

PARADE



SUNDAY, AUGUST 12, 2012

**SUNDAY
WITH
KEN
JENNINGS**
.....

SPECIAL REPORT
**REBUILDING
AMERICA'S
SCHOOLS**

HOW TWO
TOWNS TACKLED
THE PROBLEM
OF CRUMBLING
CLASSROOMS—
AND THE LESSONS
THEY CAN
TEACH US ALL
.....

QUIZ
HOW WE LEARN
.....

**SHARK
WEEK**
25 YEARS
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Discovery

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JUST A FEW years ago, California's Santa Ana High School looked like it had long outlived its art deco grandeur. The 1935 building was dilapidated, overcrowded, and scarred with graffiti. Roofs leaked. Sewage backed up in pipes. Some buildings had no mechanical ventilation. The wiring was in "various levels of dysfunction," says assistant superintendent Joe Dixon. "Computers would go down. Lighting would go down. In the few places where we had air-conditioning, *that* would go down." In one building, make-shift classroom partitions forced teachers to shout over one another's lessons. Between the noise and the heat, "it was hard to focus on my work," says Elvis Carranza, 16, an incoming senior at Santa Ana. "It made me not want to go to school at all." What's more, 34 portable buildings (i.e., trailers) had turned parts of the campus into a labyrinth—surrounded by chain-link fencing that, in Dixon's words, "made it look like if you could get in, you were never going to get out."

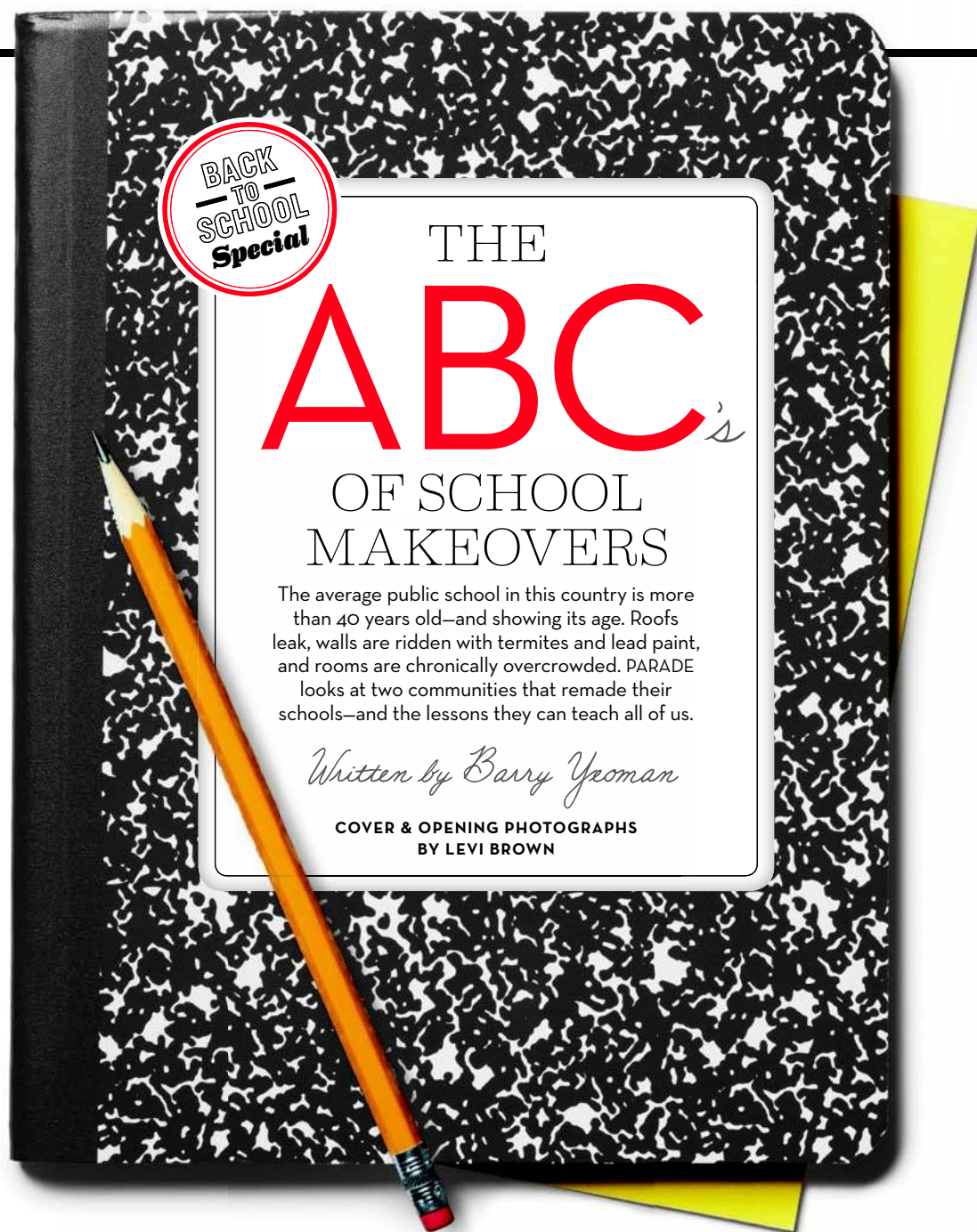
The sad truth is, Santa Ana High was like thousands of other schools across the United States. Talk of fixing American education tends to focus on teacher retention, test scores, and graduation rates—but we often overlook an equally serious problem: crumbling, anti-

