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Phenotypic Relationships of Common Health Disorders in Dairy Cows with Lactation Persistency Estimated from Daily Milk Weights. *By Appuhamy et al., page 4424.* The objective of this study was to investigate the phenotypic relationships between lactation persistency and common health disorders in dairy cows. Daily milk weights and treatment incidence records from research farms were used. Lactation persistency was calculated to be phenotypically uncorrelated with 305-d yield. Disease traits for mastitis, metritis, displaced abomasum, milk fever, ketosis, and lameness were developed. We examined the relationships of persistency to likelihood of disease occurrence and the impact of diseases on persistency. Increasing persistency tended to be associated with reduced mastitis incidence in late lactation. Many diseases tended to significantly affect persistency in multiparous cows.