Pharmaceuticals / PH-02

Shelf life and FEFO

From 1 March, expired marked goods are automatically blocked at the checkout. Shelf-life control must start in the warehouse.

The checkout blocks the sale. The loss started in the warehouse.

From 1 March 2026, expired marked goods, including medicines, are automatically blocked at the point of sale. A batch the pharmacy cannot sell is returned to the distributor and manufacturer or written off.

Conceptual architecture. No operating results are shown.

01 Receipt	Batch · Expiry date · Code
02 Storage	By expiry date · Short-dated list · Quarantine
03 Dispatch	FEFO · Pharmacy · Document
04 Returns	Reason · Expiry date · Write-off

At a glance

01.03.2026 — Date from which sales of expired marked goods are automatically blocked. [1]

9,450 — Pharmacies that have implemented GPP (Sputnik/TIHE). [2]

486 — Distribution warehouses that have implemented GDP. [2]

November 2026

01 Evidence and context

Who it is for

Distributor	Returns.
Warehouse	FEFO.
Sales	Shipments to pharmacies.
Finance	Write-offs.

Facts and global practice

kun.uz

From 1 March 2026, expired marked goods, including medicines, are automatically blocked at the point of sale. [1]

kun.uz

Manufacturers and importers submit product data to the Asl Belgisi system via CRPT Turon; at the checkout, the 2D code is checked against the system data. [1]

TIHE (Sputnik)

GDP has been implemented in 486 distribution warehouses and GPP in 9,450 pharmacies. [2]

Blocking happens at the checkout, but shelf-life management starts in the distributor's warehouse: it must be visible in advance which pharmacy a short-dated batch will go to.

02 Where the losses occur

FIFO used instead of FEFO

Stock is dispatched by receipt date, not by expiry date.

Short-dated stock not visible

Batches with less than 3 months remaining are not kept on a separate list.

Pharmacy stock

The distributor does not know the remaining shelf life of stock held at pharmacies.

Manual returns

The reason and expiry date of returned batches are not recorded.

How the loss is calculated

Write-offs	expired units per month × unit cost
Returns	returned cases per month × logistics cost per case
Discounts	discounts given on short-dated stock per month
Blocked sales	value of sales rejected at the checkout per month

Illustrative calculations; establish the baseline, units and rates during the site assessment. Avoid counting the same loss twice.

03 Solution architecture

Expiry-based dispatch and early warning

The warehouse system automatically selects batches by expiry date (FEFO), flags short-dated batches in advance and records returns with a reason.

01 Receipt

Batch · Expiry date · Code

02 Storage

By expiry date · Short-dated list · Quarantine

03 Dispatch

FEFO · Pharmacy · Document

04 Returns

Reason · Expiry date · Write-off

Modules

WMS: FEFO	Picking by expiry date	Commercially available
Short-dated alert	Thresholds in days	Commercially available
Returns module	Reason and batch	Commercially available
Marking code tracking	Linked to batch	Engineering capability

Each module has a readiness status. Third-party results are not a forecast for your site.

04 Implementation and measurement

01 Shelf-life audit

Stock and returns.

Output: risk list.

02 FEFO

Warehouse rules.

Output: expiry-based dispatch.

03 Alerts

Thresholds.

Output: advance plan.

04 Subscription

Monthly report.

Output: write-off trend.

What is measured

Expired	Value	WMS
Short-dated share	%	WMS
Returns	Number and reason	WMS
FEFO violations	Cases	WMS

What is needed to start

- Warehouse manager
- Stock and expiry data
- Returns log
- Test access to 1C

05 Readiness checklist and next step

01 Is dispatch automatically based on expiry date?	Yes / No / Unknown
02 Is there a list of batches with less than 3 months remaining?	Yes / No / Unknown
03 Is the reason for each return recorded?	Yes / No / Unknown
04 Is the written-off value visible month by month?	Yes / No / Unknown
05 Is the remaining shelf life of stock at pharmacies known?	Yes / No / Unknown
06 Is there a plan for short-dated batches?	Yes / No / Unknown
07 Is the marking code linked to the batch?	Yes / No / Unknown
08 Is there a quarantine status?	Yes / No / Unknown
09 Do the expiry dates in 1C and the warehouse match?	Yes / No / Unknown
10 Is there a responsible person?	Yes / No / Unknown

What we do not promise

• Exact timeline and price without an audit

• GMP/GDP certificate or inspection result

• Approving validation documents ourselves

• Unmeasured results

Shelf-life audit

We review stock by expiry date and show where the losses are coming from.

• Breakpoint map

• Pilot plan

• Implementation fee and monthly subscription

Scope, price and schedule are agreed after reviewing the site and its data.

06 Sources and scope

[1] «Uzbekistan introduces automatic system to stop sales of expired products». kun.uz, 14.10.2025.

kun.uz

[2] TIHE via Sputnik: GMP at 61 companies, GDP at 486 distribution warehouses, GPP at 9,450 pharmacies. tihe.uz, 03.11.2025.

tihe.uz

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