quated facilities that are hostile to learning and depressing to the children and teachers who spend many of their waking hours there.

An estimated 40 percent of the nation's 100,000 public schools are in "bad to poor condition," according to Glen Earthman, Ed.D., a

professor emeritus of educational administration at Virginia Tech in Blacksburg, Va. Today, the average U.S. public school is over 40 years old. The 21st Century School Fund, a nonprofit based in Washington, D.C., that advocates for healthy and safe learning envi-

ronments, calculates that it would take \$271 billion to bring all of those buildings up to a decent standard. But some communities have taken matters into their own hands to fund the improvements their kids need. Here are two such success stories.



FOR PEOPLE in Santa Ana, a city of more than 300,000 located 30 miles south of Los Angeles, the second-rate school facilities were unacceptable. Many residents are immigrants; they often work multiple jobs and share bedrooms in overcrowded apartments. Twenty-eight percent of the city's children live in poverty. Yet Santa Ana's parents have ambitious dreams for their kids.

"They want us to do better," says Carranza, one of five children of a Mexican-born seamstress. His mother, who as a child often walked past the schoolhouse in her village near Santa María del Oro, Jalisco, but never set foot inside, vowed that her own children would have more opportunity. "My mama always told me that the reason she came here," he says, "was so we could make something of ourselves."

Raising taxes would not be easy in a city that in 2004 was ranked No. 1 for "urban hardship" by the Rockefeller Institute of Government. But in 2008, Santa Ana residents voted two to one for a \$200 million bond issue that would improve the city's 56 public schools. The resulting property-tax increase—less than \$100 per year for a modest house—meant collective belt tightening. "We saw parents picking up recyclables just to make ends meet," says Maria Cante, the high school's community and family outreach liaison. But relatively few complained, she says—they knew that better schools would give their children a surer shot at higher education.

More than \$40 million went to overhauling Santa Ana High, one of the district's neediest schools, an effort that was completed over the

past three years. Among many improvements, the auditorium was renovated seat by seat, with high-tech lighting and sound added. (Community groups now use the auditorium and other school facilities year-round.) Workers tore down fences and laid an elegant promenade to help make the

entrance more inviting. Assistant superintendent Dixon secured an additional \$41 million from the state, including an overcrowding-relief grant to help replace the trailers with a two-story classroom building. With more than an acre reclaimed, Santa Ana High once again resembled a true campus.



REBUILDING GREEN IN WARREN COUNTY, KY.

About nine miles outside of Bowling Green, the newly rebuilt Richardsville Elementary School uses one-quarter the energy of an average school. Rooftop solar panels produce enough power for the school district to sell electricity back to the grid.

Visit that campus today and you'll see young dancers rehearsing in a sun-drenched studio. You'll watch as history teacher Jason Hollingshead uses interactive games on his electronic "smart board" to bring the civil rights movement to life. You'll see 11th graders in a chemistry lab huddled around unscratched countertops with gleaming chrome fixtures. You'll spy seniors eating

lunch in a rose garden, under a canopy of magnolias.

