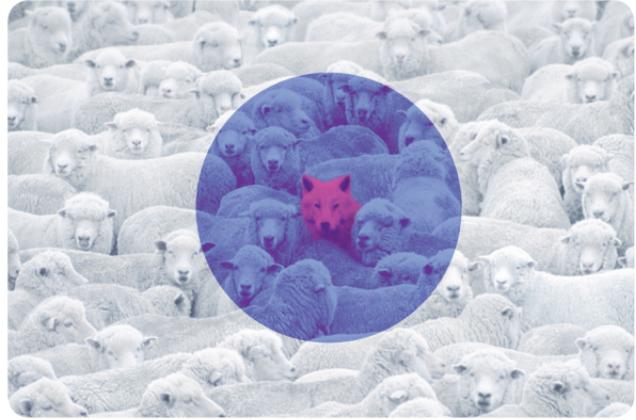




NOW
approved in
surveillance
and TURBT

BLUE LIGHT CYSTOSCOPY WITH CYSVIEW®



CONFIDENCE AT FIRST SIGHT

A Health Care Professional's Guide

- Reconstitution of Cysview

CYSVIEW®
Hexaminolevulinate HCl



THE
BLADDER CANCER
COMPANY™

BLUE LIGHT CYSTOSCOPY WITH CYSVIEW® EQUIPMENT YOU NEED TO RECONSTITUTE CYSVIEW

Handling instructions for the pharmacist or other healthcare professionals:

All steps should be performed with sterile equipment and under aseptic conditions. Wear gloves during the reconstitution procedure; skin exposure to hexaminolevulinate hydrochloride may increase the risk for sensitization to the drug.

- 1 vial Cysview
- 1 vial DILUENT for Cysview
- 1 Luer Lock catheter adapter
- Sterile 50 mL Luer Lock syringe
- Sterile urinary catheterization kit
- Alcohol prep pads
- Sterile syringe cap
- Gloves

Cysview is an optical imaging agent indicated for use in the cystoscopic detection of non-muscle invasive bladder cancer including carcinoma in situ (CIS) among patients suspected or known to have lesion(s) on the basis of a prior cystoscopy. Cysview is used with the KARL STORZ Photodynamic Diagnostic (PDD) system to perform Blue Light Cystoscopy (BLC™) as an adjunct to the white light cystoscopy.¹

1. Cysview [prescribing information]. Princeton, NJ: Photocure ASA; 2018.

BLUE LIGHT CYSTOSCOPY WITH CYSVIEW®

RECONSTITUTION OF CYSVIEW



Fasten the plunger rod into the rubber stopper of the pre-filled syringe by turning the plunger rod clockwise until it stops.



Remove the plastic cap from the vial. Remove the Tyvek® cover from the vial adapter blister package. Do not remove the vial adapter from the package. Place the Cysview® powder vial on a flat surface. Using the blister package to hold the vial adapter, **connect to the vial with a downward vertical motion.**

The vial adapter snaps onto the vial as the spike penetrates the rubber stopper of the vial. Remove the plastic blister package and discard it. Take care not to touch the exposed end of the vial adapter.



Remove the cap from the pre-filled syringe and carefully retain it for subsequent reattachment to the syringe.

Hold the pre-filled syringe upright and carefully press the plunger rod upward to remove air. Connect the syringe to the vial adapter.

Inject about 10 mL of the diluent from the pre-filled syringe down into the powder vial. The vial should be about $\frac{3}{4}$ full.



Without disconnecting the vial adapter from the vial, **hold the powder vial and syringe in a firm grip and gently shake** to dissolve the powder in the diluent.

The powder normally dissolves almost immediately.



5 Turn the vial up-side down and **withdraw all of the dissolved solution** from the powder vial back into the syringe.



6 **Disconnect the empty vial** with the vial adapter from the syringe tip and discard it. Plug the syringe with the syringe cap. Gently mix the contents of the syringe.

The reconstituted solution of Cysview[®] is colorless to pale yellow and clear to slightly opalescent, and free from visible particles.

