prostatitis

Whither “chronic prostatitis”? 
G A Luzzi

For many men, time, rather than current treatments, may have the greatest influence on symptoms

It is nearly a decade since the National Institutes of Health (NIH) sponsored international consensus conference on chronic prostatitis led to the development of a productive multicentre collaboration in North America (Chronic Prostatitis Collaborative Research Network) and stimulated research initiatives around the world.1 A modified classification for prostatitis was proposed, with a new name and clinical definition for the largest category, chronic pelvic pain syndrome (CPPS), to replace chronic non-bacterial prostatitis and prostatodynia.2 Subsequently, development of a validated Chronic Prostatitis Symptom Index (NIH-CPSI) provided an outcome measure for treatment trials that is now almost universally adopted and allows comparison between studies.3 Although not intended to be a diagnostic instrument, and therefore requiring caution in its use as a means of detecting the condition, numerous studies using the same instrument have suggested a high population prevalence of CPPS.4

Significant advances have been made in our understanding of the prevalence and impact of this condition, its natural history, and to some extent, the pathogenesis, although the aetiology remains a mystery and advances in therapy have been disappointing. Nearly 10 years on, the time has come for greater clarity in our diagnostic labelling and a frank acceptance of the limitations of historical diagnostic approaches. The time has come to drop the term “chronic prostatitis” and to avoid misleading and imprecise use of “prostatitis” (box).

The NIH classification signalled a conceptual shift in approach, and its four categories (acute bacterial prostatitis, chronic bacterial prostatitis, CPPS, and asymptomatic inflammatory prostatitis) are distinct entities. It now becomes arguable whether these conditions should feature in the same classification. Use of the unvalidated four glass test in diagnosis and classification led to confusion; recent work confirmed that results do not correlate with symptoms, and white cells in expressed prostatic secretions are a regular feature in symptomless controls.5–6 This adds to the evidence for lack of clinical value in subclassifying CPPS into inflammatory and non-inflammatory categories.

In the light of developments, the current classification should, logically, be dismantled, and a greater focus placed on each of its components. In particular, CPPS (NIH category III) may encompass a heterogeneous group of causes of chronic genital or pelvic pain. Better understanding of the aetiology or aetologies will be essential for development of reliable diagnostic techniques and effective treatment.

In theory, CPPS may be caused by bladder, pelvic floor, prostate, or seminal vesicle pathology. Urodynamistic studies suggested a neuromuscular basis for CPPS (pelvic floor or bladder neck dysfunction) that provided the rationale for treatment with α blockers.7 Current interest is focused on explaining observed elevations in proinflammatory cytokines in the genital tract in men with CPPS,8 especially infective triggers, autoimmunity, or neurogenic inflammation.9–11 Recently, increased perineal pain sensitisation was reported in men with CPPS.12

CPPS also has the features of a somatoform disorder.13 Despite the high prevalence of this condition, which is regularly seen by GPs, urologists, and genitourinary physicians, a recent review did not include CPPS in a long list of functional somatic syndromes by specialty (although chronic pelvic pain in women was included).14

Treatment of the condition remains frustrating. We have a clearer picture of what doesn’t work or should no longer be used, such as very prolonged courses of antibiotics. Otherwise, none of the treatments used is supported by good evidence. This position hasn’t improved much since publication of a systematic review in 2000,15 except that recent small controlled trials have strengthened the case for α blockers (such as tamsulosin) in severe CPPS.16–17 The range of other possible therapies under recent evaluation remains unfocused, and includes anti-inflammatory approaches (cyclooxygenase-2 selective inhibitors; corticosteroids), “phytotherapy” (quercetin), hormonal methods (finasteride; mepatricin), physical therapies (electrostimulation; transurethral needle ablation), complementary therapies (acupuncture), and biofeedback.18–26

Controlled studies examining possible psychological factors reported elevated scores for depression, anxiety, and somatization in men with CPPS.27–28 In one study, more intense patterns of psychological distress were demonstrated in approximately 40% of men, many of whom were depressed.28 This highlighted the need to consider undiagnosed depression and anxiety states in men presenting with severe refractory CPPS, and the importance of evaluating mental health interventions.

