



Clinical, organizational and satisfaction-related outcomes of a territorial management model for cancer patients with PICC

Authors: Sala M.P.¹, Zoppini L.², Baletti T.¹, Becco M.¹, Caputo F.¹, Falco G.¹, Fernández Sierra S.¹, Vuono G.³, Imparato L.³, Terzoni S.⁴

Affiliations: 1. Vascular Access Nurse Specialist, SC DAPSS, ASST Grande Ospedale Metropolitano Niguarda Milan, Italy; 2. Director of Health and Social Care; Director of DAPSS, ASST Grande Ospedale Metropolitano Niguarda, Milan, Italy; 3. Nurse with Organizational Role Appointment, SC DAPSS, ASST Grande Ospedale Metropolitano Niguarda, Milan, Italy; 4. University of Milan, Department of Biomedical Sciences for Health, Italy

Background.

- 19.3 million new cancer cases worldwide annually
- 390.000 new cases per year in Italy
- Oncology treatments frequently require PICC devices
- Whose weekly management is essential to prevent complications but may burden patients, caregivers, and hospital outpatient services
- The ASST Grande Ospedale Metropolitano Niguarda developed an innovative model that assigns PICC management to Family and Community Nurses (IFeC), supported by the hospital Access Team.

Aim. To evaluate clinical outcomes, organizational impact, and patient satisfaction among oncology patients managed at the community level.

Methods.

This prospective, single-centre study was conducted at the Casa di Comunità Villa Marelli (Milan) from 8 September to 24 October 2025. Clinical and satisfaction data were collected. Before implementation, all 19 IFeC received training through two theoretical–practical sessions focusing on PICC management and complication handling.

Conclusions. Community-based PICC management proved:

- ✓ Safe,
- ✓ Effective, and well received,
- ✓ Improving accessibility to oncological care,
- ✓ Strengthening functional integration between hospital and community services.

References.

- Sung H, Ferlay J, Siegel RL, Laversanne M, Soerjomataram I, Jemal A, Bray F. Global Cancer Statistics 2020: GLOBOCAN Estimates of Incidence and Mortality Worldwide for 36 Cancers in 185 Countries. *CA Cancer J Clin.* 2021;71(3):209–249. <https://doi.org/10.3322/caac.21660>
- Associazione Italiana di Oncologia Medica (AIOM). *I numeri del cancro in Italia 2024*. Roma: AIOM; 2024.

Results.

Complication rate: 5.81%

- 40 patients (mean age 59±12)
- 86 community dressings
- 5 Access Team consultations
- No therapy interruptions

Satisfaction:

- 100% patients
- 95% nurses