7

On the syringe label, write down the date and time of reconstitution. The reconstituted solution can only be used up to two hours following reconstitution. Discard the unused solution after two hours.

Cysview® is now reconstituted and ready for use.

Initiate the cystoscopic examination within 30 minutes after evacuation of Cysview from the bladder, but no less than 1 or more than 3 hours after Cysview is instilled in the bladder. If the patient did not retain Cysview in the bladder for 1 hour, allow 1 hour to pass from the instillation of Cysview into the bladder to the start of the cystoscopic examination. The efficacy of Cysview has not been established when the solution was retained for less than 1 hour.



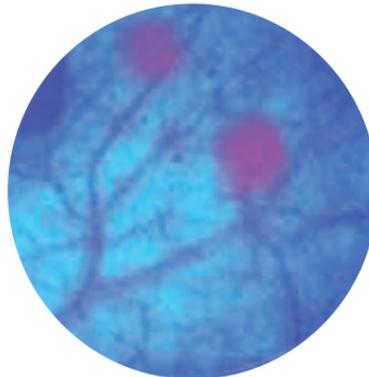
BLUE LIGHT CYSTOSCOPY WITH CYSVIEW® BLADDER INSTILLATION OF CYSVIEW

For bladder instillation of the solution of Cysview, use straight, or intermittent, urethral catheters with a proximal funnel opening that will accommodate the Luer Lock adapter. Use only catheters made of vinyl (uncoated or coated with hydrogel), latex (amber or red), and silicone to instill the reconstituted Cysview. Do not use catheters coated or embedded with silver or antibiotics. In-dwelling bladder catheters (Foley catheters) may be used if the catheters are inserted shortly prior to Cysview administration and are removed following the Cysview instillation.

For more information on the Instillation of Cysview please refer to the full Prescribing Information



Bladder image
from WLC



Bladder image
from BLC with Cysview

BLUE LIGHT CYSTOSCOPY WITH CYSVIEW®

Easily incorporated into clinical practice

Use in all patients

- At the first TURBT
- Follow up
- On-going management of intermediate and high risk patients



Important risk & safety information

Cysview is not a replacement for random bladder biopsies or other procedures used in the detection of bladder cancer.

Anaphylactoid shock, hypersensitivity reactions, bladder pain, cystitis, and abnormal urinalysis have been reported after administration of Cysview. The most common adverse reactions seen in clinical trials were bladder spasm, dysuria, hematuria, and bladder pain.

Cysview should not be used in patients with porphyria, gross hematuria, or with known hypersensitivity to hexaminolevulinate or any derivative of aminolevulinic acid. Cysview may fail to detect some malignant lesions. False positive fluorescence may occur due to inflammation, cystoscopic trauma, scar tissue, previous bladder biopsy and recent BCG therapy or intravesical chemotherapy. No specific drug interaction studies have been performed.

Safety and effectiveness have not been established in pediatric patients. There are no available data on Cysview use in pregnant women. Adequate reproductive and developmental toxicity studies in animals have not been performed. Systemic absorption following administration of Cysview is expected to be minimal. There are no data on the presence of hexaminolevulinate in human or animal milk, the effects on a breastfed infant, or the effects on milk production. The development and health benefits of breastfeeding should be considered along with the mother's clinical need for Cysview and any potential adverse effects on the breastfed infant from Cysview or from the underlying maternal condition.

Cysview is approved for use with the KARL STORZ D-Light C Photodynamic Diagnostic (PDD) system. For system set up and general information for the safe use of the PDD system, please refer to the KARL STORZ instruction manuals for each of the components.

Prior to Cysview administration, read the Full Prescribing Information and follow the preparation and reconstitution instructions.

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March 2018 CYSYC20180025

STORZ
KARL STORZ—ENDOSKOPE

CYSVIEW®
Hexaminolevulinate HCl



THE
BLADDER CANCER
COMPANY™

CYSVIEW[®]

Hexaminolevulinate HCl



HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use CYSVIEW safely and effectively. See full prescribing information for CYSVIEW.

