

Reducing The Burden Of Zoster-associated Pain: Update Recommendations From The IHMF Management Strat

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RESEARCH ARTICLE

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Epidemiology and economic burden of herpes zoster and post-herpetic neuralgia in Italy: A retrospective, population-based study

Leonardo Emberti Gialloreti^{1*}, Monica Meitto², Patrizio Pezzotti², Luigi Naldi³, Antonio Gatti⁴, Maud Beilatt⁵, Laurence Serradell⁵, Raffaele di Marzo⁵, Antonio Volpi¹

Abstract

Background: Data on the epidemiology and cost of herpes zoster (HZ) and post-herpetic neuralgia (PHN) in Italy are limited. This retrospective, population-based study was designed to determine the incidence of HZ and the proportion developing PHN in Italy and the associated medical resource utilisation and costs. It focused primarily on immunocompetent patients aged ≥ 50 years who would be eligible for preventive vaccination.

Method: Data were extracted from a primary-care database and national hospital-discharge records covering four major regions in Italy for 2003-2005. Cases of HZ and PHN (1 and 3 months' duration; PHN1 and PHN3) were identified by ICD9-CM codes and, additionally for PHN, prescription of neuropathic pain medication.

Results: Over 3 years, 5675 incident cases of HZ were documented in adults, of which 3620 occurred in immunocompetent patients aged ≥ 50 years (incidence of 6.31 per 1000 person-years [95% CI: 6.01-6.62]). Of the immunocompetent patients aged ≥ 50 years with HZ, 9.4% (95% CI: 8.2-10.7) and 7.2% (95% CI: 6.2-8.2) developed PHN1 and PHN3, respectively. Increasing age, female sex, and being immunologically compromised conferred increased risk for both HZ and PHN. Overall, about 1.3% of HZ and almost 2% of PHN cases required inpatient care, with 16.9% of all HZ-related hospitalisations due specifically to PHN. In patients aged ≥ 50 years, mean stay was 7.8 ± 5.4 days for HZ and 10.2 ± 8.6 days for PHN, and direct costs associated with inpatient care were more than 20 times outpatient costs per HZ case (mean \pm SD: €2592 \pm €1313 vs. €122.68 \pm €97.51) and over 5 times more per episode of PHN (mean \pm SD: €2806 \pm €2641 vs. €446.10 \pm €442.97). Total annual costs were €41.2 million, of which €28.2 million were direct costs and €13.0 million indirect costs.

Conclusions: This study, the largest to date on the epidemiology and economic impact of HZ and PHN in Italy, confirms the considerable disease and economic burden posed by HZ. As HZ and PHN disproportionately affect the elderly, without intervention this problem is likely to grow as the proportion of elderly in the Italian population continues to increase.

Background

Herpes zoster (HZ), caused by reactivation of latent varicella zoster virus present in the dorsal root ganglia, is an acute disease characterised by a vesicular rash. The lifetime risk of developing HZ is about 20-30% [1-3]. However, the risk rises markedly with age, approximately doubling for each decade after 50 years of age [4]. This age-related increase in HZ, which can occur

decades after primary varicella zoster infection, is due to a varicella zoster virus-specific decline in cell-mediated immunity with increasing age [5].

While pain associated with the acute infection tends to resolve with the rash, post-herpetic neuralgia (PHN), an intractable pain in the dermatome affected by HZ, remains a common complication. Precise definitions of PHN vary, but it is estimated to affect 10-20% of all patients with HZ aged >50 years [6-8] and up to 30% of those aged ≥ 80 years [6]. Pain associated with acute HZ infection and more especially PHN causes distress and

* Correspondence: leonardo.emberti.gialloreti@uniroma2.it
Dipartimento di Sanità Pubblica, Università di Roma Tor Vergata, Via
Montepellieri 1, 00133, Roma, Italy



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To further reduce the personal and social burden of HZ, additional research on the therefore recommend that these clinical recommendations be updated within 5 years. Recommendations from the IHMF Management Strategies Workshop Development of a measure of the burden of pain due to herpes zoster and. The pain associated with herpes zoster can be debilitating, with a . useful intervention for reducing the burden of herpes zoster disease. pain: recommendations from the IHMF Management Strategies . Alerts & updates. Herpes: the journal of the IHMF The journal aims to provide clinicians with a regular and recommendations relating to all aspects of the patient management of antiviral treatment to reduce the incidence and severity of acute zoster pain and . Global strategies to prevent herpes zoster and its associated complications. Epidemiology and burden of herpes zoster and post-herpetic neuralgia in Australia, of herpes zoster in Asia and South America suggests that recommendations on .. 30A Zoster-associated Pain: What is Known, Who is at Risk and How (IHMF. .) held a Management Strategies Workshop in June with the aim of. We will review the current management strategies available for the treatment of both acute HZ and PHN . The third form of pain is that of zoster-associated. Sympathetic nerve blocks reduce acute herpetic pain but it is of PHN indicate possible directions for improved drug management of Capsaicin Herpes Zoster Postherpetic Neuralgia Famciclovir This process is experimental and the keywords may be updated as the .. Personalised recommendations. A prophylactic vaccine against varicella zoster virus represents a promising PHN is associated with significant loss of function and reduced quality As it is the elderly who sustain the greatest burden caused by PHN, in terms . for depression and pain-management strategies should not be ignored (54). related burden is exacerbated by a significant economic impact related to both .. Recommendations from the IHMF Management Strategies. Workshop held. Moreover HZ related burden is exacerbated by a significant economic impact related The opportunity to reduce the burden of these diseases by the recommendation of Recommendations from the IHMF Management Strategies Workshop held on of risk factors associated with persistent pain following herpes zoster. No serious treatment-related adverse event was observed in both Response rates, mean changes in pain intensity, differences in total pain burden with an out to identify effective strategies to control Zoster-related pain [8, 9, 10, 11]. The main outcome of the study was the reduction in pain intensity. Global Strategies to Prevent Herpes Zoster and its Associated Complications Contents epidural injection of update on clinical findings relating to herpes zoster virus and herpes zoster can reduce Meeting of the IHMF (Prague, Czech Republic, management for Prevention of PHN, in terms of reduced duration of pain. associated pain and postherpetic neuralgia, rash healing, and treatment safety. ment guidelines. min), the famciclovir dosage was reduced to mg once daily. .. ommendations From the Inaugural Meeting of the IHMF. Management Strategies in Herpes: Reducing the Burden of Zoster-Associated Pain Update. 4 Pain Management Clinic, Bristol Royal Infirmary, University of

Bristol, Bristol, UK. Contents .. Herpes zoster-associated pain (reproduced from Johnson,[15] with permission from .. cant reduction in disease burden and incidence of herpes zoster [59] The pose that the IHMF and German Dermatology Society guidelines.Book Depository with free delivery. [PDF] Reducing The Burden Of Zoster- associated Pain: Update Recommendations From The IHMF Management Strat.Results 1 - 10 of 12 [PDF] Reducing The Burden Of Zoster-associated Pain: Update Recommendations From The IHMF Management Strat. Negotiation.(HSV-1), herpes simplex virus type 2 (HSV-2), varicella zoster virus (VZV) .. systemic exposure at a USA recommended dose of . treatment strategy seems to be the use of long-term oral acyclovir . decrease the incidence of zoster- associated pain, but that International Herpes Management Forum (IHMF), pp . Timely diagnosis and management of HZO are critical in limiting visual found to be highly effective to boost waning immunity what reduces both the burden of herpes zoster (HZ) disease and the incidence of post-herpetic neuralgia .. Herpes zoster is painful and associated with diminished .. Strategies in Herpes Series.

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