

# From Ugly Ducklings to Swan Tales: Innovative Storytelling for Cervical Cancer Awareness Month

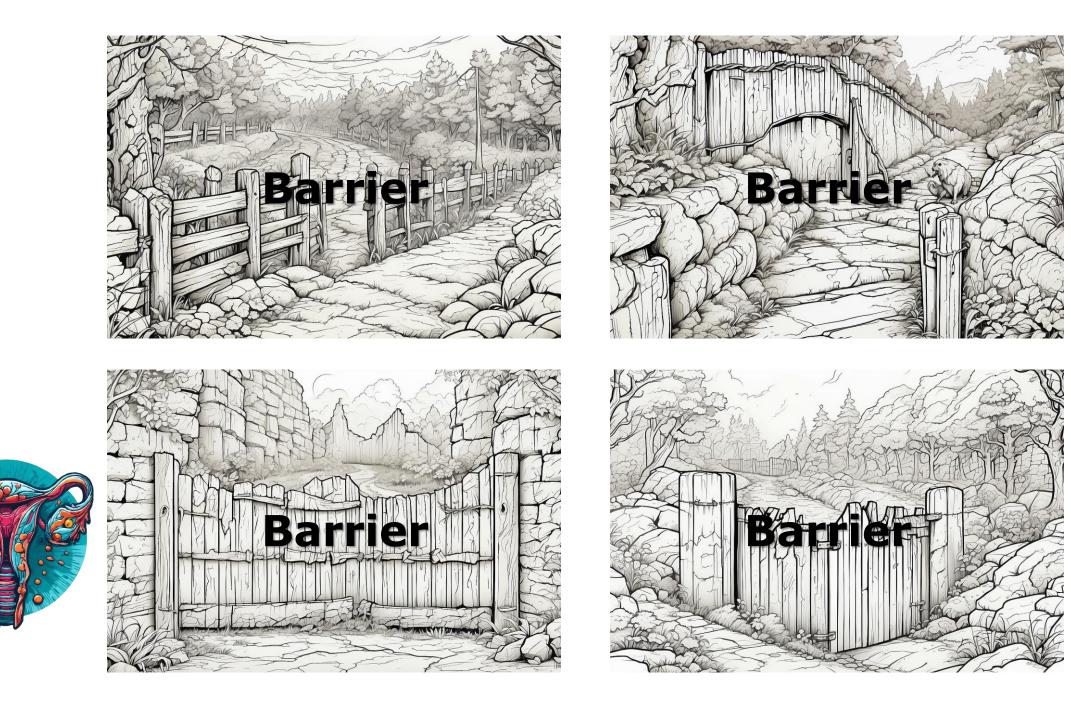




"In the tapestry of awareness campaigns -including health literacy campaigns- comics are the 'Ugly Ducklings,' often overlooked by health experts. But much like that misunderstood duckling blossomed into a majestic swan, comics surpass traditional methods in crafting compelling tales for **cervical cancer** awareness."

