shows the area of higher concentration due to the response of free crystalline silica, due to pigmentation -- or is the emphysema due to changes in the vascular trunks? Or the blood supply to certain areas, as for example, here we see, a large vascular trunk sustained with elastic tissue? We see the lumen of this vascular trunk which is considerably narrower and smaller than normal. We see the elastic membrane and we see the deposit of coal dust about this vascular trunk.

The next slide. And, in other instances, again the wall of a vascular trunk, the inner elastic tissue and here we see the deposit of coal dust, and here we see the deposition of collagen, Actually involving and impinging upon these vascular trunks.

The next slide. Or, in other instances, we see the vascular trunk in the center of an area of pigmentation, almost occluded. Is it then possible that this focal emphysema which we see, and the respiratory difficulty in these coal miners, may be due to these changes in the vascular trunk?

The next slide. Or, is the emphysema and the respiratory difficulty, more directly due to the involvement of the pulmonary tissue per se? For example, in this instance, with deposition of this coal dust in the alveolar wall and its associated inflammatory response, could it be