





## Letter to the Editor

# The authors' reply to Jensen et al's Letter to the Editor

Christina M. Kaul MD, MS<sup>1,2</sup> , Matthew Haller MD<sup>3,4</sup> , Jenny Yang MD<sup>4</sup>, Sadie Solomon BS<sup>5</sup> ,  
Maria R. Khan PhD, MPH<sup>2</sup>, Robert A. Pitts MD<sup>1</sup>  and Michael S. Phillips MD<sup>1,5</sup>

<sup>1</sup>Division of Infectious Diseases, NYU Grossman School of Medicine, New York, NY, USA, <sup>2</sup>Department of Population Health, NYU Grossman School of Medicine, New York, NY, USA, <sup>3</sup>NYU Grossman School of Medicine, New York, NY, USA, <sup>4</sup>Department of Medicine, NYU Grossman School of Medicine, New York, NY, USA and <sup>5</sup>Department of Hospital Epidemiology, NYU Langone Health, New York, NY, USA

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To the Editor—We thank Jensen et al for also highlighting the difficulties at points of transitions of care, and bringing up the difficulties that lie in discharge to off-site facilities for patients requiring outpatient parenteral antimicrobial therapy (OPAT).<sup>1</sup>

To acknowledge the point of the authors that existing methods of communication with these facilities should be described, we provide the description as follows. Similar to the central OPAT program described by Jensen et al, our institution also maintains a dedicated OPAT outpatient service consisting of two infectious diseases (ID) physicians and four nurse practitioners (NP); further details regarding the service have been previously described.<sup>2,3</sup> Patients followed by the OPAT team are required to have an ID inpatient consult. For our patients discharged to acute rehabilitation (AR), which is a part of our hospital system and located in close physical proximity to our main hospital, ID physicians continue to follow the patients while they remain in this facility. At the time of discharge from AR, the OPAT service is notified and take over antimicrobial management once discharged from AR. One NP is assigned to each case and subsequently initiates contact with the patient, infusion company, and accepting facility (if applicable). This NP also assumes responsibility for antimicrobial monitoring and ensures indwelling catheter removal after completion of intravenous therapy.

For OPAT patients discharged to sub-acute rehabilitation (SAR) or long-term care facilities (LTCF), a similar protocol exists. Prior to discharge, the OPAT service is notified by the inpatient team. An OPAT service NP is assigned to each patient, initiating contact and assuming responsibility for antimicrobial monitoring as described above. Contact is made with the accepting physician and nursing staff of the accepting unit via email or telephone to initiate care coordination. Communication with the facility continues at least weekly to ensure collection of laboratory tests at the appropriate interval, communication of adverse events, adjustment of therapy if indicated, and removal of vascular access at the completion of therapy. However, we would like to note that successful contact varies widely by facility, therein highlighting a major challenge we face in ensuring appropriate care coordination.

We agree with Jensen et al that in the absence of a shared electronic health record that communications can be improved, including granting facilities read-only access to the health system. While we agree that this would certainly improve communication with off-site facilities, we must acknowledge the logistical hurdles in place to allow this to occur, particularly in large urban centers where patients are discharged to a wide range of off-site facilities. Other issues that come to mind in this model include lack of buy-in or motivation for cross-facility communication due to increased workload in already-overburdened staff, as well as how to sustain channels of communication over time. While we continue to work toward improving technological integration, one potential solution would be to prioritize discharge of OPAT patients to partner off-site facilities, which has been done at other institutions.<sup>4</sup> However, whether there is a positive impact on outcomes has yet to be established.

Jensen et al bring up the importance of telemedicine as a possible method to improve the relationship between off-site facilities and health systems. It has certainly been noted that transportation issues have led to patients missing follow-up appointments, including in patients at SAR or LTCF.<sup>5,6</sup> We agree that utilization of telemedicine in necessary circumstances could potentially improve patient outcomes, and we would welcome further work in this area.

We also agree with the authors that lack of support from a dedicated team in oral antimicrobial regimens is of concern. As more data emerge on the efficacy of oral regimens to treat complex infectious conditions, more formal workflows should be put in place to ensure that patients receiving these complex oral regimens are managed appropriately.

We wholeheartedly agree with Jensen et al that quality initiatives to improve OPAT management in off-site facilities should be prioritized and be incorporated into the literature to bring much-needed advancement to work done at this transition of care. As the authors described, whether off-site facilities are friend or foe remains to be seen.

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**Corresponding Author:** Christina Kaul; Email: [ckaulmd@gmail.com](mailto:ckaulmd@gmail.com)

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