Cysview (hexaminolevulinate hydrochloride), for Intravesical Solution
For bladder instillation only

Initial U.S. Approval: 2010

RECENT MAJOR CHANGES

Indications and Usage (1, 1.1)	2/2018
Dosage and Administration, Use of the KARL STORZ D Light C Photodynamic Diagnostic (PDD) system (2.4)	2/2018
Contraindications, (4)	2/2018
Warnings and Precautions (5.1, 5.2, 5.3)	2/2018

INDICATIONS AND USAGE

Cysview is an optical imaging agent indicated for use in the cystoscopic detection of carcinoma of the bladder, including carcinoma in situ (CIS), among patients suspected or known to have lesion(s) on the basis of a prior cystoscopy, or in patients undergoing surveillance cystoscopy for carcinoma of the bladder. Cysview is used with the KARL STORZ D-Light C Photodynamic Diagnostic (PDD) system to perform Blue Light Cystoscopy (BLCTM) as an adjunct to the white light cystoscopy.

Important Limitations of Use:

- Not a replacement for random bladder biopsies or other procedures used in the detection of bladder cancer. (1.1, 5.2)

DOSAGE AND ADMINISTRATION

Training in blue light cystoscopy with the KARL STORZ D-Light C PDD system is essential prior to the use of Cysview. (2.5)

- Reconstitute Cysview powder with the supplied 50 mL DILUENT under aseptic conditions. (2.2)
- Use solution of Cysview shortly after reconstitution. If unable to use, the solution may be stored for up to 2 hours in a refrigerator at 2°-8°C (36°-46°F) in the labeled syringe. Discard after 2 hours. (2.2, 16)
- Instill 50 mL of reconstituted solution of Cysview into the emptied bladder via an intravesical catheter. Retain in the bladder for 1 hour before evacuating and performing cystoscopic examination. (2.3, 2.5)
- First perform a complete cystoscopic examination of the entire bladder under white light and then repeat the examination of the entire bladder under blue light. Record and document information about location and appearance of suspicious lesions and areas seen under both white and blue light. (2.5)

DOSAGE FORMS AND STRENGTHS

Cysview (hexaminolevulinate hydrochloride) is supplied as a kit. The kit may be supplied as two options; with or without a vial adapter:

- One 10 mL glass vial containing 100 mg powder of Cysview. (hexaminolevulinate hydrochloride) for Intravesical Solution.
- One plastic prefilled syringe containing 50 mL DILUENT for Cysview.
- One Luer Lock catheter adapter.
- One vial adapter for use during reconstitution (in the kit containing the vial adapter). (16)

Once reconstituted, the solution contains 2 mg/mL (8 mmol/L) of hexaminolevulinate hydrochloride.

CONTRAINDICATIONS

Do not use Cysview in patients with:

- porphyria,
- gross hematuria,
- known hypersensitivity to hexaminolevulinate or aminolevulinate derivatives. (4)

WARNINGS AND PRECAUTIONS

- Anaphylaxis: have trained personnel and therapies available. (5.1).
- Failed Detection: Cysview may not detect all malignant lesions. Always perform white light cystoscopy followed by blue light cystoscopy. Do not biopsy with blue light only. (5.2)
- False fluorescence may occur due to inflammation, cystoscopic trauma, scar tissue, previous bladder biopsy, recent BCG therapy or chemotherapy. (5.3)

ADVERSE REACTIONS

The most common adverse reaction reported in patients who received Cysview was bladder spasm, occurring in 2% of patients, followed by dysuria, hematuria and bladder pain. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Photocure Inc. at 1-855-297-8439 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

USE IN SPECIFIC POPULATIONS

Pediatric Use: Safety and effectiveness in pediatric patients have not been established. (8.4)

See 17 for PATIENT COUNSELING INFORMATION.

FULL PRESCRIBING INFORMATION: CONTENTS*

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- 2.2 Reconstitution of Cysview
- 2.3 Bladder Instillation of Cysview
- 2.4 Use of the KARL STORZ D-Light C Photodynamic Diagnostic (PDD) System
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*Sections or subsections omitted from the full prescribing information are not listed.

FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

Cysview is indicated for use in the cystoscopic detection of carcinoma of the bladder, including carcinoma in situ (CIS), among patients suspected or known to have lesion(s) on the basis of a prior cystoscopy, or in patients undergoing surveillance cystoscopy for carcinoma of the bladder. Cysview is used with the KARL STORZ D-Light C Photodynamic Diagnostic (PDD) system to perform Blue Light Cystoscopy (BLCTM) as an adjunct to the white light cystoscopy.

1.1 Limitations of Use

Cysview is not a replacement for random bladder biopsies or other procedures used in the detection of bladder cancer [see Warnings and Precautions (5.2)].

2 DOSAGE AND ADMINISTRATION

2.1 Recommended Dose

The recommended dose for adults is 50 mL of reconstituted solution of Cysview [see Dosage and Administration (2.2)], instilled into the bladder via a urinary catheter [see Dosage and Administration (2.3)].

2.2 Reconstitution of Cysview

Cysview is supplied as a kit containing: a clear glass vial labeled as Cysview (hexaminolevulinate HCl) for Intravesical Solution, containing 100 mg hexaminolevulinate hydrochloride as a powder, a prefilled syringe labeled as DILUENT for Cysview, containing 50 mL of the diluent and a catheter adapter. The kit may be supplied as two options; with or without a vial adapter for use during reconstitution.

Perform all steps under aseptic conditions. Wear gloves during the reconstitution procedure; skin exposure to hexaminolevulinate hydrochloride may increase the risk for sensitization to the drug.

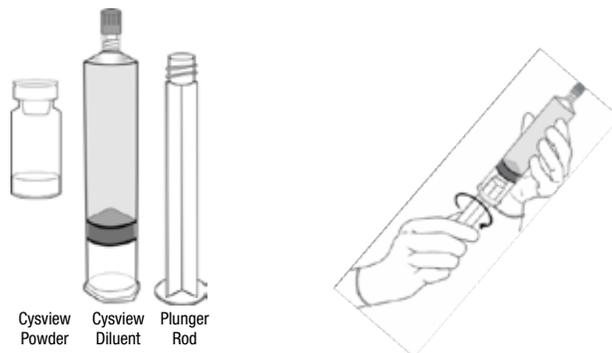


Figure 1.
Reconstitution Using a Vial Adapter

1. Fasten the plunger rod into the rubber stopper of the prefilled syringe by turning the plunger rod clockwise until it stops (Figure 1).

Revised: 2/2018



Figure 2.

- Remove the plastic cap from the vial. Remove the Tyvek® cover from the vial adapter blister package. Do not remove the vial adapter from the package. Place the Cysview vial on a flat surface. Using the blister package to hold the vial adapter, connect to the vial with a downward vertical motion. The vial adapter snaps onto the vial as the spike penetrates the rubber stopper of the vial. Remove the plastic blister package and discard it. Take care not to touch the exposed end of the vial adapter (Figure 2).



Figure 3.

- Remove the cap from the prefilled syringe and carefully retain it for subsequent reattachment to the syringe. Hold the prefilled syringe upright and carefully press the plunger rod upward to remove air. Connect the syringe to the vial adapter. Inject about 10 mL of the diluent from the prefilled syringe down into the vial. The vial should be about ¾ full (Figure 3).

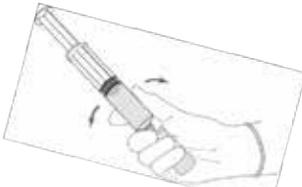


Figure 4.

- Without disconnecting the vial adapter from the vial, hold the vial and syringe in a firm grip (Figure 4) and gently shake to dissolve the powder in the diluent. The powder normally dissolves almost immediately.



Figure 5.

- Turn the vial up-side down and withdraw all of the dissolved solution from the vial back into the syringe (Figure 5). Do not inject large amounts of air or diluent when vial is inverted as it may block the venting action of the vial adapter. If this occurs, turn the vial up right and pull back on the plunger rod in the syringe.

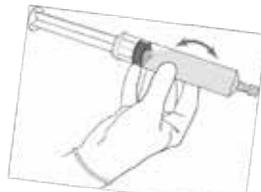


Figure 6.

