

Supplemental material 1 (SM1): Progress of the at home NIV initiation protocol

Day1 : at home, the specialized physiotherapist gives education on the ALS pathology and its consequences. The ventilator, humidifier, mask, and corresponding telemonitoring devices were presented to the patients and their families by both the specialized physiotherapist and the home care assistance technician. The first use of the ventilator was done under supervision of the specialized physiotherapist for titrating the therapy as previously described. Patient was in supine position.

Day 2 : after telemonitoring checking, the physiotherapist makes a call to the patient to debrief the first night. Parameters could be modified if necessary.

Day 3 : at home, the physiotherapist gives once again education on the use of the material. They check the high resolution data from the device and elaborate a report. Adjustment of the settings are made if necessary.

Day 10 : after telemonitoring checking, the physiotherapist makes a call to the patient to debrief. Parameters could be modified if necessary. The home care assistance can be solicited to adjust a new mask or give technical informations if necessary.

Day 30 : at home, the specialized physiotherapist checks the high resolution data and the nocturnal oximetry from the device and elaborate an expert report. Adjustment of the settings are made if necessary.

During the 1-month of initiation, patients were able to contact by phone at any time the multidisciplinary care team (Home care assistance, coordination nurse, specialized physiotherapist), to receive support for any reason related to NIV and their clinical condition.