

**Introduction**

Posture corrector fashion and accessories products for beginning office syndrome is a research and development study. The objective is to integrate and simplify the appearance of health accessories, by blending with workwear attire for office women. Begins with studying from documents and consulting with physical and fashion experts. Researching health accessory models for treatment, to understanding the symptoms and areas of office syndrome, studying design trends forecast and fashion directions for 2024. Then surveying gathered opinions and needs for developing health accessory designs to complement fashion clothing, with a sample group of 13 office women. This leads to summarizing from document studies analysis, and expert consulting to create a design framework. Material experimentation and prototyping follow, aiming to simplify the appearance, and wearing of health accessories like lumbar support and shoulder straps, integrating theoretical fashion design knowledge. Combining accessory usage with work attire, such as tightening mechanisms and aesthetic belt buckles, aims for beauty, practicality, and alleviating office syndrome discomfort. The research results in blending health accessories with fashion clothing for office women, satisfying beauty, usability, and product perceptions beyond mere injury aids. It's about fulfilling and responding to consumer needs and work activities, projecting a positive image through beautifully designed and functional clothing.

**Design and Development**

1. Researchers began by studying office syndrome symptoms, causes, and behavior influences. Then explored ergonomic design concepts and materials that suitable for design. For material selection prioritized those aligning with design objectives and addressing office syndrome challenges. This included reviewing material data, symptoms, and consulting an experts. also examined theories such Modularity and fashion trends to design fashion and decorative products improving individuals' image in office syndrome scenarios.



Fig. 1) Try on Posture Corrector and Spine Support Belt



Fig. 2) Experimental Process

3.Design & Development : This is a reinterpretation of back support buckles in a simpler yet more fashionable form. The shoulder straps and upper back section have also been reinterpreted. Researchers derived designs from real equipment, simplifying complexity and material texture. The finishing, previously sporty, now has a more fashionable cut, using the same fabric as the outer jacket to ensure a cohesive appearance while prioritizing comfort. Important components such as boning placement along the spine and mechanisms for shoulder support remain intact to ensure functionality.

2.Analysis and Experiment : After summarizing data analysis, researchers conducted preliminary silhouette and structural experiments to explore interesting perspectives or patterns for design and production verification. Using draping techniques on various sizes and styles of second-hand suits, they cut, tailored, and added back support buckles, elastic bands, and shirt elements to create new clothing patterns. This preliminary experimentation served as an initial inference on the potential appearance of actual wearable products, guiding the design and pattern development process for feasible manufacturing.



Fig. 3) Sketches and Illustrations



Fig. 4) Fitting Process

4.Implement & Improvement : In this fourth phase of product design and development, researchers have summarized and analyzed data from the initial and detailed explorations. Experimentation to explore possibilities and design directions, along with various specifications, led to data synthesis for creating prototypes. Researchers then developed product prototypes based on selected design concepts and sketches. These prototypes were presented to experts for feedback and adjustments during fitting sessions to easily and quickly identify any proportion, size, length, or fit issues. After all the fitting process lead to presentation for photography.

**Conclusion & Recommendations**

The research of combining health equipment with fashion attire for female office workers has been successful. It effectively improves appearance and usability, satisfying expanded criteria in beauty and functionality. The attire, featuring ergonomic back support and shoulder straps, meets wearers' needs without causing discomfort.

1. Designing with research has constraints in aesthetics and beauty. Following design trends and ensuring ergonomic layout and effectiveness may limit structural and visual diversity of products.
2. Material limitations arise from using medical-grade materials for prototypes, potentially requiring less effective substitutes.
3. Consideration should be given to product scalability for mass production and commercial development from prototype to final product dimensions.
4. Potentially expand into service industries beyond office or desk jobs, such as receptionists in hospitals or airlines, is possible, broadening the scope beyond uniform formats.



Fig. 5) Lookbook Fashion Photography

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