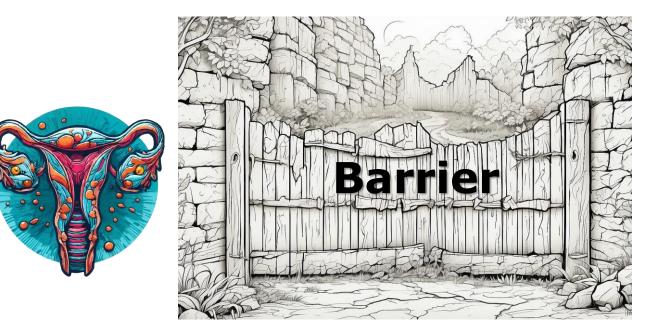








#### Complexity and Jargon





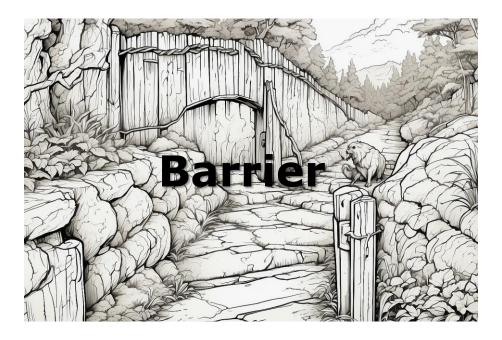


#### **Cultural barriers**







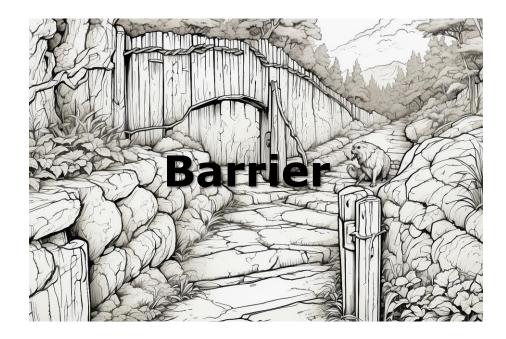




#### Insufficient Public Engagement and Science Communication









#### Educational System Constraints

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#### **Educational System Constraints**

- Lack of student engagement
- Memorization-based learning
- Insufficient focus on fostering curiosity

#### Solutions:

- \* Incorporate interactive methods
- \* Promote critical thinking
- \* Make science relevant and interesting





#### Insufficient Public Engagement and Science Comm.

Training and tools v

Data 🗸

Is the HPV vaccine safe?

HPV is the most common sexually transmitted infection that may lead to cancer. There is however a safe and effective way to protect yourself from HPV - a vaccine.

Read more >



**HPV** Factsheet

Analysis and guidance 🗸

Get the facts on HPV, its symptoms, how it spreads and how you can protect yourself and those around you.

Read more >



About ECDC V

HPV vaccine: don't get misguided - check the FACTS!

Are you having second thoughts about getting the HPV vaccine?

