

VIEWPOINT

Ethical Considerations of Offering Benefits to COVID-19 Vaccine Recipients

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Entry into a million-dollar lottery for getting vaccinated against COVID-19 is Ohio's offer to adults. Teens who get vaccinated receive a lottery ticket for state college tuition, room, board, and more. Other states are offering gift cards. Now many employers are offering rewards for COVID-19 vaccination. Businesses ranging from Krispy Kreme and Sam Adams beer to the Cincinnati Reds have announced discounts or prizes for vaccinated individuals. Are these benefit programs ethical? Are they useful? Are they better than mandates?

Incentives for Vaccination Are Ethical

Benefits or incentives for becoming vaccinated are not new. The Centers for Disease Control and Prevention now recommends exempting vaccinated people from mask requirements. Businesses like Target and Safeway have long offered coupons to customers who receive flu vaccines on site.

The ethical case for instituting vaccine benefit programs is justified by 2 widely recognized values: (1) reducing overall harm from COVID-19 and (2) protecting disadvantaged individuals.¹ If benefit programs increase vaccine uptake, they directly protect recipients. By reducing transmission, increased uptake also protects the population, including ineligible children and adults, unvaccinated adults, and individuals with conditions reducing vaccine efficacy (Table). Because transmission has been higher and outcomes worse in less-advantaged communities, stemming transmission especially protects those in disadvantaged communities. In addition, costs, such as time off work for getting a vaccine or dealing with vaccine-related adverse effects, finding daycare for children, and transportation to a vaccine site, hamper access for poorer and marginalized people. Benefit programs, especially in the form of guaranteed cash payments, could improve access and increase uptake by offsetting these costs.

Many benefit programs reimburse or compensate for costs related to vaccine receipt and incentivize vaccine receipt. Encouraging healthy choices through generous reimbursement is viewed as unproblematic in other health care contexts. For instance, the Affordable Care Act provides free preventive services such as other vaccines or cancer screening tests. However, just as some insurance designs go beyond zero out-of-pocket costs to affirmatively reward choices such as getting preventive care, payments that go beyond restoring the prevaccination status quo need not raise special concerns.² Rewards often serve the dual function of incentivizing socially valuable choices and offsetting cost barriers.

Responding to Arguments Against Incentives for Vaccines

Some might argue that benefit programs coerce or exploit. This is mistaken. Offering a benefit cannot coerce because,

Table. Advantages of and Objections to Vaccine Incentives

	Examples and replies
Advantages	
Benefits prevent harm from COVID-19	Vaccination reduces spread, protecting people who are not yet vaccinated and those for whom vaccines have limited efficacy, and reduces severe cases that burden health systems
Benefits protect disadvantaged populations	Disadvantaged populations have faced higher barriers to vaccination and worse outcomes if infected
Objections	
Coercion	Benefits do not threaten to deprive anyone of anything they were entitled to
Exploitation	Benefits are being offered to encourage a less risky choice (vaccination), not a riskier one In any event, benefits like hazard pay are frequently offered to encourage or compensate riskier choices
Distort decision-making	Benefits improve decision-making by offsetting costs such as lost wages, childcare, and transit Lotteries do not distort decision-making any more than other approaches that harness psychological biases It is appropriate for individuals to consider how their choices affect public health and for society to encourage socially valuable choices
Corrupt vaccination's moral significance	Financial benefits do not strip medical practice or nursing of moral significance Theoretical concerns about moral significance are less important than preventing harm and improving equity
Wrong those already vaccinated	Benefits could be extended to already-vaccinated people using lotteries Treating latecomers differently from early adopters is not wrongful
Destroy public willingness to be vaccinated without pay	No empirical evidence for this Any empirical evidence needs to be weighed against value of stemming the pandemic
Make vaccination look riskier	Legitimate concern, could be addressed by appropriately calibrating benefits and targeting them to receptive groups Must be weighed against value of stemming the pandemic
Waste public funds	Legitimate concern, could be addressed by offering benefits no greater than needed to encourage vaccination

unlike a threat, an offered benefit does not threaten to deprive someone of anything they are otherwise entitled to, a fundamental requirement to constitute coercion.³

Some argue offers of benefits exploit persons who are poor. Individuals who are less well-off may have more need for the offered benefits. But the charge of exploitation is only plausible if poor individuals are incentivized to increase their personal risks to enrich others.⁴ This is clearly not the case with COVID-19 vaccination, which protects recipients rather than heightening risk. Recipients get a "double benefit": protection from disease alongside a government bond, gift card, or lottery ticket. Recognizing that incentives may be particularly compelling to poor people does not constitute taking unfair advantage of their poverty. Encouraging

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vaccination by offering benefits helps mitigate inequity, unlike refusing to provide benefits due to concerns about exploitation. Throughout the pandemic, some employers have offered hazard pay to recruit workers in severely affected occupations, such as bus drivers and health workers. Promising benefits for vaccinated people raises fewer concerns.

