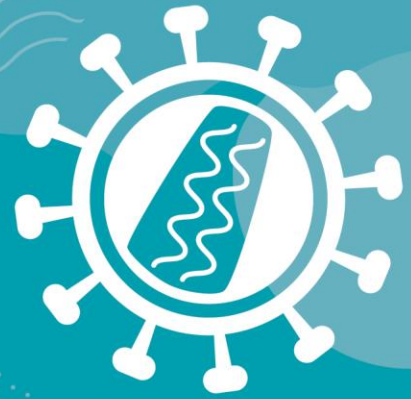


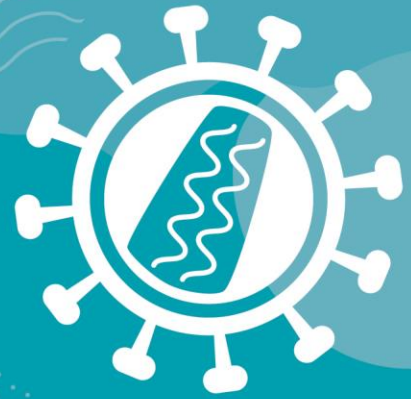
The use of PROMs in clinical trials

Professor Caroline Sabin
University College London, UK



The use of PROMs in clinical trials

Professor Caroline Sabin
Institute for Global Health, UCL



Conflict of Interest

I have received funding for the membership of Data Safety and Monitoring Boards, Advisory Boards and for the preparation of educational materials from:

- Gilead Sciences
- ViiV Healthcare
- Janssen-Cilag
- Merck Sharp & Dohme

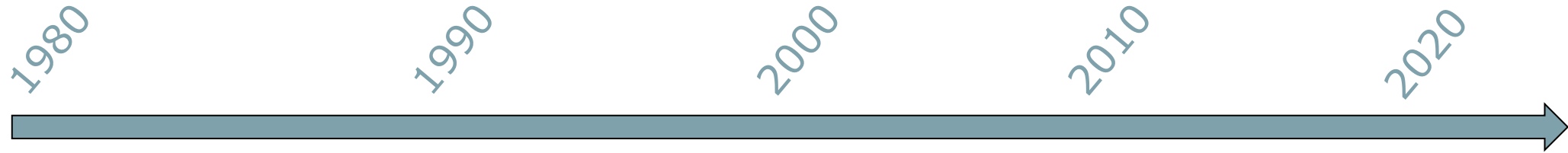
Speakers are required by the Federation of the Royal Colleges of Physicians to disclose conflicts of interest at the beginning of their presentation, with sufficient time for the information to be read by the audience. They should disclose financial relationships with manufacturers of any commercial product and/or providers of commercial services used on or produced for patients relating to the 36 months prior to the event. These include speaker fees, research grants, fees for other educational activities such as training of health professionals and consultation fees. Where a speaker owns shares or stocks directly in a company producing products or services for healthcare this should also be declared.

