

**The Lord is
like a strong
tower, where
the righteous
can go and
be safe.**

Proverbs 18:10

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**Be alert,
stand firm
in the faith,
be brave, be
strong.**

1 Corinthians 16:13

DTI Cavite equips OTOPreneurs with costing and pricing strategies through 2026 OTOP Next Gen Program

The Department of Trade and Industry (DTI) Cavite, in partnership with the Office of the Provincial Cooperative Development Officer (OPCDO), successfully conducted the third session of the 2026 OTOP Next Gen Program entitled "Costing and Pricing Your Products and Services" on June 29, 2026, at the Conference Room of the DTI Cavite Provincial Office.

The activity was led by DTI Cavite Provincial Director

Lilibeth R. Chavez and OIC-Division Chief Julita C. Salvacion, with the support of the Office of the Provincial Cooperative Development Officer (OPCDO), OTOP Program personnel, Negosyo Center representatives, and DTI staff. The seminar aimed to equip OTOPreneurs with the essential knowledge and practical skills needed to accurately determine the cost of their products and services and develop appropriate pricing

strategies that ensure business sustainability and profitability.

As part of the learning session, participants engaged in interactive workshop activities that allowed them to apply the concepts discussed and assess their understanding through practical exercises. The hands-on approach enabled the participants to strengthen their decision-making skills in product costing and pricing while gaining valuable insights into



effective business management. to strengthen the capabilities of local MSMEs by providing relevant capacity-building initiatives that enhance their competitiveness, improve product value, and promote sustainable business growth.

Through the OTOP Next Gen Program, DTI Cavite continues building initiatives

Student dies after school deworming activity in TMC

A Grade 4 student where several other pupils also became ill, the Department of Education confirmed. The routine deworming activity was conducted at Hugo Perez Elementary School on July 2 in coordination with the City Health Office.

According to later passed away the student's death was caused by an infection that led to septic shock. DepEd said it is Turn to page 2

DIYARYO
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ARNULFO BARCO

(May 14, 1951 - September 2, 2024)
Founder

GENER BARCO

Publisher-Editor

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(STUDENT...from page 1)

committed to fully arise, DepEd understanding what Cavite officials happened and is and personnel will working closely with fully cooperate health authorities and carry out their as the investigation responsibilities. continues. The Under DepEd department is also guidelines, reviewing its health deworming activities and safety protocols must be conducted to help ensure the in the presence of well-being of all health personnel, in learners. coordination with

DepEd Cavite the Department of Province and the Health, and with school earlier parental consent. expressed sadness

The department holds school and said they deworming activities were coordinating twice a year to help with the proper eliminate intestinal authorities. parasites that may

The department lead to nutritional also stated that if deficiencies among legal proceedings students.

A concealed frailty in lethal cancers could pave the way for potent new therapies

Scientists at UCLA the loss of RB also Chair in Developmental scientists modified have pinpointed a hidden generates an unforeseen Immunology in normal human prostate vulnerability in certain susceptibility that the Department cells with five primary highly aggressive and scientists think could of Microbiology, cancer-inducing genetic hard-to-manage cancers, evolve into a formidable Immunology, and alterations, including sparking optimism treatment target. Molecular Genetics the loss of RB and for a novel approach

The UCLA group and is a member of the TP53. The cells were to combat tumors that UCLA Health Jonsson cultivated into organoids have defied treatment Comprehensive Cancer and subsequently used for decades. Small critically reliant on a Center. "That's especially generate tumors in mice, cell neuroendocrine protein named E2F3 important because there establishing models that cancers can arise in to live. In lab trials, has not been a major closely mimic human the lung, prostate, and inhibiting E2F3 halted change in how we small cell prostate ovary. These rapidly tumor expansion via a treat these cancers for cancer. The effort builds expanding tumors often mechanism known as decades. When I first upon over a decade of metastasize early and "synthetic lethality." In encountered these tumors investigation by Witte's have remained among the straightforward terms, as a medical student lab to create specialized most difficult cancers to cancer cells can endure more than 50 years ago, models of small cure effectively. without RB, yet they the survival statistics cell neuroendocrine

A defining characteristic of these RB and E2F3 are absent. same as they are today." prostate cancer. Using malignancies is the Eliminating E2F3 in Advancement against conducted genome-wide loss of a gene known addition to the missing small cell neuroendocrine CRISPR screens that as RB. Under normal RB reveals a crucial cancers, particularly analyzed thousands of circumstances, RB frailty that researchers those originating in genes to determine which assists in regulating believe could be the prostate, has been were vital for cancer cell cell growth. When this leveraged with upcoming hindered by the absence survival. The scientists gene is absent, cancer therapies. of practical laboratory identified nearly 1,400 cells proliferate quickly

"Discovering a vulnerability like models. Lacking these, genes that play crucial and develop resistance scientists have found it roles in maintaining to numerous targeted this opens the door to hard to identify the genes cancer cell life. Among treatments. Now, a thinking about entirely these tumors depend on the most notable findings fresh study released new treatment strategies," and reveal their biological was that small cell in Proceedings of the said study senior author frailties. cancers from various National Academy of Dr. Owen N. Witte, who organs all shared a strong Sciences indicates that holds the Presidential obstacle, the UCLA reliance on E2F3.

**EXTRA JUDICIAL SETTLEMENT OF ESTATE
OF ELLEN CINCO ROBILLO WITH ABSOLUTE
SALE OF AN UNDIVIDED PORTION**

NOTICE is hereby given that the estate of the late **ELLEN CINCO ROBILLO** who died intestate on August 2, 2021, at City of Dasmariñas, Cavite, consisting of her conjugal share or FIFTY (50%) PERCENT of that certain parcel of land, without improvement, located at Ardia Vermosa, Barangay Pasong Buaya 1, City of Imus, Province of **Cavite**, with an aggregate area of THREE HUNDRED TWENTY-TWO (322) SQUARE METERS, MORE OR LESS, and covered by TCT No. 057-2022067131 has been adjudicated and extra-judicially settled by and among her heirs in pro indiviso or in equal shares; that, for and in consideration of the sum of TWELVE MILLION FOUR HUNDRED NINETY NINE THOUSAND EIGHT HUNDRED FORTY FOUR AND 47/100 (Php 12,499,844.47) PESOS, Philippine Currency, they do hereby CEDE, TRANSFER, SELL AND CONVEY to SPOUSES ALLAN RONALD U. BARAOIDAN and GEMMA D. BARAOIDAN, their heirs, assigns and successor-in-interest their respective shares in the above described real property, which is equivalent to his (Resty D. Robillo) corresponding conjugal share (equivalent to 161 square meters) and his corresponding one-third (1/3) share (equivalent to 53.66 square meters) he inherited from his deceased wife; and her (Ysabelle Mei Cinco Robillo) corresponding one-third (1/3) share (equivalent to 53.66 square meters) she inherited from her deceased mother, thus, a total of TWO HUNDRED SIXTY EIGHT AND THIRTY THREE (268.33) SQUARE METERS, MORE OR LESS, on February 10, 2026 at Tagaytay City, Philippines before Notary Public Atty. Valentin C. Guanio and entered in his Notarial Register as Doc. No. 374; Page No. 76; Book No. 244; Series of 2026.

