



Xino /'zi:nou/ means: Life

PRODUCT CATALOGUE

Xino Ergonomic Bedpan | Xino Portable Bidet



Built-in Safety and Dignity

Six practical advantages at a glance

Wider support surface

Distributes body weight over a broader area.

Hinged internal access

Opens to provide direct access to internal surfaces.

No hard-to-clean trap points

Zero overhanging edges and inaccessible recesses.

Anatomically informed fit

Designed around body dimensions and seated support.

Skin-isolated liner placement

Allows a compatible liner to sit inside the receptacle without touching the patient's skin.

Practical multi-directional grips

Provides functional handling access from multiple sides.

What is the problem?

Is a bedpan really that important?

For a bedridden person who cannot use a toilet independently, a bedpan is not an option, it is an essential device for a basic biological need. Its use is closely connected with safety, comfort, hygiene and quality of life in a deeply private aspect of care.

Compared with advanced medical devices, conventional bedpans have received far less attention.



83%

said physical discomfort was often or very often a reason for incomplete elimination.

62.6%

rated bedpan placement as rather difficult or very difficult.

59.2%

rated bedpan removal as rather difficult or very difficult.

A bedpan is more than a receptacle. It affects the patient's quality of life, healthcare providers' work and healthcare-system costs.

Figures from a 2024 cross-sectional survey of 431 healthcare professionals who used conventional bedpans in patient care.

References: Toney-Butler TJ, Gaston G. Nursing Bedpan Management. StatPearls. • Secher Cailleteau P, et al. PLOS ONE. 2024;19(7):e0306773.

What is the solution?

Xino

An ergonomic design for both the patient and the caregiver



The Xino Ergonomic Bedpan was redesigned around critical needs in everyday care: broad and comfortable body support, anatomically informed fit, direct access for cleaning, elimination of hard-to-clean trap points, compatibility with a disposable liner that remains separate from the patient's skin, and practical handling for caregivers. It is particularly suitable for older adults and chronically bedridden patients who may need more time for elimination.

Design goal: Safe and Comfortable, Easy to use and Control, with Dignity and Privacy.

Details for Real Care



Geometry

The wider support surface and anatomically informed geometry are designed to improve body support. The university ergonomics study assessed anthropometric fit, interface pressure at the lower-back and sacral contact areas, and perceived discomfort.

Hinged opening structure

The opening mechanism provides direct access to internal surfaces that can be difficult or almost impossible to reach in a one-piece bedpan. It also allows a compatible disposable liner to be placed inside the receptacle without touching the patient's skin.

Elimination of trap points

Internal contours eliminate overhanging edges and inaccessible recesses, simplifying emptying, washing and visual inspection.

What is the difference?

Xino Ergonomic Bedpan vs conventional bedpans

Feature	Xino	Conventional bedpan
Support surface	Wider support area	Typically narrow
Body fit	Anatomically informed geometry	Generic geometry
Body structure	Hinged, two-part opening design	Predominantly one-piece
Cleaning access	Direct access to internal surfaces when opened	Very restricted internal access
Handling	Functional grips, access from multiple sides	Usually limited and incapable grips
Disposable liner	Purpose-designed liner placement without contact with the patient's skin	Often not purpose-designed
Portable bidet	Designed to connect to the Xino Portable Bidet	No dedicated bidet connection



A care device is better only when its advantages can be experienced by both the patient and the caregiver.

Academic and clinical evidence

Xino has been evaluated in two projects conducted by independent universities:

Crossover clinical trial

- Conducted by the School of Nursing and Midwifery, TUMS, in a nursing home serving both women and men.
- 42 older adults; each participant used both bedpan types in separate periods.
- Overall ratings from residents and caregivers favored the two-part bedpan, with a statistically significant difference ($p < 0.001$).
- Significant differences were reported in positioning, comfort during elimination, cleanliness, internal space and removal.

Joint ergonomics study

- Conducted by TUMS and IUMS
- Measures included anthropometric fit, interface pressure, usability, local perceived discomfort (LPD) and Borg perceived exertion.
- The final report found favorable performance of the redesigned model across several key ergonomic and usability indicators compared with conventional bedpans.

