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Anti-Mess Baby Bib

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ABSTRACT

In this fast-paced era, parents still face many challenges in caring for children. To foster innovation for a global community, the Anti-Mess Baby Bib product was created based on high demand by parents who still have small children between 4 months and three years old. This innovation aims to facilitate children's learning process by using material improvements such as synthetic fabric, plates, and bowls made of bamboo with various shapes in one product. This design suits flat surfaces such as cement, plastic, walls and even tiles. With the help of a suction system under the surface of the plate in the bowl, no movement will cause action on the product. After using it once, parents rinse the bowl or plate with the 1-meter cloth. With just one lift, everything is easy without taking a long time to clean up. Along with the growing trend of 'baby-led weaning' (BLW), where young children are taught to be independent while eating, parents demand an easier way to practice this method. With this innovation, parents can practice BLW without worrying about food waste. Through BLW, small children gain the confidence to be independent at the dining table while strengthening muscles and improving psychomotor skills.

Keywords: Baby bib; baby-led weaning; children; innovation; psychomotor

INTRODUCTION

Since the advent of Islam, cleanliness has been a priority for all individuals. This is explained in a hadith of the Prophet SAW: "Purification is one of the characteristics of faith." (Hadith of Muslim History). This hadith explains that keeping clean is one of the personality traits of a Muslim. Maintaining cleanliness is not only about the environment and clothes; this care means cleanliness in terms of spirituality, mind, body, and our environment [1]. Apart from that, taking care of cleanliness is very important in our lives because Allah loves people who take care of cleanliness. This can be seen in the words of Rasulullah SAW, "Clean everything as much as you can. Verily, Allah Ta'ala built this Islam based on cleanliness, and no one will enter heaven unless everyone is clean." (HR Ath-Thabrani). Based on this hadith, cleanliness is one of the foundations of change in the Islamic religion [2]. God loves people who prioritize cleanliness themselves. Therefore, the importance of optimal environmental care must be internalized.

Until now, most of the new products created also have anti-dirty and eco-friendly criteria. This product is specially created to facilitate caring for small children, especially when eating. Most parents of today's era are so busy with their daily work that their children's free time is affected. With the help of Baby Bib's Anti-Mess and a few supervised training sessions, there is no need to worry when your child is left alone to eat. Products made from polymer-type synthetic fabric and bowls made from bamboo wood now guarantee the safety and hygiene of users. Allah says in Surah Al-Baqarah verse 222, "...Verily Allah loves those who repent and loves those who

purify themselves." This Surah shows that a Servant of God must care for cleanliness from various aspects, such as nutrition, clothing, and the environment. This is important to prove our devotion as Muslims to Allah SWT [3].

Baby Led weaning is highly recommended by experts around the world, including Dr. Churbock says, "The basic idea behind baby-led weaning is that parents and caregivers can follow the baby's lead," meaning that babies who are trained to feed themselves will become more independent individuals [4]. Baby-led weaning also introduces babies to family mealtimes, which offers social reinforcement and positive development. Babies are recommended to start eating independently as early as six months old, with a specific menu. In addition, the food encouraged by experts includes vegetables and potatoes [4].

INNOVATION DEVELOPMENT

Initially, this product consisted of two already existing products in the market. The first product is a baby bib made of waterproof synthetic fabric. This bib is intended to facilitate cleaning and tidying up after the little one finishes eating. Parents need to rinse the bib with water and dry the bib. The second product is a plate or baby bowl made of bamboo, including a bamboo suction plate [5]. This plate or bowl ensures babies do not easily overturn their plate or bowl and spill food. These plates or bowls reduce food waste and prevent excessive dirtiness. The Anti-Mess Baby Bib was inspired to combine these two products so that it is easy for parents to store them. A mother and baby have gained popularity on the TikTok application because they practice baby-led-weaning (BLW) [6]. Since then, parents worldwide have been looking for products to help them start BLW [7]. Many are skeptical or don't want to do BLW because they are afraid of too much cleaning process that needs to be done. So, our product is intended to help parents to do BLW without having to pack too often.

In addition, the use of cotton fabric in this baby bib product is to provide comfort to the baby's skin. After researching and detailing, synthetic fabrics can adversely affect babies [8]. However, we have created a new design combining cotton and synthetic fabrics. This provides two benefits to the baby: the baby will be comfortable while eating because of wearing the product, and the cloth will be easy to wash after the baby has finished eating. Parents can wash the synthetic fabric part easily because, from the research, only that part will be affected by any food spills or dirt [7].

Design and Development of Anti-Mess Baby Bib

The Anti-Mess Baby Bib is a combination of the two products mentioned above. The synthetic fabric is cut into small pieces and will be placed on the suction plate or bowl. This baby bib is easy to handle because it is made of very easy-to-wash and durable material. This bib is combined with a plate or bowl made of bamboo, which experts worldwide highly recommend. The synthetic fabrics from this product are also safer for baby's skin. Parents do not need to worry about the baby's skin because this fabric suits all skin types. Parents only need to serve food and then soak the baby's bib in water for cleaning. Once dried, the baby bib is ready to be used again. Parents can also save space with this Baby Bib. It can be folded neatly or even hung according to each individual's taste. Baby Bib does not require a lot of storage space and can minimize clutter. All at once, this reduces the stress level of parents.

