

# Early-life nutrition with an isotonic protein drink reduced piglet pre-weaning mortality by 22%

## An analysis of 91 studies

**Tonistry Px**

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### PROBLEM

- ✓ Globally, pre-weaning mortality (PWM) is ~14% → **2 pigs per litter die pre-weaning** (Interpig, 2022)
- ✓ PWM is perceived as a hard-to-shift parameter, so it is not prioritised for improvement

### OUR AIM

To investigate the effects of Tonistry Px on pre-weaning mortality (PWM) in a 91-study dataset

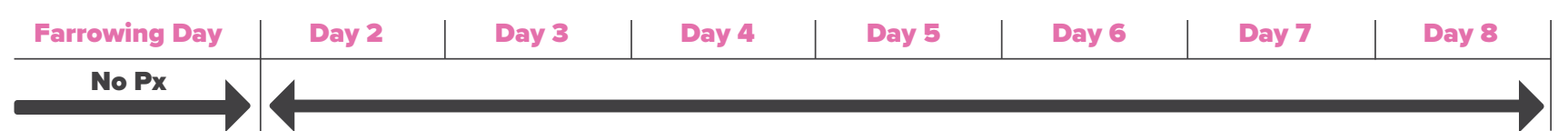
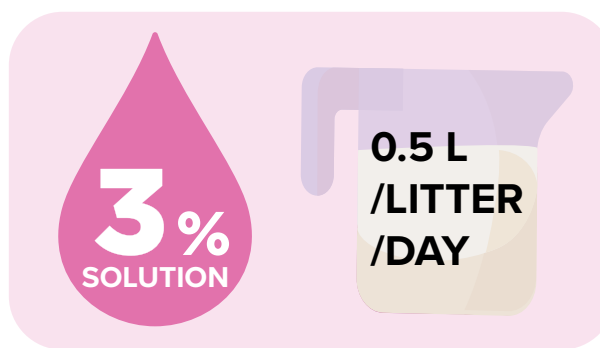
### INTERVENTION

**Tonistry Px - the first isotonic drink for piglets**

- Rapid energy for enterocytes
- Hydration + electrolyte support
- Promotes a healthy microbiome
- **Voluntary intake from day 2 of life**



### ADMINISTRATION SCHEDULE



### STUDY DESIGN

- ✓ 91 commercial studies from 23 countries = 15,107 litters (184,954 piglets)
- ✓ Litters randomly allocated at birth to Control vs. Tonistry Px groups
- ✓ Within study, groups were balanced for litter size, sow parity and genetics and housed in the same rooms at the same time