- Disconnect the empty vial with the vial adapter from the syringe tip and discard it. Plug the syringe with the syringe cap (Figure 6). Gently mix the contents of the syringe. The reconstituted solution of Cysview is colorless to pale yellow and clear to slightly opalescent, and free from visible particles.
- Peel off the detachable portion of the syringe label. On the syringe label, add two hours to the present time and write the resulting expiration time and date.

Cysview is now reconstituted and ready for use. The solution of Cysview contains 2 mg/mL of hexaminolevulinate hydrochloride. Instill the reconstituted solution of Cysview into the bladder [see Bladder instillation of Cysview (2.3)]. If unable to administer the solution shortly after reconstitution, store the solution for up to 2 hours in a refrigerator at 2°-8°C (36°- 46°F) in the labeled syringe. If not used within 2 hours, discard the solution [see How Supplied/Storage and Handling (16)].

Reconstitution Without the Use of a Vial Adapter

- Fasten the plunger rod into the rubber stopper of the prefilled syringe by turning the plunger rod clockwise until it stops (Figure 1)



Figure 7.

- Remove the plastic cap from the vial. Remove the cap from the prefilled syringe and carefully retain it for subsequent reattachment to the syringe. Attach a needle to the prefilled syringe. Hold the prefilled syringe upright and carefully press the plunger rod upward to remove air. Penetrate the stopper of the Cysview vial with the needle and inject about 10 mL of the diluent from the prefilled syringe down into the vial. The vial should be about ¾ full (Figure 7).

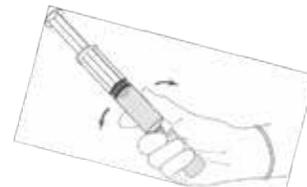


Figure 8.

- Without withdrawing the needle from the vial, hold the vial and syringe in a firm grip (Figure 8) and gently shake to dissolve of the powder in the diluent. The powder normally dissolves almost immediately.



Figure 9.

- Turn the vial up-side down and withdraw all of the dissolved solution from the vial back into the syringe (Figure 9).

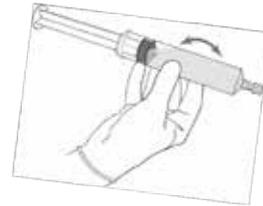


Figure 10.

- Remove the needle from the vial, disconnect the needle from the syringe tip and discard it. Plug the syringe with the syringe cap (Figure 10). Gently mix the contents of the syringe. The reconstituted solution of Cysview is colorless to pale yellow and clear to slightly opalescent, and free from visible particles.
- Peel off the detachable portion of the syringe label. On the syringe label, add two hours to the present time and write the resulting expiration time and date.

Cysview is now reconstituted and ready for use. The solution of Cysview contains 2 mg/mL of hexaminolevulinate hydrochloride. Instill the reconstituted solution of Cysview into the bladder [see Bladder instillation of Cysview (2.3)]. If unable to administer the solution shortly after reconstitution, store the solution for up to 2 hours in a refrigerator at 2°-8°C (36°- 46°F) in the labeled syringe. If not used within 2 hours, discard the solution [see How Supplied/Storage and Handling (16)].

2.3 Bladder Instillation of Cysview

For bladder instillation of the solution of Cysview, use straight, or intermittent, urethral catheters with a proximal funnel opening that will accommodate the Luer Lock adapter. Use only catheters made of vinyl (uncoated or coated with hydrogel), latex (amber or red), and silicone to instill the reconstituted Cysview. Do not use catheters coated or embedded with silver or antibiotics. In-dwelling bladder catheters (Foley catheters) may be used if the catheters are inserted shortly prior to Cysview administration and are removed following the Cysview instillation. Use the following steps for bladder instillation of Cysview:

- Using standard sterile catheterization technique, first insert the urethral catheter into the bladder of the patient and use the catheter to completely empty the patient's bladder before instillation of Cysview.

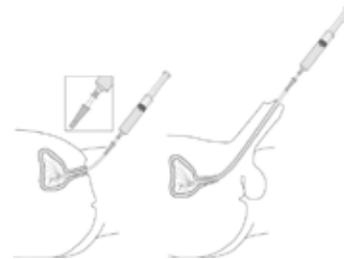


Figure 11.

