

The thesis examines the impact of individual risks on an annuity product. It focuses on the deferred whole life annuity and on two basic risks, which affect the overall loss the most. These are interest rate risk and longevity risk. We choose standard deviation ( $\sigma$ ), value at risk (VaR) and expected shortfall (ES) at different confidence levels for target risk measures. Hoeffding decomposition is used to split the overall loss. Then Euler allocation principle will show the distribution of individual risks for different entry ages.