locations and sprains represented 37%, 27% were mainly contusions/abrasions, 23% had open wounds, and <1% major abdominal injury. The visit reason codes for the remaining cases included pain, other symptoms and conditions. Mean duration of ED visit was 2.3 hours (median: 1.8). Mean cost per ED visit was $460 (median: $325) for those treated and released and $560 for those admitted (median: $427). On average, those admitted spent 3 days (median: 2) in the hospital at a cost of $8375 (median: $6340). CONCLUSIONS: Most bicycle related injuries occurred in children or young adults, in the early evening, involved only the cyclist and could be managed in the ED.

PRESCRIBING PATTERNS OF CIPROFLOXACIN AND LEVOFLOXACIN IN AN ITALIAN GERIATRIC HOSPITAL

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OBJECTIVES: Drug costs represent a considerable cost item in the overall hospital budget. Within drug costs, oral and injectable antibiotics are indeed one of the most relevant sources of expenditure. This analysis is focused on the comparison between the actual per patient consumption of antibiotics and the Defined Daily Dose (DDD) which is frequently used as an indicator for inclusion of a drug in the Hospital Formulary and subsequent purchase.

METHODS: This research was based on the analysis of the Antibiotics Request Forms (ARF’s), which were forwarded by the Hospital Wards to the Pharmacy in the Geriatric Hospital “U. Sestilli”, Ancona. The analysis was focused on the daily per patient consumption (Prescribed Daily Doses, PDD) of antibiotic treatments as compared to the DDD, and on its cost (considering officially published prices and hospital discounts).

RESULTS: In the period February–May, 2003, 2350 ARF’s were filed, referring to prescriptions of antibiotics. Of these, 1942 were eligible for analysis and concerned 976 patients. Total expenditure for antibiotics in such period was €63,727; 25% of this was due to the fluorochinolones currently included in the Hospital Formulary (ATC J01MA); ciprofloxacin and levofloxacine. By comparing PDD with DDD, and assuming equal to one the exact correspondence between PDD and DDD of each drug, in 75% of prescriptions PDD’s did not correspond to DDD’s. In particular, the PDD/DDD rate resulted 0.68 for injectable ciprofloxacin, and 1.1 for injectable levofloxacon: similarly, considering oral formulations, the two rates were respectively 0.79 and 1.28.

CONCLUSIONS: According to the prescription practice of this Hospital and to the type of patients seen, the inclusion in Hospital Formulary and purchase of antibiotics based on the DDD’s might be misleading and could result into an incoherent management of Pharmacy stock and financial assets.

THE HOSPITAL DIAGNOSTIC THERAPEUTIC PATHWAY OF PATIENTS AFFECTED BY CRITICAL ISCHEMIA OF THE LOWER LIMBS WHICH IS UNRESPONSIVE TO REVASCULARIZATION

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OBJECTIVES: Critical leg ischemia affects between 1.5 and 5% of the population over 50 years old. Before opting for limb amputation, two alternative therapies can be carried out: drug therapy with prostanoid or Spinal Cord Stimulation (SCS). This project, developed in the department of vascular surgery of the Ospedale Maggiore in Bologna, was aimed at evaluating the annual impact of these two treatments on department budget. The annual impact of a therapy on department budget is defined as the difference between the cost of production and the DRG.

METHODS: The therapies cost of production was assessed through an Activity Based Management (ABM) and Activity Based Costing (ABC) approach. Activities were identified by informal interviews with all hospital staff involved in the treatment process. Costs were assessed by analyzing accounting data supplied by the hospital administrative services.

RESULTS: The SCS pathway consists of two 3-days hospitalizations. Total cost of SCS treatment was 10,390€ for responder patients (RP) and 3181.11€ for non-responders (NRP). Reimbursement for RP consists of 2 DRG 46.4.30€ and DRG 4 + DRG 461 (2797.13€) for NRP. The prostanoid pathway consists of one hospitalization lasting between 7 and 28 days. This hospitalization can be repeated if the clinical condition of the patient does not improve after the first cycle of treatment. The cost of this treatment varies from a minimum of 4445.73€ for a cycle of 7 days to a maximum of 9118.73€ for 28 days cycle. Hospitalization for prostanoid therapy is reimbursed by DRG 130 (3524.82€) or by DRG 131 (2443.36€). CONCLUSIONS: SCS costs are fully covered by DRG while drug therapy costs are only partially covered. Besides, the treatments differ as regards to the ability to forecast patient total costs before starting treatment, which is low for prostanoid therapy and high for SCS therapy.