Supplemental Table 1: Patient Characteristics for 1,185 Eligible COPD							
Patients Not Enrolled Compared to those							
	Not Enrolled	Enrolled					
Characteristic	N = 1,185	N = 1,415					
Age, Years (Mean, SD)	70.5 (11.0)	70.6 (10.6)					
Range	50-99	50-96					
Female (%)	600 (50.6)	710 (50.2)					
Hospital Site (%)							
Ottawa Hospital General Campus	406 (34.3)	313 (22.1)					
Kingston General	124 (10.5)	304 (21.5)					
Ottawa Hospital Civic Campus	304 (25.7)	292 (20.6)					
University Alberta - Edmonton	86 (7.3)	220 (15.6)					
Foothills - Calgary	205 (17.3)	178 (12.6)					
Mount Sinai – Toronto	60 (5.1)	108 (7.6)					
Admitted (%)	517 (43.6)	636 (44.9)					

Supplemental Figure 1: Physician Data Form Used in the Study

RAD-2 Study – Validation of Ottawa COPD Risk Scale

Date: (yy/mm/dd) // // Patient Initials: Chart No.:

Physician's Name (please print):

Ottawa COPD Risk Scale

Inclusion Criteria: Adults ≥ 50 years of age with Shortness of Breath due to acute exacerbation of COPD:

- Pre-existing diagnosis of COPD with hx of smoking, use of inhalers, OR
- New diagnosis of COPD in heavy smoker

Total the points for the following items: Items Points		COPD Risk Categories for Serious Adverse Event within 14 days			
1. Initial Assessment		[Total Score	<u>Risk</u>	Category
a) History of CABG	(1)		0	2.2%	Low
b) History of intervention for PVD	(1)	ŀ	1	4.0%	Medium
c) History of intubation for respiratory distress	(2)	ŀ	2	7.2%	Medium
d) Heart rate on ED arrival ≥ 110	(2)	ł	_		
2. Investigations		ļ	3	12.5%	High
a) ECG has acute ischemic changes	(2)		4	20.9%	High
b) Chest x-ray has any pulmonary congestion	(1)		5	32.9%	Very High
c) Hemoglobin < 100 g/L	(3)	1	6	47.5%	Very High
d) Urea <u>></u> 12 mmol/L	(1)	l	7	62.6%	Very High
e) Serum CO₂ ≥ 35 mmol/L	(1)	ł	8	75.6%	Very High
3. Re-Assessment after ED treatment		ł	-		, ,
a) SaO₂ < 90% on room air or usual O₂, or HR ≥ 120	(2)	I	10	91.4%	Very High
Total Score (0 - 16):					

- A) According to the Risk Scale, what is the estimated risk category for this patient? (see above)

 O low
 O medium
 O high
 O very high
- B)
 How comfortable would you be using this scale to assist making a disposition decision for this patient?

 O very comfortable
 O comfortable
 O neutral
 O uncomfortable
 O very uncomfortable
- C) Please request the following: O Venous blood gas
- D) Please have RN measure vitals at 4-8 hours after treatment:

Heart Rate: _____ SaO2 on Room Air: _____

Thank you for your help!