In the university ergonomics study, the Xino Ergonomic Bedpan significantly reduced interface pressure at the sacral and lower-back contact areas compared with a conventional bedpan ($p < 0.05$). According to the international pressure-injury guideline, prolonged mechanical pressure on skin and soft tissue—particularly over bony prominences such as the sacrum—is a primary factor in pressure-injury development.¹

¹ *European Pressure Ulcer Advisory Panel, National Pressure Injury Advisory Panel and Pan Pacific Pressure Injury Alliance. Prevention and Treatment of Pressure Ulcers/Injuries: Clinical Practice Guideline. Emily Haesler (Ed.). EPUAP/NPIAP/PPPIA; 2019.*

Ethics approvals

IR.TUMS.FNM.REC.1401.148 • IR.TUMS.SPH.REC.1402.268 • IR.IUMS.REC.1402.619

Trial registration: IRCT20110621006854N6

TUMS: Tehran University of Medical Sciences | IUMS: Iran University of Medical Sciences

Xino Portable Bidet

Semi-automatic water cleansing: greater hygiene and privacy



The Xino Portable Bidet is designed for external cleansing of the genital and perineal area. It attaches to the front edge of the Xino Ergonomic Bedpan and provides a controlled water flow operated by the caregiver. It may also be used independently for external perineal cleansing in accordance with the instructions for use.

Cleansing intimate areas without direct hand contact supports hygiene and the dignity of both the patient and the caregiver.



Dignity matters

- Nominal reservoir capacity: approximately 900 mL
- Low-voltage pump and rechargeable battery
- USB Type-C charging

Better care for everyone involved



Patient

Broader support, anatomical comfort, improved hygiene, a gentler experience, greater privacy and dignity.

Family and home care

A human-centered and user friendly device that supports bedside care at home

Nurse and caregiver

Practical grips, improved handling, easier placement and removal, elimination of trap points, direct cleaning access and a more controllable workflow.

Care facility

Potential for clearer and more standardized routines for use

Patient dignity is part of care quality, not an optional extra.

Who benefits?

Intended care settings

- Hospitals and inpatient wards
- Nursing homes and long-term care facilities
- Rehabilitation and assisted-care settings
- Home care

Product information

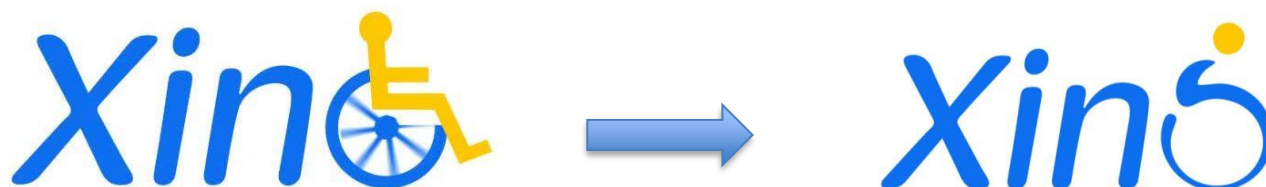
Intended function	Collection of urine and feces for seniors and bedridden with limited mobility
Supply condition	Reusable
Capacity	Approx. 1980 cc
Nominal weight	Approx. 650 g
Warranty	One-year replacement guarantee

Intellectual property

- Iran — Patent No. 101984, dated 9 August 2020
- Iran — Industrial Design No. 46693, dated 12 August 2023
- International — PCT application No. PCT/IB2021/058283, filed 12 September 2021

Designed for safety and dignity

The idea behind the Xino mark



The open circle in the Xino mark expresses our belief that no limitation is completely closed. There can always be a way forward. Even when a solution cannot resolve a problem entirely, it can still make a meaningful difference. The wheelchair motif is therefore not erased; it is transformed into an open, dynamic form. The circle's tapering line suggests movement, flow and continuing possibility.

Years after the mark was created, we became aware of its resemblance to the Japanese ensō—an open circle drawn with a tapering line. Although the resemblance was coincidental, it reinforced our philosophy: “An open circle is not always a sign of imperfection; sometimes, it represents an opportunity.”



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This catalogue introduces the products and does not replace the instructions for use.