



PARKINSON'S DISEASE NEWS

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L-DOPA INHALER FOR PARKINSON'S DISEASE

CVT-301 is the name of an inhaled version of L-dopa presently being developed for the treatment of Parkinson's Disease. CVT-301 uses the ARCUS inhalation technology, which delivers a reliable and consistent drug dose with a compact, breath actuated inhaler. It uses a dry powder and inhaler combination that is unique in its ability to deliver a large, precise dose independent of inspiratory flow rate from a simple, easy-to-use device suitable for convenient self-administration.



Among people with Parkinson's Disease inhaling CVT-301 as a single 50mg dose during an "off" period, 77% of them showed an increase in plasma L-dopa within 10 minutes. Only 27% of those people with Parkinson's Disease taking oral carbidopa/levodopa reached the same levels. The improvements in motor function were seen as quickly as 5 and 15 minutes after administration, which were the earliest assessment times. So the effect may have been even quicker.

The most common adverse event was a cough. However, all cough events were mild to moderate, occurred at the time of inhalation, resolved rapidly, and became less frequent after initial dosing. Less common adverse effects were dizziness and headache. There were no adverse effects on cardiovascular or lung function.

The speed of effect of the L-dopa inhaler and its limited adverse effects could enable it to be widely used when a rapid effect on Parkinson's Disease is required.

Reference : Science Translational Medicine [2016] 8 (360) : 360ra136 (M.M.Lipp, R. Batycky, J.Moore, M.Leinonen, M.I.Freed)

Complete abstract : <http://www.ncbi.nlm.nih.gov/pubmed/27733560>

<http://www.viartis.net/parkinsons.disease/news/161022.pdf>

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