Methods and Materials

The Anti-Mess Baby Bib is made from waterproof synthetic and high-quality cotton fabric that prioritizes the baby's comfort. A Scrunchie is sewn in the middle of the baby's bib to connect with the suction bamboo plate. This product uses sewing needles, multi-colored threads, and scissors. In addition, the production of this product uses light fabric so as not to burden the baby who wears it and makes it easier for parents to put it back after use. The innovation prototype is shown in Figure 1.

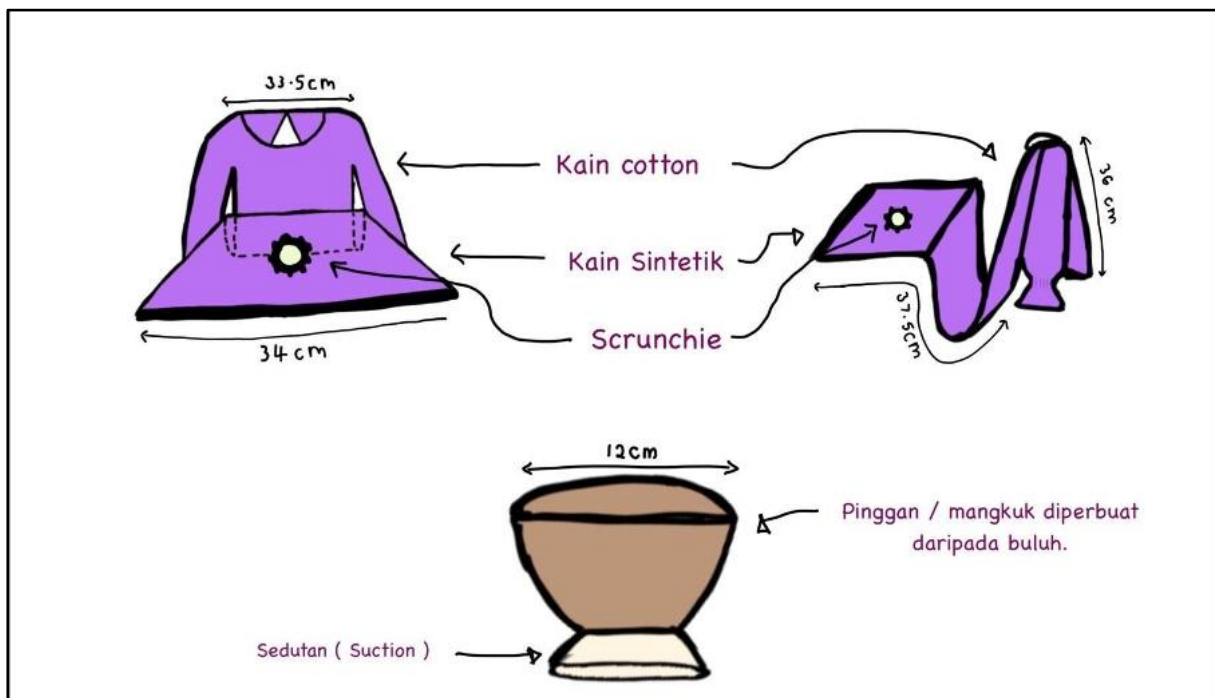


Figure 1: Innovation prototype

The bowl is suitable because it is naturally antibacterial and grown without pesticides or insecticides. Also, bamboo plates or bowls do not absorb odors easily. Just wash your hands with soap and water and let them air dry. This means parents do not have to worry about cleaning. Bamboo is stronger than steel in tensile strength, which means it can withstand more tension or tensile stress before breaking. Parents can serve hot food in a bamboo baby plate or bowl without worry because bamboo is heat resistant. Bamboo plates or bowls are easy to carry because they are light.

COMMERCIAL POTENTIAL

As early as nine months old, parents can start training their child's ability to eat on their own. Anti-Mess Baby Bib products are specially designed for this purpose by helping children to become more independent. Such training allows them to improve hand-eye coordination, which coordinates hand movements with eyes. This process is stimulated through training that involves children being independent using their own hands, such as training to eat by themselves without having to be fed by parents.

This innovative product can reduce messy or wasted baby food during their training. Parents benefit from the aspect of time that will be spent on cleaning and tidying up because Anti-Mess

Baby Bib is our innovative product that is anti-clutter. This is because the surface area of this product is huge and can cover the baby's table while preventing leftover food or dirt from spilling onto other places, such as the table or the floor. This baby bib is also improved by using a suction plate or bowl in the middle to prevent baby food from spilling.

Furthermore, high-quality ingredients benefitting babies and parents were used. For example, the waterproof synthetic fabric can facilitate this innovative product's cleaning and purification process. Bamboo plates or bowls were chosen because bamboo is not dangerous or poisonous to small children. After all, it is a natural material. In addition, we also use elastic rubber similar to the scrunchie hair rubber to ensure that the bamboo plate stays in a fixed position throughout the use of the Anti-Mess Baby Bib.

CONCLUSION

This Anti-Mess Baby Bib aims to facilitate children's learning process by using material improvements such as synthetic fabric, plates, and bowls made of bamboo with various shapes in one product. After all, this Baby Bib innovation plays an essential role in the post-industrial era and the current modernization era to make it easier and reduce the burden on parents regarding home cleanliness. With the presence of this baby bib, parents do not have to worry about their young children's safety, tidiness, and cleanliness while eating the food they prepare. With the use of quality cotton fabric, the baby's bib can provide good comfort when it wears it. This can prevent the baby from feeling itchy or having skin problems due to wearing this Baby bib if this garment is made of synthetic fabric. In addition, the synthetic fabric makes it easier for parents to clean up after use because it is waterproof and difficult for dirt to stick to.

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