

### What I Should Have Asked When I Started My Career in Cancer Drug Development: Clinician Perspective

### Stefan Symeonides University of Edinburgh

Challenges in clinical trial performance

6 - 8 February 2023

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### Disclosures

- No personal gain from, or financial interests in, any commercial pharmaceutical entity
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## Timeline

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### Timeline

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### Medical School

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Department of Biochemistry University of Cambridge

#### Challenges in clinical trial performance

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## Timeline

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## Timeline

Medical School

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PhD

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Learnings 1 (what I should have asked)...

The tension between

07

- Designing to the problems of yesterday
  - Especially with the long lag-time of drug development

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- Versus chasing blue-sky novelty
  - An academic (and young researcher) drive
  - May involve multiple novel dependencies
- The opportunities in-between: mAbs -> ADCs -> micro-immunolysins?



## Timeline

Medical School

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PhD

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Learnings 2 (what I should have asked)...

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- The development path
  - Consideration of data required for next stage
  - Pre-clinical package (pharmacology, safety, activity,...)
  - Clinical development pathway (stages of onward development)

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Line-of-sight

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### Timeline

Medical School

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PhD

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Learnings 3 (what I should have asked)...

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- "It takes a village" collaboration:
  - Laboratory drug discovery
  - Biotech and regulatory
  - Clinical
  - Pharmacology
  - Stats

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• Patients

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CHAIN REACTION

Western Blot Analysis

## Timeline



• Transferrable skills:

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• Self-directed work: organisation, prioritisation, learning, meetings

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- Knowledge: laboratory, scientific, regulatory/patent, clinical
- Practicalities: facilities, teams
- Critical appraisal: own work and others, scientific literature

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**Medical School** 

PhD

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**Medical School** 

PhD

## Timeline

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### Medical Practice

#### Learnings 5 (what I should have asked)...

- Careers in clinical drug development:
  - Knowledge of clinical specialties outside of primary & secondary care

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- Academic career routes
- Pharmaceutical career routes
- Important we continue to improve this for the next generation
- ...At least I knew I wanted to do Oncology, and hence Edinburgh

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### What I Should Have Asked When I Started My Career in Cancer Drug Development

- 1. Novelty vs established
- 2. The development path
- 3. Collaboration
- 4. Transferrable skills

- 6. Moving
- 7. Academic careers
- 8. Funding & opportunities
- 9. Learning from industry
- Drug development careers 10.Maintaining progress
  I should have asked how to develop <u>a</u> drug not just how to develop <u>this</u> drug

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# Questions

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