(Sgd.) **Heir-Husband (for himself
and as representative of Heir-Son)
and Heir-Daughter**

Publication : DIYARYO KABITENYO News Publishing Service
Dates : June 29, July 6 & 13, 2026

**DEED OF EXTRA JUDICIAL SETTLEMENT
OF ESTATE WITH WAIVER OF RIGHTS**

NOTICE is hereby given that the estate of the late **MELINDA DEL CASTILLO** who died intestate on September 7, 2025 in the City of Cavite, Philippines, consisting of a parcel of land situated in the City of San Antonio, Prov. of **Cavite**, covered by TCT No. T-14776 with all the improvements erected thereon, containing an area of ONE HUNDRED FIFTY THREE (153) SQUARE METERS has been adjudicated and extrajudicially settled by and among her only heirs with waiver of shares, interests and participation over the said parcel of land with all the improvements erected thereon in favor of EMMIL D. SAÑEZ on July 6, 2026 in Cavite City, Philippines before Notary Public Atty. Sikat G. Villacorte-Agbunag and entered in her Notarial Register as Doc. No. 436; Page No. 89; Book No. XXXI; Series of 2026.

(Sgd.) **All Heirs**

Publication : DIYARYO KABITENYO News Publishing Service
Dates : July 6, 13 & 20, 2026

Light switch wakes sleeping cancer cells and makes them vulnerable again

Some cancer cells can enter a dormant, sleep-like state that helps them survive treatment. Instead of continuing to grow and divide, these cells become

largely inactive, allowing them to avoid the effects of many cancer drugs. In certain forms of cancer, including some types of lung cancer,

**REPUBLIC OF THE PHILIPPINES
FOURTH JUDICIAL REGION
REGIONAL TRIAL COURT
OFFICE OF THE CLERK OF COURT
TRECE MARTIRES CITY**

BDO UNIBANK, INC.,
Mortgagee,

FORECLOSURE CASE NO. F-228-26

-versus-

MARC LLOYD R. DELA CALZADA
Debtor/Mortgagor.

x-----x

NOTICE OF EXTRA-JUDICIAL SALE

Upon Extra-Judicial Petition for Sale under Act 3135, as amended by Act 4118, filed by Mortgagee, **BDO UNIBANK, INC.**, with business address at 33rd Floor, BDO Corporate Center Ortigas, No. 12 ADB Avenue, Mandaluyong City against the Debtor/Mortgagor, **MARC LLOYD R. DELA CALZADA**, represented herein by **Irene Ventura Ayon** as his Attorney-in-Fact, with residence and postal addresses at (1) Zone 4-B, District II, Barangay Culianan, Zamboanga City (Occupied by third party); (2) No. 109 Banaba Lejos, Indang Cavite (unknown address) and (3) Block 15, Lot 18, Kensington 11, Brgy. Navarro, General Trias City, Cavite, to satisfy the mortgage indebtedness which as of **March 10, 2026** amounts to **TWO HUNDRED FIFTY THREE THOUSAND EIGHT HUNDRED TEN PESOS and 79/100 (Php253,810.79)**, Philippine Currency, including interest, penalties and other charges as of said date but exclusive of all other expenses incidental to this foreclosure and sale, the undersigned Sheriff will sell at public auction on **August 7, 2026** at 10:00 o'clock in the morning until 12:00 o'clock noon at the main entrance of the Government Center Building located at the Provincial Capitol Compound, Trece Martires City, to the highest bidder for **CASH** and in Philippine Currency, the following described property with all the improvements thereon, to wit:

TRANSFER CERTIFICATE OF TITLE No. 057-2018009777

Lot No. 18 Block: 15 Plan No. Psd-04-226212
Portion of: Block 14, Pcs-04-027752, Decree No. 4270, LRC Rec. No. 5964

Location: Barangay of Navarro, Municipality of Gen. Trias, Province of Cavite, Island of Luzon

Boundaries:

LINE	DIRECTION	ADJOINING LOT(S)
1-2	NE	Lot 17, Block 15, Psd-04-226212
2-3	SE	Lot 16, Block 15, Psd-04-226212
3-4	SW	Road Lot 18, Psd-04-226212
4-1	NW	Lot 20, Block 15, Psd-04-226212

Area: FORTY SQUARE METERS (40), more or less

All sealed bids must be submitted to the undersigned on the above-stated time and date.

In the event the public auction should not take place on the said date and time, it shall be held on **August 20, 2026** without further notice.

Prospective bidders/buyers are hereby enjoined to investigate for themselves the title to the said property and encumbrances thereon, if any there be.

Trece Martires City, July 3, 2026.

(Sgd.) **JOANNAH AVIGAIL F. CRISOLOGO-TIMKANG**
Sheriff IV

Copy Furnished:

BDO UNIBANK, INC.
CONSUMER REMEDIAL MANAGEMENT
33rd Floor, BDO Corporate Center Ortigas
No. 12, ADB Avenue, Mandaluyong City

MR. MARC LLOYD R. DELA CALZADA
MS. IRENE VENTURA AYON

(1) Zone 4-B, District II, Barangay Culianan, Zamboanga City
(2) No. 109 Banaba Lejos, Indang, Cavite
(3) Block 15, Lot 18, Kensington 11, Brgy. Navarro,
General Trias City, Cavite

WARNING: It is absolutely prohibited to remove, deface or destroy this Notice of Extra Judicial Sale on or before the date of sale.