European AIDS Treatment Group (EATG) PROMise Project

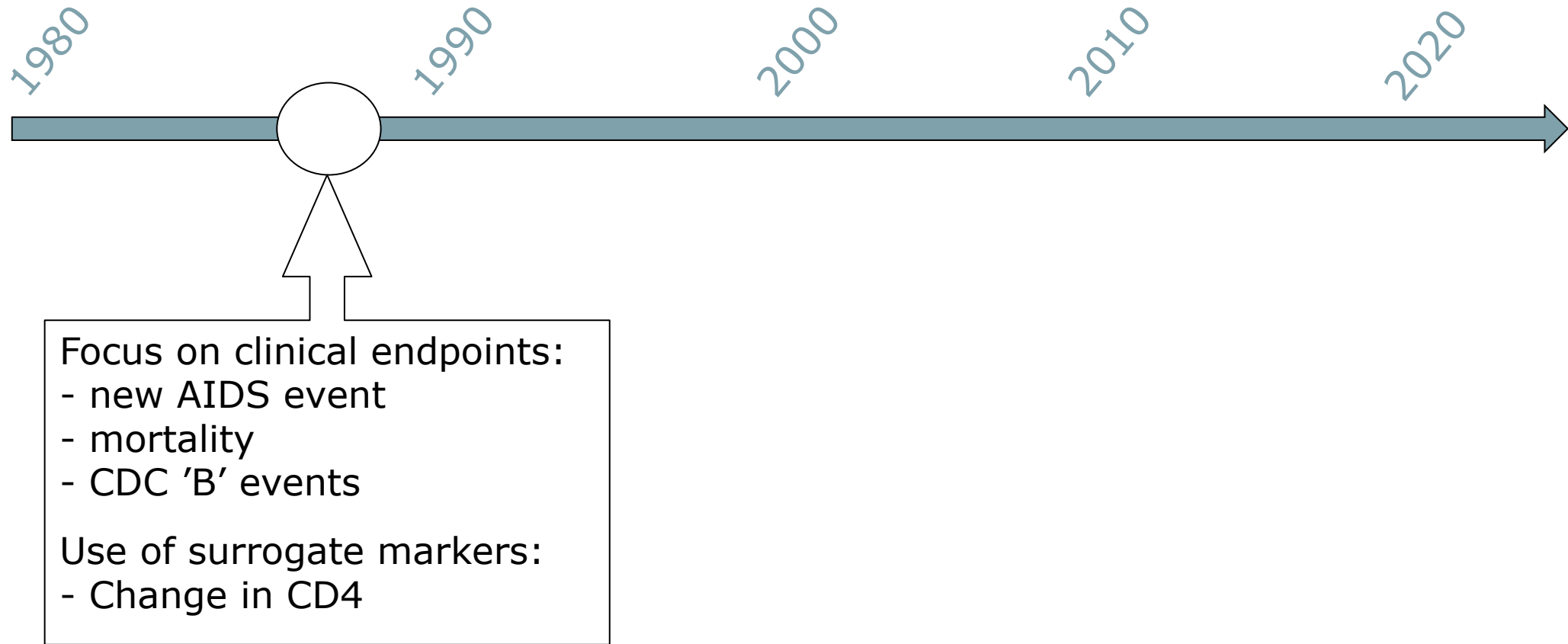


- Commissioned in 2020 to analyse the role of PROMs in HIV R&D
- Led by Kevin Moody with involvement of key community, clinical, academic and pharma stakeholders
- PROMise toolbox for community advocates and people living with HIV, but can be used as a resource for anyone interested
- <https://www.eatg.org/promise-community-activist-toolbox/>

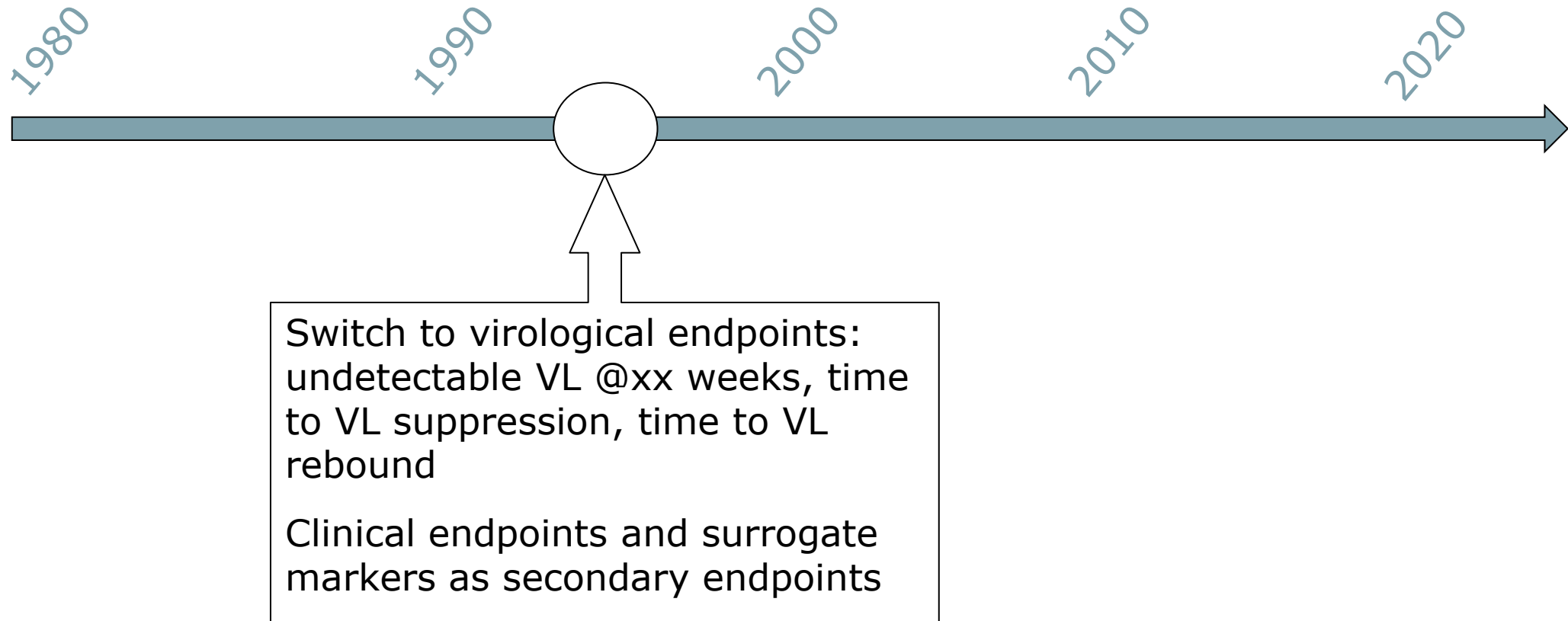
Endpoints in RCTs of antiretroviral treatments