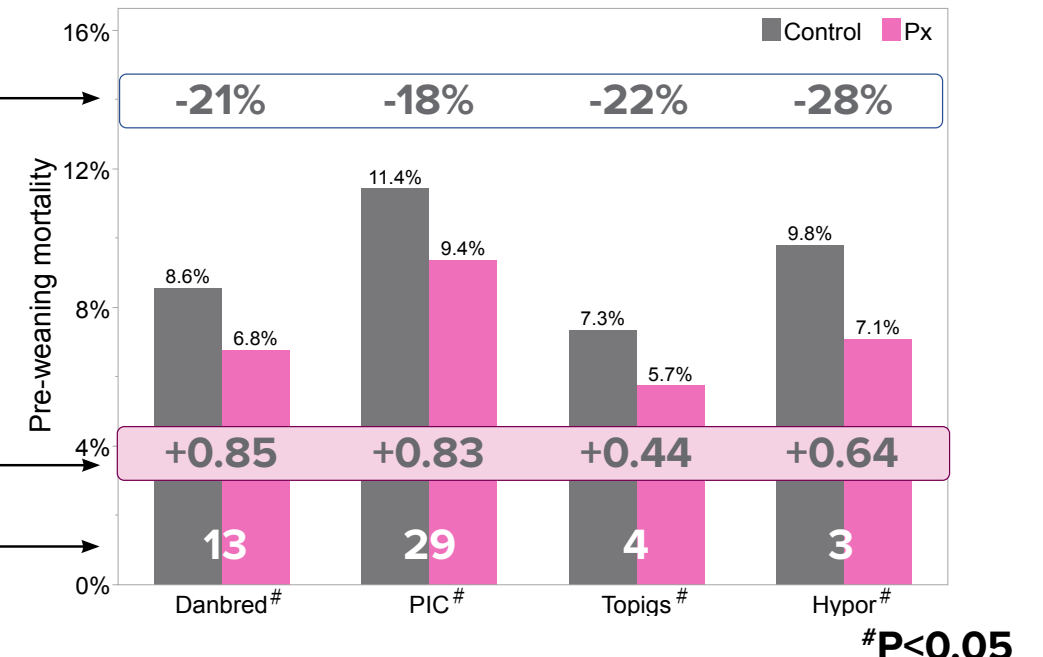
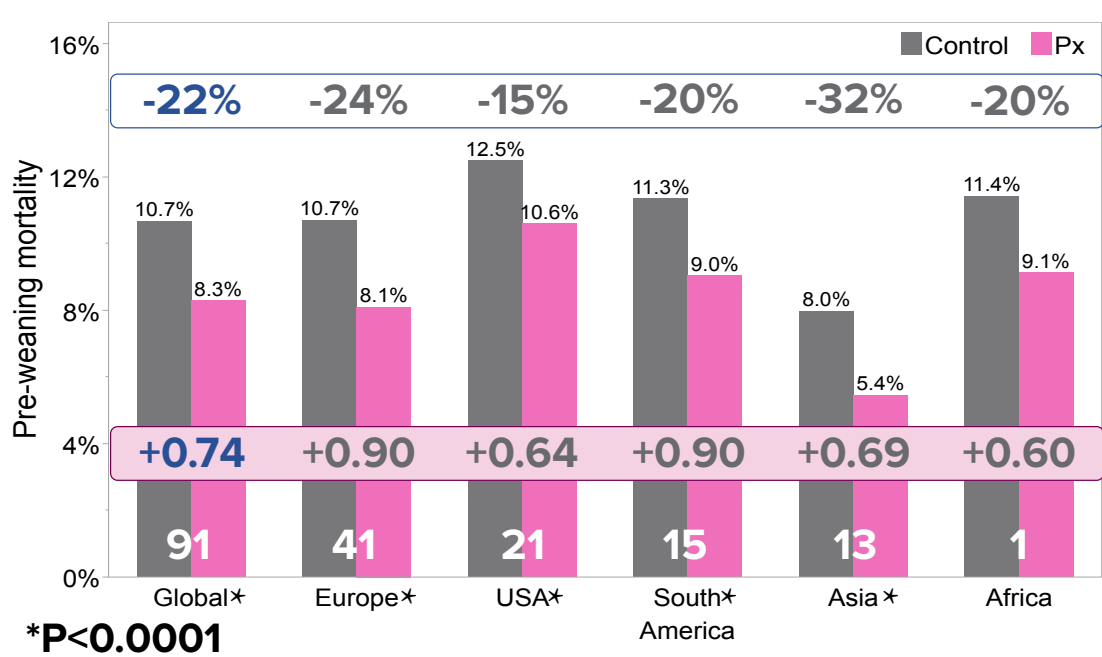
### STATISTICAL ANALYSIS

- ✓ SAS Generalised Linear Mixed Model
- ✓ Fixed effect – Treatment
- ✓ Random effect – Study ID
- ✓ Significance at  $P \leq 0.05$ ; Chart bars – LS means

