Additional correlative data show that cell-bound radiogallium is likely to be responsible for elevated computer lung indices in rheumatoid lung. These data come from an additional rheumatoid lung case that we encountered, which had a ⁶⁷Ga computed lung index of only 110 when compared to the index of 308 in the published case. The open lung biopsy microscopic sections from this additional case exhibited much less chronic inflammatory infiltrate than that which occurred in the published case. As in the published case, neutrophils were almost nonexistent.

Our interpretation of our culture findings incorporates Dr. Weiner's original suggestion that LF contained in the cytoplasm of neutrophils is a major site for radiogallium accumulation (3). Radiogallium scintigraphy is usually performed at 48 hr, at which time one images the "repository" not the receptors. Our experiments were not designed as the minute-range, receptor-uptake type. They reflect in vivo clinical imaging because radiogallium was present with the cells during both of the entire incubation periods. Our experiments were patterned after the Australian researchers' earlier work, in which they specifically performed long-term rather than short-term incubations (1,2). In the Australian researchers' macrophage mutation paper (5), they returned to the use of short-term incubation receptor type work. Since the binding affinity of LF is greater than that of TF (6), the transfer of iron or gallium from TF to LF could be an intracellular phenomenon and does not necessarily need to involve LF receptors.

If extracellular LF due to bronchial hyperactivity was the cause of the excessive radiogallium uptake in our rheumatoid lung patient, then we should have seen a hilar and perihilar concentration of radiogallium in the scintigrams. This was not the case; the uptake was peripheral and homogenous. Furthermore, human studies have shown that radiogallium recovered from bronchoal-veolar lavage is essentially all cell bound (7). Also, the results of challenge with aerosolized *E. coli* do not mimic the situation with regard to rheumatoid lung. We hope that the data and discussion provided herein will give the nuclear medicine community greater insight into the considerations necessary to understand gallium uptake.

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Ventilation-Perfusion Lung Scans

TO THE EDITOR: Pulmonary physiologists have traditionally used V as the symbol for a volume of gas and \dot{V} as the symbol for gaseous flow rate. Similarly Q is the symbol for a volume of blood and \dot{Q} is the symbol for blood flow rate. V/Q and \dot{V}/\dot{Q} are ratios of these measurements (1).

Some years ago (2) the distribution of radioactivity in a ventilation-perfusion lung scan was abbreviated erroneously to V/Q despite the fact that neither blood volume nor blood flow was quantified. This abbreviation caught on and has persisted in many centers.

In the recent paper by Klingensmith and Holt (3), ventilation-perfusion lung scans are abbreviated to $\dot{\mathbf{V}}/\dot{\mathbf{P}}$, as if ventilation and perfusion were quantitated, while Gottschalk in his accompanying editorial (4) further compounds the error by using the symbols $\dot{\mathbf{V}}/\dot{\mathbf{Q}}$.

Until we actually measure ventilation (V) and perfusion (Q) why not call a lung scan what it is—a V-P scan?

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REPLY: Dr. Fishman raises some interesting and valid points. I remind him, however, that nuclear medicine is not only physiologically oriented, but, among other things, radiochemically oriented as well. Do we want the Mike Welch's of our world to think we speak of vanadium-phosphorus scanning? It may be that the "correct" application of jargon works better in a narrow specialty rather than a multidisciplinary area such as nuclear medicine, where much overlap exists and conventional slang may be more easily understood than precise application of terms. For instance, the xenon-133 study starts with a single breathhold which is proportional to flow rate and thus V could be used. The next step (equilibrium) is proportional to aerated lung volume (V), and the washout is dependent on the degree of collateral air drift; let's call it SW, for slow washout. So, why not call the (V, V, SW) - P scan?

Personally, I prefer and use the term V/Q scanning without the dots above the letters. The dots appeared in the editorial process, which I assumed was JNM policy. I use V/Q from a long-standing bias, getting firmer as I grow older, that language is best used to communicate. As Dr. Fishman put it, V/Q is "the abbreviation that caught on." So far, when I use V/Q, people understand what I mean.

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