- To attach the syringe containing the solution of Cysview to the catheter, do the following:
 - Remove the syringe cap from the syringe that contains the reconstituted solution of Cysview.
 - Attach the Luer Lock end of the (provided) catheter adapter to the syringe.
 - Insert the tapered end of the catheter adapter into the funnel opening of the catheter. See Figure 11, with the connection enlarged in the inset.
- Slowly instill the solution of Cysview into the bladder through the catheter (Figure 11), ensuring that the complete volume of the syringe (50 mL) is administered.
- After the solution is instilled, remove the catheter and instruct the patient to retain the solution within the bladder for at least 1 hour; do not exceed 3 hours [see Cystoscopic examination (2.5)]. Patients may stand, sit and move about during the time period between instillation and start of the cystoscopic procedure.
- Evacuate the solution of Cysview from the bladder as part of routine emptying of the bladder immediately prior to the initiation of the cystoscopic procedure (refer to the KARL STORZ D-Light C Photodynamic Diagnostic (PDD) System Manual for further details). Also, the patient may void and completely empty the bladder prior to the procedure.

Avoid skin contact with Cysview. If skin does come in contact with Cysview, wash immediately with soap and water and dry off. After voiding the bladder of Cysview, routinely wash the patient's perineal skin region with soap and water and dry.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Cysview is an ester of the heme precursor, aminolevulinic acid. After bladder instillation, Cysview enters the bladder mucosa and is proposed to enter the intracellular space of mucosal cells where it is used as a precursor in the formation of the photoactive intermediate protoporphyrin IX (PpIX) and other photoactive porphyrins (PAPs). PpIX and PAPs are reported to accumulate preferentially in neoplastic cells as compared to normal urothelium, partly due to altered enzymatic activity in the neoplastic cells. After excitation with light at wavelengths between 360 and 450 nm, PpIX and other PAPs return to a lower energy level by fluorescing, which can be detected and used for cystoscopic detection of lesions. The fluorescence from tumor tissue appears bright red and demarcated, whereas the background normal tissue appears dark blue. Similar processes may occur in inflamed cells.

12.2 Pharmacodynamics

In vitro studies have shown increased porphyrin fluorescence in normal urothelium after exposure to Cysview. In the human bladder, a greater accumulation of porphyrins is proposed in neoplastic or inflamed cells, compared to normal urothelium. After bladder instillation of Cysview for approximately 1 hour and subsequent illumination with blue light at wavelengths 360 – 450nm, the porphyrins will fluoresce red [see *Dosage and Administration* (2.5)].

12.3 Pharmacokinetics

After bladder instillation of [14C]-labeled Cysview (100 mg) for approximately 1 hour in healthy volunteers, absolute bioavailability of Cysview was 7% (90% confidence interval [CI]: 5%-10%). The [14C]-labeled substance(s) showed biphasic elimination, with an initial elimination half-life of 39 minutes, followed by a terminal half-life of approximately 76 hours. Whole blood analysis showed no evidence of significant binding of Cysview to erythrocytes. An in vitro study showed that Cysview underwent rapid metabolism in human blood.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

No studies in animals have been conducted to evaluate the carcinogenic potential of hexaminolevulinatate hydrochloride.

Hexaminolevulinatate hydrochloride was not mutagenic in in vitro reverse mutation tests in bacteria, or in chromosome aberration tests in human peripheral blood lymphocytes, and was negative in an in vivo micronucleus test in mice after intravenous injection of doses up to 45 mg/kg in the absence of light activation. Adequate studies have not been performed to evaluate the genetic toxicity of hexaminolevulinatate hydrochloride in the presence of light activation.

Adequate reproductive and developmental toxicity studies in animals have not been performed to evaluate the effects of hexaminolevulinatate hydrochloride on fertility.