In this issue of STI (p 147), Lee and colleagues report interesting preliminary findings from their trial of the anti-depressant sertraline, a selective serotonin reuptake inhibitor (SSRI), in men with CPPS. Improvement in symptoms was demonstrated for sertraline 50 mg daily taken for 13 weeks. However, it would be premature to recommend use of sertraline in men with CPPS on the basis of the study, because of failure to reach significance in the placebo controlled substudy (possibly owing to small numbers and lack of power) and use of a symptom index that predates the NIH-CPSI. Concerns about possible suicide risk associated with SSRIs might also be a barrier in their use, although the risk seems linked to depression rather than a separate drug effect.29 SSRIs might influence symptoms in CPPS by treating underlying depression.
the reported cases have been caused by the L2 serovar, although there is some evidence that a number of genetically distinct strains of C. trachomatis L2 are responsible for these outbreaks. In October 2004 the Health Protection Agency (HPA) sent out an alert to genitourinary medicine (GUM) clinicians in England and established a case definition, reference service, and reporting system for LGV. In addition to the information produced by the HPA, the Terence Higgins Trust produced briefings for use in clinics and a leaflet for use in gay venues to increase awareness. The case definition used by the HPA is confirmation of C. trachomatis and presence of an LGV serovar, L1, L2, or L3, by genotyping. The HPA reference service will test rectal specimens from patients with anorectal symptoms (typically proctitis, rectal discharge) or urethral specimens from patients with inguinal lymphadenopathy that are known to be positive for C. trachomatis. Serology for C. trachomatis has been used in Europe and can suggest the possibility of LGV, but does not confirm cases because of a lack of specificity, and has not been used in England as part of the case definition (www.hpa.org.uk/infections/topics_az/hiv_and_sti/LGV/lgv.htm).

In January 2005 the first 24 cases of LGV were reported in the United Kingdom, most from London clinics. Enhanced surveillance data were available for 19 cases and confirmed a picture similar to that reported in the rest of Europe. All were MSM, 17 were HIV positive, four also had hepatitis C infection, and most had symptoms suggesting LGV. Fifteen patients reported a probable country of infection; five in mainland Europe and 10 in the United Kingdom. Up to the middle of February 2005 a total of 34 cases of LGV have been reported in the United Kingdom.

LGV presenting as proctitis in homosexual men is well recognised. The primary (papule/ulcer) of LGV frequently goes unnoticed and patients often present with acute haemorrhagic proctitis and may have pronounced systemic symptoms such as fever and weight loss. Proctoscopy often reveals marked proctitis, which is usually confined to the distal 10 cm of the anorectal canal. Left untreated, chronic inflammation may lead to stricture and fistula formation as well as local lymphatic obstruction and lymphoedema. Patients with acute proctitis related to LGV usually respond well to antibiotic therapy. At present the recommended treatment for LGV in the United Kingdom is either oral doxycycline 100 mg twice daily, or oral erythromycin 500 mg four times a day, both regimens given for 3 weeks. Patients with chronic infection including abscesses, fistulas, and strictures often require surgical intervention.

It is likely that LGV has been present for some time in MSM in the United Kingdom, with many cases going undiagnosed. The first UK case identified so far is from a retrospective sample dating from January 2004. The epidemiology and clinical features of LGV in MSM are not fully understood; it is likely that some undiagnosed cases will have progressed to invasive disease, while others may yet prove to be asymptomatic. Clearly, further collaborative research is required.

The first steps in understanding and controlling this outbreak are to increase community and clinician awareness of LGV, to further develop our surveillance system and to monitor clinical manifestations. A national incident team has been established to oversee responses with the aim of developing effective control measures for this outbreak. The key challenge will be to identify and implement appropriate health promotion and prevention measures, particularly addressing the sexual health needs of HIV positive homosexual men, and ensure that potentially severe sequelae of untreated LGV are minimised.


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A national LGV incident group has been established by the HPA in collaboration with the British Society for Sexual Health and HIV (BASHH), the Terence Higgins Trust (THT), and the Society for Sexual Health Advisers (SHAA) and is chaired by Helen Ward (helen.ward@hpa.org.uk); Leaflet produced by Terence Higgins Trust. (Single copies can be obtained through THT Direct 0845 12 21 200; multiple copies by emailing james.glavin@tht.org.uk).

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