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## B. SIGNS AND SYMPTOMS

### I. Signs and Symptoms

11. Did the patient have any of the following signs or symptoms at the time of the event?

	<u>No</u>	<u>Yes</u>	<u>Not Recorded</u>
a. New onset or increase in cough? .....	0 <input type="checkbox"/>	1 <input type="checkbox"/>	9 <input type="checkbox"/>
b. New onset or increase in sputum production? .....	0 <input type="checkbox"/>	1 <input type="checkbox"/>	9 <input type="checkbox"/>
c. New onset or increase in sputum purulence? .....	0 <input type="checkbox"/>	1 <input type="checkbox"/>	9 <input type="checkbox"/>
d. New onset or increase in wheezing? .....	0 <input type="checkbox"/>	1 <input type="checkbox"/>	9 <input type="checkbox"/>
e. New onset or increase in chest tightness or chest pain? .....	0 <input type="checkbox"/>	1 <input type="checkbox"/>	9 <input type="checkbox"/>
f. New onset or increase in leg edema (unilateral or bilateral)? .....	0 <input type="checkbox"/>	1 <input type="checkbox"/>	9 <input type="checkbox"/>
g. New onset or increase in use of rescue bronchodilator? .....	0 <input type="checkbox"/>	1 <input type="checkbox"/>	9 <input type="checkbox"/>
h. New onset or increase in dyspnea? .....	0 <input type="checkbox"/>	1 <input type="checkbox"/>	9 <input type="checkbox"/>
i. Dyspnea (at rest)? .....	0 <input type="checkbox"/>	1 <input type="checkbox"/>	9 <input type="checkbox"/>
j. Dyspnea (walking or on exertion)? .....	0 <input type="checkbox"/>	1 <input type="checkbox"/>	9 <input type="checkbox"/>
k. Woken up at night by shortness of breath? .....	0 <input type="checkbox"/>	1 <input type="checkbox"/>	9 <input type="checkbox"/>
l. Fever? .....	0 <input type="checkbox"/>	1 <input type="checkbox"/>	9 <input type="checkbox"/>
m. Delirium or altered mental status (AMS)? .....	0 <input type="checkbox"/>	1 <input type="checkbox"/>	9 <input type="checkbox"/>

### II. Evidence in Physicians' Notes of Reason for Event

	<u>No/NR</u>	<u>Yes</u>
12. Was there evidence in the doctor's notes that the reason for this event may be an exacerbation of COPD, chronic bronchitis, or emphysema?	0 <input type="checkbox"/>	1 <input type="checkbox"/>
13. Was there evidence in the doctor's notes that the reason for this event may be an exacerbation of asthma?	0 <input type="checkbox"/>	1 <input type="checkbox"/>
14. Did the patient have new onset or progressive signs/symptoms of this exacerbation prior to presentation in ED or hospital?	0 <input type="checkbox"/>	1 <input type="checkbox"/>

## C. MEDICAL HISTORY

	<u>No/NR</u>	<u>Yes</u>
15. Prior to this event was there a history of any of the following:		
a. Asthma .....	0 <input type="checkbox"/>	1 <input type="checkbox"/>
b. Chronic bronchitis .....	0 <input type="checkbox"/>	1 <input type="checkbox"/>
c. Emphysema .....	0 <input type="checkbox"/>	1 <input type="checkbox"/>
d. Chronic obstructive pulmonary disease (COPD) .....	0 <input type="checkbox"/>	1 <input type="checkbox"/>
e. Pulmonary fibrosis .....	0 <input type="checkbox"/>	1 <input type="checkbox"/>
f. Sarcoidosis .....	0 <input type="checkbox"/>	1 <input type="checkbox"/>
g. Lung cancer .....	0 <input type="checkbox"/>	1 <input type="checkbox"/>
h. Lung resection or lobectomy .....	0 <input type="checkbox"/>	1 <input type="checkbox"/>

