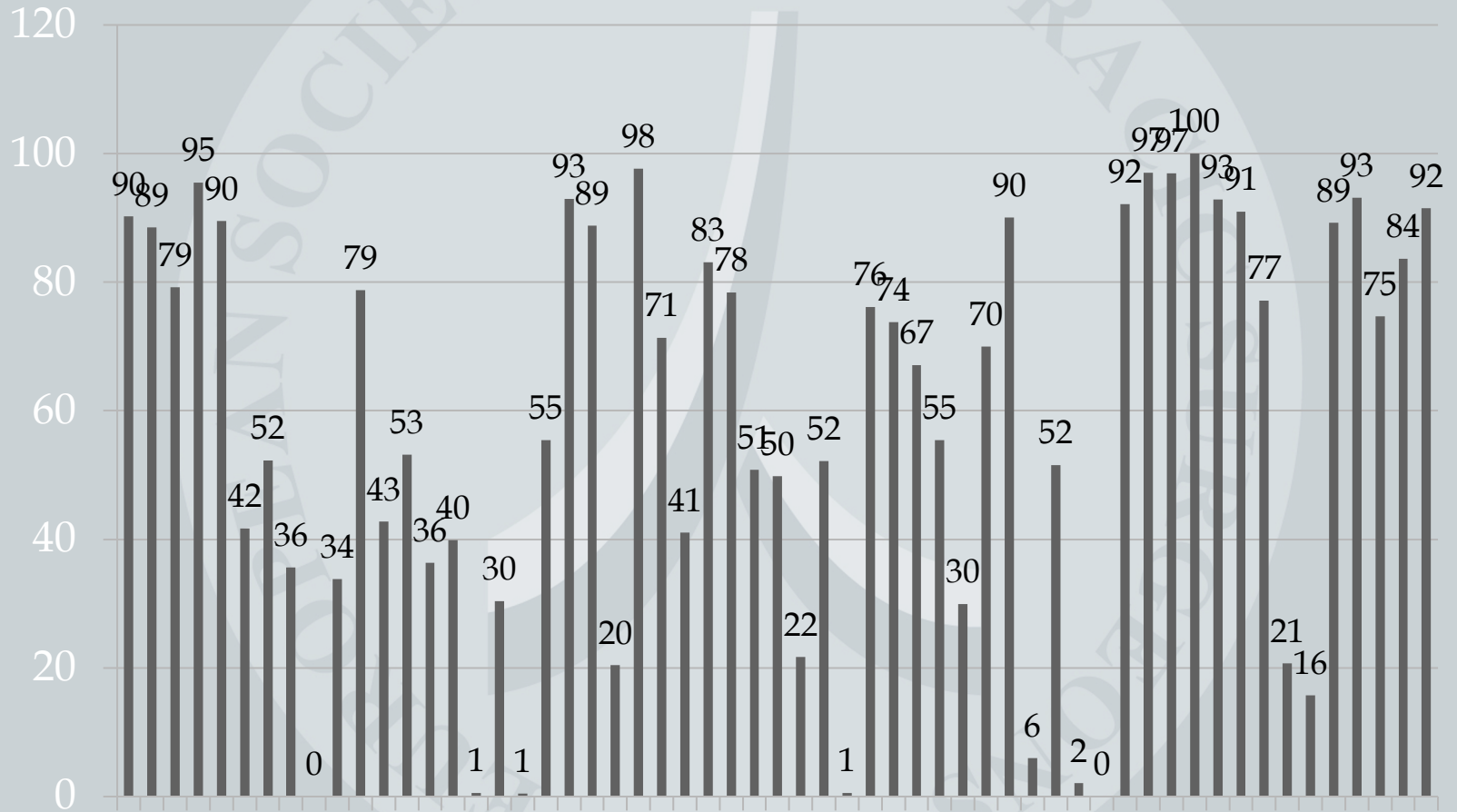
ESTS PRESIDENT

PURPOSE OF INSTITUTIONAL ACCREDITATION

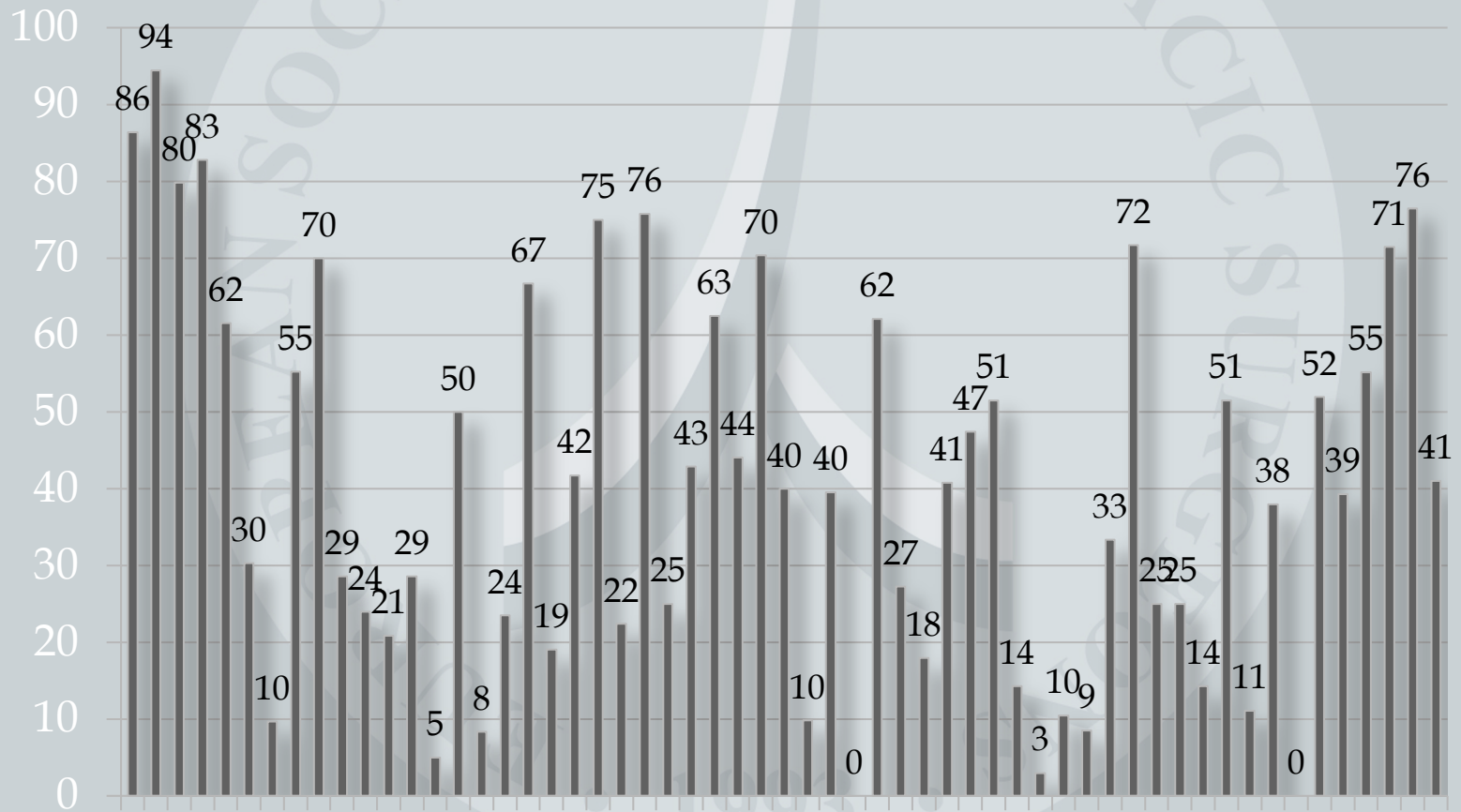
A PROCESS aimed at standardizing and improving practice of European Thoracic Surgery units

ESTS Accreditation IS A QUALITY LABEL

PROPORTION OF PATIENTS WITH DLCO MEASURED IN THE UNITS WITH CALCULATED CPS (2019)



PROPORTION OF PATIENTS WITH CLINICAL N2 UNDERGOING PREOP INVASIVE MEDIASTINAL STAGING IN THE UNITS WITH CALCULATED CPS (2019)