13.2 Animal Toxicology and/or Pharmacology

Dose dependent neurological effects such as tremor, increased motor activity, and increased startle and touch escape responses were observed immediately after dosing at doses \geq 30 mg/kg (24 times human systemic exposure based on the body surface area, using 10% as the upper level of 90% confidence interval of bioavailability) in a single dose rat study. The animals recovered to normal status by 60 min after dosing. Adverse neurological effects were also noted in other single or repeat dose toxicity studies.

Hexaminolevulinatate hydrochloride had moderate to strong potential to cause skin sensitization based on a local lymph node assay in mouse.

14 CLINICAL STUDIES

The safety and efficacy of Cysview when used with photodynamic cystoscopy were studied in two controlled clinical trials.

Study 1: A prospective, multicenter, controlled clinical trial in adult patients with known or suspected bladder cancer who were randomized to either white light (WL) cystoscopy (control group, n = 384) or WL followed by blue light (BL) cystoscopy (study drug group, n = 395). Only the study drug group patients received Cysview by bladder instillation prior to cystoscopy. After bladder evacuation of Cysview, bladder lesion mapping was performed initially using the KARL STORZ PDD system in the WL mode followed by lesion mapping in the BL mode. Control group patients underwent only WL cystoscopy with lesion mapping. The average age of the randomized patients was 69 years (range 24 to 96); 78% were male and 94% were Caucasian. All patients had previously undergone cystoscopy.

The main diagnostic efficacy outcome was assessed within the study drug group. This assessment compared lesions detected during an initial cystoscopic examination to their centralized histologic findings (the standard of truth). Following the initial diagnostic cystoscopy, patients within both study groups who had histologically confirmed Ta and/or T1 lesions underwent follow-up WL cystoscopy at 3, 6 and 9 months; these histologic evaluations were based upon the site assessments at both the initial and follow-up cystoscopy.

Diagnostic efficacy assessed the number of patients within the study drug group who had at least one additional Ta or T1 bladder cancer detected only by BL; the proportion of these patients was compared to a proposed threshold proportion of 10%. Within the study drug group, 286 patients had at least one Ta and/or T1 lesion, including 47 patients who had at least one of the lesions detected only by BL (see Table 1).

Table 1: BL Cystoscopic Ta and/or T1 Lesion Detection within the Study Drug Group

Number of patients with any Ta and/or T1 lesion detected with either WL or BL	286
Number (%) of patients with any Ta and/or T1 lesion detected only with BL	47 (16%)
p-value*	0.001

*Exact test comparison of the proportion to a threshold value of 10%

Table 2: Bladder Tumor Detection within the Study Drug Group by WL and/or BL Cystoscopy

Number of lesions	Detected by Both WL & BL	Detected by WL Only	Detected by BL Only
CIS, n = 66	33	6	27
Ta, n = 580	472	52	56
T1, n = 95	76	10	9
T2 – T4, n = 47	38	8	1

Among the lesions detected only by BL, 23% were negative for any carcinoma-related pathology, including dysplasia. Among the lesions detected only by WL, 17% were negative for any carcinoma-related pathology, including dysplasia.

Study 2: A prospective, open-label, within-patient controlled clinical trial using BL cystoscopy in the detection of bladder cancer during surveillance cystoscopy. Patients with bladder cancer in follow-up for tumor recurrence (n=304) received Cysview by bladder instillation. The average age of the patients was 69 years (range 35 to 92); 80% were male and 89% were Caucasian. After bladder evacuation of Cysview, a standard WL cystoscopy was performed, followed by BL cystoscopy using the KARL STORZ D-Light C Photodynamic Diagnostic (PDD) System with the Flexible PDD Videoscope System. Suspected malignant lesions were counted and evaluated. Patients with suspected recurrence (n=103), underwent a Cysview instillation followed by WL and BL rigid cystoscopy in the operating room (OR), including lesion mapping, using the KARL STORZ D-Light C PDD System with the Rigid PDD Cystoscope System. The suspicious lesions were biopsied and surgically removed by TURB. Cysview efficacy assessed the proportion of patients with malignancy detected only with blue light cystoscopy and not WL cystoscopy during the surveillance cystoscopic examination. The assessment was performed at patient level, and compared malignancy detected during the surveillance cystoscopic examination to the centralized histologic findings (the standard of truth) obtained in the OR examination.

