

Thickening fraction

Baseline odds ratio of thickening fraction for extubation failure

	OR	95% CI
(Intercept)	0.53	0.13 - 2.18
Thickening fraction	0.96	0.90 - 1.02

Odds ratio of thickening fraction for extubation failure in regression analysis with pressure support as continuous variable

	OR	95% CI
(Intercept)	0.58	0.13 - 2.62
Thickening fraction	0.96	0.90 - 1.02
Pressure Support	0.96	0.77 - 1.17

Odds ratio of thickening fraction for extubation failure in regression analysis with pressure support as categorical variable (in this case as more than 0 cmH2O support)

	OR	95 % CI
(Intercept)	0.62	0.14 - 2.91
Thickening fraction	0.96	0.90 - 1.02
> 0 support	0.72	0.20 - 2.32

Odds ratio of thickening fraction for extubation failure in regression analysis with PEEP as continuous variable

	OR	95 % CI
(Intercept)	0.18	0.01 - 1.88
Thickening fraction	0.96	0.90 - 1.02
PEEP	1.18	0.88 - 1.63

B-lines

Baseline odds ratio of more than 7.5 B-lines for extubation failure

	OR	95 % CI
(Intercept)	0.09	0.02 - 0.25
Blines > 7.5	4.12	1.18 - 19.30

Odds ratio of more than 7.5 B-lines for extubation failure in regression analysis with pressure support as continuous variable

	OR	95 % CI
(Intercept)	0.09	0.02 - 0.28
Blines > 7.5	4.11	1.18 - 19.24

Pressure Support	0.97	0.78 - 1.19
------------------	------	-------------

Odds ratio of more than 7.5 B-lines for extubation failure in regression analysis with pressure support as categorical variable (in this case as more than 0 cmH2O support)

	OR	95% CI
(Intercept)	0.09	0.02 - 0.29
Blines > 7.5	4.09	1.17 - 19.17
> 0 support	0.83	0.23 - 2.73

Odds ratio of more than 7.5 B-lines for extubation failure in regression analysis with PEEP as continuous variable

	OR	95 % CI
(Intercept)	0.02	0.0 - 0.22
Blines > 7.5	4.27	1.2 - 20.48
PEEP	1.23	0.9 - 1.77

Code in R to calculate data above:

```
lapply(c("Tdifr2" + "Tdifr2 + PS", "Tdifr2 + PScat", "Tdifr2 + PEEP"),  
       function(var) {  
         formula <- as.formula(paste("DetubF ~", var))  
         logist <- glm(formula, data = df_mark, family = binomial)  
         uni <- exp(cbind(OR = coef(logist), confint(logist, level = 0.95)))  
         round(uni, digits = 2)  
       }  
)
```

```
lapply(c("Blines7.5", "Blines7.5 + PS", "Blines7.5 + PScat", "Blines7.5 + PEEP"),  
       function(var) {  
         formula <- as.formula(paste("DetubF ~", var))  
         logist <- glm(formula, data = df_mark, family = binomial)  
         uni <- exp(cbind(OR = coef(logist), confint(logist, level = 0.95)))  
         round(uni, digits = 2)  
       }  
)
```

Missing Data Lung Ultrasound

4 quadrants per hemithorax for a total of 8 quadrants

Missing fields per patient

0 fields missing:	38 patients
1 field missing:	17 patients
2 fields missing:	20 patients
3 fields missing:	3 patients
4 fields missing:	5 patients
5 fields missing:	0 patients

6 fields missing: 0 patients

7 fields missing: 0 patients

8 fields missing: 0 patients

Patients with at least 2 measurement sites per hemithorax:

83 out of 83

Patients with at least no measurement sites per hemithorax:

0 out of 83

Missing images per field examined:

Upper Anterior Right: 0 out of 83 missing

Lower Anterior Right: 1 out of 83 missing

Upper Lateral Right: 9 out of 83 missing

Lower Lateral Right: 33 out of 83 missing

Left side total: 43 out of 332 missing

Upper Anterior Left: 2 out of 83 missing

Lower Anterior Left: 1 out of 83 missing

Upper Lateral Left: 12 out of 83 missing
Lower Lateral Left: 31 out of 83 missing
Left side total: 46 out of 332 missing