Eligibility criteria for Accreditation

1. Participation to ESTS Database and contributing **>150 anatomic lung resections in the last 3 years**
2. Institution must reside in Europe
3. Head of unit or Clinical Audit lead must be an ESTS member
4. **CPS > 0**
5. **Completeness of variables used to calculate CPS>70%**

Composite Performance Score

Preoperative care:

- % of pts having DLCO measured
- % of pts with CT enlarged or PET+ med nodes undergoing preop invasive mediastinal staging

Operative care:

- % of pts operated on for primary neoplastic disease submitted to systematic lymph node dissection

Postoperative care:

- risk-adjusted cardiopulmonary morbidity rate
- risk-adjusted mortality rate

Models of morbidity and mortality calculated by Eurolung 1 and Eurolung 2

Regression equation for morbidity EuroLung1

$$\text{Logit} = -2.465 + 0.497X_{\text{sex male}} + 0.026X_{\text{age}} + 0.231X_{\text{CAD}} + 0.371X_{\text{CVD}} + 0.152X_{\text{CKD}} - 0.015X_{\text{ppoFEV1}} + 0.514X_{\text{extended resections}} + 0.497X_{\text{thoracotomy}}$$

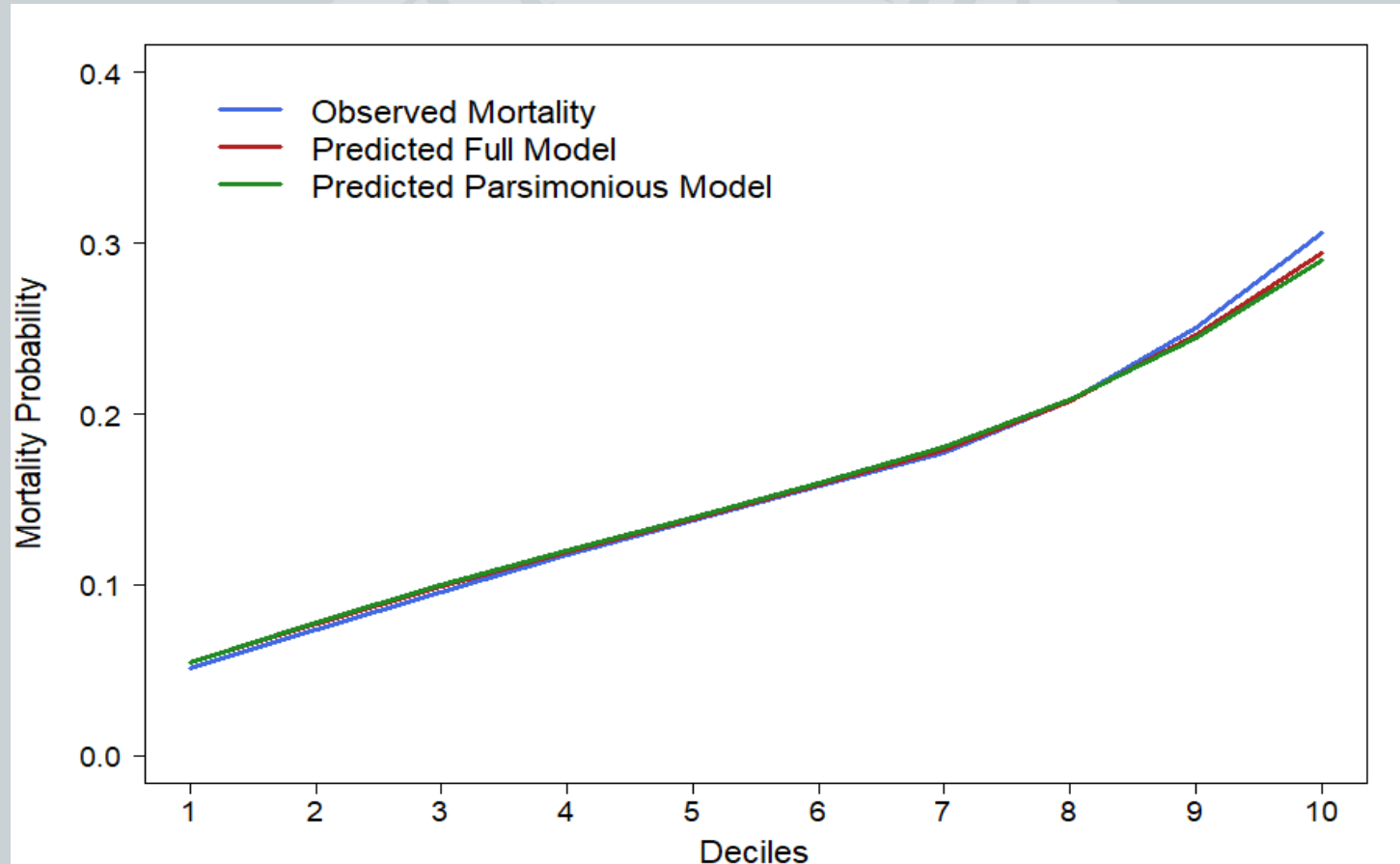
Regression equation for mortality EuroLung2