## RESULTS: TONISTRY PX REDUCED PWM BY 22% OVERALL

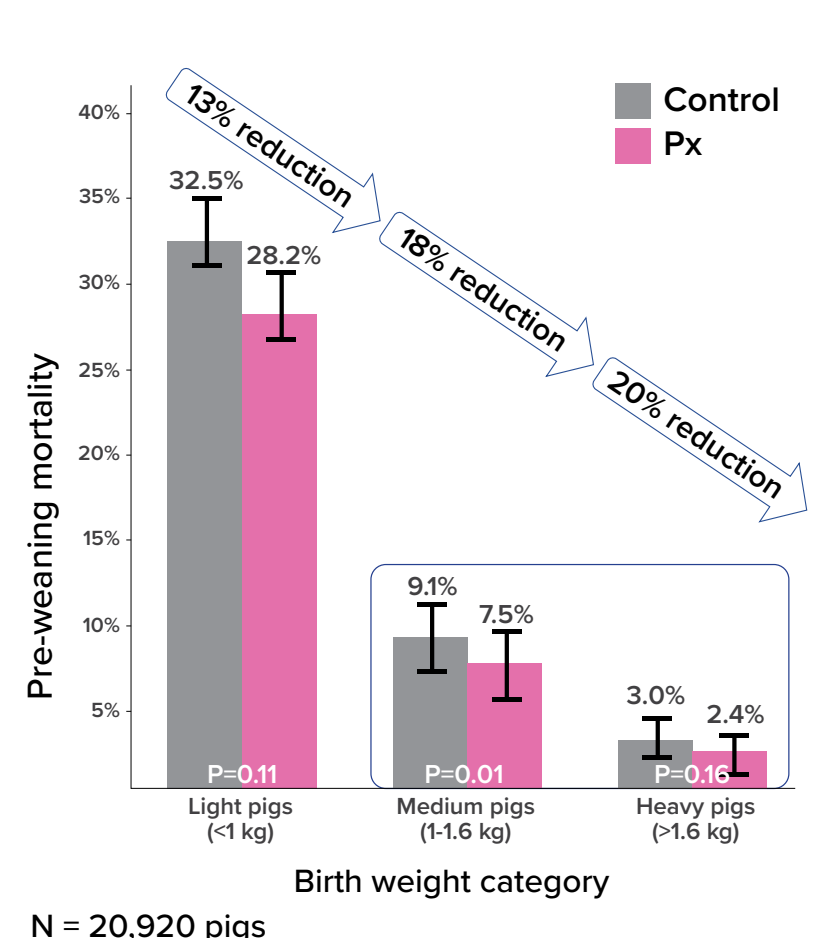
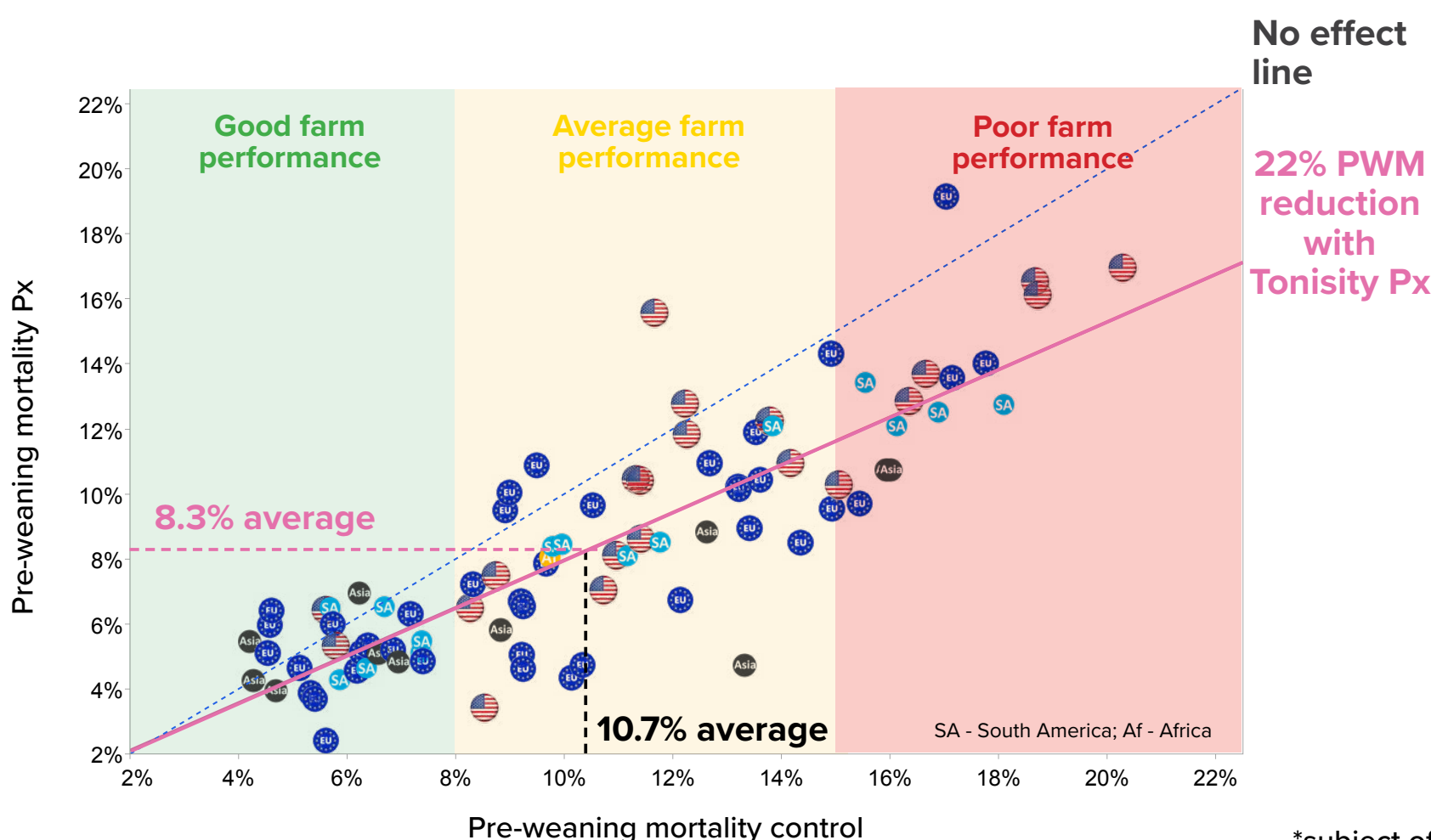
Regardless of geography

Regardless of genetics



Regardless of farm performance

Regardless of birth weight category\*



\*subject of a previous publication - DOI 10.1016/j.anscip.2023.08.050

**TONISTRY PX YIELDS AN EXTRA 740 PIGLETS/YEAR FOR A 1,000-SOW UNIT**