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15. Prior to this event was there a history of any of the following:
- |  | No/NR                      | Yes                        |
|--|----------------------------|----------------------------|
| i. Home oxygen (do not include CPAP) ..... | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| j. Pulmonary embolus.....                  | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| k. Pulmonary hypertension.....             | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| l. Cor pulmonale .....                     | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| m. Obstructive Sleep Apnea (OSA) .....     | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| n. Coronary artery disease .....           | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| o. Heart failure.....                      | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| p. Atrial fibrillation/atrial flutter..... | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| q. Diabetes .....                          | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| r. Pulmonary Tuberculosis .....            | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| s. Bronchiectasis .....                    | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |

16. If prior PFT results were provided, what is percent predicted FEV1?

16.a. Pre-bronchodilator .%      16.b. Post-bronchodilator .%

17. What is FEV<sub>1</sub>/FVC ratio? .      17.a. units       1=proportion or decimal  
2=percent (If percent, then assure not percent predicted for the ratio)

**D. HOSPITAL COURSE**

18. Current or active problems anytime during this visit
- |   | No/NR                      | Yes                        |
|---|----------------------------|----------------------------|
| a. Upper Respiratory Infection (sinusitis, nasopharyngitis, pharyngitis, epiglottitis, laryngitis, laryngotracheitis, acute bronchitis) ..... | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| b. Pneumonia.....   | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| c. Pulmonary embolus .....  | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| d. Myocardial infarction .....  | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| e. Heart failure exacerbation .....   | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| f. Atrial fibrillation/atrial flutter .....   | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| g. Supraventricular Tachycardia (SVT) or multifocal atrial tachycardia (MAT) .....  | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| h. Cardiac Surgery – CABG or Valvular Surgery .....   | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| i. Non-cardiac surgery.....   | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |

**E. PHYSICAL EXAM**

19. Vital Signs at arrival to hospital or ED (or at onset of event if began after arrival)
- a. heart rate  bpm
- b. respiration rate  per minute

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c. Oxygen Saturation (SpO<sub>2</sub>/pulse oximetry)

   .%

c.1. Oxygen Sats on room air? No 0

Yes 1  *Skip to 19d*

Unknown 9  *Skip to 19d*

c.2. If not on room air, what level oxygen?

   . 

1= Liters, 2=Percent

d. Weight

   . 

1= Lbs, 2=Kg

20. Did the patient have any of the following signs (at the time of the event)?

	<u>No</u>	<u>Yes</u>	<u>NR</u>
a. Use of accessory muscles .....	0 <input type="checkbox"/>	1 <input type="checkbox"/>	9 <input type="checkbox"/>
b. Cyanosis.....	0 <input type="checkbox"/>	1 <input type="checkbox"/>	9 <input type="checkbox"/>
c. Clubbing.....	0 <input type="checkbox"/>	1 <input type="checkbox"/>	9 <input type="checkbox"/>
d. Jugular venous distention (JVD) or distended neck veins .....	0 <input type="checkbox"/>	1 <input type="checkbox"/>	9 <input type="checkbox"/>
e. Crackles/rales .....	0 <input type="checkbox"/>	1 <input type="checkbox"/>	9 <input type="checkbox"/>
f. Wheezing or rhonchi.....	0 <input type="checkbox"/>	1 <input type="checkbox"/>	9 <input type="checkbox"/>
g. Decreased <u>unilateral</u> breath sounds.....	0 <input type="checkbox"/>	1 <input type="checkbox"/>	9 <input type="checkbox"/>
h. Decreased <u>bilateral</u> breath sounds.....	0 <input type="checkbox"/>	1 <input type="checkbox"/>	9 <input type="checkbox"/>
i. Prolonged expiratory time .....	0 <input type="checkbox"/>	1 <input type="checkbox"/>	9 <input type="checkbox"/>
j. Egophony.....	0 <input type="checkbox"/>	1 <input type="checkbox"/>	9 <input type="checkbox"/>
k. Lower extremity edema (unilateral or bilateral).....	0 <input type="checkbox"/>	1 <input type="checkbox"/>	9 <input type="checkbox"/>

