

Mind the Gap Between the Design and Administration of Oral Medicines for Older People

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Older People

European Union older population set to grow from 84 million (2008) to \approx 141 million (2050).

Generally accepted definition as chronological age of 65+ years.

United Nations refer to older persons as 60+ years.

'Frailty' has a bigger impact on required care and support.

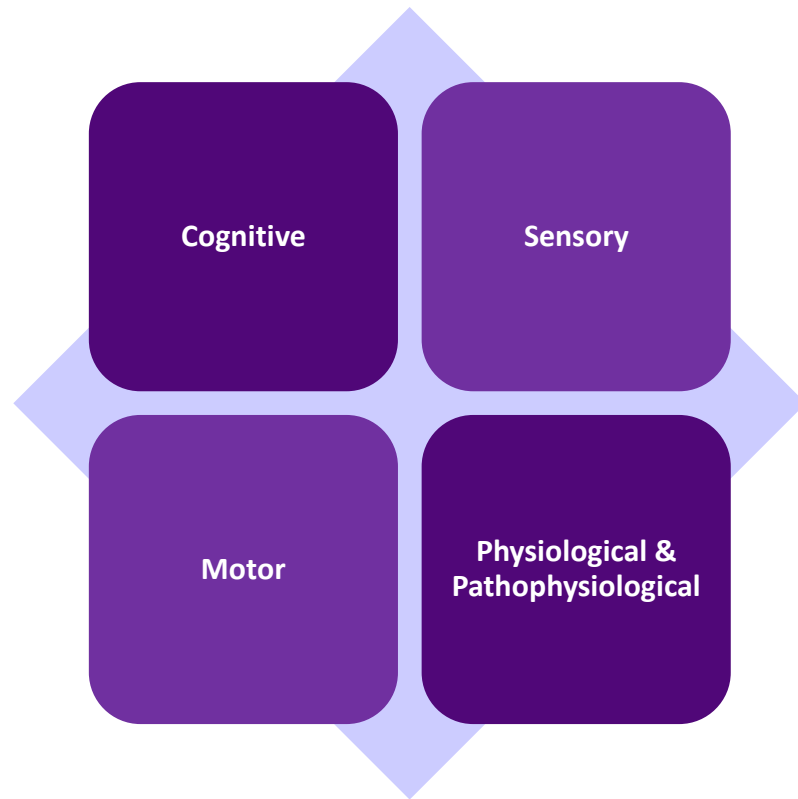


Older People

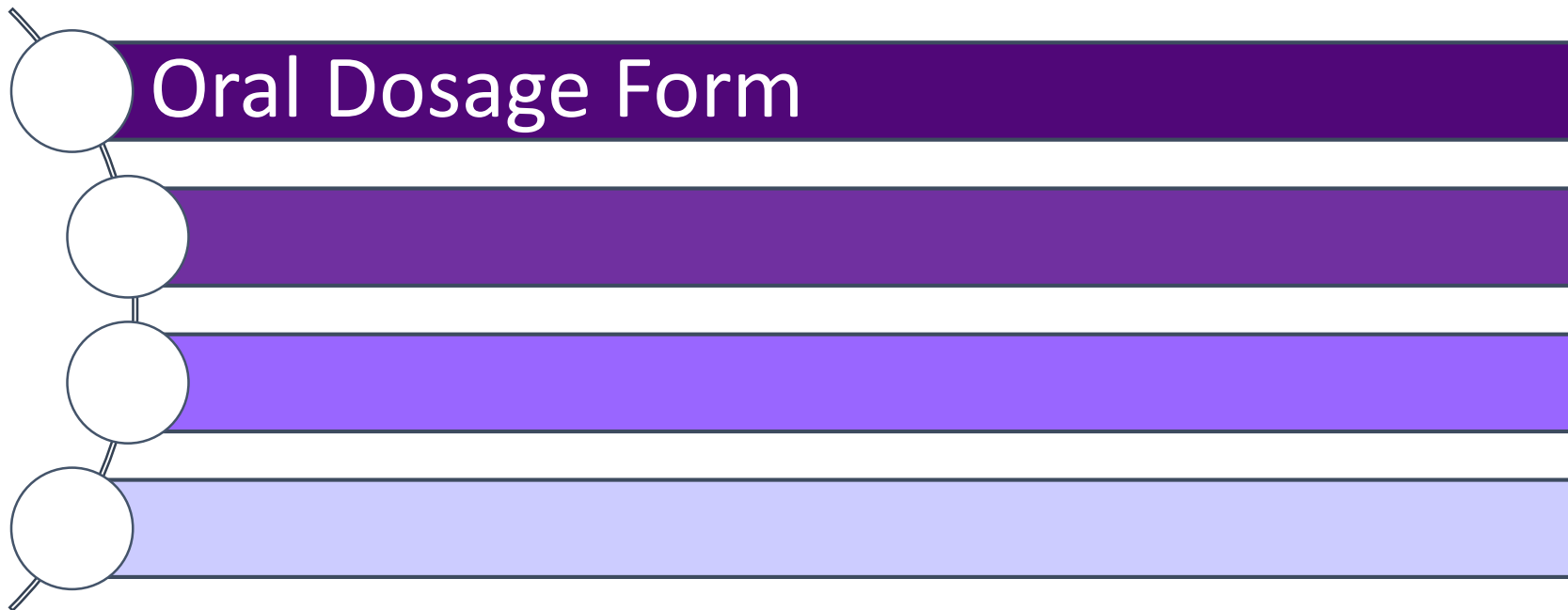
Decline in organ and body functions → physical, physiological and/or cognitive impairments, multi- and co-morbidities, and/or frailty.