Since the modernization, vandalism has virtually ceased and attendance has inched up. Eighty-nine percent of seniors had passed the California High School Exit Exam by this past March, compared with 82 percent in 2011. Teachers say students have grown more engaged. "If you feel valued, it inspires you to pay more attention and work harder," Carranza says.

40
PERCENT

of America's 100,000 public schools are in bad to poor condition.

THE PROBLEMS facing America's school buildings are not always visible ones. Poor ventilation causes asthma, headaches, fatigue, and nausea, making it harder to concentrate and boosting absenteeism. Hot and cold classrooms, external noise, and insufficient light all undermine teaching. "We know that when the heat gets up to 78, 80 degrees, the learning curve drops precipitously," says Earthman. "When a student can't see the writing surface, when a student can't hear the teacher, there is a measurable effect."

Earthman, who has studied the link between infrastructure and student performance since 1993,



has found that children attending schools in subpar condition score up to 10 percentile points lower on standardized tests, even after controlling for poverty. Outmoded facilities not only inhibit learning but also drive away

good teachers, who would rather work in schools where the thermostats function and the air doesn't sicken them.

Of course, there are beautifully designed schools that boast every amenity a student could desire, notes Mary Filardo, director

of the 21st Century School Fund. But, not surprisingly, they tend to be located in the most affluent communities. Elsewhere—in cities, older suburbs, and rural areas—many schools remain “unhealthy, unsafe, depressing places,” she says.

Take a look across the United States and it becomes obvious that when it comes to infrastructure, equality in education remains an unrealized ideal. When it rains in Reading, Pa., “we have classrooms in which there is actually a waterfall coming over the lights,” says Bryan Sanguinito, president of the Reading Education

A CAMPUS BLOOMS IN SANTA ANA, CALIF.

Widespread poverty didn't stop the city's residents from voting to fund a school face-lift. Today, the once cramped, graffiti-strewn high school campus is modern and inviting.



Legal Notice

A Class Action Settlement About Chinese Drywall May Affect You

A Settlement has been reached in a class action lawsuit involving drywall imported to the U.S. from China. The lawsuit claims that this Chinese Drywall caused property damage and personal injuries.

The companies being sued are distributors, suppliers, builders, developers, and installers who were associated with Chinese Drywall. Some of these companies (“Participating Defendants”) and some of their insurance companies (“Participating Insurers”) have agreed to a Settlement. The Participating Defendants and the Participating Insurers deny they did anything wrong.

Who's Included?

You are likely included in the Class if you have any claim for property damage or personal injuries related to Chinese Drywall installed anywhere in the U.S., except for in Virginia. For the specific legal definition of the Class, please visit the website or call the phone number below.

What Can You Get?

Under the Settlement, Participating Defendants and Participating Insurers will contribute \$80 million into a Settlement Fund. At a later date, after other Chinese Drywall Settlements are resolved, the Court will approve a plan to distribute the Settlement Fund to Class Members. At that time, Class Members may receive payments for their damages. You can register at the website below to be updated if a claims process is available.

Your Other Rights

If you do nothing, you remain in the Class and you may be eligible to receive Settlement benefits. You will be bound by all the Court's decisions. If you do not want to be legally bound by the Settlement, you must exclude yourself from the Settlement. The deadline to exclude yourself is **September 28, 2012**. If you do not exclude yourself you will not be able to sue the Participating Defendants or the Participating Insurers for any claim relating to the lawsuit. If you stay in the Settlement, you may object to all or part of it by **September 28, 2012**. The Court will hold a hearing on **November 13, 2012** to consider whether to approve the Settlement. The Court has appointed attorneys to represent the Class. If you wish, you or your own attorney may ask to appear and speak at the hearing at your own cost.

This notice is only a summary. Use the information below to get detailed information, and to register to receive future notifications about this Settlement and related Chinese Drywall Settlements.

Association. At Youth's Benefit Elementary School in Fallston, Md., some water fountains are off-limits because of lead in the plumbing. In Beloit, Wis., “we've shut down certain wings of buildings [because] of air-quality issues,” says superintendent Steve McNeal. Geronimo Road Elementary School, on Oklahoma's Fort Sill military base, has termite-ridden walls and ceiling tiles that dangle “by threads of glue,” according to the Center for Public Integrity. *The Arizona Republic* recently revealed that the school fire alarm at Arizona's Fredonia High can't be heard in certain classrooms. And the faulty air-conditioning at J.D. Smith Middle School in North

Call: 1-877-418-8087 or Visit www.ChineseDrywallClass.com

Las Vegas sometimes forces administrators to cool off students by distributing ice pops, reports *The Las Vegas Sun*.

