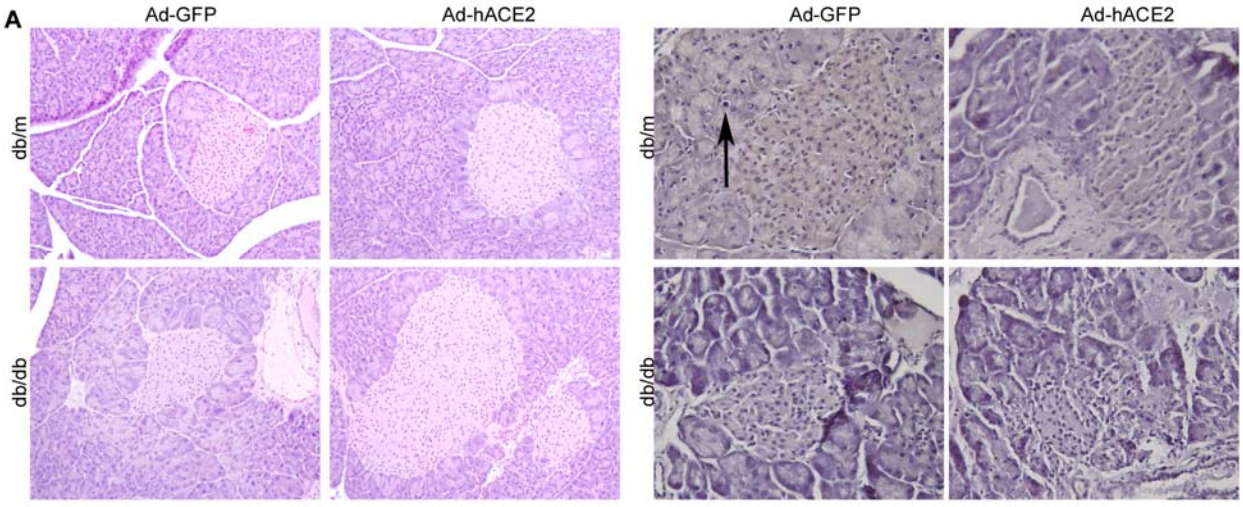
ONLINE APPENDIX

Supplemental Table 1. Metabolic parameters in Ad-hACE2 and Ad-GFP infected db/db and db/m mice.

	Ad-GFP db/m	**Ad-GFP db/db**	**Ad-hACE2-eGFP db/m**	**Ad-hACE2-eGFP db/db**
Body Weight *(g)*	18.18 ± 0.56	24.70 ± 1.14*	18.82 ± 0.57	23.2 ± 1.42*
Fasting Blood Glucose *(mg/dl)*	85.75 ± 6.5	123.8 ± 13.2	126.00 ± 10.3†	144.4 ± 13.38
IPGT AUC *(mg/dl/min)*	12.68 ± 0.4	18.48 ± 1.8*	13.35 ± 0.5	18.05 ± 1.2*
Insulin sensitivity AUC *(mg/dl/min)*	8.05 ± 0.9	10.9 ± 2.5	5.3 ± 0.1	9.06 ± 0.8

