Research Note

Individualizing Periods of Commercial Exclusivity to Control Pricing for Drugs and Biologics

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Abstract: The pricing for immunologic agents and antibody-based therapeutics has increased precipitously in recent years. Among the key contributors to price hikes is the static practice of granting commercial exclusivity to innovator drugs and biologics. Herein, we present a mechanism for individualizing periods of commercial exclusivity to control pricing for drugs and biologics.

Keywords: Commercial Exclusivity, FDA, Immunologic Agents, Antibody-based Therapeutics

Introduction

A decades-long trend of precipitous price increases on prescription drugs and biologics has resulted in a variety of unintended consequences ranging from the exacerbation of health disparities to an upsurge in private insurance premiums. Although the biopharmaceutical industry claims that these price hikes occur due to ever-increasing cost of development and commercialization, a contributing factor is also manifest in the protection from competition associated with periods of commercial exclusivity granted to sponsors of innovator therapeutics by the United States (U.S.) Food and Drug Administration (FDA) and/or European Medicines Agency (EMA). In this context, exclusivity is defined as the period immediately following regulatory approval during which an agency provides regulatory protection from competition. These periods can range from 180 days to 7 years in length for the U.S. market (U.S. FDA, 2019) or 10 to 11 years for the European Union market (EMA, 2019) (Fig. 1).

Rather than adhering to the current static system of standardized periods of exclusivity, we propose a mechanism that assigns appropriate periods of exclusivity on a product-specific basis that is deemed to provide an adequate incentive for innovators relative to the anticipated profitability of the product. In doing so, therapeutics that have greater market potential will be provided with less protection from competition. The allowance of increased competition, on an individualized basis, will thus prevent price gouging for most therapeutics while maintaining incentivization for the development of niche market products.
Discussion

Historically, government intervention in free markets has disrupted economic flow by being less responsive to real-time needs. This has resulted either in product shortages and corresponding price hikes, or extreme competition and loss of profit. The latter inevitably leads to a decrease in innovation. Nevertheless, there are ongoing efforts to regulate the pharmaceutical industry and enact regulations which are designed to achieve price transparency and, in some cases, require justification for price increases from drug manufacturers. However, such attempts to control price gouging have not been effective, to-date and may lead to legal issues regarding protection of intellectual property.

With Individualized Exclusivity Periods (IEP), these issues may be resolved while avoiding the legal pitfalls associated with transparency-focused efforts. Using the IEP method, sponsors would participate in either a period of minimal exclusivity (Option 1), meaning exclusivity will only be long enough for the sponsor to recover the cost of development; or the sponsor could participate in an alternative, longer exclusivity period (Option 2) which would be subject to price controls. Each sponsor would be given the choice between the two options, based upon which is best suited for their product.

With Option 1, the length of the exclusivity period would be based upon the product’s cost of development (incurred by the sponsor), with the period determined as that which is estimated to recover these costs in the commercial market. Drug prices during the exclusivity period would, likewise, be based upon the aforementioned factors, such that prices would be established by taking the development costs and estimating a reasonable balance between the period of exclusivity and the price during that period.

With Option 2, the period of exclusivity would ensure the sponsor has exclusive commercial approval for a period not exceeding 10 years, in exchange for a negotiated price cap. This will ensure that the price will remain reasonable while also mitigating risks to returns-on-investment.

In both cases, the FDA would coordinate and determine the length of exclusivity using an established algorithm.

Analysis

The first option allows a sponsor to recover its costs prior to the introduction of competition. Once recovered, the potential approval of competitor products creates a pathway for lowering therapeutic product prices sooner than what would be accommodated under the current system. Financial return on investment is a critical point of concern for biopharmaceutical sponsors, as “… one of the key elements in the debate has been the enormous cost associated with the development of new drugs. Pharmaceutical companies can only afford to commit millions of dollars in research support for drug development if they have a reasonable expectation of recouping those expenditures” (United States, 1992). With this alternative establishing a secure path for return on investment, investors would be more willing to invest in a start-up or with other sponsors that command lower-than-average capital bases.

Conclusion

The IEP mechanism provides a framework of limited government intervention to yield an increase of competition, decrease of market prices and the promotion of innovation within the biopharmaceutical industry. In facilitating pricing strategy alternatives, IEP allows pharmaceutical companies to evaluate which option would
be most effective in maximizing profit while providing consumers more affordable new-generation drugs and biologics. The potential impact on industry could be significantly positive for both sponsors and consumers.

Authors’ Contributions

Callie M. Blase, Brandon K. Rouault, Maia B. Zoller, Joshua V. Luff and Emma J. Lerch: Wrote the first draft of the paper.

Brynn N. Lauterbach, Mark A. Brown, Joachim Storsberg and Christian Schmidt: Provided critical input and assisted in revising and improving the paper. All authors read and approved of the final manuscript.

Ethics

CMB, BKR, MBZ, JVL, EJL, BNL, MAB, JS and CS report no conflicts of interest with regard to this report. CS is a member of the Editorial Board of The American Journal of Immunology and is waived from the Article Processing Fee for this contribution.

References