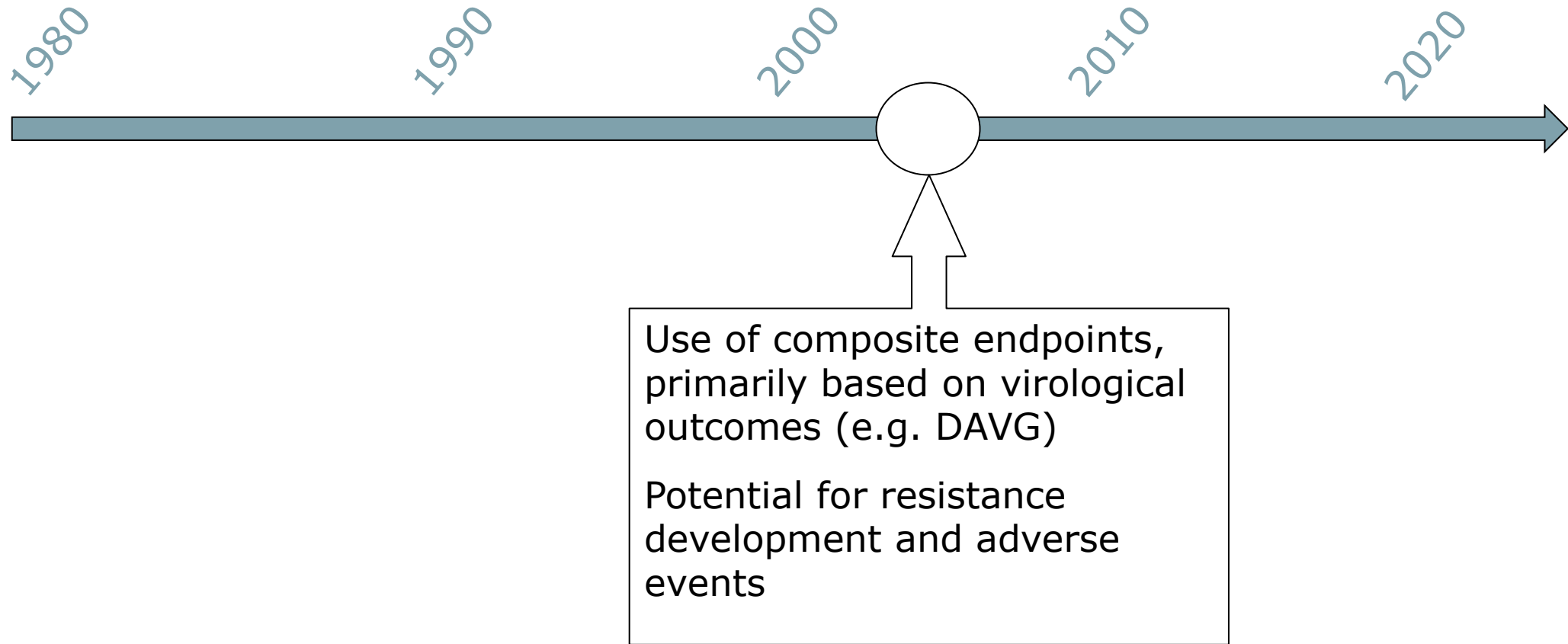
Endpoints in RCTs of antiretroviral treatments