Much of the disparity between school districts is a function of how educational facilities are funded. It's typically a local responsibility, and communities have wildly varying tax bases; those with the highest household incomes spend almost three times as much on school construction as the poorest ones.

Struggling districts know they need better buildings. But their leaders say they can't fix what they can't afford to, particularly in a stalled economy. According to state and local authorities, the aging schools in New Bedford, Mass.—some more than a century old—have suffered mold infestation and registered alarming carbon dioxide levels. Many have “no facilities for computer labs, for music, for special needs,” says school committee member John Fletcher. But with state funding slashed, the district has laid off most of its custodial staff and put building improvements on hold to avoid massive teacher cuts. “Keeping class size small is the first priority,” Fletcher says.

Until state and federal governments fill the gap, inequalities will persist. Filardo, who thinks about these issues full time in her post at the 21st Century School Fund, knows the obstacles are huge. “But the American people, in their communities, have been willing to tackle major initiatives,” Filardo says. She is encouraged by districts like Santa Ana that

➔ continued on page 15

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from page 11

WANTED

A PASSING GRADE
FOR AMERICA'S SCHOOLS

What you can do to help

LEARN MORE about the issue in your area. Many websites contain good information about school buildings; the most comprehensive is the National Clearinghouse for Educational Facilities (ncef.org). You can also contact the state agency that oversees school facilities; find your state's by going to the American Clearinghouse on

Educational Facilities (acefacilities.org) and clicking on "Policies."
CONTACT your lawmakers. A broad coalition of organizations has crafted a message for Congress calling for more federal funding for school repairs and renovations. Send your own letter at fixamericasschools today.org.

TAKE ACTION in your community. The 21st Century School Fund has a detailed guidebook for parents called "For Generations to Come"; it can be downloaded from 21csf.org. If you're worried that your child's school might contain mold or toxic chemicals, go to healthyschools.org, where you'll find a checklist of steps to take. —B.Y.

have found creative solutions despite their modest means.

Of course, not every old school can be renovated like Santa Ana High. Some need to be rebuilt from scratch. But even new construction can be made more affordable. One way is to go green.

RIGHT HERE we can show off the solar tubes," says Carter Ford as he leads two guests through Richardsville Elementary School in Kentucky's Warren County. He's demonstrating a technology that dramatically cuts lighting costs at this rural school. "They're aluminum cylinders, and on the top there's a little dome. It collects the sunlight and reflects it a bunch of times. Then, with the glass, it's able to magnify it and spread it out through the room." Ford looks up at his visitors and beams with pride. He is lanky, mop-topped—and just 12 years old.

Richardsville Elementary sits across from a cattle pasture nine miles north of Bowling Green. More than three-quarters of its students qualify for free or reduced-price lunch. Until 2010, classes were held in a beloved but obsolete 60-year-old building with dismal lighting and no handicapped access. "We had mice in the walls eating the wiring," recalls one teacher, who requested anonymity. "We had mold problems, habitual bronchitis, allergies, sinus infections—teachers and kids."

Clearly, the old school needed to be replaced. By district policy, that meant building green, which typically doesn't cost more up front but can yield big returns. Since 2003, Warren County's school system has focused on conserving energy in construction and operations and calculates that it has saved \$7 million and avoided

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ADVERTISEMENT

SCIATICA BACK PAIN?

If you suffer from Sciatica symptoms, such as intense pain in the buttocks and lower back, or pain and numbness in your legs and feet, you are not alone. Over 170 million people suffer from the burning, tingling, numbing, and shooting pains because they are not aware of this proven treatment.

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If you suffer from Tinnitus and experience ringing in the ears, buzzing, hissing, whistling, or other sounds, you should know that help is available. Many people are putting up with irritating noises because they are not aware of this proven treatment.

