# Human papillonmavirus: The silent epidemic

In the shadow of the current AIDS crisis lurks an equally tenacious vi-

s. It's infecting the national popula-It's infecting the national popula-tion at epidemic levels, yet evading the limelight of public recognition. Its name is Human Papilloma-virus, or HPV. The National Institute of Allergy

The National Institute of Allergy and Infectious Disease estimates that the virus afflicts 3 million Americans annually. However, three Seattle doctors put the infection rate at more than 12 million in a recent study published by Johns Hopkins School of Hyglene and Public Health. Even that flagure assumes current standard testing procedures detecting the Spectar of the infections.

Even that figure assumes current standard testing procedures detect only 50 percent of the infections caused by the virus. Research began in the 1960s, when the virus was found in abnormal Pap smears, a cancer screening test for women. More recent research has recluded even stronger, evidence women. More recent research has produced even stronger evidence linking the virus to cancers of both maile and female reproductive systems. It also can cause respiratory and laryngeal problems in children whose mothers have passed the virus to them at birth.

Despite almost three decades of research, there is an alarming public

much needed light on HPV.

Working on HPV and its relationship to genital cancers are Richard Reid, a medical doctor and director of the Cervical and vulvar Psyplasia Clinic of Sinal Hospital in Detroit, Samuel Rosemberg, a medical doctor with the departments of urology at Harper-force Hospitals, and Mitchell Greenberg, a medical doctor and clinical coordinator of the Richard Reid Foundation for Cervical Cancer Research, and Histopathology Associates, P.C., a pathology laboratory dealing extensively in HPV cases.

There are 56 known strains of HPV; only sir have been implicated inconcerns the seem in the production of HPV to cervical cancer in women has recently become even more clear.

"HPV is found in 95 percent of

cent of the tumors blopaied. And even though the risk of HPV-related cancer is greater in women, the virus also poses a very real risk to men as well, Rosemberg said.

We have seen cancer of the penis and one case of cancer of the penis and one case of cancer of the penis of the cause, so it is a danger for a man to have an HPV infection, expectally if they have a cancer-causing type of virus," asid Rosemberg.

Although an IPV infection, expectally incurable to the control of the c

"THE MORE WE learn about HPV, the more we understand how cancers are initiated and promoted," he said.
"HPV seems to be an initiator. It gives a cell the potential to become cancerous.
"Whether it actually goes on to become cancer might take other factors. Smoking, bacterial infections and herrose increases the carcinogen.

how an HPV infection will "take." People whose immune systems have been weakened from other treat-ment processes and/or diseases, such as AIDS, diabetes and chemoth-erapy, will be affected much more dramatically. Pregnant women also are at a much higher risk, according to Reld.

to Reid.

Teople have a certain amount of natural immunity toward the virus according to Herman, who holds a dectorate in research. Blopsies have shown "a very strong host reaction to the invading virus, he said.

"We see white blood cells and plasma cells there (in blopsies) which implies that antibodies are being made," Herman said. "In other words, the body is flighting off the virus."

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rus."

But even with an immune system
that is in good working condition,
once you've contracted HPV, it's
yours for life. The active stage of the
virus — obvious, raised warts —
isn't constant.

"WE DON'T know if we can make people non-infectious by treating them," Greecherg said. "We treat people because no one wants warts and because of their malignant potential. You can't cure it, if it persists for life, but we can drive it back into remission."
The specialists are using a page 41.

sists for life, but we can drive it back to remission." Can drive it back to remission."

The specialists are using a new fignostic tool, ViraPap, recently approved by the Food and Drug Administration. ViraPap is a nucleic acid probe that permits study of the virus 'DNA (gentic makeup). Use of the probe results in a more accurate diagnosis of the presence of HPV in patients who have an inobvicus (not visible to the human eye in the form of a wart) infection. The Johns hopkins' study reported that an additional 7 percent of HPV infections have been detected as a result of using such DNA probes.

It is believed that the involveus level of the HPV infections is moved to the HPV infection in the parameter of the parameter in the problem of the parameter in the problem of the parameter is and don't take precautions to prevent its transmission to others.

"On a typical day, we will reader

tions to prevent its transmission to others.

"On a typical day, we will render a diagnosis on about 30 people who have just walked into either their urologist or gynecologist and found they have the inobvious HPV infection," Herman said.

"This means these people have the potential to develop condylomas (the raised, obvious warts) or dysplasia for precancerous condition," he said

The ViraPap probe is used on patent blopsy specimens taken during urological or gynecological exams to determine if the HPV DNA is present.