Impairments start at different ages, occur in different orders, and worsen at different rates → same age, but can appear starkly different.

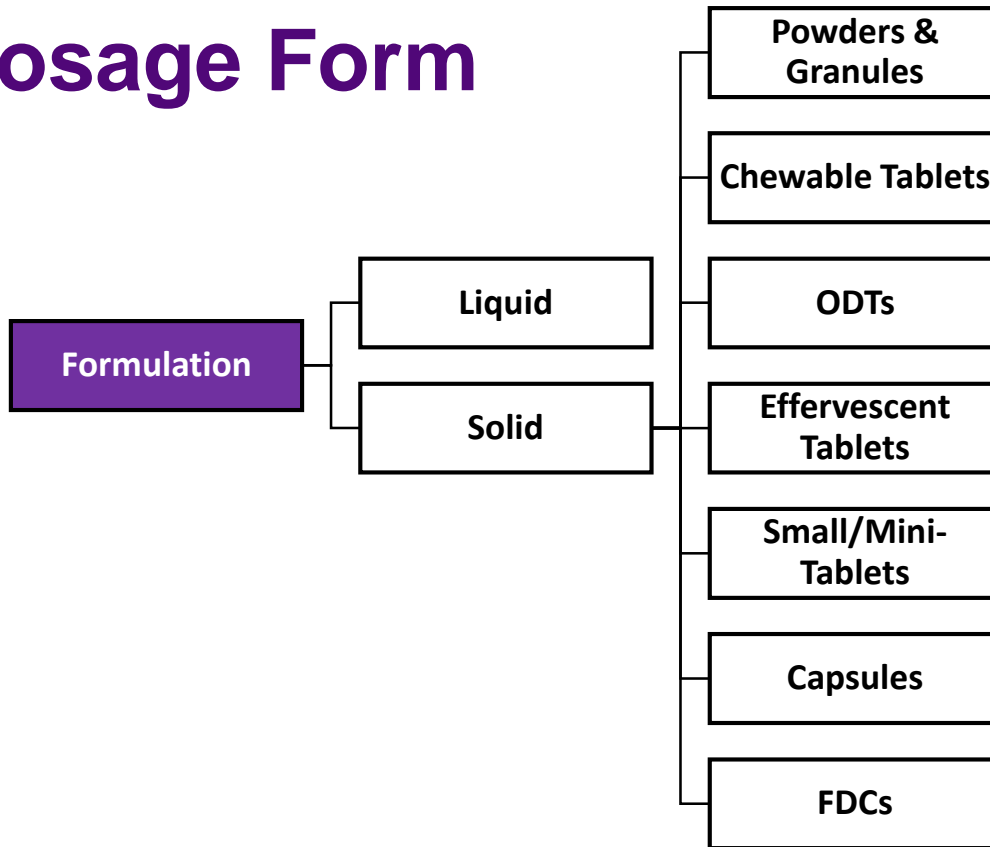
Majority users of many medicines and highest risk of encountering problems.