Lower Regions missing: 66 out of 332

Upper Regions missing: 23 out of 332

Total: 89 out of 664

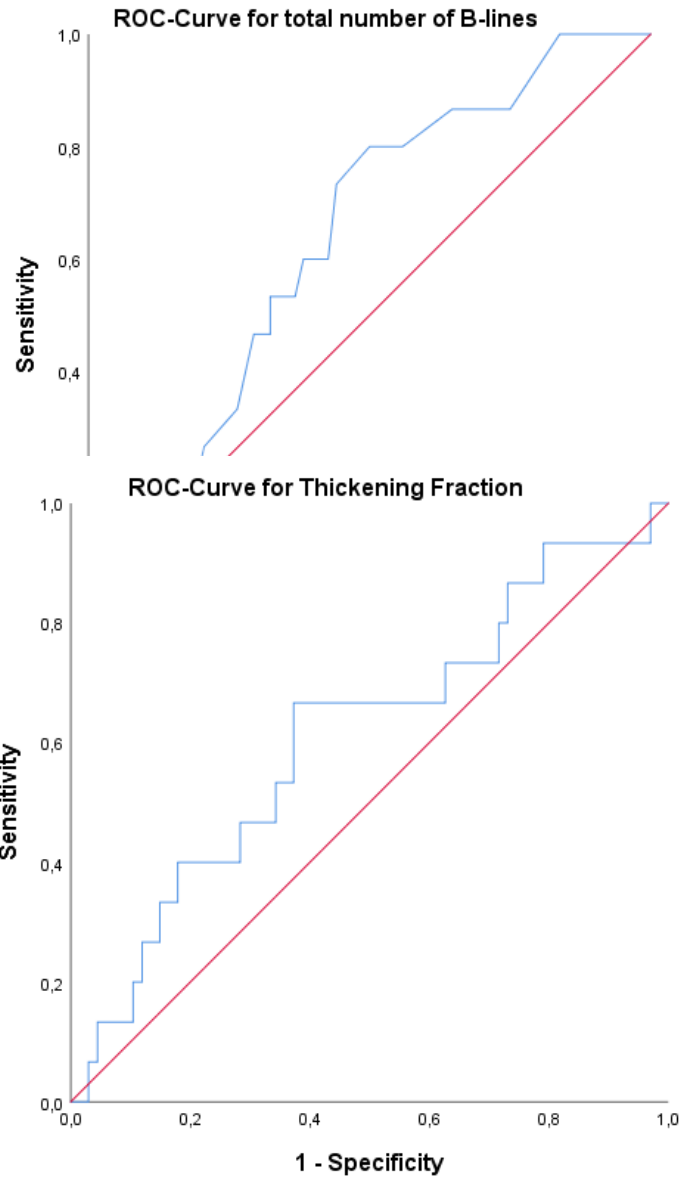
Missing images PLAPS point:

PLAPS right: 2 out of 83 missing

PLAPS left: 8 out of 83 missing

PLAPS right and left: 1 out of 83 missing

All PLAPS views: 10 out of 166 missing



STROBE Statement—checklist of items that should be included in reports of observational studies

	Item No	Recommendation	Page No
1Title and abstract	1	(a) Indicate the study's design with a commonly used term in the title or the abstract	3
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	3
Introduction			
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported	4
Objectives	3	State specific objectives, including any prespecified hypotheses	4
Methods			
Study design	4	Present key elements of study design early in the paper	6
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	6,11
Participants	6	(a) <i>Cohort study</i> —Give the eligibility criteria, and the sources and methods of selection of participants. Describe methods of follow-up <i>Case-control study</i> —Give the eligibility criteria, and the sources and methods of case ascertainment and control selection. Give the rationale for the choice of cases and controls <i>Cross-sectional study</i> —Give the eligibility criteria, and the sources and methods of selection of participants	6
		(b) <i>Cohort study</i> —For matched studies, give matching criteria and number of exposed and unexposed <i>Case-control study</i> —For matched studies, give matching criteria and the number of controls per case	
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	6-9
Data sources/ measurement	8*	For each variable of interest, give sources of data and details of methods of assessment (measurement). Describe comparability of assessment methods if there is more than one group	6,7