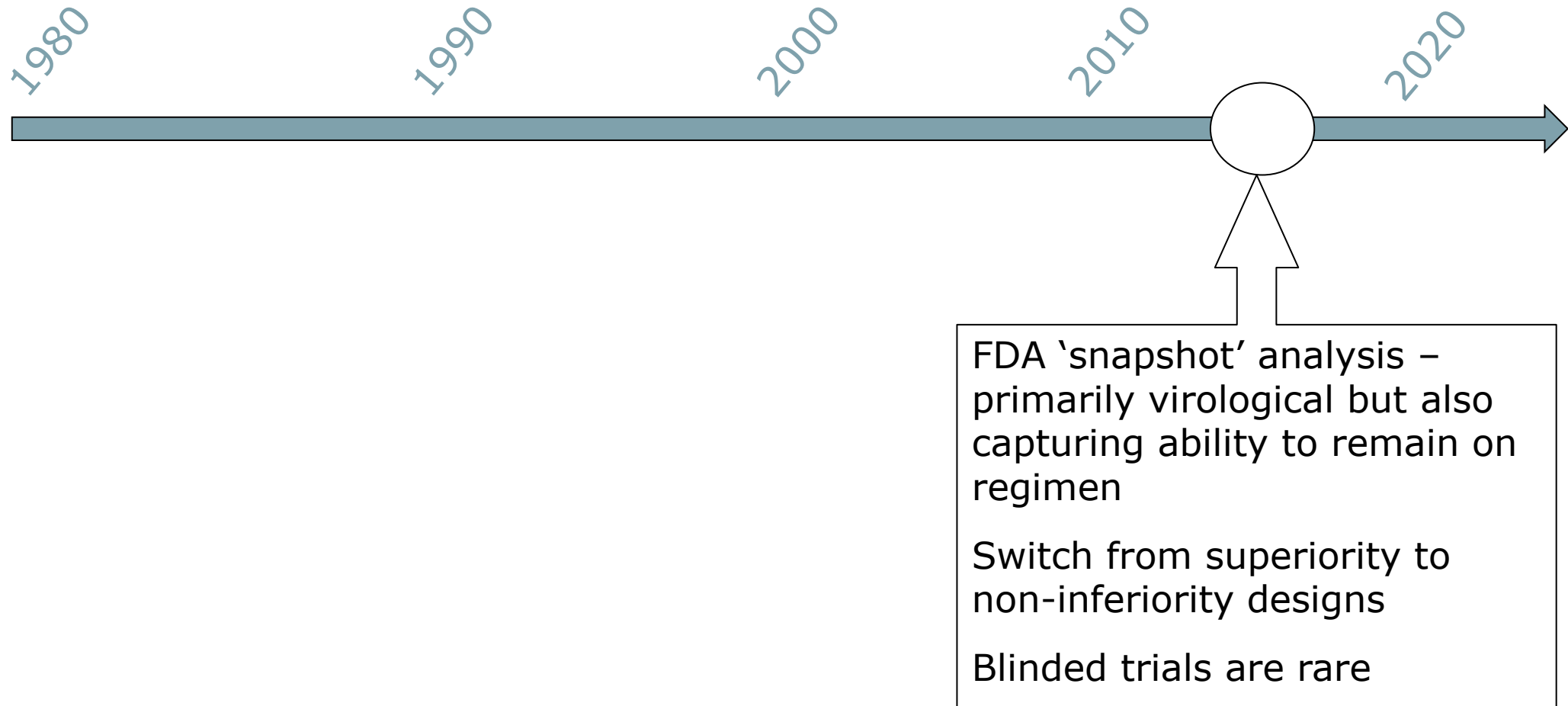
Endpoints in RCTs of antiretroviral treatments



