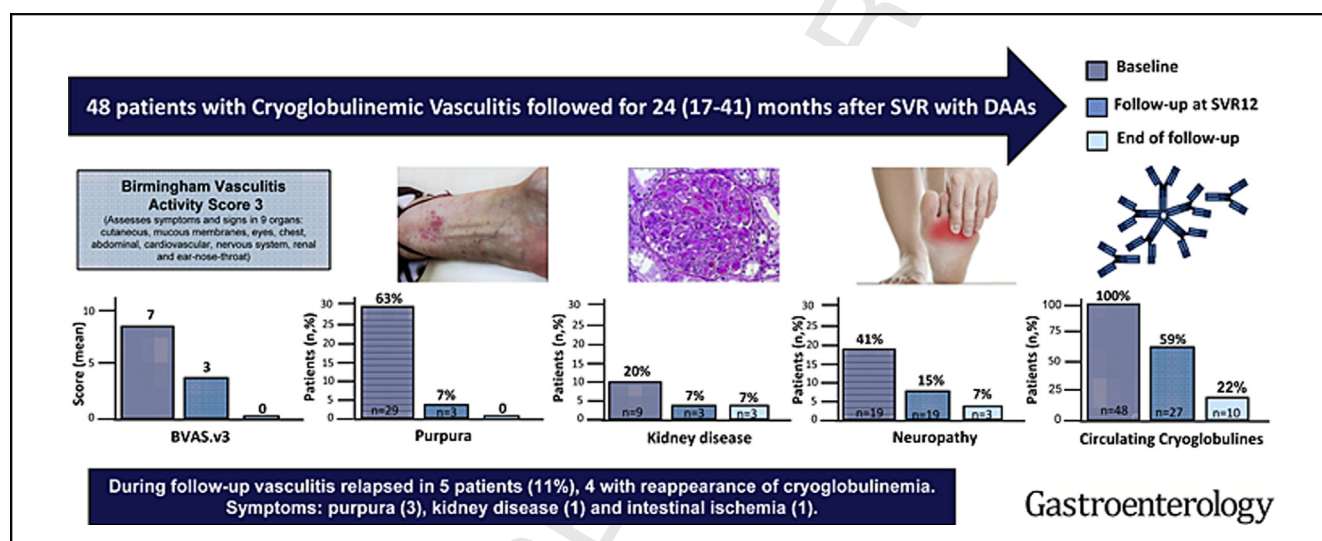


# Long-Term Outcomes of Patients With HCV-Associated Cryoglobulinemic Vasculitis After Virologic Cure

Martín Bonacci,<sup>1</sup> Sabela Lens,<sup>1</sup> Zoe Mariño,<sup>1</sup> María-Carlota Londoño,<sup>1</sup> Sergio Rodríguez-Tajes,<sup>■</sup> José M. Sánchez-Tapias,<sup>1</sup> Manel Ramos-Casals,<sup>2</sup> José Hernández-Rodríguez,<sup>3</sup> and Xavier Forns<sup>1</sup>

<sup>1</sup>Liver Unit, Hospital Clínic of Barcelona, IDIBAPS, CIBERehd, University of Barcelona, Spain; <sup>2</sup>Laboratory of Systemic Autoimmune Diseases “Josep Font,” CELLEX, Department of Systemic Autoimmune Diseases, Hospital Clínic of Barcelona, IDIBAPS, Barcelona, Spain; and <sup>3</sup>Vasculitis Research Unit, Department of Autoimmune Diseases, Hospital Clínic of Barcelona, IDIBAPS, Barcelona, Spain



Patients with hepatitis C virus-associated cryoglobulinemic vasculitis (HCV-CV) have high rates of clinical remission after treatment with direct-acting antivirals (DAAs), but circulating cryoglobulins persist, and vascular disorders reappear in some patients shortly after DAA treatment ends. We performed a prospective study to assess the long-term clinical and immune system effects of HCV eradication with DAAs in 46 patients with HCV-CV and 42 asymptomatic patients with circulating cryoglobulins. A median of 24 months after DAA treatment (range, 17–41 months), 66% of patients with HCV-CV and 70% of asymptomatic patients with circulating cryoglobulins had an immunologic response, with comparable reductions in cryocrit from 2.6% to 0% ( $P < .05$ ). However, 20% of patients still had positive test results for cryoglobulins after DAA therapy. Among patients with HCV-CV, 42 (91%) had a clinical response, in that their Birmingham Vasculitis Activity Score (version 3) decreased from 7 to 0 ( $P < .01$ ). Nevertheless, within 2 years after a sustained viral response to DAA therapy, 5 patients with HCV-CV (11%, 4 with cirrhosis) had relapses of vasculitis that included severe organ damage and death.

**Keywords:** BVAS v3; Complication; Immunoglobulin; SVR.

Several studies of patients with hepatitis C virus (HCV)-associated cryoglobulinemic vasculitis (CV) have shown high rates of clinical remission 12–24 weeks after DAA therapy.<sup>1–4</sup> However, circulating cryoglobulins (CCs) may persist in up to 50% of patients after this short-term follow-up. Moreover, some reports have described relapse of vasculitic manifestations shortly after DAA cessation in the absence of B-cell disorders.<sup>5,6</sup> Thus, we prospectively assessed the long-term outcomes of a cohort

**Abbreviations used in this paper:** ACC, asymptomatic circulating cryoglobulin; BVAS.v3, Birmingham Vasculitis Activity Score version 3; CC, circulating cryoglobulin; CH50, total hemolytic complement fraction; CV, cryoglobulinemic vasculitis; DAA, direct-acting antivirals; HCV, hepatitis C virus; RF, rheumatoid factor; SVR12, sustained virologic response 12 weeks after end of therapy.

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The median duration of follow-up after DAAs was 24 (range, 17–41) months and was comparable in both groups. Among HCV-CV patients, 26 of 29 patients with purpura had resolved cutaneous lesions shortly after treatment finalization. Among patients with neuropathy (7 with sensory polyneuropathy, 6 with sensorimotor polyneuropathy, and 5 sensorimotor multiplex neuropathy), symptoms improved in 12 of 19 patients at SVR12 and in 4 additional patients throughout follow-up. The median Neuropathy Total Symptom Score–6 score decreased from 2.3 (range, 1.16–4.80) at baseline to 1 (range, 0–3.66), ( $P < .05$ ); complete neurologic response increased from 10% at SVR12 to 47% at last follow-up. Among patients with nephropathy, 6 of 9 experienced a complete recovery at SVR 12, but the remaining 3 did not improve further (Table 1). Also, in 1

Because most published studies assessing the impact of HCV eradication on CV are based on short-term follow-up,<sup>1-4</sup> we believe that our prospective long-term follow-up analysis will help clinicians. An extended follow-up (up to 2 years) of our HCV-CV cohort correlates with a significant improvement in clinical response, reaching 90% of patients. This was confirmed by a significant decrease in BVAS.v3 score and the withdrawal of immunosuppressive therapy in >90% of patients. This is extremely reassuring for those individuals who, despite HCV cure, are still symptomatic at

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