1. **What are the assumptions for Chadwick and Leenhouts’ derivation of the LQ-model?**

**2. Sorry, you need to be able to explain the different steps in Chadwick and Leenhouts’ derivation of the LQmodel.**

**3. What is the correlation between the number of asymmetric chromosome aberrations and the survival?**

**4. What are the 2 techniques to synchronize cells and how do they work?**

**5. Draw a typical Age-response curve for cells with short G1**

**6. Draw a typical Age-response curve for cells with long G1**

**7. What can be concluded about radiosensitivity and age in cell-cycle?**

**8. Explain the correlation between HRS and cell cycle arrest**

**9. Which checkpoint is most important after irradiation?**

**10. What can be used as an in vivo model for colony formation?**

**11. How can we test Chadwick and Leenhouts’ interpretation of the LQ-model?**

**12. How does the relationship between lnS and Y differ for different cell-cycle phases?**

**13. How does the interpretation of the LQ-model in Hall’s book differ from Chadwick and Leenhouts?**

**14. What are the 4 best known low dose phenomena?**

**15. What is the LNT hypothesis?**