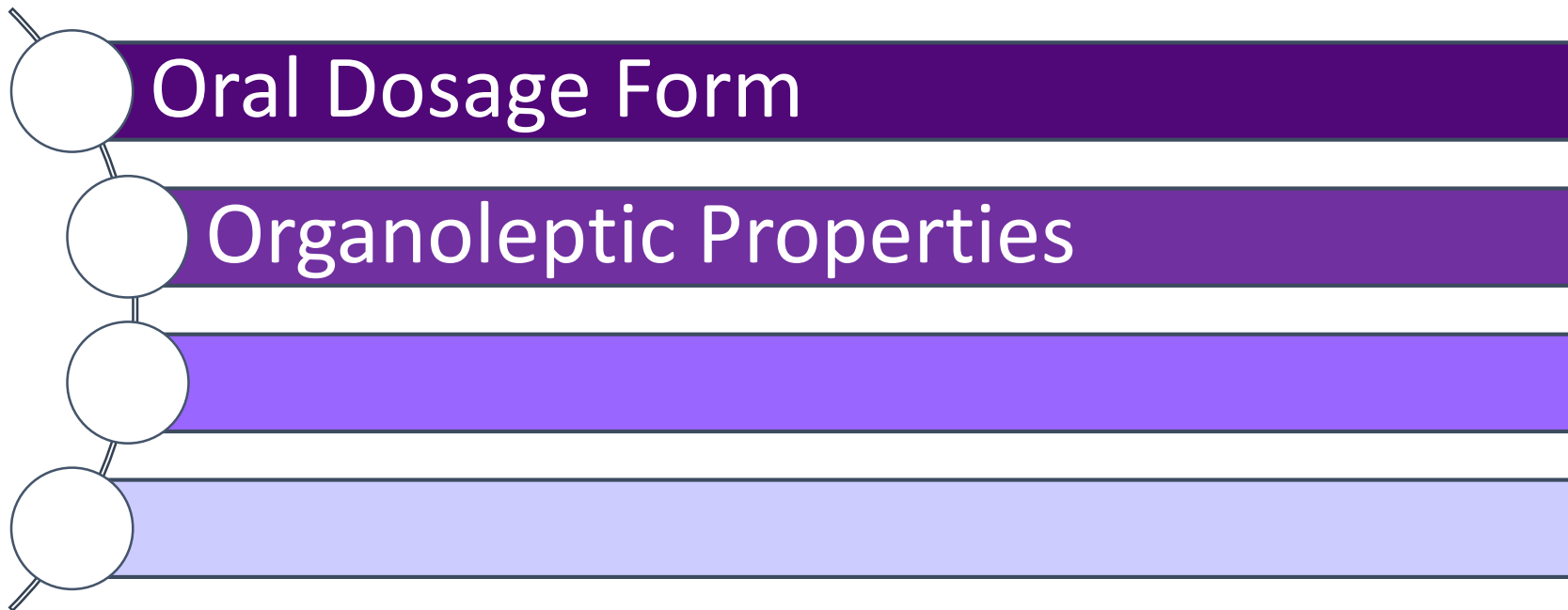
Medicines Design & Administration



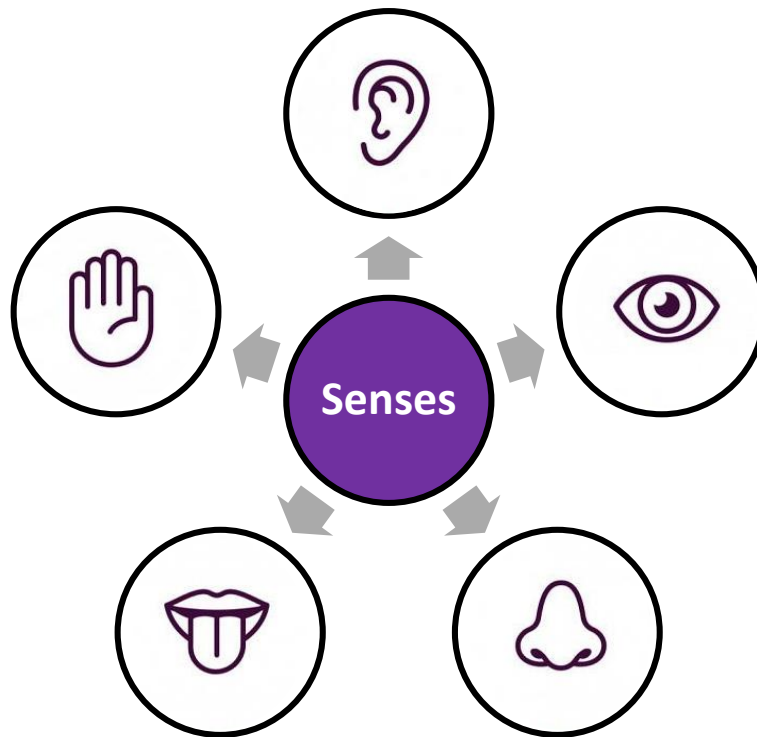