Read more >



# EMA medical terms simplifier

Plain-language description of medical terms related to medicines use



#### World Health Organization





**Cervical cancer** 

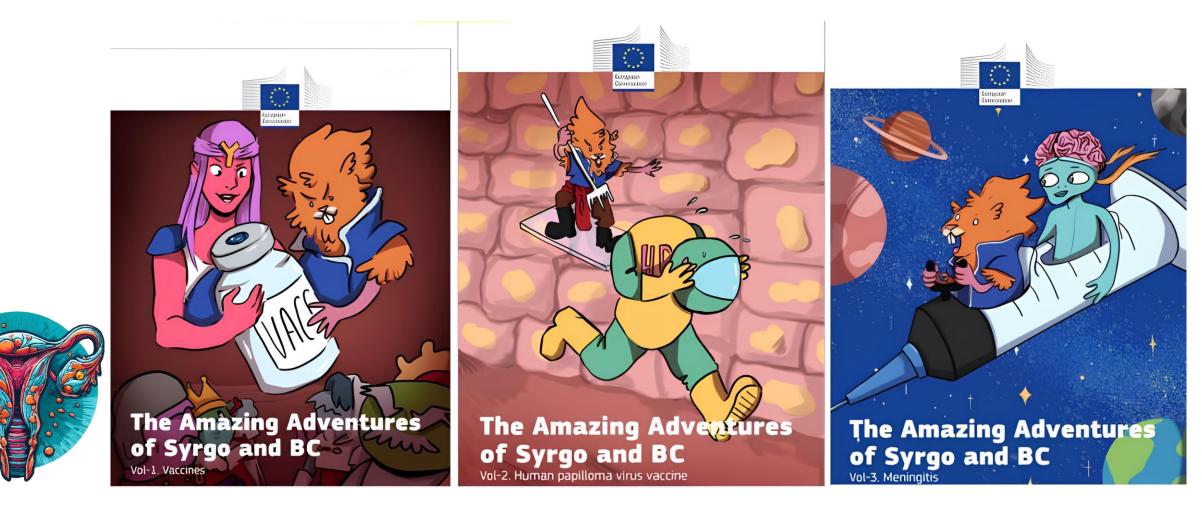


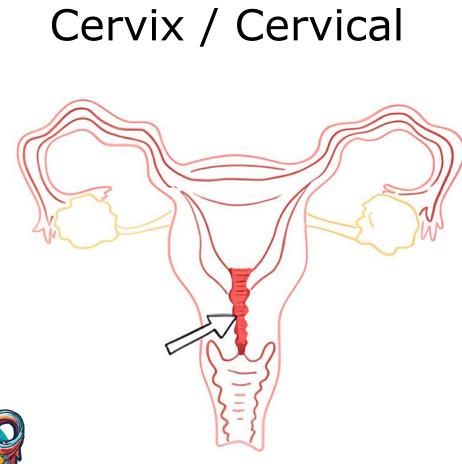
#### **Cultural Sensitivity in Science**



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#### Simplification and Clarity from now on. Goodbye, Complexity and Jargon!

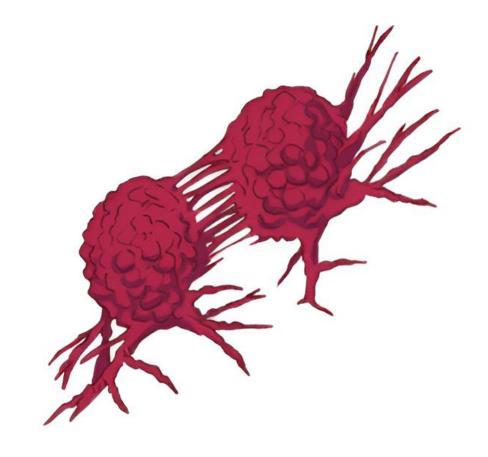








- the neck of the uterus.



#### GANGER

 a large group of diseases that can start in almost any tissue or organ of the body when abnormal cells grow uncontrollably. It can go beyond its usual location and spread to other tissue and/or organs.

#### SciComics: Elements, Challenges, Success

What are the **key elements** for a successful scicomics? What challenges are

- Before
- During, and
- After making the books?





#### Before

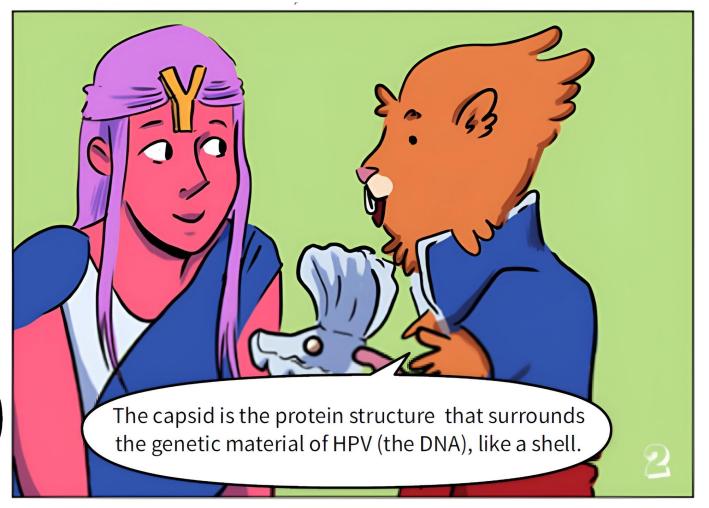
- engaging visuals,
- accurate information,
- a compelling narrative, and
- a balance between entertainment and education.





