SIX MONTHS LENTIVIRAL CREENTONVESTALE TYPE THE BROSER ARANEMENARE ME

CONDUCTANCE REGULATOR GENE DEFECT IN CYSTIC FIBROR MICE

LPC/LV-CFTR

& Children's

Women's

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Introduction

The assessment of functional genetic correction of the bioelectrical defect in cystic fibrosis (CF) mice nasal airway via transepithelial potential difference (TPD) measurements is technically challenging and can show high variability.

We examined the effects of our lentiviral (LV) gene therapy prox over 6 months using a repeated-measures experimental design in CF mice.

Methods

Male and female CFtm1unc mice were instilled nasally with either PBS (control) or lysophosphs delivery of an LV vector cc group of CF mice received measurements were performed under

domitor/ketamine anaesthesia at 1 week, and at 1, 3, and 6 months after treatment, using standard basal, basal+amiloride (amil:10-4M) level and low-chloride+amiloride Krebs solutions (Fig. 1).

calculated as the low-chloride TPD minus the basal TPD.

Results

In mice that received LPC/LV-CFTR a significant and a significant APD towards normal values was seen at 1 week. The correction has persisted for at least 6 months to date (*p<0.05, RM ANOVA n =6-12/group) (Fig.,?)-Zi, hmere was no contieur om divordes by danu no difference be to sen) the two control groups PBS/I V-CFTR and LPC/LV-MT at all time points. There was TPD measures (data not shown).

Conc

Paruar (TO /0/ Sustained concess treatment, with the duration of

least 6 months without mortality associated with anaesthesia or TPD procedures.

measure study designs can be successfully applied to CF transgenic mice using these as the stress and dosing protocols over at

LPC/LV-CFTR

LPC/LV-MT

Acknowledge