Oral Dosage Form



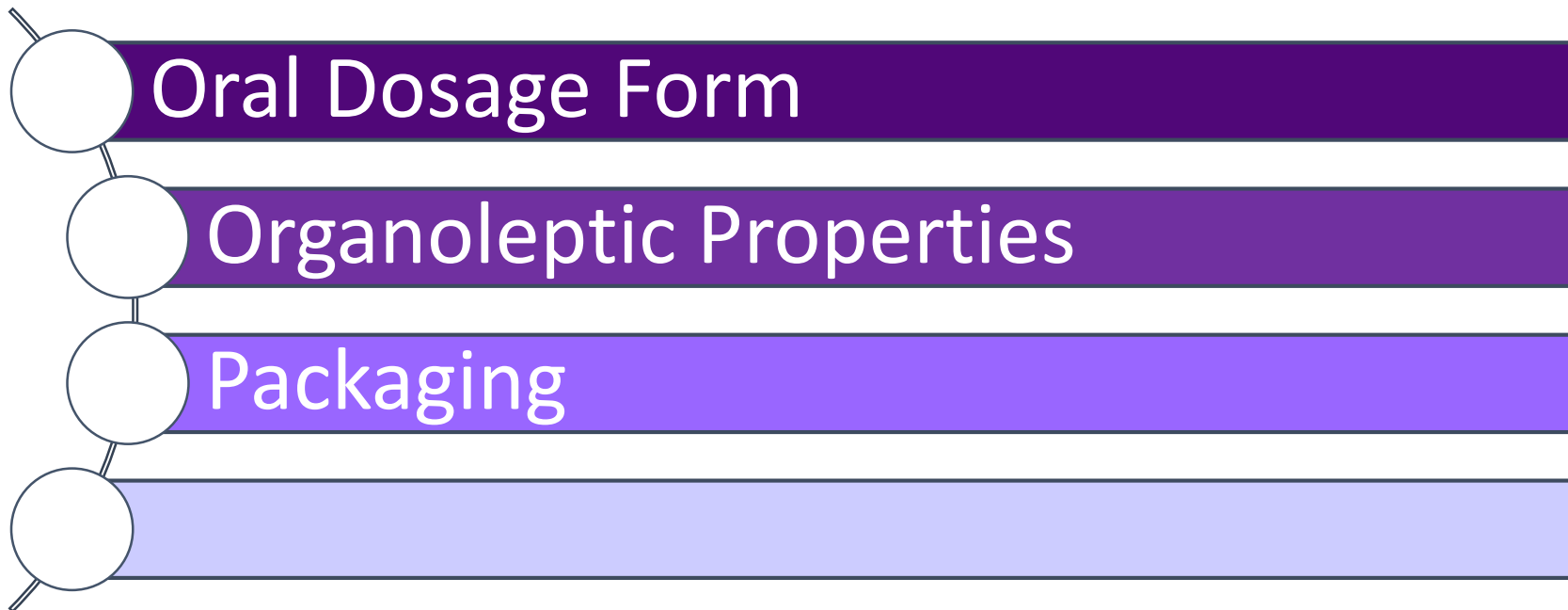
