Author's Accepted Manuscript

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PII: S1053-2498(17)31752-7

DOI: http://dx.doi.org/10.1016/j.healun.2017.04.009

Reference: HEALUN6501

To appear in: Journal of Heart and Lung Transplantation

Cite this article as: Ankit Bharat, G.R. Scott Budinger and Michael G. Ison, Donor-Derived Ureaplasma is a Potentially Lethal Infection in Lung Allograft Recipients, *Journal of Heart and Lung Transplantation*, http://dx.doi.org/10.1016/j.healun.2017.04.009

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CCEPTED MANUSCRI

DONOR-DERIVED UREAPLASMA IS A POTENTIALLY LETHAL INFECTION IN LUNG ALLOGRAFT RECIPIENTS

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Ureaplasma species are Mollicutes that are commensals of the urogenital tract. These

organisms are dependent on urea hydrolysis for energy production which generates

ammonia and carbon dioxide. We recently hypothesized that systemic infection with

Ureaplasma species might pose a unique challenge to human ammonia metabolism by

simultaneously disrupting hepatic clearance of ammonia through urea production and

liberating free ammonia, resulting in the lethal hyperammonemia syndrome, which affects

over 4% of lung transplant recipients 1,2. When we assessed residual specimens of lung

transplant recipients from multiple centers who succumbed to the hyperammonemia

syndrome, we found that all patients had evidence of disseminated *Ureaplasma* infection

and none without the syndrome had detectable Ureaplasma 1. This series also included

samples from a previously published case report from The Lancet in which Mycoplasma

hominis was proposed to be the cause of hyperammonemia 3. All samples that we

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