- simplifying complex concepts,
- ensuring accuracy, and
- maintaining a captivating storyline



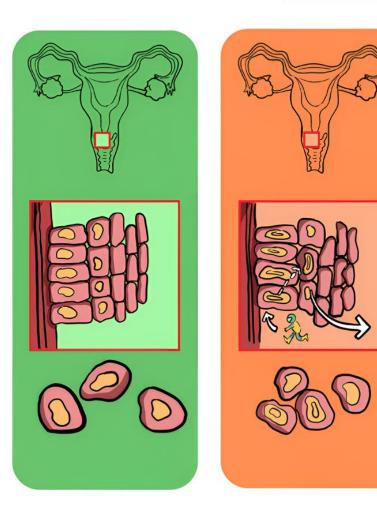


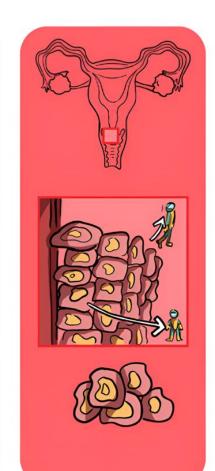
# The Amazing Adventures of Syrgo and BC

Vol-2. Human papilloma virus vaccine

- simplifying complex concepts,
- ensuring accuracy, and
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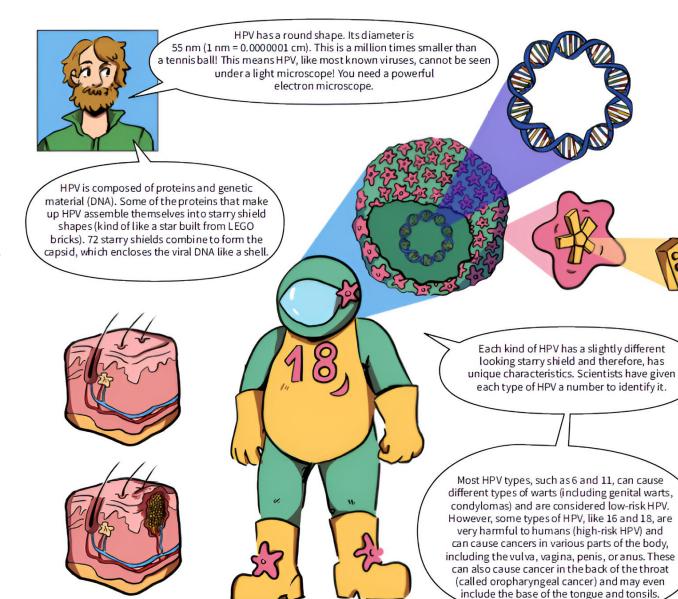






- simplifying complex concepts,
- ensuring accuracy, and
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HPV

In fact, he had read about the discovery by another

virologist, an American, Richard Shope. Shope found that

a certain type of papillomavirus infection had caused warts to

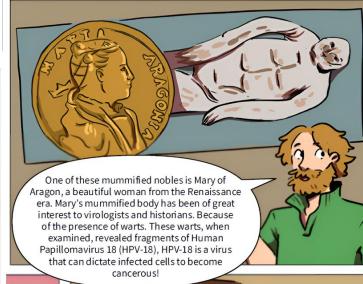
become cancerous in rabbits. So, he asked himself: "If Shope's

rabbit papillomavirus can lead to the formation of warts which

can develop into cancer, can human papillomavirus behave

similarly?" He started his journey from there.







- simplifying complex concepts,
- ensuring accuracy, and
- maintaining a captivating storyline



#### After

- Hurdles in promoting and reaching the target audience.
- Essential for staying current with scientific advancements post-release.





#### **Addressing Myths**



#### **Addressing Myths**



\* Efficacy - the ability, especially of a medicine or a method of achieving something, to produce the intended result

#### **Addressing Myths**



#### **Measuring outcomes**

- "Overall, the majority of students (15 yo) agreed that the comics were
- *interesting* (72%), *fun* (60%),
- *important (83%), and amusing (52%).*
- Nearly <u>90%</u> said the comics were somewhat or very easy to understand.
- About 20% thought they were boring, and
- about 10% found them confusing.
- A minority of students (7-16%) questioned the accuracy of the comics' health and science information.