MagniLife® Tinnitus Relief has already helped thousands find relief when nothing else has worked. It can be taken along with other medications with no side effects. *"This tablet seems to be the only thing I've found that brings relief."* - Bert M., Mt. Pleasant, IA. The tablets dissolve under the tongue and contain Lycopodium, which reduces

noises in the ears. *"I would definitely recommend this product to anyone."* - C. Robinson, OH.

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If you experience painful and annoying muscle cramps in your legs, calves, feet, or toes, especially at night, you should know relief is available. Over 100 million people suffer from nocturnal leg cramps and are putting up with the pain and loss of sleep because they are not aware of this proven treatment.

MagniLife® Leg Cramp Relief is now helping people that have been living with painful cramps for years. It can be taken along with other medications with no side effects. *"I highly recommend Leg Cramp Relief. A couple tablets before bed, and no more waking up to painful cramps in my calves."* - Joyce, Denver, CO. Tablets dissolve under the tongue

and contain eight active ingredients, such as magnesia phosphorica, which reduces cramps and radiating pains that are worse at night.

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If you suffer from aches and pains all over, have difficulty sleeping, and have the feeling of little or no energy, you may be one of the six million Americans who suffer from Fibromyalgia. These pains can be in the neck, shoulders, back, arms, and legs and can be accompanied by muscle tenderness and soreness. Many people are living in pain because they are not aware of this new proven treatment.

MagniLife® Fibromyalgia Relief relieves the everyday pain by using ingredients such as Conium that trigger reactions from the body to effectively relieve symptoms when nothing else has worked. The tablets dissolve under the tongue and can be taken safely along with other medications with no

side effects. *"Fibromyalgia Relief tablets have worked like a miracle. I have tried all other sorts of medications. I've been taking them less than two weeks, and my fingers and hands aren't stiff anymore. Whatever is in them works beautifully!"* - Helen D., AL.

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teacher layoffs as a result. That has helped secure bipartisan political support. "When you build high-performance facilities, you save money," says State Rep. Jim DeCesare, a local Republican (and construction firm executive) who cochairs the Kentucky Green Schools Caucus.

For the new Richardson Elementary, school officials asked Louisville architect Kenny Stanfield to design the nation's first public school to produce more energy than it consumes. "We had to rethink everything," says Stanfield—from the placement of classrooms to how bathroom sinks turned on.

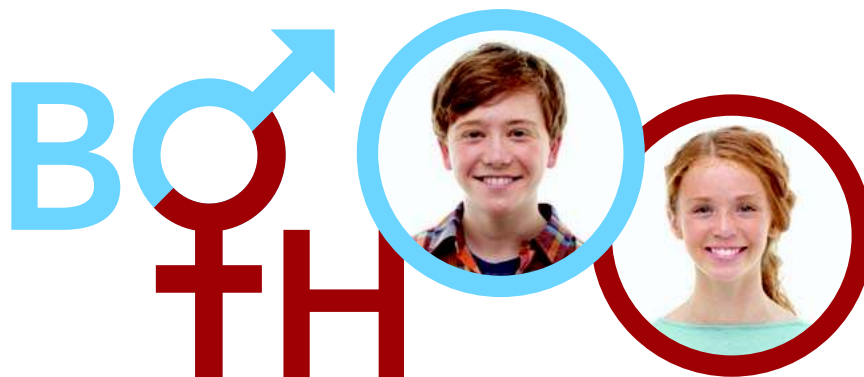
The building that resulted uses a quarter of the energy of an average school. Geothermal pumps, which rely on the earth's steady underground temperatures, supply the heating and cooling. Solar tubes reduce the need for artificial lights. Sensors detect when a room is occupied (and by how many people) and adjust lighting and ventilation accordingly. The kitchen uses steam convection ovens rather than deep-fat fryers, which saves electricity and results in healthier food. And 2,700 rooftop solar panels produce enough power to allow the district to sell excess energy back to the grid.

But what really makes Richlandville Elementary stand out—beyond the sunlit corridors and cutting-edge technology—is how conservation is woven into the fabric of everyday learning. Geothermal temperature gauges are exposed for children to monitor. So is a pipe that collects rainwater

The CDC now also recommends routine vaccination for boys 11–12 years old.

Boys can be affected by HPV disease too.

GARDASIL HELPS PROTECT BOTH YOUR SON AND DAUGHTER.



