

# eGFR equation influencing factors

Li Zuo

Institute of Nephrology

Peking University 1<sup>st</sup> Hospital



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- **Background**
- **Reference GFR method**
- **Creatinine method**
- **Reference GFR distribution**
- **Conclusion**



# The phenomena of different racial factors

- Compared with White, the coefficient
  - For Black is 1.2
  - For Chinese is 1.23
  - For Japanese is 0.8
- What causes this obvious difference?



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# rGFR methods among studies

- MDRD study:  $^{125}\text{I}$ -iohexol renal clearance
- Japanese study: inulin renal clearance
- Chinese study:  $^{99\text{m}}\text{Tc}$ -DTPA plasma clearance



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# Conclusion

- Creatinine based eGFR equation is influenced by many factors
- Distribution of GFR is one of the factors
- Equation developed from CKD patients can not be used in general population