Others argue that offering benefits distorts or corrupts medical decision-making by introducing inappropriate or irrelevant motivations.⁵ But modest cash benefits are more likely to clear away distractions (eg, concerns about lost wages or transportation costs) and allow individuals to focus on protecting themselves and their families. Even if larger benefits were offered, financial motivations need not undermine the "moral significance" of vaccination, and in any event, such concerns should not override the imperative of stemming the pandemic. In this situation, it is important to not be hypocritical: people are paid generously for other socially valuable or personally meaningful activities like providing medical care. (And the COVID-19 pandemic illustrated that many who provide essential services are not sufficiently compensated for the value of their work.)

Lotteries more credibly raise distortion concerns because they may appeal to psychological biases. Leveraging psychological biases to encourage uptake of a safe, socially beneficial, and effective vaccine, however, seems no more an objection to a lottery than to messaging campaigns that harness biases such as loss aversion, which leads people to perceive a loss as more significant than an equally sized gain.

Others have a more fundamental objection: that medical decisions should be made without reference to an individual's financial interests.⁶ Financial benefits, however, could help to focus vaccine decisions on medical factors by offsetting other costs, such as the need to take time off of work because of vaccine adverse effects. Furthermore, many medical decisions beyond vaccination have prompted efforts to promote socially preferable outcomes through financial incentives. Vaccination seems no different in this respect from smoking cessation or healthier diets, which are choices society also promotes through benefits and penalties.

Is offering benefits only to current recipients unfair to people who were vaccinated earlier?⁷ Entering both early and late recipients into a lottery obviates this worry. But focusing on currently unvaccinated people can also be appropriate. Earlier recipients have already enjoyed the far greater benefit of longer protection from COVID-19. Latecomers are often treated differently from early adopters. For instance, a bakery may discount bread prices before closing time to sell bread rather

than give it away. Patients who appear at a clinic at a slow time may be able to make a walk-in appointment rather than having to navigate waiting lists. These practices respond to varying demand, but are not unfair.

Could people offering benefits undermine public willingness to receive future vaccines without pay? With respect to modest benefits that offset barriers to vaccination, this concern seems doubtful. Even if it has empirical merit, it must be weighed against the large benefits to society of increasing COVID-19 vaccine receipt now.

While offering benefits to COVID-19 vaccine recipients is typically ethical, it may not always be optimal. For health workers or prison guards who interact with vulnerable people and have a duty to protect them, vaccine mandates may be more ethically appropriate than leaving vaccination optional while offering incentives.

Additionally, even though benefit programs likely increase overall willingness to be vaccinated, offers of benefits may decrease willingness among specific individuals or subpopulations.⁸ Benefit designs should target individuals who would be responsive to benefits and avoid decreasing others' willingness. In addition, the effectiveness of some incentives, such as vaccine lotteries, may quickly wane. In Ohio, the announcement of a lottery was associated with an increase from 15 104 people vaccinated the day before the lottery to 32 941 people vaccinated the day after, the highest number for the next 4 weeks. On June 15, only 7061 people were vaccinated.⁹

Despite the large social benefits of vaccination, unnecessarily large benefit payments may waste public funds.⁴ If almost as many people would change their position and agree to be vaccinated for incentives of \$50 as \$200, there is no good reason to start with \$200. Overly large benefits for vaccine recipients may also invite distrust by making vaccination seem especially risky or burdensome.¹⁰ To avoid waste, benefit programs should also be evaluated for efficacy and cost-effectiveness and be rigorously compared with alternative options. Even though incentives appear to prompt surges in vaccination, programs that establish vaccination as a social norm may better sustain high vaccination rates.

It is common to thank those who perform socially valuable actions, such as by offering recognition, awards, payment, or other benefits. People who choose to be vaccinated against COVID-19 help society end the pandemic. While benefit programs that recognize or encourage their choice to be vaccinated may not always be the right approach, and may not be a sustainable approach, they are neither fundamentally ethically objectionable nor ethically unique.

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