Table 3 shows patient level detection of malignancy suspected in cystoscopic surveillance stage that was verified in the OR stage (n=103). Among the 103 patients, 63 patients had malignancy confirmed: 49 patients had malignancy detected by both WL and BL; 1 patient had malignancy detected by WL only; and 13 patients had malignancy detected by BL only [12.6% with 95% CI (7%, 21%), p<0.0001]. Among these 103 patients, 40 patients had false positive detections: 17 patients had false positive detection by both WL and BL; 3 patients had false positive detection by WL only; and 20 patients had false positive detection by BL only.

Table 3: Patient Level Malignancy Detection Suspected in BL Cystoscopic Surveillance and Verified in the OR

	Detected by Both WL and BL	Detected by WL only	Detected by BL only	Total
True Positive	49	1	13	63
False Positive	17	3	20	40
Total	66	4	33	103

* Exact test comparison of the proportion to a threshold value of 0.5%

Among 26 patients with confirmed CIS malignancy, 9 patients had CIS malignancy detected by BL only and 17 patients had CIS malignancy detected by both WL and BL.

In the same study, there were 315 lesions detected during the cystoscopy in the OR. Table 4 shows the detection of lesions by type of malignancy.

Table 4: Lesion Detection by Type of Malignancy as Verified in the OR

Malignancy Type	Detected by Both WL & BL	Detected by WL Only	Detected by BL Only
CIS, n = 43	24	3	16
Ta, n = 94	61	9	24
T1, n = 10	7	0	3
T2 – T4, n = 5	5	0	0
PUNLMP** n=3	2	0	1
False positive n=160	65	22	73
Total number of lesions	164	34	117

** papillary urothelial neoplasm of low malignant potential

16 HOW SUPPLIED/STORAGE AND HANDLING

Cysview is supplied as a kit labeled Cysview (hexaminolevulinatate HCl) Kit for Intravesical Solution, 100 mg. The kit may be supplied as two options; with or without a vial adapter, and contains:

Cysview kit with a vial adapter

- Cysview (hexaminolevulinatate hydrochloride) for Intravesical Solution, 100 mg, as a powder in a 10 mL clear glass vial.
- One plastic prefilled syringe of DILUENT for Cysview, 50 mL.
- One vial adapter for use during reconstitution. The vial adapter is either a "West Vented Vial Adapter" or a "West Mixject Dispensing Pin".
- One Luer Lock catheter adapter (to connect the syringe containing the reconstituted solution of Cysview to the urethral catheter for bladder instillation of Cysview).

NDC 10511-3001-2

Cysview kit without a vial adapter

- Cysview (hexaminolevulinatate hydrochloride) for Intravesical Solution, 100 mg, as a powder in a 10 mL clear glass vial.
- One plastic prefilled syringe of DILUENT for Cysview, 50 mL.
- One Luer Lock catheter adapter (to connect the syringe containing the reconstituted solution of Cysview to the urethral catheter for bladder instillation of Cysview).

NDC 10511-3001-3

Storage

Store Cysview (hexaminolevulinatate hydrochloride) Kit for Intravesical Solution at 20°-25°C (68°-77°F); excursions are permitted to 15°-30°C (59°-86°F). Do not use beyond the expiry date printed on the carton.

Use the solution of Cysview shortly after reconstitution. If unable to use within this time period, the reconstituted solution can be stored under refrigeration at 2°-8°C (36°-46°F) for up to 2 hours in the labeled syringe.

17 PATIENT COUNSELING INFORMATION

Ask patients if they have:

- a diagnosis or a family history of porphyria,
- allergy to aminolevulinic acid or prior exposure to Cysview,
- gross hematuria,
- had BCG immunotherapy or chemotherapy within the bladder.

Inform patients that Cysview should be retained in the bladder for 1 hour from instillation of Cysview to the start of the cystoscopic procedure. If the patient cannot hold Cysview for 1 hour but needs to void and expel Cysview from the bladder, he or she may void and should then inform a health care professional [see *Dosage and Administration* (2)].

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