



A systematic review of observational practice for adaptation of reaching movements



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Observational practice is discussed as a substitute for physical practice for motor learning and adaptation. We systematically reviewed the literature on observational practice in reaching and aiming tasks. Our objectives were to identify (i) performance differences between observational and physical practice; (ii) factors that contribute to adaptation following observational practice; and (iii) the neural correlates of observational practice. We found 18 studies, all investigated adaptation of reaching in visuomotor rotations or force-field perturbations. Results of the studies showed that observational practice led to adaptation in both, visuomotor rotation and force-field paradigms ($d' = -2.16$ as compared to no practice). However, direct effects were considerably smaller as compared to physical practice ($d' = 4.38$) and aftereffects were absent, suggesting that observational practice informed inverse, but not forward modes. Contrarily, neurophysiological evidence in this review showed that observational and physical practice involved similar brain regions.

Motor learning—as it is defined in this paper—encompasses the acquisition of new unknown skills or tasks as well as the improvement or adaptation of skills acquired in the past. While movement skills are typically learned through repeated task execution (i.e., physical practice), observation of a model or another actor executing the task (i.e., observational practice), can have beneficial effects for the acquisition of new skills and adaptation of previously learned skills. Some evidence exists about the benefits, modalities, and potential underlying brain mechanisms when learning motor skills from observational practice (i.e., observational learning) in upper extremity tasks, such as reaching¹. Reaching, aiming, and grasping are involved in many (instrumental) activities of daily living and frequently targeted following motor impairments such as stroke. Further, reaching plays a prominent role in the interaction with technical devices and human-like robots (or robotic arms) might learn reaching actions in a similar fashion to humans. Observational practice can supplement or enhance the learning of reaching skills through physical practice². In the context of sports sciences research, observational learning of more complex upper extremity skills, such as juggling, or a tennis serve has been intensively investigated in the past³. However, to date, no systematic review of the literature on observational learning of relatively simple reaching, aiming, and grasping tasks that are relevant for activities of daily living has been conducted. In this study, we

therefore systematically reviewed studies on observational practice in reaching, aiming, and grasping tasks. Our aim was to investigate whether observational practice of upper extremity reaching movements leads to similar learning rates and involves similar neural (brain) mechanisms as compared to physical practice and whether there are factors that determine learning success.

It has been well established that we do not only learn and adapt motor skills through physical, but also through mental practice. This includes the imagination of oneself performing the action (i.e., motor imagery) as well as the observation of another person (i.e., action observation) performing the same action. The potential of learning from observing a demonstrator (i.e., observational practice) as a substitute or complementary mode of practice is discussed to be particularly useful in situations where novel complex movements are learned, e.g., for sports or playing musical instruments⁴, when movement execution is restricted, e.g., in rehabilitation⁵ or when unskilled practice may have severe consequences and prior development of expertise is crucial, e.g., when performing surgery⁶. Whether learning from observing others can complement or even replace physical practice depends on different factors, such as the complexity of the task, the current skill level as well as its attentional and motivational state of the learner⁷.

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Table of Contents Altered Reaching Following Adaptation To Optical

1. Understanding the eBook Altered Reaching Following Adaptation To Optical
 - The Rise of Digital Reading Altered Reaching Following Adaptation To Optical
 - Advantages of eBooks Over Traditional Books
2. Identifying Altered Reaching Following Adaptation To Optical
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Altered Reaching Following Adaptation To Optical
 - User-Friendly Interface
4. Exploring eBook Recommendations from Altered Reaching Following Adaptation To Optical
 - Personalized Recommendations
 - Altered Reaching Following Adaptation To Optical User Reviews and Ratings
 - Altered Reaching Following Adaptation To Optical and Bestseller Lists
5. Accessing Altered Reaching Following Adaptation To Optical Free and Paid eBooks
 - Altered Reaching Following Adaptation To Optical Public Domain eBooks
 - Altered Reaching Following Adaptation To Optical eBook Subscription Services
 - Altered Reaching Following Adaptation To Optical Budget-Friendly Options

6. Navigating Altered Reaching Following Adaptation To Optical eBook Formats
 - ePub, PDF, MOBI, and More
 - Altered Reaching Following Adaptation To Optical Compatibility with Devices
 - Altered Reaching Following Adaptation To Optical Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Altered Reaching Following Adaptation To Optical
 - Highlighting and Note-Taking Altered Reaching Following Adaptation To Optical
 - Interactive Elements Altered Reaching Following Adaptation To Optical
8. Staying Engaged with Altered Reaching Following Adaptation To Optical
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Altered Reaching Following Adaptation To Optical
9. Balancing eBooks and Physical Books Altered Reaching Following Adaptation To Optical
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Altered Reaching Following Adaptation To Optical
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Altered Reaching Following Adaptation To Optical
 - Setting Reading Goals Altered Reaching Following Adaptation To Optical
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Altered Reaching Following Adaptation To Optical
 - Fact-Checking eBook Content of Altered Reaching Following Adaptation To Optical
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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