

How to Integrate Research into a Busy Practice?!



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Conflict of interest

- None

Objectives

- 1 | **Identify** barriers to research integration in oncology pharmacy and patient care impact
- 2 | **Analyze** workflow limits and benefits of a Lean model
- 3 | **Apply** the **F.I.V.E²** model to small-scale research
- 4 | **Evaluate** research impact on workflow, patients, and team engagement
- 5 | **Explore** oncology pharmacy research during COVID-19 and key takeaways

Progress is made
by answering
questions.

Discovery is made
by questioning
answers

BERNARD HAISCH

Agenda

How to Integrate Research into a Busy Practice?!

- 1 | Oncology Sector
- 2 | VUCA World
- 3 | Research into a Busy Practice : is it important?
- 4 | The key barriers ?!
- 5 | Linear Model Vs Lean Model
- 6 | The FIVE² approach
- 7 | Real-World Impact
- 8 | Conclusion

ONCOLOGY SECTOR : Risks +++



Vulnerability

- Polymedication,
- Immunodepression
- Etc...



Toxicity

- For patient
- Healthcare workers



Workload

- Increased significantly
- Emergence of new therapies
- Rising number of chemotherapy sessions



High-cost drugs

- Reimbursement
- Financial risks



VUCA WORLD : a world of constant Change



Volatile



Uncertain



Complex



Ambiguous

Chemotherapy compounding



Medication Reception and Storage



Dispensation

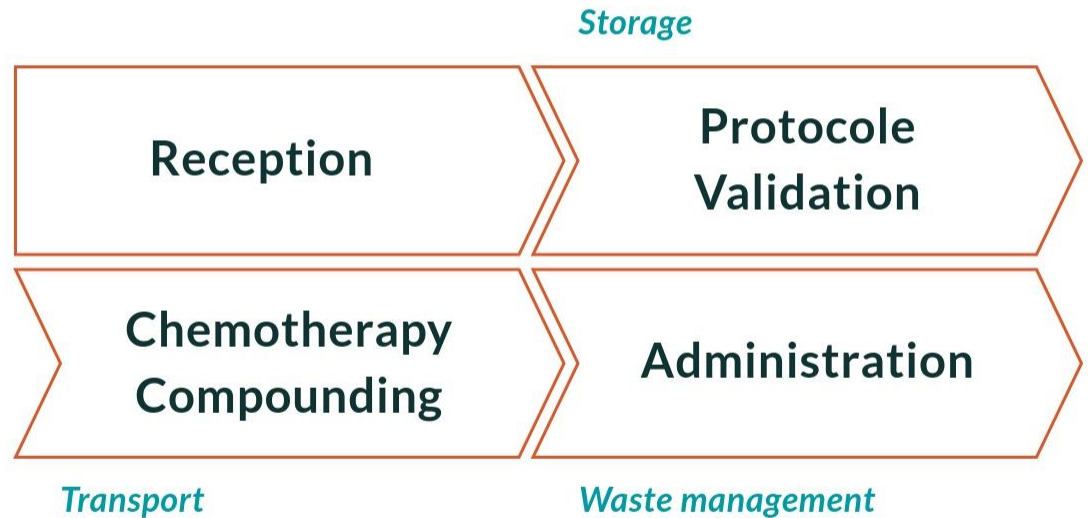
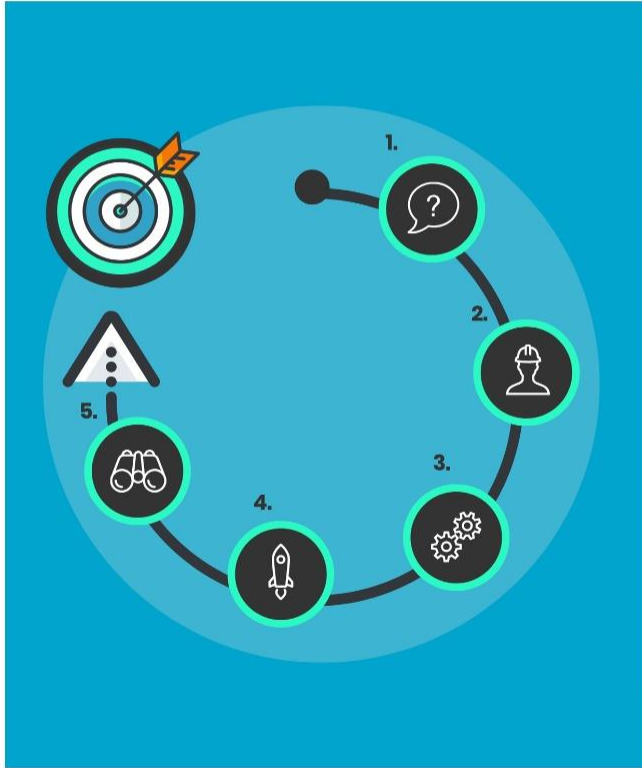