When it comes to human papillomavirus (HPV), females are only half the equation. There are 30 to 40 types of HPV that will affect an estimated 75% to 80% of males and females in their lifetime. For most, HPV clears on its own. But, for others who don't clear certain types, HPV could cause cervical cancer in females and other types of HPV could cause genital warts in both males and females. And there's no way to predict who will or won't clear the virus.

GARDASIL is the only HPV vaccine that helps protect against 4 types of HPV. In girls and young women ages 9 to 26, GARDASIL helps protect against 2 types of HPV that cause about 75% of cervical cancer cases, and 2 more types that cause 90% of genital warts cases. In boys and young men ages 9 to 26, GARDASIL helps protect against 90% of genital warts cases.

GARDASIL may not fully protect everyone, nor will it protect against diseases caused by other HPV types or against diseases not caused by HPV. GARDASIL does not prevent all types of cervical cancer, so it's important for women to continue routine cervical cancer screenings.

GARDASIL does not treat cervical cancer or genital warts. **GARDASIL is given as 3 injections over 6 months.**

IMPORTANT SAFETY INFORMATION

Anyone who is allergic to the ingredients of GARDASIL, including those severely allergic to yeast, should not receive the vaccine. GARDASIL is not for women who are pregnant.

The side effects include pain, swelling, itching, bruising, and redness at the injection site, headache, fever, nausea, dizziness, vomiting, and fainting. Fainting can happen after getting GARDASIL. Sometimes people who faint can fall and hurt themselves. For this reason, your child's health care professional may ask your child to sit or lie down for 15 minutes after he or she gets GARDASIL. Some people who faint might shake or become stiff. This may require evaluation or treatment by your child's health care professional.

Only a doctor or health care professional can decide if GARDASIL is right for your child.

You are encouraged to report negative side effects of prescription drugs to the FDA. Visit www.fda.gov/medwatch or call 1-800-FDA-1088. Please read the Patient Information on the next page and discuss it with your child's doctor or health care professional.

Talk to your child's doctor about GARDASIL.



gardasil.com

1-800-GARDASIL

GARDASIL®
[Human Papillomavirus Quadrivalent
(Types 6, 11, 16, and 18) Vaccine, Recombinant]

Having trouble paying for your Merck medicine? Merck may be able to help. Visit merck.com/merckhelps.

VACC-1019194-0004 03/12

**Patient Information about
GARDASIL® (pronounced "gard-Ah-sill")**

Generic name: [Human Papillomavirus Quadrivalent (Types 6, 11, 16, and 18) Vaccine, Recombinant]

Read this information with care before getting GARDASIL.¹ You (the person getting GARDASIL) will need 3 doses of the vaccine. It is important to read this leaflet when you get each dose. This leaflet does not take the place of talking with your health care provider about GARDASIL.

What is GARDASIL?

GARDASIL is a vaccine (injection/shot) that is used for girls and women 9 through 26 years of age to help protect against the following diseases caused by Human Papillomavirus (HPV):

- Cervical cancer
- Vulvar and vaginal cancers
- Anal cancer
- Genital warts
- Precancerous cervical, vaginal, vulvar, and anal lesions

GARDASIL is used for boys and men 9 through 26 years of age to help protect against the following diseases caused by HPV:

- Anal cancer
- Genital warts
- Precancerous anal lesions
- The diseases listed above have many causes, and GARDASIL only protects against diseases caused by certain kinds of HPV (called Type 6, Type 11, Type 16, and Type 18). Most of the time, these 4 types of HPV are responsible for the diseases listed above.
- GARDASIL cannot protect you from a disease that is caused by other types of HPV, other viruses, or bacteria.
- GARDASIL does not treat HPV infection.
- You cannot get HPV or any of the above diseases from GARDASIL.

What important information about GARDASIL should I know?

- You should continue to get routine cervical cancer screening.
- GARDASIL may not fully protect everyone who gets the vaccine.
- GARDASIL will not protect against HPV types that you already have.

Who should not get GARDASIL?

You should not get GARDASIL if you have, or have had:

- an allergic reaction after getting a dose of GARDASIL.
- a severe allergic reaction to yeast, amorphous aluminum hydroxyphosphate sulfate, polysorbate 80.

What should I tell my health care provider before getting GARDASIL?