$$\text{logit (mortality)} = -5.82 + 0.903X_{\text{sex male}} + 0.044X_{\text{age}} + 0.264X_{\text{CAD}} + 0.582X_{\text{CVD}} - 0.064X_{\text{BMI}} + 0.300X_{\text{extended resection}} + 0.929X_{\text{pneumonectomy}} + 0.894X_{\text{thoracotomy}} - 0.009X_{\text{ppoFEV1}}$$

CPS and completeness of variables

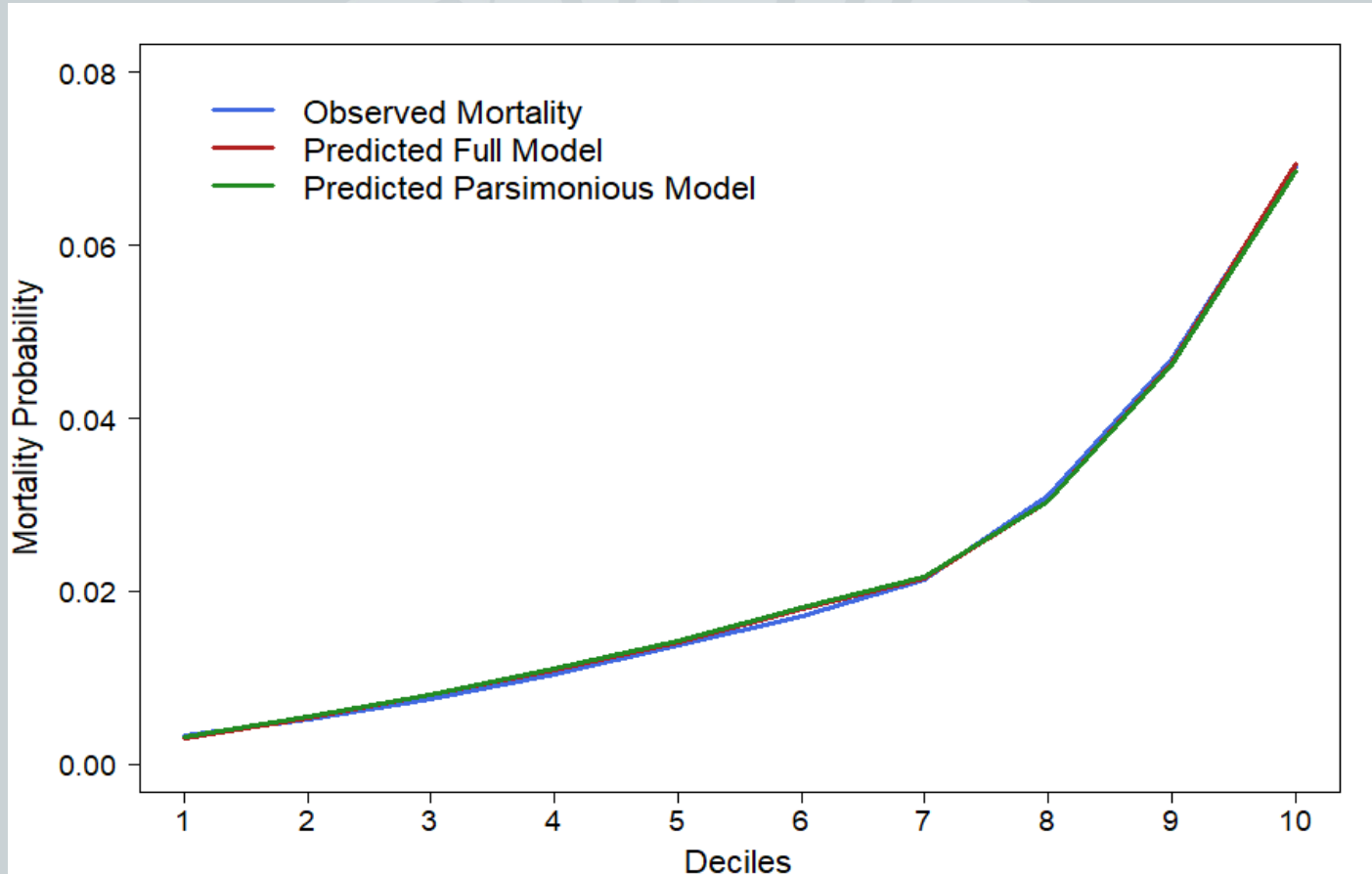
	CPS	Completeness	
		PredictedMortality	PredictedMorbidity
Bm02dl	0.15	80	80
Bm05dl	1.84	90	92
Ch10dl	3.3	60	60
Fr130780521	2.74	5	4
Fr140000209	2.83	12	6
Fr210987558	2.84	5	4
Fr290000215	-1.2	3	3
Fr310019351	0.88	7	7
Fr930100037	1.94	5	5
Gy18dl	0.63	56	56
Gy23dl	2.38	78	78
Hu01dl	-1.3	19	20
Hu02dl	0.44	1	1
Hu03dl	-2.1	23	24
Hu07dl	1.8	0	0
Hu12dl	3.83	82	81
It01dl	-2.09	76	23
It03d0	2.75	84	84
It19d0	0.01	95	95
It21d0	1.91	93	92
It32dl	1.74	76	76
It40dl	-0.16	63	56