THE PROBE was developed at Bethesda (Md.) Research Laboratories Life Technologies under the direction of Attilla Lorines, a chemist who holds a doctorate in research worked exclusively with Neid. They were able to isolate the virus, the clone it by producing a mirror image of fiscil — the Virare probbody. Explaining how the probe Explaining how the probe the proposed of the control of the probability, and the the probability and the virus expectation at the cities of the cities of the cities of the probability and the probability and the probability of t

Among the researchers

Farmington Hills resident Dr. Samuel Rosenberg is an author and co-author of numerous publications related to Human Papillottawirus, or HPV. The researcher is a native of Mexico City, member of several local and national medical societies and has spoken on the subject of HPV and laser surgery techniques at conferences throughout the U.S. and Argentina.



HPV is present, the probe washes

"The Virel'ap procedure is another filt of information the clinician needs to know," Greenberg said. "Its screens for the seven most common HPV types. If the Virel'ap is positive, viral typies should then be done to specify exactly which HPV type is present."

present."
The basic ViraPap screening costs 530. If viral typing is included, the focal cost is \$20.0 currently, neither the ViraPap or the viral typing are covered by most health insurances.
Depending on the level of infection, the chronic nature of the virus frequently requires treatments, such

as weekly applications of a 5-FU (cream), laser surgery for advanced or stubborn warts, or Interferon injections.

jections.

With the ViraPap probe, better screening technology for HPV infections is now available. However, some HPV exposed individuals will slip through even this comprehensive screening by ignoring basic preventative measures (use of condoms, limiting sexual partners and exams at regular intervals).

For that group of people, the risk of developing cancer and/or other complications from an HPV infection is much greater.

## Band's May concert is A Family Affair

The Farmington Community Band proudly presents "A Family Affair," honoring senior citizens and the handicapped, at 3 p.m. Sunday, May 7, in the Harrison High School sudictium.

The annual program will have residents from 15 area oursing homes as special guests. Seniors from throughout the community are encouraged to attend.

"We are policy grateful for "We are deportation of so many organizations who give of their time to make this concert possible," said band director Paul Barber.

The concert is given in coopera-

tion with the Farmington Public Schools and the Farmington Area Arts Commission. Nardin Park Boy Scoul Troop 389 will provide assist-ance to the honored guests. Lloyd Smith will be coordinating Riwanis Club volunteers who serve as bus chaperones.

Club volunteers who serve as our chaperones.

The concert is designed for the family, Music will include selections from "The Sound of Music," famous father and son composers Johann and Richard Strauss and many other layorites.

favorites.

In keeping with tradition, homemade goodies will be served to all. Admission is complimentary.

### 'Masks' wins for Judy Gresser

Juror Linda Mendelson (at left) compliments which won first prize in Farmington Artists Judy Gresser on her work called "Masks," Club's spring show.

Of the 100 works of Farmington Artists Club members that went up for judging this month, Judy Gressricox the first prize for "Masks."

Juror Lina Mendelson called the work "spiritual."

"It breathes, it lives. There is a wonderful use of color, line, grids, a tettle sense that all combines to create a very mystical image," Mendelson said.

Second place went to Gwen Tomkow for "Duose Patterns." Third place was taken by Edee Joppich for "Painter's Hollday." Fourt place went to Tom Hall for "Books."

The works are all on display now in the club's spring exhibit, which continues through Saturday in Nardin Park United Methodist Church, I Mille west of Middlebell.

Show hours are 10 a.m. to 9 p.m. today and Friday and 10 a.m. to 3

stimulate interest in the creative arts in the community.

The Farmington Art Foundation was instituted in 1973 to provide pro-grams for the education of art in the community.

In addition to the works in the spring show's juried gallery, another several hundred will be on display

several hundred will be on adjus-for purchase.

Mendelson said of the exhibit,
"This show is full of very unique im-agery. Subject matter is bandled with insight. I'm impresed with the techniques that are utilized by the

artists.
"I feel fortunate to have seen this

"I feel fortunate to nave seen this body of work."

Mendelson gave honorable men-tions to Evanthia Samra, Comie Lu-cas, Jeanne Ozment, Lena Massara, Alice Nichols, Elleen Bibby and Don-

### She is Perfect Teen

Chrysoula Mello has been crowned Miss Periect Teen of Michigan. She is the daughter of Mr. and Mrs. James Mello, a member of Holy Cross Greek Orthodox Church in Farmington Hills and a student at Mercy High School.

She is an active member of the church's youth organization and a teacher's assistant in the Sunday School program.

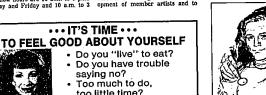
Chrysoula will represent Michigan in the national Perfect Teen Pageant in North Carolina this fall.

### Registration open for tots

Nardin Park Community Nursery
School is a non-profit state licensed
accredited nursery school for 3- and
4-year-olds. Openings are still availcrezymki at 553-0812.

For information call Carol Ski-erczynski at 553-0812.





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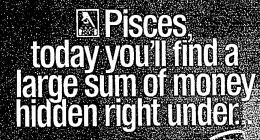


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