## F. DIAGNOSTIC TESTS

21. Was a chest X-ray performed during this event?

No/NR 0  *skip to 23*

Yes 1

22. Did the patient have any of the following signs on chest x-ray at any time during this event?

	<u>No/NR</u>	<u>Yes</u>
a. Hyperinflation.....	0 <input type="checkbox"/>	1 <input type="checkbox"/>
b. Flattened diaphragms .....	0 <input type="checkbox"/>	1 <input type="checkbox"/>
c. Consolidation or infiltrate.....	0 <input type="checkbox"/>	1 <input type="checkbox"/>
d. Scarring .....	0 <input type="checkbox"/>	1 <input type="checkbox"/>
e. Nodule(s) > 8mm .....	0 <input type="checkbox"/>	1 <input type="checkbox"/>
f. Mass(es) > 3cm .....	0 <input type="checkbox"/>	1 <input type="checkbox"/>
g. Pulmonary edema, pulmonary vascular congestion (alveolar, interstitial).....	0 <input type="checkbox"/>	1 <input type="checkbox"/>
h. Bilateral pleural effusion.....	0 <input type="checkbox"/>	1 <input type="checkbox"/>
i. Unilateral pleural effusion.....	0 <input type="checkbox"/>	1 <input type="checkbox"/>
j. Emphysema.....	0 <input type="checkbox"/>	1 <input type="checkbox"/>
k. Cardiomegaly.....	0 <input type="checkbox"/>	1 <input type="checkbox"/>

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23. Was a chest/lung CT scan or CT angiogram (CTA) performed during this event?

No/NR 0  skip to 25      Yes 1

24. Did the patient have any of the following signs on CT scan at any time during this event?

- |   | <u>No/NR</u>               | <u>Yes</u>                 |
|---|----------------------------|----------------------------|
| a. Emphysema.....   | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| b. Nodule(s) > 8mm .....                                  | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| c. Mass(es) > 3cm .....                                   | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| d. Lymphadenopathy .....                                  | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| e. Ground glass changes .....                             | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| f. Pneumonia.....   | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| g. Fibrosis or honeycombing .....                         | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| h. Filling defect—vascular (PE) .....                     | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| i. Filling defect—mucus plug .....                        | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| j. Cysts or blebs .....                                   | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| k. Atelectasis .....                                      | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| l. Calcifications.....                                    | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| m. Pulmonary embolus .....                                | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| n. Enlarged pulmonary artery .....                        | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| o. Bronchiectasis.....                                    | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| p. Pulmonary edema or pulmonary vascular congestion ..... | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| q. Cardiomegaly.....                                      | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| r. Bilateral pleural effusion.....                        | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| s. Unilateral pleural effusion.....                       | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| t. Airway wall thickening.....                            | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |

25. Was spirometry (lung function testing) performed during this hospitalization?

No/NR 0  Skip to 26      Yes 1

- |                                 |  |  |  |
|---------------------------------|--|--|--|
| a1. FEV <sub>1</sub>            | <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> L                    | a2. FEV <sub>1</sub> Percent Predicted | <input type="text"/> <input type="text"/> <input type="text"/> %                                   |
| b1. FVC                         | <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> L                    | b2. FVC Percent Predicted              | <input type="text"/> <input type="text"/> <input type="text"/> %                                   |
| c1. FEV <sub>1</sub> /FVC ratio | <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> | c2.units <input type="checkbox"/>      | 1=proportion or decimal<br>2=percent (If percent, then assure not percent predicted for the ratio) |

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26. Was post-bronchodilator spirometry measured? No/NR 0  *Skip to 27* Yes 1

a1. FEV<sub>1</sub>   .   L      a2. FEV<sub>1</sub> Percent Predicted    %

b1. FVC   .   L      b2. FVC Percent Predicted    %

c1. FEV<sub>1</sub>/FVC ratio    .   units  1=proportion or decimal  
2=percent (If percent, then assure not percent predicted for the ratio)