Regression logit for morbidity Parsimonious EuroLung1



$$-3.079 + 0.025 * \text{Age} + 0.477 * \text{Male} - 0.015 * \text{ppoFev1} + 0.639 * \text{Thoracotomy} + 0.321 * \text{Extended Resection}$$

Regression logit for mortality Parsimonious EuroLung2



$$\begin{aligned} & -6.350 + 0.047 * \text{Age} + 0.889 * \text{Male} - 0.055 * \text{BMI} - 0.010 * \text{ppoFev1} \\ & + 0.892 * \text{Thoracotomy} + 0.983 * \text{Pneumonectomy} \end{aligned}$$

PROCESS OF ACCREDITATION

MAY: -Central calculation of CPS

-Eligible units announced during ESTS meeting

JUNE: -Invitation letters are sent out to eligible units

JULY: deadline acceptance for accreditation process

AUGUST-MARCH: Local Audits

APRIL-MAY: Audit reports reviewed by DB Committee and
ESTS Board of Directors

MAY: Accredited units announced during ESTS meeting

List of currently accredited units

UNITS	Year of accreditation or revalidation (3 year term)
Bratislava, Slovakia	2019
Ospedale Molinette, Torino, Italy	2019
University Hospital Leuven, Belgium	2020
University Hospital Zurich	2020
University Of Milan-policlinico Hospital Milan, Italy	2020
Ospedali Riuniti, Foggia, Italy	2021
Wielkopolskie Centrum Pulmonologii I Torakochirurgii, Poznan, Poland	2021
Stadtkrankenhaus Delmenhorst Gmbh, Germany	2021
Campus Biomedico University Of Rome, Italy	2021
St James's University Hospital, Leeds, Uk	2021
Nouvel Hopital Civil, Strasbourg, France	2021



ESTS

European Society of Thoracic Surgeons

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ESTS Quality Certification Program

The link to the 2020 Institutional Quality Certification guide is below;

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