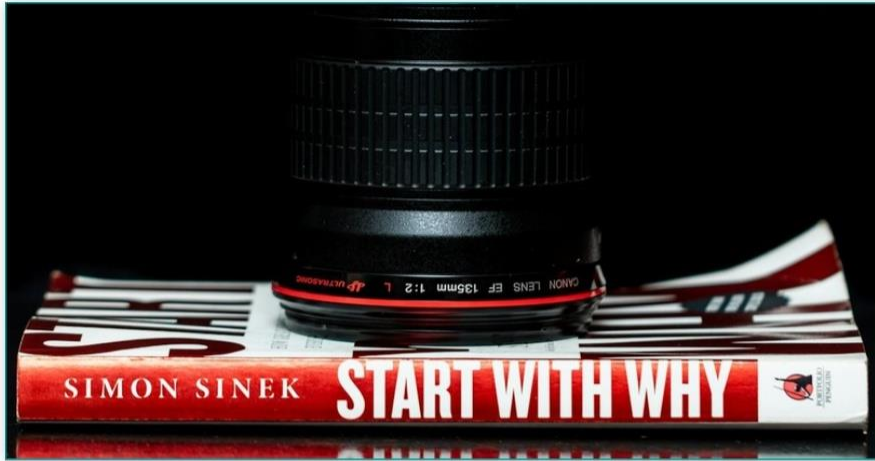
Clinical Pharmacy Practice



& More practice.....

CHEMOTHERAPY PROCESS +++





Why is it important
to integrate
research into a
Busy Practice?



Professional Development

1. Staying ahead in a rapidly evolving field
2. Boosting career opportunities
3. Professional recognition

Patient impact

1. Better patient outcomes
2. Evidence-based decisions
3. Reduce medical errors and adverse effects

Healthcare System Benefits

1. Attracting funding
2. Efficiency
3. Cost-effectiveness

Environmental Impact

1. Reducing Waste
2. Sustainable Practices
3. Reducing Carbon Footprint

Professional impact

1. Improving Safe Handling Practices
2. Understanding the Risks of Occupational Exposure



**What are the key
barriers to
incorporating research
into a busy practice ?**



key barriers to incorporating research into a busy practice



Lack of time

Healthcare professionals are often busy



Lack of resources

Funding, supporting staff...



Complexity of research

Expertise, methodology...



Lack of collaborations

Isolation in practice, communication...



Lack of specific training

Experience in research, clinical research,



Conflict of priorities

Pressure to provide high quality of care

The Workflow of Oncology Pharmacy Practice is : Linear

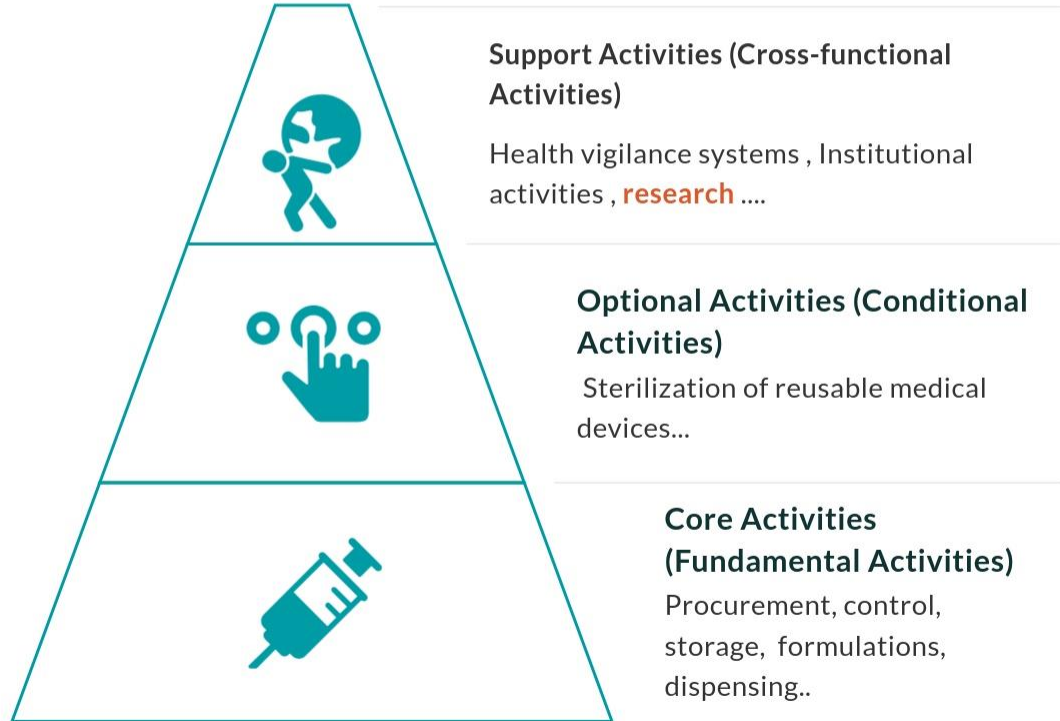
Research is seen as a secondary activity