27. Was peak expiratory flow rate (PEFR or PEF) obtained at the time of event? No/NR 0  *Skip to 28* Yes 1

a. Date of first PEF(R) taken at time of event: (mm/dd/yyyy)   /   /

b. First PEF recording

c. Worst or lowest PEF recording (anytime during hospitalization)

28. Was peak expiratory flow rate (PEFR or PEF) obtained at discharge? No/NR 0  *Skip to 29* Yes 1

a. Date of last PEF(R) taken at discharge: (mm/dd/yyyy)   /   /

b. Last PEF recording

29. Was a ventilation perfusion scan (VQ Scan) done? No/NR 0  *Skip to 30* Yes 1

a. Ventilation perfusion scan results (record number of answer)

1. High probability                      2. Intermediate probability  
3. Low probability                      4. No evidence of Pulmonary Embolus  
5. Indeterminate

30. Was an echocardiogram (TTE or TEE) performed? No/NR 0  *Skip to 31* Yes 1

If more than one ECHO performed, then use the worst value for each question

a. Ejection fraction:   %      b. RVSP (right ventricular systolic pressure)    .   mmHg

<u>Record the following if present on echocardiogram:</u>	<u>None</u>	<u>Present</u>	<u>Mild</u>	<u>Mod</u>	<u>Severe</u>	<u>NR</u>
c. Right Ventricular Hypertrophy .....	0 <input type="checkbox"/>	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	9 <input type="checkbox"/>
d. Impaired RV systolic function .....	0 <input type="checkbox"/>	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	9 <input type="checkbox"/>
e. Pulmonary hypertension .....	0 <input type="checkbox"/>	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	9 <input type="checkbox"/>
f. Tricuspid Regurgitation .....	0 <input type="checkbox"/>	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	9 <input type="checkbox"/>
g. Diastolic dysfunction .....	<u>No/Unknown/NR</u>	0 <input type="checkbox"/>	<u>Yes</u>	1 <input type="checkbox"/>		

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**G. BIOCHEMICAL TESTS**

31. White Blood Cell Count .

**a. First (at event)**

32. Hemoglobin (g/dL) .

33. Hematocrit (%) .

34. Sodium (mEq/L)

35. Serum creatinine (mg/dL) .

36. BUN (mg/dL) .

37. Bicarbonate (total CO2) .

**a. First (at event)**

**b. Upper limit normal**

38. BNP (pg/mL) a. . b. .

39. ProBNP (pg/mL) a. . b. .

40. Were Arterial Blood Gases (ABGs) obtained? No/NR 0  *Skip to 41* Yes 1

**a. First blood gas (at time of event)**

**b. Last blood gas**

pH 1. .

1. .

PaCO2 2. . mmHg

2. . mmHg

PaO2 3. . mmHg

3. . mmHg

O2 Saturation 4. . %

4. . %

c. Blood gas on room air? No 0  Yes 1  *Skip to 41* Not Recorded 9  *Skip to 41*

c.1. If not on room air, what level oxygen? .  1= Liters, 2=Percent

41. Was a sputum culture done? No/NR 0  *Skip to 42* Yes 1

a. Culture Results Neg 0  *Skip to 42* Pos 1  Not Recorded 9  *Skip to 42*

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b. If yes, were any of the following reported in the sputum culture?

- |  | <u>No</u>                  | <u>Yes</u>                 |
|--|----------------------------|----------------------------|
| 1. Haemophilus Influenzae .....                            | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 2. Moraxella Catarrhalis.....                              | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 3. Streptococcus pneumoniae .....                          | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 4. Methicillin-resistant Staphylococcus Aureus (MRSA)..... | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 5. Staphylococcus aureus (not MRSA) .....                  | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 6. Mycoplasma pneumoniae.....                              | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 7. Pseudomonas Aureginosa.....                             | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 8. Chlamydophila (or Chlamydia) pneumoniae .....           | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 9. Oropharyngeal flora.....                                | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 10. Other_____   |                            |                            |

42. Was a blood culture done?      No/NR 0     *Skip to 43*    Yes 1

a. Culture Results                      Neg 0     *Skip to 43*    Pos 1                       Not Recorded 9     *Skip to 43*

b. If yes, were any of the following reported in the blood culture?