Publication : DIYARYO KABITENYO News Publishing Service
Dates : July 6, 13 & 20, 2026

stress hormones can trigger this response. Specialized proteins called glucocorticoid receptors detect those hormones inside tumor cells. Once activated, the receptors can push the cells into a dormant state where cell division slows dramatically. As a result, many therapies become far less effective.

would cause serious side effects. Any successful treatment must therefore target tumor cells while leaving healthy tissue largely unaffected. Scientists at ETH Zurich have developed a potential solution. They created a system that triggers the destruction of glucocorticoid receptors inside tumor cells while

Researchers have been searching for ways to disable these receptors and wake the cancer cells from dormancy, making them easier to target and destroy.

allowing researchers to use light to selectively switch off the process in nearby healthy tissue. "This system is based on existing medical technology and therefore

A major challenge is that glucocorticoid receptors are found throughout the body, not just in cancer cells. These receptors play essential roles in controlling inflammation and supporting normal immune system function.

offers a realistic prospect of localized therapies," says Robin Scheuplein, joint first author of the study and a doctoral student in the research group led by Katharina Gapp, Professor of Epigenetics and Neuroendocrinology. The new approach

Because of this, eliminating glucocorticoid receptors everywhere in the body takes advantage of a natural cellular recycling process. Normally, cells

Turn to page 5

REPUBLIC OF THE PHILIPPINES
FOURTH JUDICIAL REGION
REGIONAL TRIAL COURT
OFFICE OF THE CLERK OF COURT
TRECE MARTIRES CITY

PHILIPPINE NATIONAL BANK,
(In its capacity as assignee-mortgagee
Of PNB Savings Bank)
Mortgagee,

FORECLOSURE CASE NO. F-280-26

-versus-

SUSANA T. TARIN represented herein
By her Attorney-in-Fact SHIRLEY
TEBELIN TARIN,
Debtor/Mortgagor.
X-----X

NOTICE OF EXTRA-JUDICIAL SALE

Upon Extra-Judicial Petition for Sale under Act 3135,
as amended by Act 4118, filed by Mortgagee, **PHILIPPINE
NATIONAL BANK**, (In its capacity as assignee-mortgagee of
PNB Savings Bank) with business address at PNB Financial
Center, Pres. Diosdado P. Macapagal Blvd., Pasay City against
the Debtor/Mortgagor, **SUSANA T. TARIN**, represented
herein by her Attorney-in-Fact by **Shirley Tebelin Tarin**, with
residence and postal addresses at (1) #83-C Orchid Bernabe
Phase II, San Dionisio, Parañaque City (2) 6711 Tramo St.,
San Dionisio, Parañaque City (3) Lot 28, Block 05 Brighton
Phase 3, Brgy. Pasong Camachile, Gen. Trias, City and (4)
Avenue de Thonez, 61225 Chene-Bourg, Switzerland, to satisfy
the mortgage indebtedness which as of **February 28, 2026**
amounts to **EIGHT MILLION EIGHT HUNDRED THIRTY SIX
THOUSAND TWO HUNDRED EIGHTY SIX PESOS and 36/100
(PhP8,836,286.36)**, Philippine Currency, including interest,
penalties and other charges as of said date but exclusive of
all other expenses incidental to this foreclosure and sale, the
undersigned Sheriff will sell at public auction on **August 7, 2026**
at 10:00 o'clock in the morning until 12:00 o'clock noon at the
main entrance of the Government Center Building located at the
Provincial Capitol Compound, Trece Martires City, to the highest
bidder for **CASH** and in Philippine Currency, the following
described property with all the improvements thereon, to wit:

TRANSFER CERTIFICATE OF TITLE **057-2020048146**

Lot No. **28** Block No. **5** Plan No. **Pcs-04-031781**
Portion of: Block 17, Pcs-04-030363 & Lot 1832, SFDM Estate
(FRS-04-005426), LRC Record No. 5964
Location: Barangay of Pasong Camachile, City of Gen. Trias,
Province of Cavite, Island of Luzon
Boundaries:
LINE DIRECTION ADJOINING LOT(S)
1-2 NE Lot 29, Block 5, Pcs-04-031781
2-3 SE Lot 8, Block 5, Pcs-04-031781
3-4 SE Lot 9, Block 5, Pcs-04-031781
4-5 SW Lot 11, Block 5, Pcs-04-031781
5-6 SW Lot 12, Block 5, Pcs-04-031781
6-7 NW Lot 27, Block 5, Pcs-04-031781
7-1 NW Road Lot 8, Pcs-04-031781
Area: **ONE HUNDRED SEVENTY FIVE (175) SQUARE
METERS, more or less**

All sealed bids must be submitted to the undersigned
on the above-stated time and date.

In the event the public auction should not take place
on the said date and time, it shall be held on **August 20, 2026**
without further notice.

Prospective bidders/buyers are hereby enjoined
to investigate for themselves the title to the said property and
encumbrances thereon, if any there be.

Trece Martires City, July 3, 2026.

(Sgd.) **REYNALDO L. SALOMA**
Sheriff IV

Copy Furnished:

S.P. MADRID & ASSOCIATES
Counsel for the Mortgagee
17th Floor Chatham House Condominium
Valero St. cor. V.A. Rufino Street, Makati City, M.M.

MS. SUSANA T. TARIN
MS. SHIRLEY T. TARIN
(1) #83-C Orchid Bernabe Phase II, San Dionisio,
Parañaque City
(2) 6711 Tramo St., San Dionisio, Parañaque City
(3) Lot 28, Block 05 Brighton Phase 3, Brgy. Pasong Camachile,
Gen. Trias, City
(4) Avenue de Thonez, 61225 Chene-Bourg, Switzerland

WARNING: It is absolutely prohibited to remove, deface or
destroy this Notice of Extra Judicial Sale on or before the date
of sale

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Dates : July 6, 13 & 20, 2026

REPUBLIC OF THE PHILIPPINES
FOURTH JUDICIAL REGION
REGIONAL TRIAL COURT
OFFICE OF THE CLERK OF COURT
TRECE MARTIRES CITY

BDO UNIBANK, INC.,
Mortgagee,

FORECLOSURE CASE NO. F-315-26

-versus-

SPS. ANGELICA E. DELA CRUZ AND
ISRAEL E. DELA CRUZ,
Debtors/Mortgagors.
X-----X

NOTICE OF EXTRA-JUDICIAL SALE

Upon Extra-Judicial Petition for Sale under Act 3135,
as amended by Act 4118, filed by Mortgagee, **BDO UNIBANK,
INC.**, with business address at BDO Corporate Center, 33rd
Floor, BDO Corporate Center Ortigas, No. 12 ADB Avenue,
Mandaluyong City against the Debtor/Mortgagor, **SPS.
ANGELICA E. DELA CRUZ AND ISRAEL E. DELA CRUZ;**
**ANGELICA E. DELA CRUZ signing for herself and as
Attorney-in-Fact of ISRAEL E. DELA CRUZ**, with residence
and postal addresses at (1) Block 16 Lot 6 Somerset 14, Brgy.
Pasong Camachile, Gen. Trias, Cavite (currently occupied by
the mortgagors) and (2) No. 1624 Kalimbas Street, Brgy. 340
Zone 34 District II, Sta. Cruz, North Manila (no occupants),
to satisfy the mortgage indebtedness which as of **March 31,
2026** amounts to **ONE MILLION NINE HUNDRED FORTY
NINE THOUSAND THREE HUNDRED SIXTY SIX PESOS
AND 85/100 (PhP1,949,366.85)**, Philippine Currency, including
interest, penalties and other charges as of said date but exclusive
of all other expenses incidental to this foreclosure and sale, the
undersigned Sheriff will sell at public auction on **August 7, 2026**
at 10:00 o'clock in the morning until 12:00 o'clock noon at the
main entrance of the Government Center Building located at the
Provincial Capitol Compound, Trece Martires City, to the highest
bidder for **CASH** and in Philippine Currency, the following
described property with all the improvements thereon, to wit:

TRANSFER CERTIFICATE OF TITLE NO. **057-2021003338**

Lot No. **6** Block: **16** Plan No. **Pcs-04-028981**
Portion of: THE CONS/SUBD OF LOTS 1, 2 & 3, PCS-04-
011336; LOT 2457-B-3, PSD-04-024243; LOT 2469-A, PSD-
04- 233225; LOT 2457-A, LOT 2457-C, FLS-1228-D; LOT 2458,
FRS-04-005325; LOT 2468 ALL OF SAN FRANCISCO, DE
MALABON ESTATE, DECREEED NO. 4270; LRC REC. NO. 5964
Location: BARANGAY OF: NAVARRO MUNICIPALITY OF
GEN. TRIAS PROVINCE OF: CAVITE
Boundaries:
LINE DIRECTION ADJOINING LOT(S)
1-2 SW ROAD LOT 18, PCS-04-028981

(*LIGHT...from page 4*)

identify damaged or team adapted this process
defective proteins and to specifically target
mark them for disposal glucocorticoid receptors
by attaching a small in tumor cells.
molecular tag, essentially To accomplish
labeling them as cellular this, the researchers
waste. Once tagged, those designed a molecular
proteins are broken down switch consisting of
and removed. three components. One

The ETH Zurich part attaches to the

2-3 NW LOT 4, BLOCK 16, PCS-04-028981
3-4 NE LOT 24, BLOCK 16, PCS-04-028981
4-1 SE LOT 8, BLOCK 16, PCS-04-028981
Area: **NINETY SQUARE METERS (90), MORE OR LESS**

All sealed bids must be submitted to the undersigned
on the above-stated time and date.

In the event the public auction should not take place
on the said date and time, it shall be held on **August 20, 2026**
without further notice.

Prospective bidders/buyers are hereby enjoined
to investigate for themselves the title to the said property and
encumbrances thereon, if any there be.

Trece Martires City, July 3, 2026.

(Sgd.) **REYNALDO L. SALOMA**
Sheriff IV

Copy Furnished:

BDO UNIBANK, INC.
CONSUMER REMEDIAL MANAGEMENT
33rd Floor, BDO Corporate Center Ortigas
No. 12, ADB Avenue, Mandaluyong City

SPS. ANGELICA E. DELA CRUZ AND ISRAEL E. DELA CRUZ
(1) Block 16 Lot 6 Somerset 14, Brgy. Pasong Camachile, Gen.
Trias, Cavite (currently occupied by the mortgagors)
(2) No. 1624 Kalimbas Street, Brgy. 340 Zone 34 District II,
Sta. Cruz, North Manila (no occupants)

WARNING: It is absolutely prohibited to remove, deface or
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glucocorticoid receptor. extended, positioning
Another attaches to the the enzyme close enough
enzyme responsible for to label the receptor for
placing the disposal tag. destruction. The cell then
Between them is a flexible breaks down and removes
connector. the receptor.
The connector is When exposed
the key to the system. to light of a specific
Under normal lighting wavelength, however,
conditions, it remains the connector bends.

REPUBLIC OF THE PHILIPPINES
FOURTH JUDICIAL REGION
REGIONAL TRIAL COURT
OFFICE OF THE CLERK OF COURT
TRECE MARTIRES CITY

BDO UNIBANK, INC.,
Mortgagee,

FORECLOSURE CASE NO. F-413-26

-versus-

JUNNIL C. PESCADERO,
Debtor/Mortgagor.

X-----X

NOTICE OF EXTRA-JUDICIAL SALE

Upon Extra-Judicial Petition for Sale under Act 3135, as amended by Act 4118, filed by Mortgagee, **BDO UNIBANK, INC.**, with business address at BDO Corporate Center, 33rd Floor, BDO Corporate Center Ortigas, No. 12 ADB Avenue, Mandaluyong City against the Debtor/Mortgagor, **JUNNIL C. PESCADERO**, represented by **Nilven Callao Pescadero** as Attorney-in-Fact, with residence and postal addresses at (1) No. 126 Virata Street, Samonte Compound, Brgy. Silangan 1, Rosario, Cavite (currently occupied) and (2) Lot 29, Block 1 Phase 3, Brighton, Brgy. Pasong Camachile, General Trias, Cavite (currently occupied), to satisfy the mortgage indebtedness which as of **May 8, 2026** amounts to **TWO MILLION SIX HUNDRED NINETY THREE THOUSAND TWO HUNDRED NINETY THREE PESOS and 31/100 (PhP2,693,293.31)**, Philippine Currency, including interest, penalties and other charges as of said date but exclusive of all other expenses incidental to this foreclosure and sale, the undersigned Sheriff will sell at public auction on **August 7, 2026** at 10:00 o'clock in the morning until 12:00 o'clock noon at the main entrance of the Government Center Building located at the Provincial Capitol Compound, Trece Martires City, to the highest bidder for **CASH** and in Philippine Currency, the following described property with all the improvements thereon, to wit:

TRANSFER CERTIFICATE OF TITLE No. 057-2021017661

Lot No. 29Block: 1Plan No. Pcs-04-031781

Portion of: Block 17, Pcs-04-030363 & Lot 1832, SFDM Estate, (FRS-04-005426), LRC Record No. 5964,

Location: Barangay of Pasong Camachile, City of Gen. Trias, Province of Cavite, Island of Luzon

Boundaries:

LINE	DIRECTION	ADJOINING LOT(S)
1-2	SW	Road Lot 16, Pcs-04-031781
2-3	NW	Lot 30, Block 1, Pcs-04-031781
3-4	NE	Lot 2, Block 2, Pcs-04-029304
4-5	NE	Lot 1, Block 2, Pcs-04-029304
5-1	SE	Lot 28, Block 1, Pcs-04-031781

Area: NINETY SIX (96) SQUARE METERS, more or less

All sealed bids must be submitted to the undersigned on the above-stated time and date.

In the event the public auction should not take place on the said date and time, it shall be held on **August 20, 2026** without further notice.

Prospective bidders/buyers are hereby enjoined to investigate for themselves the title to the said property and encumbrances thereon, if any there be.

Trece Martires City, July 3, 2026.