The Workflow of Oncology Pharmacy Practice is : Linear

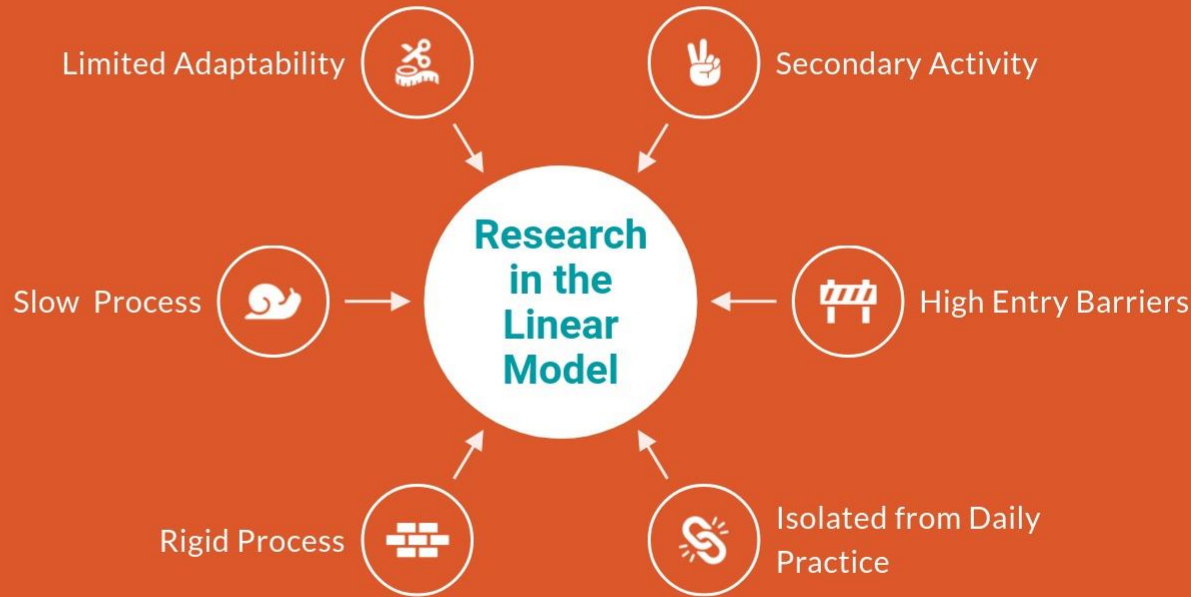
Where is Research in This Model?

- 1 | Research is **not integrated** into these core tasks
- 2 | It is considered an **extra responsibility**
- 3 | Oncology pharmacists are occupied with **operational and clinical responsibilities**





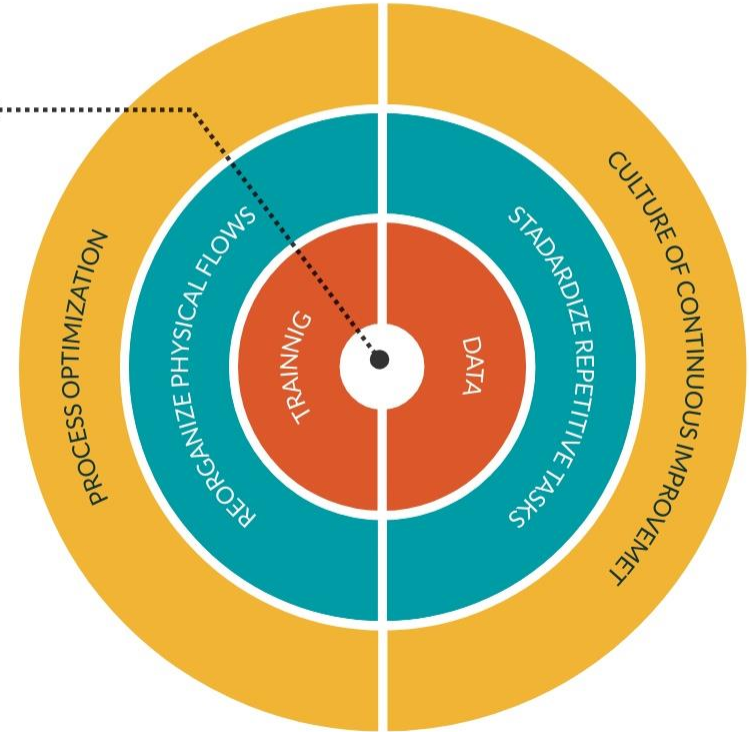
Challenges of Research in the Linear Model