Tell your health care provider if you:

- are pregnant or planning to get pregnant. GARDASIL is not recommended for use in pregnant women.
- have immune problems, like HIV infection, cancer, or you take medicines that affect your immune system.
- have a fever over 100°F (37.8°C).
- had an allergic reaction to another dose of GARDASIL.
- take any medicines, even those you can buy over the counter.

Your health care provider will help decide if you should get the vaccine.

How is GARDASIL given?

GARDASIL is a shot that is usually given in the arm muscle. You will need 3 shots given on the following schedule:

- Dose 1: at a date you and your health care provider choose.
- Dose 2: 2 months after Dose 1.
- Dose 3: 6 months after Dose 1.

Fainting can happen after getting GARDASIL. Sometimes people who faint can fall and hurt themselves. For this reason, your health care provider may ask you to sit or lie down for 15 minutes after you get GARDASIL. Some people who faint might shake or become stiff. This may require evaluation or treatment by your health care provider.

Make sure that you get all 3 doses on time so that you get the best protection. If you miss a dose, talk to your health care provider.

Can other vaccines and medications be given at the same time as GARDASIL?

GARDASIL can be given at the same time as RECOMBIVAX HB® [hepatitis B vaccine (recombinant)] or Menactra [Meningococcal (Groups A, C, Y and W-135) Polysaccharide Diphtheria Toxoid Conjugate Vaccine] and Adacel [Tetanus Toxoid, Reduced Diphtheria Toxoid and Acellular Pertussis Vaccine Adsorbed (Tdap)].

What are the possible side effects of GARDASIL?

The most common side effects with GARDASIL are:

- pain, swelling, itching, bruising, and redness at the injection site
- headache
- fever
- nausea
- dizziness
- vomiting
- fainting

There was no increase in side effects when GARDASIL was given at the same time as RECOMBIVAX HB [hepatitis B vaccine (recombinant)].

There was more injection-site swelling at the injection site for GARDASIL when GARDASIL was given at the same time as Menactra [Meningococcal (Groups A, C, Y and W-135) Polysaccharide Diphtheria Toxoid Conjugate Vaccine] and Adacel [Tetanus Toxoid, Reduced Diphtheria Toxoid and Acellular Pertussis Vaccine Adsorbed (Tdap)].

Tell your health care provider if you have any of the following problems because these may be signs of an allergic reaction:

- difficulty breathing
- wheezing (bronchospasm)
- hives
- rash

Tell your health care provider if you have:

- swollen glands (neck, armpit, or groin)
- joint pain
- unusual tiredness, weakness, or confusion
- chills
- generally feeling unwell
- leg pain
- shortness of breath
- chest pain
- aching muscles
- muscle weakness
- seizure
- bad stomach ache
- bleeding or bruising more easily than normal
- skin infection

Contact your health care provider right away if you get any symptoms that concern you, even several months after getting the vaccine.

For a more complete list of side effects, ask your health care provider.

What are the ingredients in GARDASIL?

The ingredients are proteins of HPV Types 6, 11, 16, and 18, amorphous aluminum hydroxyphosphate sulfate, yeast protein, sodium chloride, L-histidine, polysorbate 80, sodium borate, and water for injection.

This leaflet is a summary of information about GARDASIL. If you would like more information, please talk to your health care provider or visit www.gardasil.com.

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for nourishing a garden. There are hallway displays

about solar power and recycling, and even first graders can explain how renewable energy works. Warren County is doing more than saving money and keeping kids healthy—it's producing students who are literate about environmental issues before reaching puberty.

That's a lesson many communities can learn: Building first-class schools is a massive undertaking, but there are creative ways to do it affordably. Once a



ON THE COVER

Lego artist Sean Kenney used a whopping 1,453 bricks to



build our school. Scan this code to watch a video of Kenney at work.

district makes the commitment, it might discover that better buildings not only help students learn—they help them dream.

Last school year, in the evenings, Carter Ford would build Lego cities in his bedroom, with restaurants and airports and curving glass windows. He turned to his own school for ideas—creating a skylight, for example, modeled after the solar tubes in the classrooms. He'd walk through the halls of Richardsville Elementary, gleaning ways to make his own cities more energy-efficient. Then Ford would go home and fine-tune his creation. "It's amazing," he says, "how much this building can inspire you." **P**

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