



# SITUATION OF PLASTIC WASTE MANAGEMENT AND HEALTH CONDITIONS OF PEOPLE IN HAI DUONG COASTAL COMMUNITY OF THUA THIEN HUE PROVINCE IN 2020



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## BACKGROUND

- The amount of mismanaged plastic waste generated by the coastal population of a single country ranges from 1.1 million tons to 8.8 million tons per year.
- The plastic waste cause the environmental pollution and adversely affect human health.
- The lack of data to assess the situation and unreasonable management, the environmental pollution in the locality has not been thoroughly resolved.
- Aim: describe the current situation of plastic waste management and the health conditions related to plastic waste of people in coastal community in Vietnam

## RESULTS

Table 1. Forms of plastic waste and nylon bags treatment

Form of treatment		N	%
Plastic waste	Collected or brought to the gathering places	254	87.3
	Littered indiscriminately	33	11.3
	Sold as scrap	177	60.8
	Threw into the trash in the garden	17	5.8
	Burnt	58	19.9
Nylon bags	Collected or brought to the gathering places	263	90.4
	Washed and reused	132	45.4
	Burnt	43	14.8

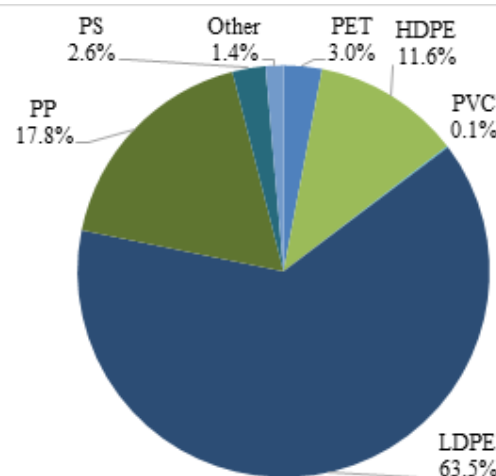


Figure 1. Classification of plastic waste by weight

## CONCLUSION

The management of plastic waste in general and plastic bags in particular is still inadequate and this problem is likely to affect human health.

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## METHODS

A cross-sectional descriptive study using a structured questionnaire was implemented on 291 people over 18 years old in a coastal commune in Vietnam, between 9/2020 - 10/2020 in order to assess the collection, treatment of plastic waste and the residents' health.

To determine the volume and composition of waste, we collected 7 samples in 7 consecutive days at 6 am when garbage trucks brought solid waste to the collection point according to EPA rules.

Table 2. Health conditions related to plastic waste

Health conditions		N	%
Symptom	Rash	14	4.8
	Allergy	10	3.4
	Nausea, vomiting	9	3.1
	Headache	28	9.6
	Eye irritation	8	2.7
	Diarrhea	4	1.4
Pathology	Cancer	8	2.7
	Endocrine, thyroid, neurological and memory problems	7	2.4
	Cardiovascular disease	15	5.2
	Digestive diseases	10	3.4
	Others	5	1.7