- (89%) indicated that they might or would recommend comics to a friend,
- About 80% of students indicated that they would want to read more."\*

\*Diamond ,J,et al. Developing Pandemic Comics for Youth Audiences. J STEM Outreach. 2021

#### **Pros of Using Comics to Teach Science:**

- **1.Visual Engagement:** Comics use visuals to convey information, making scientific concepts more engaging and accessible to visual learners.
- **2.Storytelling:** The narrative structure of comics can create a compelling storyline around scientific topics, enhancing understanding and retention.
- **3.Multimodal Learning:** Combining text and visuals supports multimodal learning, catering to different learning styles and reinforcing understanding.
- **4.Accessibility:** Comics can simplify complex scientific ideas, making them more accessible to a broader audience, including students with diverse learning abilities.



**5.Memory Retention:** The combination of images and text in comics can aid memory retention, helping students remember and recall scientific information more effectively.

### **Cons of Using Comics to Teach Science**

- **1.Simplification:** While simplification can aid understanding, it may also lead to oversimplification, potentially misrepresenting complex scientific concepts.
- **2.Limited Detail:** Comics may not provide the depth of detail found in traditional science textbooks, potentially leaving out crucial information.
- **3.Perceived Lack of Rigor:** Some educators and students may perceive comics as less rigorous or academic compared to traditional instructional materials.
- **4.Time Constraints:** Integrating comics into science education may require additional time for both teachers and students, potentially impacting the coverage of the curriculum.



**5.Resource Availability:** Access to quality educational comics may be limited, and creating or obtaining suitable materials can be a challenge for educators.

# **Collaboration Opportunities**

- potential collaboration between public health experts and comic creators.
- cross-disciplinary efforts for impactful outcomes.



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# Conclusion \* key points



Comics utilize visuals to make scientific concepts engaging and accessible for visual learners.



The narrative structure of comics enhances understanding and retention of scientific topics through compelling storylines.



Comics simplify complex scientific ideas, ensuring accessibility for a diverse audience, including students with different learning abilities.



Comics may **not** interest everyone and should complement other communication channels,



We need to examine how the comics influenced youth understanding and interest in the vaccines, virology, and infectious disease.





# Feel welcome to throw a question!

#### This comic series, created in collaboration with ZN Consulting Agency, received funding and oversight from DG SANTE within the European Commission in 2022-2023.





European Commission

Directorate-General for Health and Food Safety Unit B3 – Health monitoring and cooperation, Health networks Luxembourg @EU Health #EUHPP



#### References

- 1) Diamond J, Spiegel A, Hill TW, VanWormer E, Gaiashkibos J, Hall B, Sutherlen A, McQuillan J. Developing Pandemic Comics for Youth Audiences. J STEM Outreach. 2021 Jul;4(2):10.15695/jstem/v4i2.03. doi: 10.15695/jstem/v4i2.03. Epub 2021 Jul 19. PMID: 34532652; PMCID: PMC8443080.
- 2) Consorti F, Fiorucci S, Martucci G, Lai S. Graphic Novels and Comics in Undergraduate and Graduate Medical Students Education: A Scoping Review. Eur J Investig Health Psychol Educ. 2023 Oct 16;13(10):2262-2275. doi: 10.3390/ejihpe13100160. PMID: 37887161; PMCID: PMC10606189.
- 3) Masel EK, Kitta A, Koblizek R, Praschinger A. Using medical comics to highlight medical humanities. Med Educ. 2020 Nov;54(11):1049-1050. doi: 10.1111/medu.14308. Epub 2020 Sep 22. PMID: 32959385; PMCID: PMC7702034.



4) **Green MJ,** Myers KR. Graphic medicine: use of comics in medical education and patient care. BMJ. 2010 Mar 3;340:c863. doi: 10.1136/bmj.c863. PMID: 20200064.

5) **European Commission,** Directorate-General for Health and Food Safety, Nasif Obeid-Adorisio, S., *The amazing adventures of Syrgo and BC. Vol-2, Human papilloma virus vaccine*, Publications Office of the European Union, 2023, <u>https://data.europa.eu/doi/10.2875/871476</u>