



# Wahlpflichtfach WS 2018/19 bis SoSe 2019

## Klinische Pharmazie und Biochemie

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### **ASSOCIATION BETWEEN NEUTROPHIL:LYMPHOCYTE RATIO AND TREATMENT OUTCOME IN LUNG CANCER [NLR]**

#### Description/tasks

Lung cancer is the leading killer among cancers worldwide. Combination chemotherapy e.g. paclitaxel plus cisplatin or carboplatin is the only treatment option in advanced disease stages (stage III/IV), however treated patients show poor prognosis, with less than 5% of the patients surviving >5 years. Markers such as disease stage, patient performance status and even gender have been evaluated as predictors of treatment outcome, but these do not perform well in advanced disease. The ratio of neutrophils to lymphocytes (neutrophil:lymphocyte ratio) before start or during chemotherapy at specific time points have been shown to be a good predictor of treatment outcome in various cancers (lung cancer inclusive).

In this work, you will perform literature research from online resources to summarise studies that evaluated neutrophil:lymphocyte ratio as a predictor on treatment outcome in non-small cell lung cancer focusing on studies in which paclitaxel, carboplatin or cisplatin was one of the administered drugs.

Note: All stages of this work: discussions, literature search and presentation will be conducted in English.

#### Learning goals:

- Increase understanding of the subject area (cancer chemotherapy)
- Comprehend knowledge from diverse sources through literature search from various online databases, e.g. PubMed
- Critical review and summary of knowledge in a study area.

#### **Requirements: (Voraussetzungen)**

Interest in scientific research, specifically in the study area of cancer and anticancer chemotherapy.

**1 student**

(6<sup>th</sup> semester)

#### **Registration: (Anmeldung)**

Until 30.11.2018 by e-mail to Prof. Dr. Kloft ([charlotte.kloft@fu-berlin.de](mailto:charlotte.kloft@fu-berlin.de), CC [ingo.siebenbrodt@fu-berlin.de](mailto:ingo.siebenbrodt@fu-berlin.de)), with a short application present a motivation for the topic and include the subject: **NLR**