(Sgd.) RICARDO E. TOLEDO
Sheriff IV

Copy Furnished:

BDO UNIBANK, INC.
CONSUMER REMEDIAL MANAGEMENT
33rd Floor, BDO Corporate Center Ortigas
No. 12, ADB Avenue, Mandaluyong City

MS. JUNNIL C. PESCADERO

MR. NILVEN C. PESCADERO
(1) No. 126 Virata Street, Samonte Compound, Brgy. Silangan 1, Rosario, Cavite
(2) Lot 29, Block 1, Phase 3 Brighton, Brgy. Pasong Camachile, General Trias, Cavite

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Publication : DIYARYO KABITENYO News Publishing Service
Dates : July 6, 13 & 20, 2026

Scientists found a surprising cancer fighter hiding inside tumors

Researchers at the University of Illinois Chicago (UIC) have created an experimental cancer treatment based on bacteria that naturally live inside tumors.

In preclinical studies involving prostate cancer, the therapy delivered striking results when paired with radiation treatment. The approach halted tumor growth by targeting the cancer cells' energy supply. The treatment is built from a small fragment of a bacterial protein called aurB. According to findings published in the journal Signal Transduction and Targeted Therapy, aurB disrupted energy production within tumor cell mitochondria, effectively depriving

tumors of the fuel they need to grow. "The mitochondria are very important for a cell to survive; they are the energy factories," said Tohru Yamada, senior author of the study, associate professor in the departments of surgery and biomedical engineering at UIC and a member of the University of Illinois Cancer Center. "Many cancer cells exhibit altered mitochondrial number and activity, because a cancer cell has to grow aggressively and rapidly. Therefore, the mitochondria would be an ideal target for cancer therapy."

Scientists have known for years that tumors are home to communities of bacteria that exist within

INDANG, CAVITE
1655
INDANG BLVD.
CITY OF INDANG

Republic of the Philippines
OFFICE OF THE MUNICIPAL CIVIL REGISTRAR
Indang, Cavite



Publication Notice
R.A. NO. 10172

NOTICE TO THE PUBLIC

01 July 2026

CFN-0002-2026
CCE-0056-2026 RA. NO. 10172

In compliance with the publication requirement and pursuant to OCRG Memorandum Circular No 2013-1 Guidelines in the Implementation of the Administrative Order No 1 Series of 2012 (IRR on R.A. 10172), Notice is hereby served to the public that **ARNEL E. KASAYSAYAN** has filed with this office, a petition for **change of first name** from **ARMEL** to **ARNEL** and **correction of entry in the date of birth** from **August 16, 1969** to **July 16, 1969** in the Certificate of Live Birth of **ARMEL E. CASAYSAYAN** at Indang, Cavite and whose parents are **Victorio Casaysayan** and **Leonida Erni**.

Any person adversely affected by said petition may file his/her written opposition with this Office not later than **July 20, 2026**.

(Sgd.) **MERCI A. CHAVEZ**
Municipal Civil Registrar

Publication : DIYARYO KABITENYO News Publishing Service
Dates : July 6 & 13, 2026

INDANG, CAVITE
1655
INDANG BLVD.
CITY OF INDANG

Republic of the Philippines
OFFICE OF THE MUNICIPAL CIVIL REGISTRAR
Indang, Cavite



Publication Notice
R.A. NO. 10172

NOTICE TO THE PUBLIC

CCE-0058-2026

In compliance with the publication requirement and pursuant to OCRG Memorandum Circular No 2013-1 Guidelines in the Implementation of the Administrative Order No 1 Series of 2012 (IRR on R.A. 10172), Notice is hereby served to the public that **MARIO M. ROMILLA** has filed with this Office, a petition for **correction of entry in the date of birth** from **December 16, 1961** to **December 12, 1961** in the Certificate of Live Birth of **MARIO M. ROMILLA** at Indang, Cavite and whose parents are **Abdon C. Romilla** and **Maria Matel**.

Any person adversely affected by said petition may file his/her written opposition with this Office not later than **July 20, 2026**.

(Sgd.) **MERCI A. CHAVEZ**
Municipal Civil Registrar

Publication : DIYARYO KABITENYO News Publishing Service
Dates : July 6 & 13, 2026

what is known as the identified a bacterial tumor microenvironment. protein known as a More recently, researchers cupredoxin that could have begun exploring suppress tumor growth. whether those bacteria Cupredoxins are copper-might provide compounds containing proteins that that can be turned into help transfer electrons cancer treatments. between other proteins.

Earlier work by Based on that Yamada's laboratory Turn to page 6

REPUBLIC OF THE PHILIPPINES
FOURTH JUDICIAL REGION
REGIONAL TRIAL COURT
OFFICE OF THE CLERK OF COURT
TRECE MARTIRES CITY

J.C.T. EZ LOAN CORPORATION,
Mortgagee,

FORECLOSURE CASE NO. F-387-26

-versus-

JOSEPHINE CAPORAL ESPINO,
Mortgagor.

X-----X

NOTICE OF EXTRA-JUDICIAL SALE

Upon Extra-Judicial Petition for Sale under Act 3135, as amended by Act 4118, filed by Petitioner/Mortgagee, **J.C.T. EZ LOAN CORPORATION**, with office address at Unit 4, 3rd Floor, Congressional Square, No. 26, Congressional Avenue, Brgy. Bahay Toro, Quezon City, against the Mortgagor, **JOSEPHINE CAPORAL ESPINO**, with postal addresses at (1) 6284 Kapt. Tinoy St., La Huerta, Parañaque City and (2) Blk. 16 Lot 2 Centro De Oro, Pasong Kawayan II, General Trias, Cavite, to satisfy the mortgage indebtedness which as of **May 25, 2026**, amounts to **FIVE HUNDRED EIGHTY ONE THOUSAND SEVEN HUNDRED TWENTY FIVE PESOS and 37/100 (Php581,725.37)**, Philippine Currency, inclusive of interests, penalties, legal fees and other charges as of said date but exclusive of all other charges incidental to this foreclosure and sale, the undersigned Sheriff will sell at public auction on **August 7, 2026** at 10:00 o'clock in the morning until 12:00 o'clock noon, at the main entrance of the Government Center Building located at the Provincial Capitol Compound, Trece Martires City, to the highest bidder for **CASH** and in Philippine Currency, the following described property with all the improvements thereon, to wit:

TRANSFER CERTIFICATE OF TITLE No. 057-2015027737

LOT NO. 2 BLOCK NO. 16 PLAN NO. Psd-04-224416
PORTION OF: Lot 3235, San Francisco de Malabon Estate RS-04-004047

LOCATION: Barangay of Pasong Kawayan II, Municipality of General Trias, Province of Cavite, Island of Luzon

BOUNDARIES:

LINE	DIRECTION	ADJOINING LOT (S)
1-2	SE	Lot 1, Block 16, Psd-04-224416
2-3	SW	Road Lot 15, Psd-04-224416
3-4	NW	Lot 3, Block 16, Psd-04-224416
4-5	NE	Lot 14, Block 16, Psd-04-224416
5-1	NE	Lot 15, Block 16, Psd-04-224416

AREA: ONE HUNDRED TEN SQUARE METERS (110), more or less

All sealed bids must be submitted to the undersigned on the above-stated time and date.