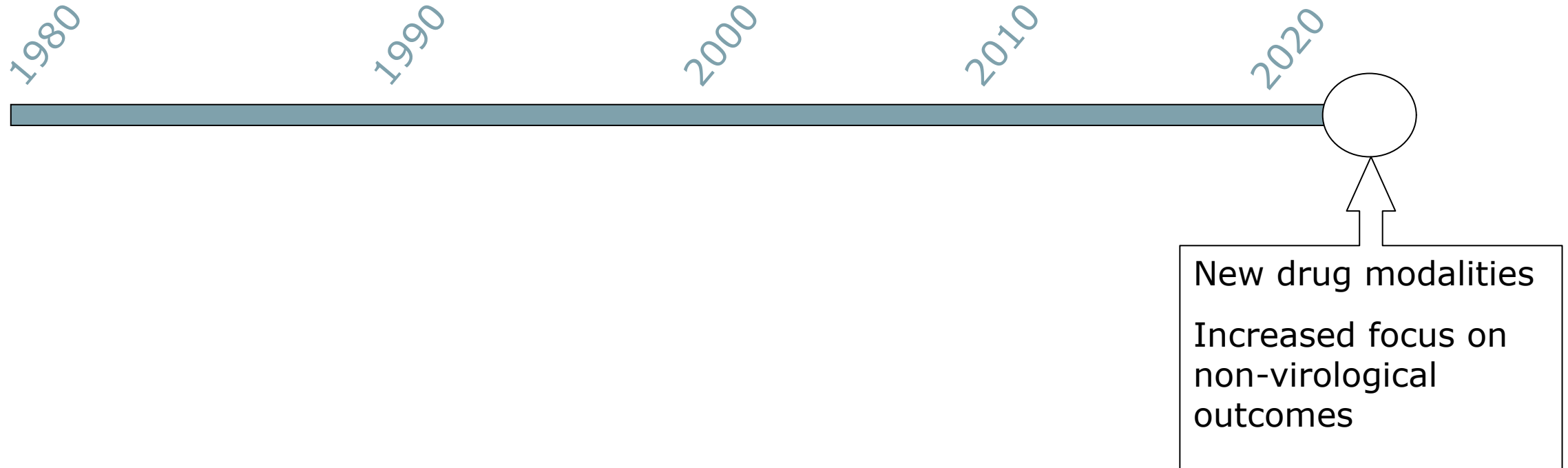
Endpoints in RCTs of antiretroviral treatments



Endpoints in RCTs of antiretroviral treatments



Endpoints in RCTs of antiretroviral treatments



Desirable features of a new drug

- Potent antiviral efficacy – ability to suppress viral load quickly and maintain this over time
- Minimal potential for development of resistance
- Rapid increase in CD4+ T-cell count
- Minimal potential for drug-drug interactions
- Few/minor toxicities
- Positive or minimal negative impact on quality-of-life
- Convenience/easy to take
- No other negative impacts on daily life

Desirable features of a trial endpoint

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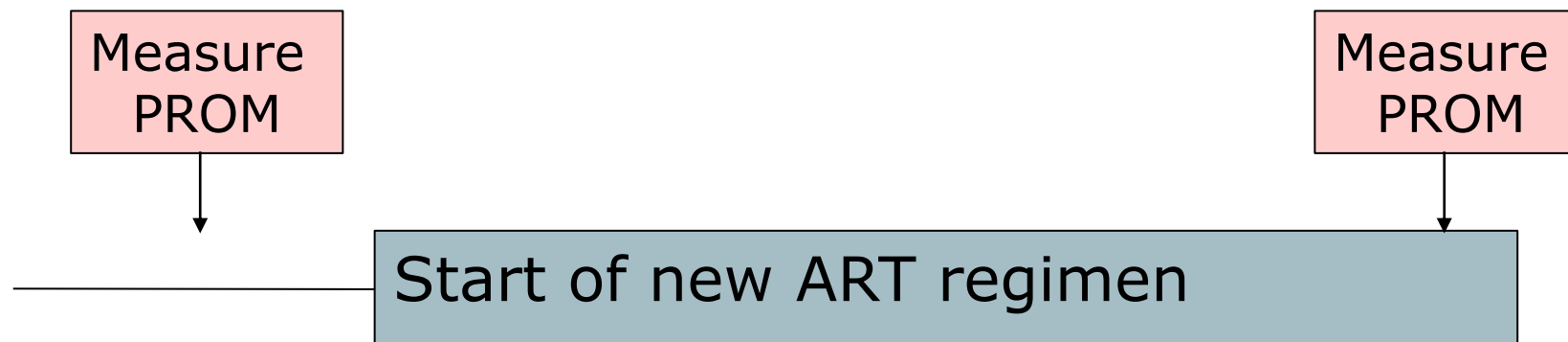
- Responsive to treatment
(at 12, 24, 48, 96 weeks....)