Moving to the Lean Workflow Model

- Core of the model : Data & Training
- Optimization of the workflow : Standardization & Reorganization
- Long-term efficiency and adaptability

Health vigilance
Research



Linear Model Vs Lean Model

Comparison Between Linear & Lean Model

	Linear Model	Lean Model
Time Commitment	Requires years before results are applied	Can generate useful data in weeks
Accessibility	Requires funding, ethics approvals, and full protocols	Can be done within existing workflows
Flexibility	Rigid, difficult to change once started	Adaptable, can shift based on findings
Impact on Practice	Often disconnected from daily clinical work	Integrated into routine practice
Engagement of Practitioners	Extra work	Research becomes a part of daily decision-making

Moving to the Lean Workflow Model

F.I.V.E²

THE 5 AGILE RESEARCH
PILLARS

1 | **F**ast
Implementation

Min Viable Research

2 | **I**terative
Learning

Implement-Analyze-Refine

3 | **V**alue-Driven
Evidence

Rapid Evidence Generation

4 | **E**volutionary
Adaptation

Adaptive research shift

5 | **E**fficient
Research Design

How to Apply F.I.V.E² in Practice



A Lean Research Department Without Extra Resources

Use of a prospective risk analysis method to improve the safety of healthcare workers in oncology hospitals during the COVID-19 spread among cancer patients

Ouasrhir, Abdelali PhD, Hospital pharm^{a,b,c,*}; Rabie, Rahhali MD^c; Boukhatem, Nouredine Pr^d

Author Information 

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10.1097/OP9.000000000000025 

- Busy practice among COVID 19 spread
- Real-World Impact : Healthcare workers safety

Thanks to the F.I.V.E² methodology, we successfully established a research dynamic within our department, even during the peak of the COVID-19 crisis in 2020

Improving the safety of chemotherapy process by a risks management tool

Chemotherapy compounding in Oncology Center in Oujda (Morocco) *Ouasrhir et al, Ejop 2019*

- Chemotherapy compounding
- Improve safety of patient
- Environment protection
- Training the team on risk management tool

Table 2

Failure modes and comparative criticality indexes for the old and new chemotherapy compounding process.

Chemotherapy-compounding process (phases 1-5)	Failure mode	Criticality index		
		Old process	New process	Reduction factor (new/old)
Protocol validation	Prescription error (dose/route)	84	28	3.0
	Discordance between protocol and production sheet	108	54	2.0
	Patient identity error not detected	144	48	3.0
	Typing error during prescription	144	144	1.0
	Dose calculation error	288	48	2.0
Packaging and labeling	Error on the product label	128	32	4.0
	Poor packaging quality	168	28	6.0
	Illegible labeling	288	64	4.5
	No labeling	294	28	10.5
	Raw material unavailable	28	8	3.5
Raw materials preparation	Error in material preparation	72	24	3.0
	Expired drug	72	24	3.0
	Chemotherapy Production	Production error (dose/product)	128	32
Chemotherapy Production	Wrong rules of asepsis	128	32	4.0
	Poor production equipment	245	20	12.25
	Poor production room quality	392	48	8.16
	Chemical cross-contamination	448	48	9.33
	Control	Double check missing before delivery to the ward	448	16
Sum		3607	726	
Mean				5.9

Ouasrhir et al, Ejop 2019

Takeaway Message

Oncology sector : Busy practice !

Research In a busy sector is an opportunity !

Integrating research Into busy practice : Leadership & will

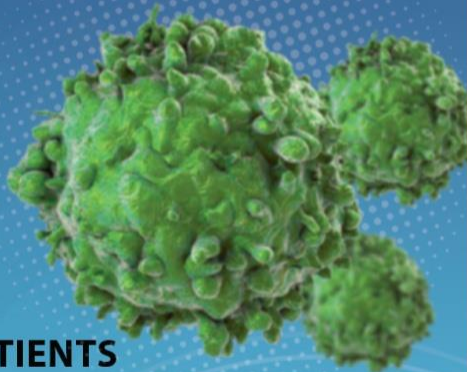
Lean workflow model is a key : The F.I.V.E² Approach





FAKE NEWS & CANCER

CHALLENGES
FOR HEALTH
PROFESSIONALS
AND IMPACT ON PATIENTS



9 AND 10 MAY 2025
MARRAKECH



Thank you