INTRODUCTION
Oral and maxillofacial surgeons routinely come across a wide variety of medically compromised patients in daily practice. Patients with haemorrhagic disorders are amongst the most challenging to treat. Intra or postoperative bleeding can contribute to life threatening complications in even the simplest surgical procedures. In spite of the fact that the prevalence of bleeding disorders in patients treated by dental and oral surgery specialists is low, it was reported that 2.3% of 1,500 adult patients in a dental school had bleeding problems making it way more prevalent than cancer, renal disorders, or joint replacement.

Idiopathic thrombocytopenic purpura (ITP) is one such haemorrhagic condition with obscure etiologic causes. Clinical signs primarily include mucocutaneous i.e. Petechia, purpura, ecchymosis. The most important aspects of management in this disease, is to anticipate, and control bleeding hence preventing any life threatening consequences. Transfusion of platelets, steroid therapy, Anti-D immunoglobulin are the mainstay of treatment. Thrombopoietin receptor agonists and splenectomy may be necessary in some severe cases. We report a case of a young girl with ITP, identified at our unit. She was admitted to the hospital for observation and was successfully treated with steroids therapy.

CASE REPORT
A four year old girl presented to the department of Oral and Maxillofacial Surgery with a complaint of bleeding from mouth and swelling over the face following a self-fall at her residence [Figure 1(a)]. Extra-orally, patient had developed a hematoma over the chin region depicted by dark bluish discoloration of skin and swelling of size 2 x 3 cm at its greatest dimension [Figure 1(b)]. On intraoral examination she had ecchymosis over the right buccal mucosa, right lower buccal and labial vestibule and floor of mouth. There was a continuous ooze of blood noted at right lower vestibule. (Figure 1c). The patient’s dentition was otherwise in a satisfactory condition. On further examination, petechiae and discoloration of the skin were seen throughout the body, especially over the lower limbs (Figure 2), but the patient was not aware of these discolorations.

Hepatomegaly, splenomegaly and lymphadenopathy were absent. The patient’s medical history was otherwise unremarkable.
medical history revealed that the patient did not have any systemic disease and had never presented with any bleeding/ hemorrhage related problem prior to this. However, patient did give history of fever a month back. She had no allergies and was not taking any medications. Patient’s blood was sent to test for various haematological parameters. Meanwhile, mandibular occlusal and Orthopantamogram radiographs were taken. This did not reveal any bony fracture thus giving a clear picture of soft tissue hematoma secondary to self-fall. Reports revealed a low platelet number of 11,000. RBC was 3.46 million/cumm, Hb as 9.3 gm/dl. Her Prothrombin time was 16 seconds, activated partial thromboplastin time was 33.6 seconds and other hematologic test results were within normal limit. The patient was admitted in our ward for further management.

Paediatric and haematology consultations were taken to rule out any other blood dyscrasias or pathology. Patient was primarily treated with I.V Methylprednisolone 30 mg/kg OD and 500 mg in 500 ml Normal saline HS for 3 days, supplemented with I.M Vitamin K 10mg OD. Supportive treatment like analgesic and anti-gastritis was given in form of I.V Rantac 2 mg OD and Tablet Combiflam for 3 days. Patient was advised not to brush her teeth as a precautionary measures to avoid any further trauma to the site of hematoma. Oral hygiene was maintained by thorough irrigation with 0.2 % chlorohexidine and normal saline.

The next day; following the administration of cortisone, the platelet count did not differ compared to baseline: Platelet count increased from 11,000 to 12,000. After 5 days new haematological examinations were done revealing increase in platelet count from 11,000 to 1.28 lakhs. From here on the patient speedily recovered without further problems. Both extra-oral and introral hematoma showed the sign of gradual resolution with reduction in size and fading of color of hematoma. The petechias diminished and ultimately disappeared, and the recovery of spontaneous hemorrhage was observed. The patient was motivated to practice regular tooth brushing with a soft-bristle toothbrush and 0.2% chlorhexidine digluconate oral rinse was prescribed.

At 2 months follow up, the patient was found to be symptom free (Figure 3,4).

**DISCUSSION**

Idiopathic Thrombocytopenic Purpura (ITP) is a rare haematologic disorder widely diagnosed by exclusion of other diseases based on history, physical findings, complete blood count with peripheral smears and coagulation studies. Muco-cutaneous bleeds presenting as petechiae, ecchymosis, haematoma etc along with epistaxis, melena are common findings. Ruling out errors in lab findings, infections, coagulation altering drug/medication history may direct towards a diagnosis of ITP. The clinical presentation of ITP can be asymptomatic, but careful physical examination can reveal tell-tale signs of a haematologic disorder. Signs can range from small petechiae, mild skin and mucus bleeding, ecchymosis to intense and serious blood loss to the point of threatening life. ITP can occur at any age, but it is more common in children and adolescents. Incidence of ITP ranges from 1 to 13 per 100,000 persons. ITP can present in two clinical forms, an acute self-limiting form exclusively seen in children and a chronic form more common in adult population. Acute ITP has a peak incidence in 3-5 year old children without gender prediliction.

Our patient too was a 4 year old girl, presenting with the acute form with severe thrombocytopenia. Some authors state that in children, this form of platelet disturbance commonly appears after a viral infection and disappears without any type of treatment after some weeks or months. In our patient too, a history of fever in the preceding month, can be suggestive of a viral infection.

In her blood reports, severe thrombocytopenia was reported in the first CBC (11,000/mm). Hence, it was decided that the patient should be referred to a hematologist for appropriate consultation. Since the patient required no active surgical intervention, and there were no progressive symptoms, it was decided not to transfuse platelets inspite of the low platelet levels. Patient was kept on close observation and was administered corticosteroids (IV methyl
prednisolone), Vitamin K, and analgesics.

At present, Corticosteroids (ie, oral prednisone, intravenous [IV] methylprednisolone, or high-dose dexamethasone) are the main drugs of choice for the initial management of acute ITP. Corticosteroid administration may result in reduced rate of platelet destruction with rapid alteration of endothelial cell integrity to facilitate primary hemostasis and reduce episodes of bleeding and bruising.\textsuperscript{9,10}

Repeat blood tests in intervals (Table 1) showed progressive improvement in platelet levels with dramatic improvement at 5th day. For cases which do not respond to this management, various options for the treatment of ITP may be suggested by the haematologist especially in case where surgical procedures are planned.\textsuperscript{11}

CONCLUSION
Although a rare clinical condition, an oral physician may encounter a patient of Idiopathic Thrombocytopenic Purpura in the dental clinic/hospital. It is generally a benign condition, but can turn life threatening if proper history is not elicited. The importance of proper history, examination and pertinent investigations for an early diagnosis cannot be over emphasized, if complications of grave nature are to be avoided. Necessary precautionary measures need to be meticulously taken care of.

REFERENCES
**Idiopathic Thrombocytopenic Purpura**

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**LEGENDS**

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**Table 1.** Blood parameters of the patient

**Figure 1(a).** Patient reporting to the OPD Clinic

**Figure 1(b).** Hematoma over the chin region with swelling of size 2 X 3 cm

**Figure 1(c).** Continuous ooze of blood noted at right lower vestibule
Figure 2. Petechiae and discoloration of the skin especially the lower limbs

Figure 3. Follow up of the patient after 2 months

Figure 4. Follow up of the patient after 2 months