In the event the public auction should not take place on the said time and date, it shall be held on **August 20, 2026** without further notice.

Prospective bidders/buyers are hereby enjoined to investigate for themselves the title to the said property and encumbrances thereon, if any there be.

Trece Martires City, July 3, 2026.

(Sgd.) **REYNALDO L. SALOMA**
Sheriff IV

Copy furnished:

J.C.T. EZ LOAN CORPORATION
Unit-4, 3rd Floor Congressional Square
No. 26 Congressional Avenue, Bahay Toro, Quezon City

MS. JOSEPHINE C. ESPINO
(1) 6284 Kapt. Tinoy St., La Huerta, Parañaque City
(2) Blk. 16 Lot 2 Centro De Oro, Pasong Kawayan II, General Trias, Cavite

WARNING: It is absolutely prohibited to remove, deface or destroy this Notice of Extra Judicial Sale on or before the date of sale

Publication : DIYARYO KABITENYO News Publishing Service
Dates : July 6, 13 & 20, 2026



REPUBLIC OF THE PHILIPPINES
PROVINCE OF CAVITE
MUNICIPALITY OF MENDEZ-NUÑEZ
OFFICE OF THE MUNICIPAL CIVIL REGISTRAR

NOTICE TO THE PUBLIC

CCE-0026-2026 RA 10172 DATE: July 02, 2026

In compliance with the publication requirement and pursuant to OCRG Memorandum Circular No. 2013-1 Guideline in the Implementation of the Administrative Order No. 1 Series of 2012 (IRR on RA 10172), Notice is hereby served to the public that **ROTA CUBIO VISTO** has filed with this Office, a petition for **Correction of Clerical Error in Gender** from **MALE** to **FEMALE** in the Certificate of Live Birth of **ROTA REDOBLO** at Mendez, Cavite and whose parents are **RUBEN AURE CUBIO** and **ANITA SUMILANG REDOBLO**.

Any person adversely affected by said petition may file his written opposition with this office not later than July 20, 2026.

(Sgd.) **NOREN A. PEROLA**
Municipal Civil Registrar, OIC

Publication : DIYARYO KABITENYO News Publishing Service
Dates : July 6 & 13, 2026



REPUBLIC OF THE PHILIPPINES
PROVINCE OF CAVITE
MUNICIPALITY OF TANZA
LOCAL CIVIL REGISTRY OFFICE

Publication Notice
R.A.10172

NOTICE TO THE PUBLIC

CCE - 0120-2026 RA 10172 Date: June 2, 2026

In compliance with the publication requirement and pursuant to OCRG Memorandum Circular No. 2013-1 Guidelines in the Implementation of the Administrative Order No.1, Series of 2012 (IRR on R.A. 10172), Notice is hereby served to the public that **MICHAEL KIM DEL ROSARIO BAUTISTA**, has filed with this Office, a petition for **CORRECTION OF ENTRY IN CHILD'S SEX** from **"FEMALE"** to **"MALE"**, in the Certificate of Live Birth of **GANESHA NUÑEZ BAUTISTA**, who was born on 03 January 2023 at Tanza, Cavite of parents **PRINCESS LOLET NUÑEZ & MICHAEL KIM DEL ROSARIO BAUTISTA**.

Any person adversely affected by said petition may file his/her written opposition with this Office not later than July 16, 2026.

(Sgd.) **OFELIA U. ARGUSON**
OIC-Municipal Civil Registrar

Publication : DIYARYO KABITENYO News Publishing Service
Dates : July 6 & 13, 2026

(SCIENTISTS...from page 5)

discovery, the team involving adults and in developed a peptide drug studies of brain cancer and tested it extensively, in children. However, including in clinical trials the effectiveness of that



REPUBLIC OF THE PHILIPPINES
PROVINCE OF CAVITE
MUNICIPALITY OF TANZA

LOCAL CIVIL REGISTRY OFFICE

NOTICE OF PUBLICATION

In compliance with Sec. 5 of Rep. Act No. 9048, a notice is hereby served to the public that **HERNANDO VILLALUZ MASANGKAY** has filed with this office a petition for **CHANGE OF FIRST NAME** from **"FRANCISCO JR."** to **"HERNANDO"** in the Certificate Live Birth of one, **FRANCISCO MASANGKAY JR.**, who was born on August 15, 1955 at Tanza, Cavite and whose parents were **FRANCISCO MASANGKAY & TEOFISTA VILLALOS**.

Any person adversely affected by said petition may file his written opposition with this Office not later than **16th July 2026**.

(Sgd.) **OFELIA U. ARGUSON**
OIC-Municipal Civil Registrar

Publication : DIYARYO KABITENYO News Publishing Service
Dates : July 6 & 13, 2026

peptide relies on a gene present inside the tumors. called p53. Because p53 One bacterial species is frequently mutated attracted particular in cancer patients, and attention because it because those mutations contained a cupredoxin vary from person to protein known as person, the treatment auracyanin, which may work well for some performs a function patients but not others. similar to the protein

"We wanted to have studied previously. an anti-cancer agent The researchers then that doesn't use the p53 designed a peptide based function," Yamada said. on auracyanin and named

To find an alternative it aurB. Laboratory approach, the researchers experiments revealed searched for a bacterial that aurB enters tumor protein that acts through cell mitochondria and the mitochondria rather attaches to ATP synthase, than the p53 pathway. a protein that plays a Their search led them critical role in generating to another cupredoxin ATP, the primary energy protein. source used by cells.

For the new study, The team evaluated the team analyzed tumor aurB in cancer cell lines samples from breast lacking active p53 as cancer patients and well as mouse models of used DNA sequencing hormone therapy-resistant to identify the bacteria prostate cancer.

R.A. Form No. 10.1 (LCRO)
(Devised 18 Aug. 2001)

**Republic of the Philippines
Local Civil Registry Office
Province: Cavite
City of: Cavite**

JULY 6, 2026

NOTICE FOR PUBLICATION

In compliance with section 5 of R.A. No. 9048 a notice is hereby served to the public that **MERCEDITA B. BISENTE** has filed with this Office a petition for Change of First name from "**MERCEDES**" to "**MERCEDITA**" in the Birth Certificate of **MERCEDES VICENTE** who was born on **MARCH 22, 1951** in **CAVITE CITY, CAVITE** and whose parents are **FRANCISCO VICENTE** and **TEOFILA BAUTISTA**.

Any person adversely affected by said petition may file his written opposition with this Office.