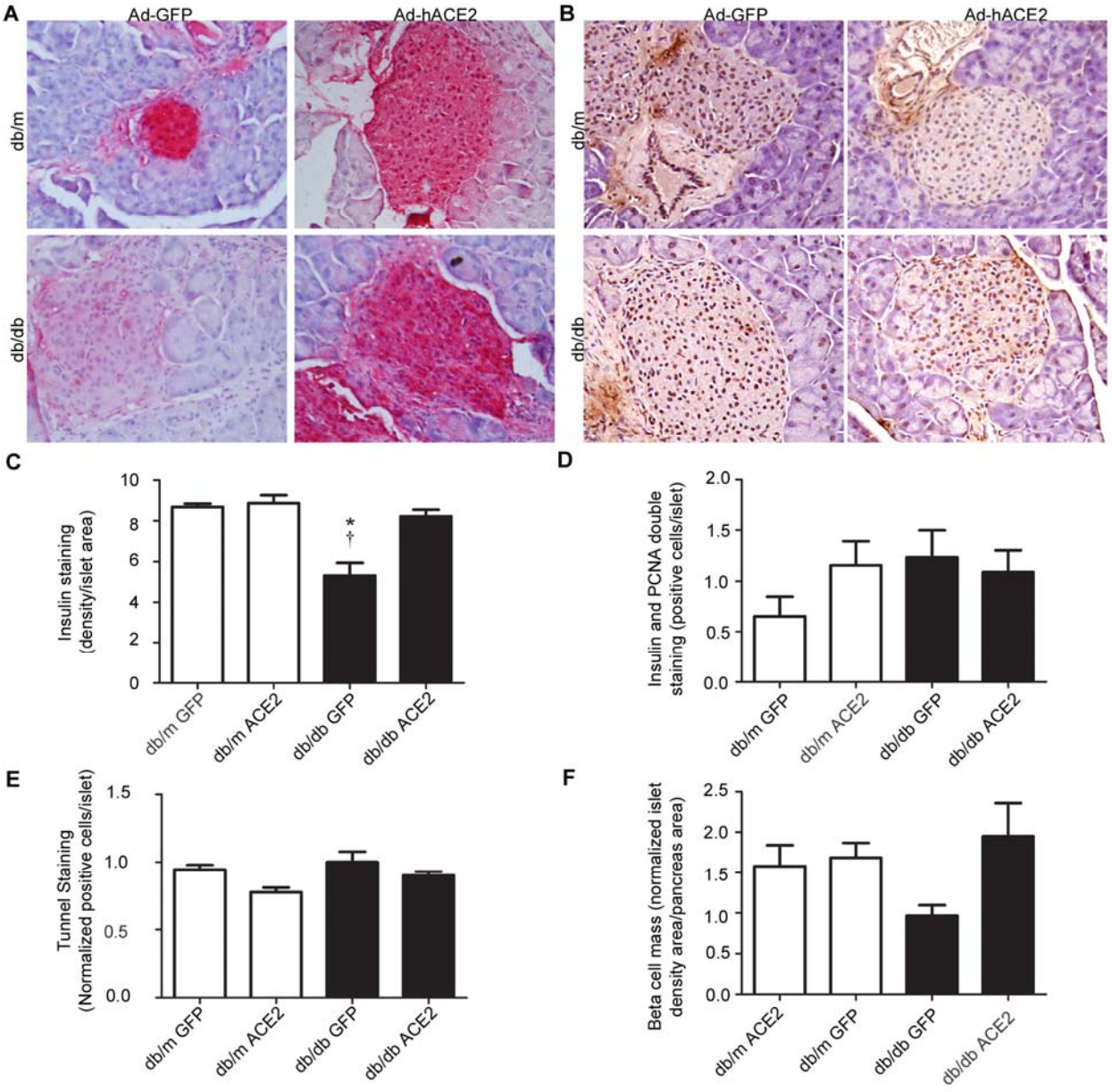
Data represent metabolic parameters of 4 week-old db/m and db/db mice (n=6 per group) following infection with Ad-hACE2-eGFP or Ad-eGFP viruses. Statistical significance: **P*<0.001 vs. treatment- matched db/m, †*P*<0.05 vs. GFP treated controls. Abbreviation: IPGT AUC, intra-peritoneal glucose tolerance area under the curve.

Supplemental Figure 1



Adenoviral delivery via direct injection does not cause pancreatic inflammation. *A*: H&E staining revealed preservation of pancreatic architecture following direct viral injection. *B*: Immunostaining for CD3+ revealed only occasional lymphocytes present in pancreatic tissue.

Supplemental Figure 2



ACE2 overexpression enhanced islet insulin content in db/db mice in comparison to Ad-eGFP-expressing db/db mice (*A*,*C*). There was no significant change in pancreatic β-cell proliferation (*D*) apoptosis (*C*,*E*) or pancreatic β-cell mass (*F*). Values expressed as mean ± SEM.