Bias	9	Describe any efforts to address potential sources of bias	7
Study size	10	Explain how the study size was arrived at	9
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	9,10
Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding	9,10
		(b) Describe any methods used to examine subgroups and interactions	9,10
		(c) Explain how missing data were addressed	9,10
		(d) <i>Cohort study</i> —If applicable, explain how loss to follow-up was addressed	9,10
		<i>Case-control study</i> —If applicable, explain how matching of cases and controls was addressed	
		<i>Cross-sectional study</i> —If applicable, describe analytical methods taking account of sampling strategy	
		(e) Describe any sensitivity analyses	12

Continued on next page

Results

Participants	13*	(a) Report numbers of individuals at each stage of study—eg numbers potentially eligible, examined for eligibility, confirmed eligible, included in the study, completing follow-up, and analysed	Fig 1
		(b) Give reasons for non-participation at each stage	Fig 1
		(c) Consider use of a flow diagram	Fig 1
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	Table 1
		(b) Indicate number of participants with missing data for each variable of interest	Table 1
		(c) <i>Cohort study</i> —Summarise follow-up time (eg, average and total amount)	7
Outcome data	15*	<i>Cohort study</i> —Report numbers of outcome events or summary measures over time	Table 1/2
		<i>Case-control study</i> —Report numbers in each exposure category, or summary measures of exposure	<i>n.a.</i>
		<i>Cross-sectional study</i> —Report numbers of outcome events or summary measures	<i>n.a.</i>
Main results	16	(a) Give unadjusted estimates and, if applicable, confounder-adjusted estimates and their precision (eg, 95% confidence interval). Make clear which confounders were adjusted for and why they were included	11-13
		(b) Report category boundaries when continuous variables were categorized	11-13
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	

Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	12
Discussion			
Key results	18	Summarise key results with reference to study objectives	14
Limitations	19	Discuss limitations of the study, taking into account sources of potential bias or imprecision. Discuss both direction and magnitude of any potential bias	18
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	14-18
Generalisability	21	Discuss the generalisability (external validity) of the study results	18
Other information			
Funding	22	Give the source of funding and the role of the funders for the present study and, if applicable, for the original study on which the present article is based	1,20

*Give information separately for cases and controls in case-control studies and, if applicable, for exposed and unexposed groups in cohort and cross-sectional studies.

Note: An Explanation and Elaboration article discusses each checklist item and gives methodological background and published examples of transparent reporting. The STROBE checklist is best used in conjunction with this article (freely available on the Web sites of PLoS Medicine at <http://www.plosmedicine.org/>, Annals of Internal Medicine at <http://www.annals.org/>, and Epidemiology at <http://www.epidem.com/>). Information on the STROBE Initiative is available at www.strobe-statement.org.

	Mark1	Mark2	Mark3	MarkAVG	Leila1	Leila2	Leila3	LeilaAVG
AvgThiInsp	188	198	160	182	178	188	179	181.666667
AvgThiInsp	133	138	141	137.333333	133	132	141	135.333333
AvgThiInsp	163	162	162	162.333333	164	170	170	168
AvgThiInsp	194	194	198	195.333333	156	167	181	168
AvgThiInsp	182	176	162	173.333333	188	199	193	193.333333
AvgThiInsp	123	135	135	131	136	137	141	138
AvgThiInsp	220	235	207	220.666667	215	204	227	215.333333
AvgThiInsp	181	176	176	177.666667	191	171	175	179
AvgThiInsp	176	171	183	176.666667	170	170	165	168.333333
AvgThiInsp	222	225	230	225.666667	232	235	227	231.333333
AvgThiInsp	170	163	163	165.333333	181	155	148	161.333333
AvgThiInsp	213	237	222	224	217	238	238	231
AvgThiInsp	113	128	120	120.333333	115	121	123	119.666667
AvgThiInsp	178	179	191	182.666667	169	155	157	160.333333
AvgThiInsp	246	241	243	243.333333	242	248	256	248.666667
AvgThiInsp	194	203	217	204.666667	192	201	188	193.666667
AvgThiInsp	253	254	249	252	257	245	242	248
AvgThiInsp	147	145	161	151	151	162	141	151.333333
AvgThiInsp	200	212	212	208	198	208	212	206
AvgThiInsp	159	168	165	164	173	168	151	164
AvgThiInsp	126	146	141	137.666667	139	137	137	137.666667
AvgThiInsp	118	112	149	126.333333	125	125	142	130.666667
AvgThiInsp	155	145	159	153	148	144	156	149.333333
AvgThiInsp	103	106	111	106.666667	108	118	116	114