therapy was 6 years (range 2–9 years). Three patients had residual deformity of the knee joint and 4 patients had deformity at the wrist joint. The changes on wrist X-ray included lucency and thinning of the ulnar metaphysis, small ulnar epiphysis, deformation and impaired growth of the physis and cartilage leading to reduction distance between the epiphysis and metaphysis (Figure 1 and 2). The knee radiograph showed subchondral flattening of femoral and tibial condyles with irregular articular margins.

**Conclusions** Bony dysplasia, deformation and impaired growth of ulnar and radial epiphyses, metaphyses and physes may be an expression of deferiprone related arthropathy in children with thalassemia major.

**759** ARTERIAL THROMBOSIS IN CHILDREN

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**Introduction** Thrombophilia was initially attributed to inherited hypercoagulability state, in the same way as hemophilia, however by this time this extended to include acquired cases as well. True idiopathic thrombosis is extremely rare in children. Multiple risk factors are often present in pediatric patients; indwelling catheter, inflammatory conditions, malignancy, immobilization, thrombophilia and congenital heart disease. The role of thrombophilia in determining the risk of arterial thrombotic events is less well defined.

**Objectives** This study aimed to collect the number of children hospitalized in PICU, suffering from arterial thrombosis and to reveal the possible etiological factors.

**Methods** The study was conducted from 1st of January 2007 till 1st of January 2012, comprising 436 children aged from 2 months to 17 years old. The patient’s records were retrospectively evaluated.

**Results**

<table>
<thead>
<tr>
<th>Abstract 759 Table 1 Patients</th>
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<tbody>
<tr>
<td>patients</td>
</tr>
<tr>
<td>4 years old male</td>
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<tr>
<td>17 months male</td>
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<tr>
<td>3½ years female</td>
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**Conclusion** Arterial thromboses encountered in our PICU do not constitute a frequent diagnosis, however when exist can lead to great disability (stroke, limb loss ... ) or even death. It also seems that a combination rather than a single factor play role in the formation of arterial thrombus in children.

**760** INFECTION IN CHILDREN WITH HEMOPHILIA (EXPERIENCE IN THE PAEDIATRIC HOSPITAL BATNA)

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**Introduction** Hemophilia; Constitutional most common coagulopathy with hemophilia A is 5 times more common than hemophilia B.

Serious not only about the risk of joint and muscle scars but also viral contamination in transfusions and the risk of post-traumatic infections.

**Objectives** To determine the frequency and severity of infections in children with hemophilia. Demonstrate the value of prophylaxis in the prevention of bleeding.

**Materials and Methods** Retrospective study on cases of children with hemophilia hospitalized for a period of 4.5 years (01–01–2007 to 31–07–2011). 26 patients with hemophilia complicated.

**Results** The incidence varies between 0.90% and 2.4%.

The child with hemophilia may be hospitalized for all age groups with a maximum 10-year entre 5. Only 38.46% of our patients have a family history of hemophilia.

61.54% have a severe form (factor VIII or IX < 1%)

38.88% were hospitalized for a hemorrhaxis of the knee, the rest is represented by the other known locations bleeding in children with hemophilia.

14 of our patients developed infections (53.8%), including 8 of knee arthritis, arthritis of the ankle, two subcutaneous abscesses, a dental abscess and 2 cases of hepatitis B.

**Conclusion** Our study confirmed the significant incidence of infection in children with hemophilia dominated by post-traumatic infections with two cases of hepatitis B which is to intensify the education of our children and the benefit of prophylactic to reduce the incidence of bleeding including the risk of infection.

**761** THROMBOELASTOGRAPH AND THROMBIN GENERATION ASSAY FOR THE EVALUATION OF HEMOSTASIS IN NEWBORNS: EFFECTS OF PREMATURITY AND VITAMIN K

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**Background and Aims** Thromboelastogram (TEG) gives information about the coagulation cascade showing the combined effects of coagulation factors and thrombocyte functions. Thrombin Generation Assay (TGA) measures the time dependent changes of thrombin concentration. Standard values for newborns do not exist for TGA and TEG. We aimed to evaluate the effects of prematurity and vitamin K on hemostasis by TEG and TGA in addition to conventional methods.

**Methods** Preterm (n=16) and term (n=36) infants who received routine vitamin K prophylaxis were evaluated with pt, inr, ptt, fibrinogen, TEG and TGA measurements performed from cord blood and venous blood obtained on day 3.

**Results** Cord blood pt, inr, ptt and fibrinogen values were similar in both groups. TEG-R value was increased in preterm group showing delayed onset of coagulation compared to term group (p=0.003). Other TEG and TGA measurements were similar in cord blood.

After vitamin K prophylaxis; pt and inr decreased, fibrinogen increased in preterm infants (p values: 0.032, 0.01 and 0.009, respectively). In term infants; ptt decreased, fibrinogen, TEG-R, TEG-MA and TGA-lag time increased after vitamin K (p values: 0.034, 0.001, < 0.001, 0.018, < 0.001 and 0.004, respectively).

**Conclusion** In cord blood analyses; preterm infants didn’t have a significant difference apart from a delay in coagulation. The clot strength was increased in term infants after vitamin K. The lack of such improvement in preterm infants may be attributable to immature hepatic functions of the pretermers. Preliminary data for standard values of TEG and TGA were obtained.

**762** THE USE OF PENTAGLOBULIN IN NEONATAL IMMUNE HEMOLYTIC ANAEMIA

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