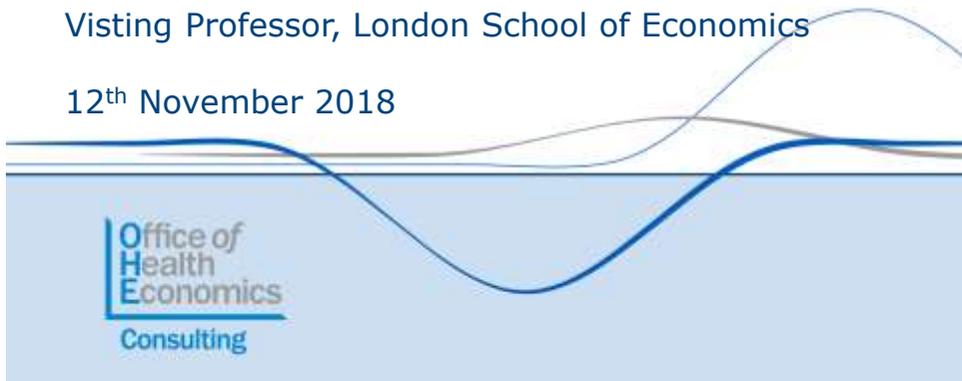


The Debate on Indication-Based Pricing

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I. Potential **benefits of IBP** – aligning price with value could expand patient access



Matching payments with value

- Permits rational prices which reflect true differences in value across indications (Bach 2014; Pearson et al. 2017; Flume et al. 2016)
- Reimbursement systems that do not account for changing value across indications or over time may produce suboptimal long-term societal outcomes (Garrison & Veenstra 2009)
- Allows physicians to make value-based prescribing decisions (Bradley, 2017)
- Outcomes contracts can reduce uncertainty; net price can thereby reflect actual value in the real-world setting (Yeung and Carlson 2017)
- Could encourage research into better targeting (Sachs et al 2017)
- Can be used as a tool to make treatment indications with poor cost-effectiveness more affordable (Bach 2016)

I. Potential **benefits of IBP** – aligning price with value could expand patient access



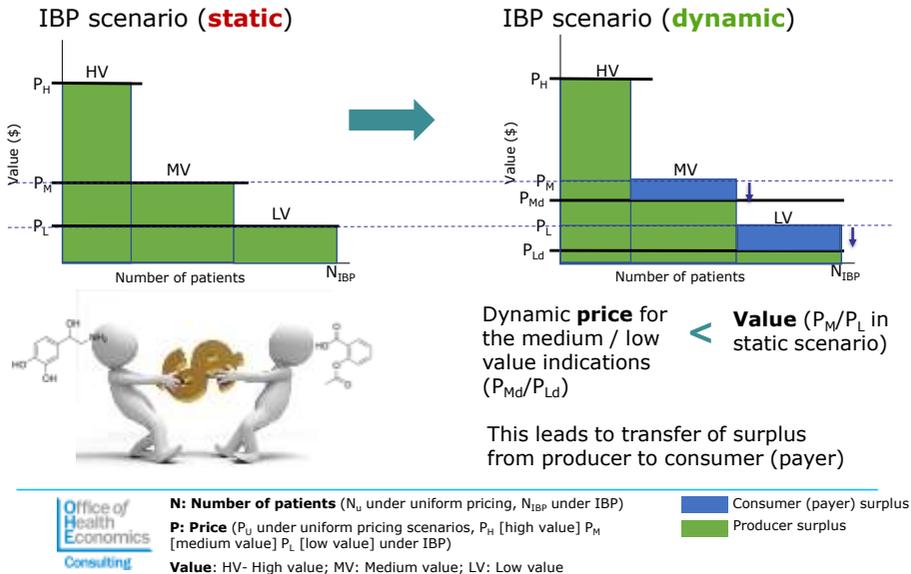
Expand patient access

- Would facilitate reimbursement in indications for which, based on current prices, the treatment is not cost-effective (Hui et al. 2017)
- IBP expands patient access and maximises quality-adjusted life years (QALYs) gained from a given budget, as well as encouraging the development of new indications. This provides the right signals for R&D (Mestre-Ferrandiz et al. 2015)

Balancing the needs of all stakeholders

- Could balance affordability for payers, sustainability for manufacturers and access for patients (Pearson et al. 2017)

II. Potential *drawbacks* of IBP – unaffordable for payers?



III. IBP – The details matter



What format should IBP take?

- IBP aligns payments with value, but efficacy differs from effectiveness; this means that evidence-based IBP prices (set ex-ante) might be quite different to outcomes-based reimbursement (based on realised value) (Yeung & Carlson 2017)

Barrier (opportunity?): data collection

- Poor data availability for tracking use by indication per patient (Pearson et al. 2017; Bach 2014)
- Feasibility of data collection must be balanced with the clinical relevance of the outcome (Yeung & Carlson 2017)
- Data lacking on effectiveness in sub-populations (Sachs et al. 2017)
- IBP could facilitate the collection of richer real-world data, and provide greater transparency in the utilisation of cancer drugs (Bach 2014)

III. IBP – The details matter



Legal and contractual barriers (surmountable?)

- Market-specific contractual barriers, e.g. Medicaid's best-price rule (Pearson et al. 2017)
 - This **could be overcome**, e.g. through contracts using weighted average price for multiple indications, or through product differentiation (Sachs et al. 2017)
- Bulk purchases by pharmacies, and volume-based payments by doctors and hospitals (Bach 2014)
- Off-label use, anti-kickback statute (Pearson et al. 2017)
- Privacy concerns inhibit data sharing with manufacturers (Sachs et al. 2017)

Political challenges may be greater than technical challenges (Bach 2014)



In summary...



- The case for IBP continues to be debated.
 - Some argue that IBP would lead to higher prices and increasing expenditure on medicines.
 - This depends on how uniform prices are set and the extent IBP promotes price competition
 - In principle it could be both efficient – increasing the numbers of patients using a medicine and increasing the numbers of new indications that offer value for money – and potentially promote competition.
- If IBP were to be implemented, a number of barriers need to be overcome to enable its potential benefits to be realised.
- US health plans and PBMs are currently piloting IBP approaches with the objective to better manage expenditure



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