(Sgd.) **FLORDELIZA M. ALEJO**
OIC-City Civil Registrar

Publication : DIYARYO KABITENYO News Publishing Service
Dates : July 13 & 20, 2026



**REPUBLIC OF THE PHILIPPINES
PROVINCE OF CAVITE
MUNICIPALITY OF MENDEZ-NUÑEZ
OFFICE OF THE MUNICIPAL CIVIL REGISTRAR**

NOTICE TO THE PUBLIC

DATE : July 08, 2026

CCE-0029-2026 RA 10172

In compliance with the publication requirement and pursuant to OCRG Memorandum Circular No. 2013-1 Guideline in the Implementation of the Administrative Order No. 1 Series of 2012 (IRR on RA 10172), Notice is hereby served to the public that **ESTELA FIDEL BORJA** has filed with this Office, a petition for **Correction of Clerical Error in Gender** from **MALE** to **FEMALE** in the Certificate of Live Birth of **ESTELA DELA CRUZ FIDEL** at Mendez, Cavite and whose parents are **FLORENCIO AVELLA FIDEL** and **CONCHITA LANUYBO DELA CRUZ**.

Any person adversely affected by said petition may file his written opposition with this office not later than **July 27, 2026**.

(Sgd.) **NOREN A. PEROLA**
Municipal Civil Registrar, OIC

Publication : DIYARYO KABITENYO News Publishing Service
Dates : July 13 & 20, 2026

AUCTION SALE

Sa ika-23 ng HULYO 2026 ay isusubasta ang hindi natubos na sangla sa buwan ng PEBRERO 2026 sa mga sumusunod na sangay:

JARO PAWNSHOP AUCTION SALE

- Km. 17 Emilio Aguinaldo Highway, Tanzang Luma 2, City of Imus, Cavite (8:00 N.U.)
- Pintong Gubat, Paliparan 3, City of Dasmaríñas, Cavite (11:30 N.U.)
- Blk. 55 Lot 7 Golden Mile, Brgy. Salawag, City of Dasmaríñas, Cavite (11:30 N.U.)
- Wet Market, Buhay na Tubig, City of Imus, Cavite (8:00 N.U.)
- Kostal Wet & Dry Market, Anabu 2-D, City of Imus, Cavite (8:00 N.U.)
- 288 Bucandala 3, City of Imus, Cavite (8:00 N.U.)
- Bahayang Pag-Asa, Mariano Espeleta, City of Imus, Cavite (10:00 N.U.)
- Olivarez Plaza, San Jose, Tagaytay City (1:00 N.H.)
- Blk. 42-A Lot 2 Brookside Lane, Brgy., San Francisco, General Trias, Cavite (8:00 N.U.)
- Purok 126, MMEM Bldg., Mendez Junction, West, Tagaytay City (10:00 N.U.)
- #3 Acacia St., Calendola, San Pedro, Laguna (1:00 N.H.)
- # 1 Blk. 8 Lot 15 Mabini St., Sto. Niño, San Pedro, Laguna (1:00 N.H.)
- Bldg. 2, Stall 6, Lapaz, Public Market, Iloilo City (10:00 N.U.)
- Lopez Jaena St., Poblacion, Iloilo City (8:00 N.U.)
- Buhay na Tubig, City of Imus, Cavite (8:00 N.U.)
- Mojica Bldg., San Agustin, Trece Martires City (2:00 N.H.)
- Jewelry Section #6, Imus Public Market, Tanzang Luma 1, City of Imus, Cavite (8:30 N.U.)
- #1 Aguinaldo Highway, City of Dasmarinas, Cavite (9:00 N.U.)
- 1172 Gen. Emilio Aguinaldo Highway, Bayan Luma 4, City of Imus, Cavite (8:00 N.U.)
- 0211 Molino III, City of Bacoor, Cavite (9:00 N.U.)
- 29 V. Toledo St., Silang, Cavite (11:30 N.U.)
- 51 C. Abueg St., Poblacion, Rosario, Cavite (3:00 N.H.)
- J.P. Rizal St., Brgy. 3, Silang, Cavite (9:00 N.U.)
- Mariano Espeleta Public Market, Bahayang Pag-Asa, City of Imus, Cavite (8:30 N.U.)
- P. Burgos St., Caridad, Cavite City (3:00 N.H.)
- Tramo, Bantayan, Binakayan, Kawit, Cavite (3:30 N.H.)
- #50 Don P. Campos Ave. Zone 1 City of Dasmarinas Cavite (10:00 N.U.)
- 1 Mangubat St., Zone 3, City of Dasmarinas, Cavite (9:00 N.U.)
- Bldg. 2060., ME Bucandala 3, City of Imus, Cavite (8:30 N.U.)
- General Trias Drive, Tejero, Rosario Cavite (11:30 N.U.)
- Joseph Orpiano Bldg., 130 CM, Delos Reyes St., Brgy. Mangahan, General Trias, Cavite (10:30 N.U.)
- Imus Public Market, Tanzang Luma 1, City of Imus, Cavite (9:00 N.U.)
- Blk. 11 Lt. 11 Congressional Rd., Brgy. Buro 1, City of Dasmarinas, Cavite (9:30 N.U.)
- LDJ Congressional Road, Buro 1, City of Dasmarinas, Cavite (10:30 N.U.)
- Unit C, 110 Avenida St. Espeleta 1, Bahayang Pag asa, City Of Imus, Cavite (10:00 N.U.)
- #651 Brgy. Sabang, City of Dasmarinas, Cavite (1:00 N.H.)
- Stall #22, New Tanza Public Market, Daang Amaya 1, Tanza Cavite (2:00 N.H.)
- Blk. 2 Lt. 1 San Dionisio, City of Dasmarinas, Cavite (1:30 N.H.)
- GMA Central Market, Poblacion 1, General Mariano Alvarez, Cavite (2:30 N.H.)
- Stall 21 & 22 St., Anthony, Arcade Maderan, General Mariano Alvarez, Cavite (2:00 N.H.)
- Blk 16 Lot 1 Ph1, Greengate Homes, City of Imus, Cavite (10:30 N.U.)
- Dona Dionisia Subdivision, Bayan Luma 2, City of Imus, Cavite (10:00 N.U.)
- Blk 2 Lot 28 Palazzo Bello 1 Subdivision, Nia Road, City Of Imus, Cavite (11:00 N.U.)
- Mulingbayan Poblacion X, Nasugbu, Batangas (2:30 N.H.)
- Blk. 5 Lt 56 Tinyente Tiago, General Mariano Alvarez, Cavite (3:00 N.H.)
- D1-4 13 San Jose Market, General Mariano Alvarez, Cavite (3:00 N.H.)
- Km 17., Aguinaldo Highway, Panapaan 4, Bacoor, Cavite (11:30 N.U.)
- Ph1, Springville West, Molino III, Bacoor, Cavite (10:00 N.U.)
- Brgy. Paradahan 1, Tanza, Cavite (11:00 N.U.)
- De Ramon, Commercial Complex St., Augustine St., Poblacion 2, Tanza, Cavite (3:00 N.H.)
- Tanza public Market, Stall #15, Daang Amaya 1, Tanza, Cavite (3:30 N.H.)
- Gma Central Market, General Mariano Alvarez, Cavite (3:30 N.H.)
- #2 N Commercial & Services Corp., 0003 Unit C Advincula Ave., Alapan 2-B, City of Imus, Cavite (8:30 N.U.)
- 64 Imelda Ave., Brgy. Langgam, San Pedro, Laguna (3:00 N.H.)
- Stall # 6 Southville 3 Commercial Complex Fourth District, City of Muntinlupa (1:30 N.H.)
- #85 Don P. Campos Ave., Brgy. Sabang, City of Dasmarinas, Cavite (1:30 N.H.)
- 9005 National Road, Brgy. Riverside, City of San Pedro, Laguna (2:30 N.H.)
- Space # 2016-1 2F Festival Supermall, Alabang, Muntinlupa City (2:00 N.H.)
- Sitio Lontoc Brgy. Timalan Balsahan, Naic, Cavite (3:00 N.H.)
- Ground Floor Manggahan Gentry Supermarket (MGS) 129 Governor's Drive Manggahan 4107 General Trias Cavite (2:30 N.H.)

