Deliberate self-harm (DSH) refers to self-inflicted injuries that may or may not cause death. DSH is common among adolescents, especially females [1]. It may be a risk factor for future suicide [2]. Using data from medical records, this study focuses on children and adolescents who were admitted to Teaching Hospital, Karapitiya following deliberate self-harm. Approval for the study was granted by the Ethical Review Committee of Faculty of Medicine, University of Ruhuna. We examined the BHTs of all adolescents (those under 19 years of age) admitted to the Teaching Hospital, Karapitiya with DSH during 2001, 2003, 2006 and 2007 (these years were selected based on availability and completeness of the records). Information about fatal DSH was obtained from the hospital police post. In a few cases, it could not be determined if the self-harm was deliberate; such cases were excluded.

827 admissions met the study criteria. The patients’ age ranged from 9 to 18 years, with females (73%) outnumbering males (27%). Only 28 (3.4%) fatalities were recorded.

Admissions of adolescents for DSH increased by 91% from 2001 to 2007. Girls accounted for most of this increase; admissions of boys increased only slightly. This gender difference was significant (p=0.003). Admissions for DSH increased consistently with age. Only 38 children under the age of 14 years were hospitalised for DSH, compared to 257 patients who were 18 years old. Case fatality rate dropped from 8% to 2.3% from 2001 to 2007. Almost 99% of the admissions involved either ingestion of a poison or an overdose of medicine. Overdoses accounted for 55% of the admissions. Ingestion of poisons (e.g. washing powder, kerosene oil, agrochemicals, and poisonous plants) accounted for 43% of the admissions. The remaining cases involved burning, hanging and jumping from the roof.

Admissions after overdose of medicine increased dramatically from 2001 to 2007 (Figure 1). In 2006 and 2007, 63% of the cases involved overdoses. There was a sharp gender difference in the substances ingested. About 64% of the boys used poisons and 64% of the girls had overdoses (p<0.001). Admissions for paracetamol overdose increased fivefold from 2001 to 2007. In 2006-2007, 45% of adolescents used paracetamol. BHTs recorded patients’ self-reports of the quantity of tablets they had ingested. In patients whom paracetamol was the only substance ingested, the modal overdose was in the range of 20-25 tablets. The largest overdose reported was 108 tablets. None of the patients with paracetamol poisoning died.

**Figure 1.** Substances used by adolescents for deliberate self-harm.
This study provides evidence of a recent increase in hospital admissions after DSH among children and adolescents, especially girls. This is in contrast to the decline in suicide rates reported nationally [3]. The data also suggest an increase in paracetamol overdose among adolescents, especially girls. This mirrors a broader national trend, as suggested by a recent study from the National Hospital of Sri Lanka [4]. Though there were no deaths, medical management of paracetamol overdose is costly. Furthermore it is difficult to restrict children's access to paracetamol, which is found in many households and can easily be purchased. This study has some limitations. Information on BHTs may not be accurate. Moreover, any hospital-based study of DSH underestimates its true incidence because many episodes of DSH are not admitted to a hospital.

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To the Editors:

Prevalence of Helicobacter pylori infection determined by histology in patients with different upper gastrointestinal diseases

Helicobacter pylori infection is prevalent in developing countries. India, Pakistan and Bangladesh report around 80% prevalence both in patients with upper gastrointestinal diseases and asymptomatic individuals [1-2]. Among Sri Lankans, the reported H. pylori prevalence is inconsistent and shows a wide variation [3-5]. Many Sri Lankan studies have either used small number of patients or used limited number of diagnostic techniques and these may have partly contributed to the variation in the prevalence reported. This study examined the prevalence of H. pylori infection in a group of patients with upper gastrointestinal diseases at a tertiary care centre in southern Sri Lanka.

We selected 251 consecutive patients who underwent routine upper gastrointestinal endoscopy for clinical indications in Teaching Hospital, Karapitiya, Galle from January 2006 to June 2007. Patients who had taken specific H. pylori eradication therapy during the previous six months and patients who consumed antibiotics active against H. pylori during four weeks preceding the endoscopy were excluded. Informed written consent was obtained from all the patients. Approval for the study was granted by the Ethics Committee, Faculty of Medicine, Galle.

Minimum of five gastric biopsies; three antral and two corporal, were collected from each patient into 10% formalin. Haematoxylin and Eosin (H&E) and modified Giemsa staining techniques were used to detect H. pylori infection. Presence of H. pylori was confirmed by an experienced histopathologist when either H&E or modified Giemsa staining showed the characteristic morphological evidence of H. pylori.

The overall prevalence of H. pylori was 49.4% (124/251). Of the oesophageal diseases, oesophageal varices had H. pylori prevalence of 63.2% (12/19). H. pylori prevalence among patients with erosive oesophagitis and hiatus hernia was 53.3% (24/45) and 48.6% (18/37), respectively. Number of patients with oesophageal ulcer and growths were too small to obtain a true prevalence value.

References