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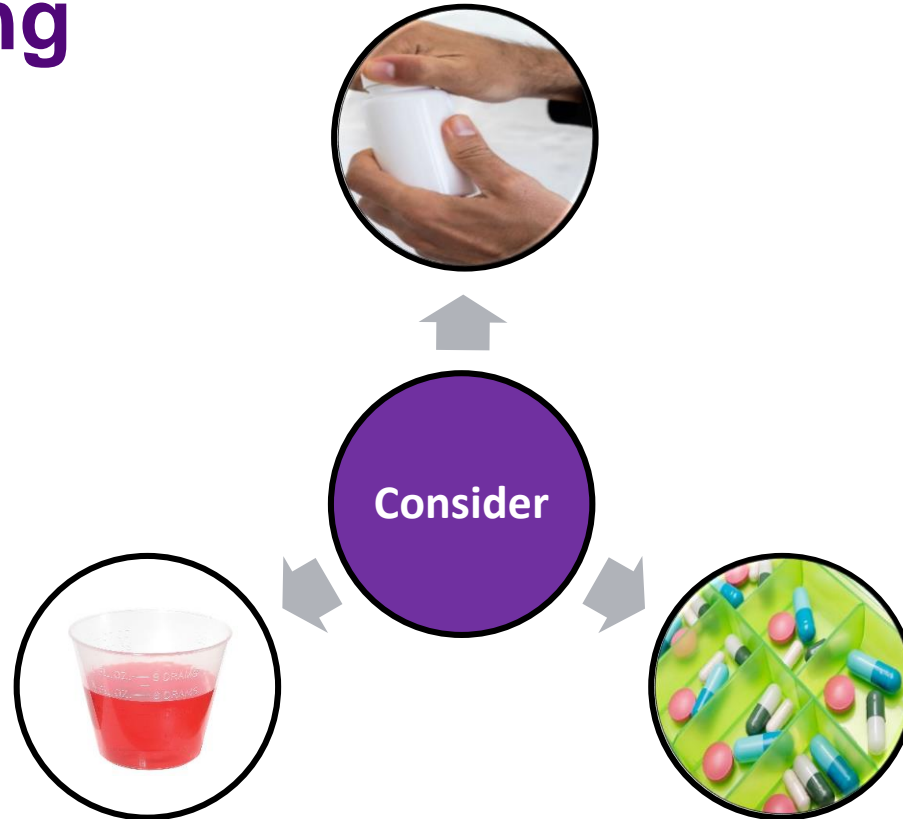
Organoleptic Properties



