



Cutaneous Manifestations of CLOVES Syndrome

Ahmad I. Alomari, MD, Margaret S. Lee, MD, John B. Mulliken, MD,
Steven J. Fishman, MD, Harry Kozakewich, MD and Marilyn G. Liang, MD

Children's Hospital Boston and Harvard Medical School.

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• **Objective of the study:** To report the spectrum of cutaneous manifestations in CLOVES syndrome

– CLOVES Syndrome:

- Congenital Lipomatous Overgrowth
- Vascular malformation
- Epidermal nevus
- Scoliosis/Spinal/skeletal anomalies

• **Materials and methods:**

– The clinical records and photographs of patients with CLOVES syndrome listed in the database of the Vascular Anomalies Center at Children's Hospital Boston were retrospectively reviewed.

• **Results:**

– 33 patients were diagnosed with CLOVES syndrome

– Capillary malformation: 25 patients had a capillary malformation (CM)

- Of the 23 patients with a truncal stain, there was also a CM on the upper extremity (n=3), lower extremity (n=3), both lower and upper extremities (n=1), lower and upper extremities and face (n=1) and upper extremity and lower lip (n=1).
- Two patients had non-truncal CM only: both lower and upper extremities (n=1) or axilla (n=1).
- The CM was solitary in 5 patients and multiple in 13.
- Adequate data was not available in 7 patients.

- Lymphatic vesicles in 11 patients
 - 8 Truncal
 - 1 upper extremity
 - 2 axilla (+/- back)

- Subcutaneous phlebectasia was noted in 22 patients and absent in 4

- Epidermal nevus in 3 patients
 - 2 neck (+/- upper back)
 - 1 face
 - absent in the rest of the patients with adequate data (n=23).

- Small pigmented nevi in 10 patients
- Other findings
 - Linear hypopigmented macular lesion (n=1)
 - Wrinkled plantar surface of the foot (n=2)

- **Conclusion**
 - Cutaneous features of CLOVES syndrome that are readily detected on clinical examination.
 - They are helpful, when considered with other major clinical findings, in suggesting the diagnosis of CLOVES.