

# CME Exam and Evaluation (1 CME credit)

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## 2. Educational questions. Answer by marking the correct answer.

### 1. Desmosine and isodesmosine are crosslinks unique to which of the following?

- Lung elastin.
- Elastin.
- Collagen.
- Fibronectin.

### 2. Which of the following sentences is correct?

- Desmosine and isodesmosine are markers of breakdown of the extracellular matrix component to which they are unique.
- Desmosine and isodesmosine are markers of formation of the extracellular matrix component to which they are unique.
- Desmosine and isodesmosine are markers of both formation and breakdown of the extracellular matrix component to which they are unique.
- Desmosine and isodesmosine are markers of dysfunction of the extracellular matrix component to which they are unique.

### 3. In which chronic degenerative pulmonary disease excretion of desmosine and isodesmosine is increased?

- COPD.
- Cystic fibrosis.
- Diffuse bronchiectasis.
- All the above.

### 4. In which body fluid have desmosine and isodesmosine not been investigated?

- Exhaled breath condensate.
- Urine.
- Plasma/serum.
- Sputum.

### 5. Which of the following sentences is not true?

- Healthy smokers excrete more desmosine and isodesmosine than never smokers.
- COPD subjects with severe exacerbation have been shown to excrete more desmosine and isodesmosine than in stable condition.
- The level of desmosine and isodesmosine in patients with COPD and emphysema is significantly higher than in COPD without emphysema.
- In subjects with emphysema associated with  $\alpha 1$ -antitrypsin deficiency, desmosine and isodesmosine are significantly correlated with  $K_{CO}$ .