LANUZA & SONS -Auctioneer

resilience, the brain's ability to continue functioning despite disease.

One of the biggest unanswered questions in Alzheimer's research is why the disease affects people so differently. While many develop memory loss and dementia as Alzheimer's progresses, others show little or no cognitive decline despite having the same underlying brain pathology.

"Around 30 percent of older adults who develop Alzheimer's disease never experience its symptoms," says senior author Evgenia Salta. "We really don't know why. That's a big mystery, and a very important one."

Understanding what protects these individuals could eventually point scientists toward new ways to treat or even prevent dementia.

"If we understand what protects these brains, it could eventually lead to new therapeutic strategies."

One possibility is that resilient brains are better at repairing themselves.

"Perhaps they can add new brain cells to a network that is degenerating," Salta says. This idea centers on adult neurogenesis, the process through which new neurons are generated in the adult brain. While adult neurogenesis is well documented in many animal species, scientists have long debated how much, if any, occurs in humans. To investigate, Salta and her colleagues

examined donated brain tissue from the Netherlands Brain Bank. The samples included healthy individuals, people with Alzheimer's disease, and people whose brains showed Alzheimer's pathology even though they never developed dementia.

The researchers concentrated on a small region within the brain's memory center, one of the few places where new neurons may still develop.

"These cells are extremely rare, so we had to develop new ways to find them," Salta says. "We really zoomed in on the exact spot where we expected them to be."

Millions may be getting the wrong cholesterol test

Millions of Americans have a blood test every year to measure LDL, often called "bad" cholesterol. But new research from Northwestern Medicine suggests that another test may do a better job of identifying who needs more aggressive treatment to reduce the risk of heart attacks and strokes.

The study, published in JAMA, found that measuring apolipoprotein B (apoB) was more effective than tracking LDL or non HDL cholesterol when deciding whether to intensify cholesterol lowering therapy, including statins and other medications.

"We found that apoB testing to intensify cholesterol-lowering medication would prevent more heart attacks and strokes than current practice, and that these health benefits were achieved at a cost that represents good value for U.S. healthcare payers," said study lead author Ciaran Kohli-Lynch, assistant professor of preventive medicine in the division of epidemiology at Northwestern University Feinberg School of Medicine.

Kohli-Lynch said this is the first comprehensive analysis to show that using apoB to guide cholesterol treatment is also cost effective.

Heart disease remains the leading cause of death in the United States and is responsible for enormous healthcare spending. Over time, tiny cholesterol carrying particles can become trapped inside artery walls, where they build up into plaques that restrict blood flow and raise the risk of heart attacks and strokes.

Doctors have long relied on LDL cholesterol and non HDL cholesterol levels to decide when patients should begin or intensify cholesterol lowering treatment. While those tests provide useful information, they do not fully capture a person's cardiovascular risk.

"Research strongly shows that apolipoprotein B (apoB) is better at identifying who is at risk, because it counts the total number of harmful particles in the blood," explained Kohli-Lynch. Unlike standard cholesterol tests, apoB measures the number of cholesterol carrying particles that can contribute to plaque buildup. Researchers say that makes it a more direct indicator of cardiovascular risk.

Even with growing evidence supporting apoB, the test is still not commonly used in routine care.

This spray-on powder can stop life-threatening bleeding in 1 second

Excessive blood loss is the leading cause of death from combat injuries, making rapid bleeding control one of the biggest challenges in battlefield medicine. Researchers at KAIST, including an Army Major, have developed a next generation spray-on powder that can stop severe bleeding in about one second. The innovation could significantly improve survival for wounded soldiers while also offering broad potential for civilian emergency care.

The research team, led by Professor Steve Park of KAIST's Department of Materials Science and Engineering and Professor Sangyong Jon of the Department of Biological Sciences, created a powder type hemostatic agent that quickly transforms into a strong hydrogel barrier when sprayed onto a wound.

Because an Army Major directly participated in the project, the technology was designed with real battlefield conditions in mind. The powder hardens almost instantly, remains stable during storage, and can be deployed quickly even in demanding environments such as combat zones and disaster areas.

Conventional patch type hemostatic products are widely used in medicine, but their flat design makes them difficult to apply to deep, irregular, or complex wounds. They can also be sensitive to temperature and humidity, creating challenges for storage and field use.

To overcome those limitations, the researchers developed a powder that can conform to wounds of many different shapes and sizes. A single product can be used on deep, large, and uneven injuries, making it more versatile than traditional alternatives. Most existing hemostatic powders work primarily by absorbing blood and creating a physical barrier. Instead, the KAIST team designed their material to take advantage of natural ionic reactions that occur in blood. The new material, called 'AGCL powder,' combines several naturally derived, biocompatible ingredients. These include Alginate and Gellan Gum (which react with calcium for ultra-fast gelation and physical sealing) along with Chitosan (which bonds with blood components to enhance chemical and biological hemostasis).

When the powder comes into contact with blood, it reacts with cations such as calcium and transforms into a gel in about one second, rapidly sealing the wound.

Its three dimensional internal structure also allows the powder to absorb more than seven times its own weight in blood (725%). This enables it to quickly block blood flow even during heavy, high pressure bleeding. According to the researchers, the material outperformed commercially available hemostatic agents, achieving an adhesive strength greater than '40kPa,' which is strong enough to withstand firm hand pressure.