- |  | <u>No</u>                  | <u>Yes</u>                 |
|--|----------------------------|----------------------------|
| 1. Haemophilus Influenzae .....                            | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 2. Moraxella Catarrhalis.....                              | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 3. Streptococcus pneumoniae .....                          | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 4. Methicillin-resistant Staphylococcus Aureus (MRSA)..... | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 5. Staphylococcus aureus (not MRSA) .....                  | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 6. Other_____  |                            |                            |

43. Influenza swab                      Neg 0                       Pos 1                       Not Recorded 9

## H. TREATMENTS / MEDICATIONS

- |  | <u>No/NR</u>               | <u>Yes</u>                 |
|--|----------------------------|----------------------------|
| 44. CPAP or BiPap .....  | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 45. Mechanical Ventilation.....  | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 46. Inhaled short-acting beta-agonists (ie,albuterol, xopenex) .....       | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 47. Inhaled short-acting anticholinergics (ie, atrovent, ipratropium)..... | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 48. Nebulized Bronchodilators .....  | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 49. Magnesium injections in ED.....  | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 50. Oxygen (continuous or prn) .....                                       | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 51. IV Antibiotics.....  | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 52. Systemic Corticosteroid (IV or PO) .....                               | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 53. IV Lasix or Furosemide.....  | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |



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	<u>At onset of time of event</u>		.....	<u>At discharge</u>	
	No/NR	Yes		No/NR	Yes
54. Antibiotics-oral .....	a. 0 <input type="checkbox"/>	1 <input type="checkbox"/>	.....	b. 0 <input type="checkbox"/>	1 <input type="checkbox"/>
55. Systemic corticosteroid (ie prednisone) .....	a. 0 <input type="checkbox"/>	1 <input type="checkbox"/>	.....	b. 0 <input type="checkbox"/>	1 <input type="checkbox"/>
56. Inhaled short acting beta-agonists (ie albuterol).....	a. 0 <input type="checkbox"/>	1 <input type="checkbox"/>	.....	b. 0 <input type="checkbox"/>	1 <input type="checkbox"/>
57. Inhaled long-acting beta-agonist (ie, serevent) .....	a. 0 <input type="checkbox"/>	1 <input type="checkbox"/>	.....	b. 0 <input type="checkbox"/>	1 <input type="checkbox"/>
58. Inhaled short-acting anticholinergics (ie, atrovent) .....	a. 0 <input type="checkbox"/>	1 <input type="checkbox"/>	.....	b. 0 <input type="checkbox"/>	1 <input type="checkbox"/>
59. Inhaled long-acting anticholinergics .....	a. 0 <input type="checkbox"/>	1 <input type="checkbox"/>	.....	b. 0 <input type="checkbox"/>	1 <input type="checkbox"/>
60. Inhaled corticosteroids .....	a. 0 <input type="checkbox"/>	1 <input type="checkbox"/>	.....	b. 0 <input type="checkbox"/>	1 <input type="checkbox"/>
61. Nebulized bronchodilators .....	a. 0 <input type="checkbox"/>	1 <input type="checkbox"/>	.....	b. 0 <input type="checkbox"/>	1 <input type="checkbox"/>
62. Leukotriene antagonist.....	a. 0 <input type="checkbox"/>	1 <input type="checkbox"/>	.....	b. 0 <input type="checkbox"/>	1 <input type="checkbox"/>
63. Home oxygen .....	a. 0 <input type="checkbox"/>	1 <input type="checkbox"/>	.....	b. 0 <input type="checkbox"/>	1 <input type="checkbox"/>