Desirable features of a trial endpoint

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- Able to discriminate between treatment arms

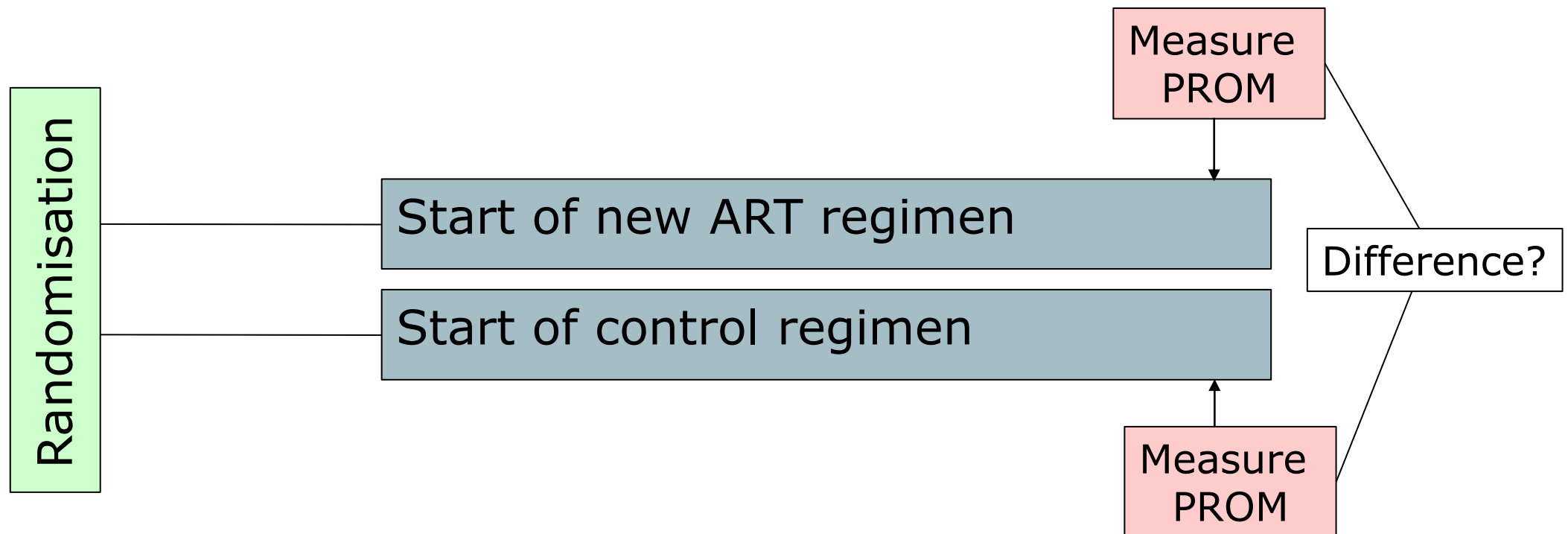
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(in the context of non-blinded trials)

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- Concise and clinically relevant

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(at 12, 24, 48, 96 weeks....)
- Able to discriminate between treatment arms
- Reliable, repeatable, valid...
(in the context of non-blinded trials)
- Support adequately powered trials
- Concise and clinically relevant
- Acceptable to regulators/funders/treatment guideline groups

Why is the choice important for funders?

- Funders need to be able to weigh up the benefits associated with a new ART drug against the additional costs incurred
- Need a 'standard currency' for assessment of QoL
- **Quality-adjusted life years (QALYs)** – generic measure that combines quality and quantity of life lived
- Can then compare 'costs per QALY' in a Cost-Utility Analysis across different interventions
- **EuroQol EQ-5D** – measure of HRQoL that measures 5 domains: mobility, self-care, usual activities, pain/discomfort, and anxiety/depression – can be easily converted to QALYs

Current use of PROMs – FLAIR Trial

- Change in Perception of Injection Questionnaire (PIN) scores
- % with 'extremely' or 'very acceptable' Pain and Local Reaction Acceptability Score on PIN
- Change in Life Satisfaction, HIV Medication and Disclosure Worry Using HIV/AIDs-targeted Quality of Life (HATQoL) Questionnaire
- Change in SF-12
- Change in Total Treatment Satisfaction (HIVTSQs) and item scores
- Change in Treatment Acceptance using "General Acceptance" Dimension of the Chronic Treatment Acceptance (ACCEPT) Questionnaire
- Change in tolerability of Injection at Weeks 5, 40 and 41

Is there a PROM that is suitable?



Is there a PROM that is suitable?

- No – unfortunately not at this stage
- Most RCTs currently incorporate at least one PROM as a secondary endpoint, but choice of PROM is up to the investigators
 - Can lead to ‘game-playing’
- Some limited guidance from regulators
- PROMise Project – next steps
 - Review currently available PROMs to identify key domains that are included
 - Map domains against likely needs of RCTs for new ART drugs
 - DELPHI exercise to agree consensus on domains to be included