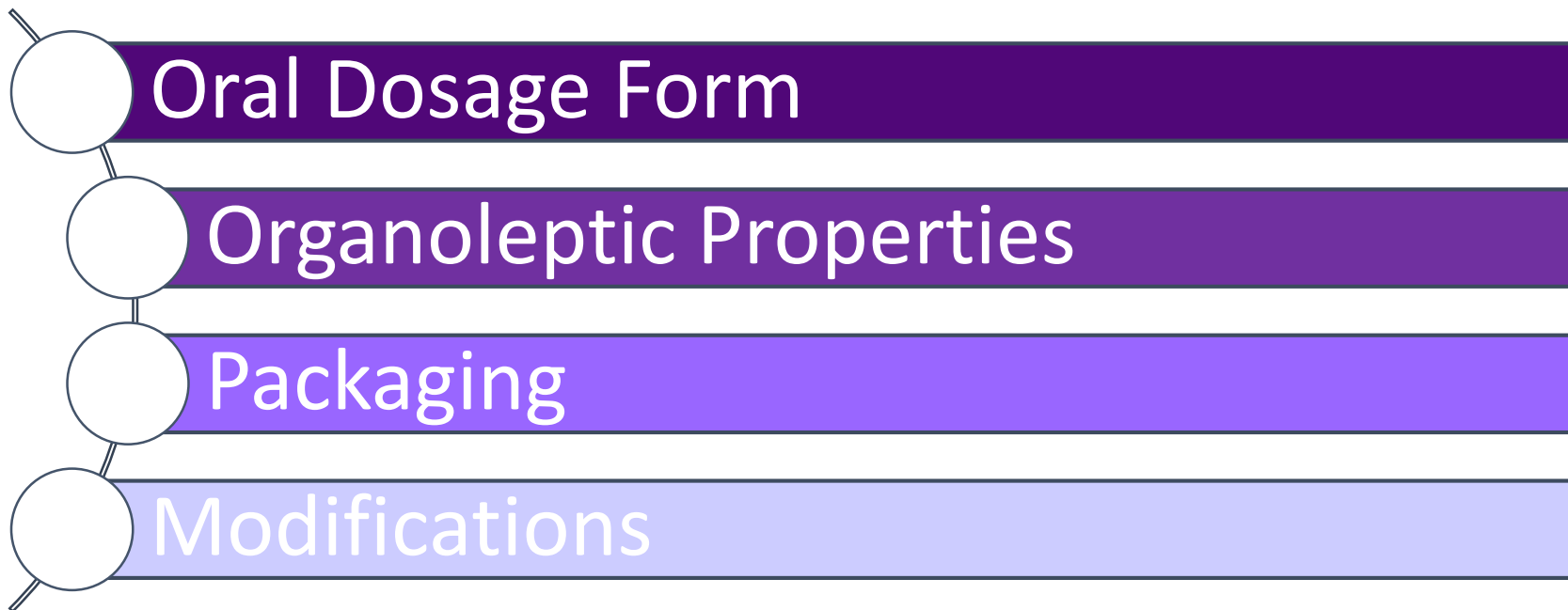
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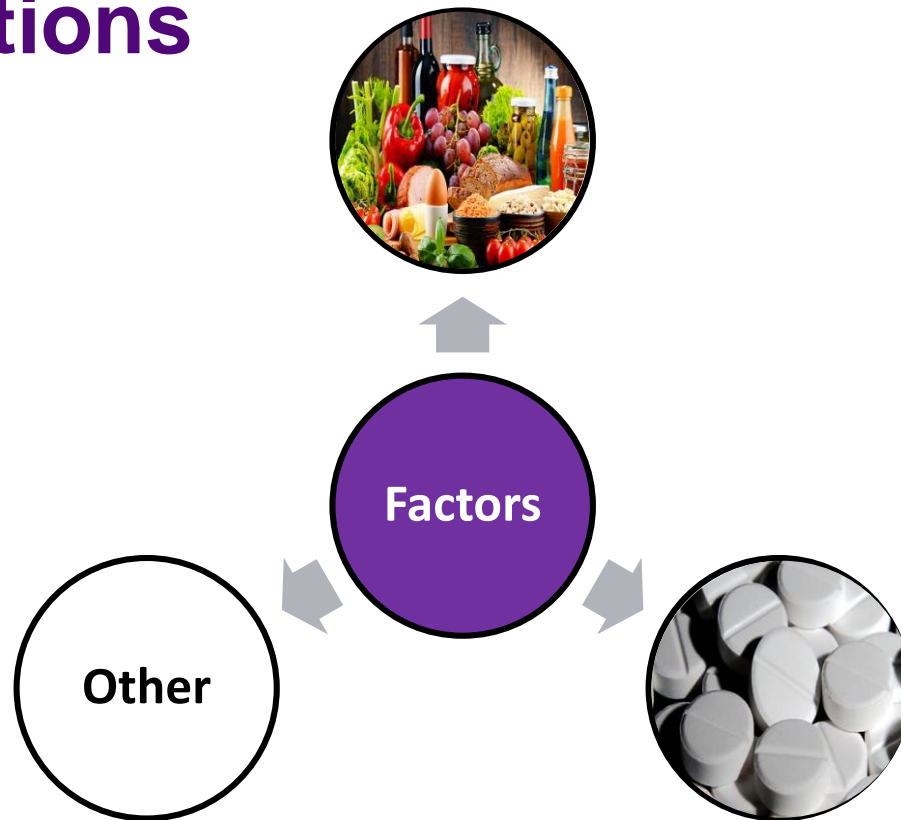
Packaging



Medicines Design & Administration



Modifications



Acceptability, Adherence & Age



Current Medicines Management

- Multiple Medicines & Polypharmacy
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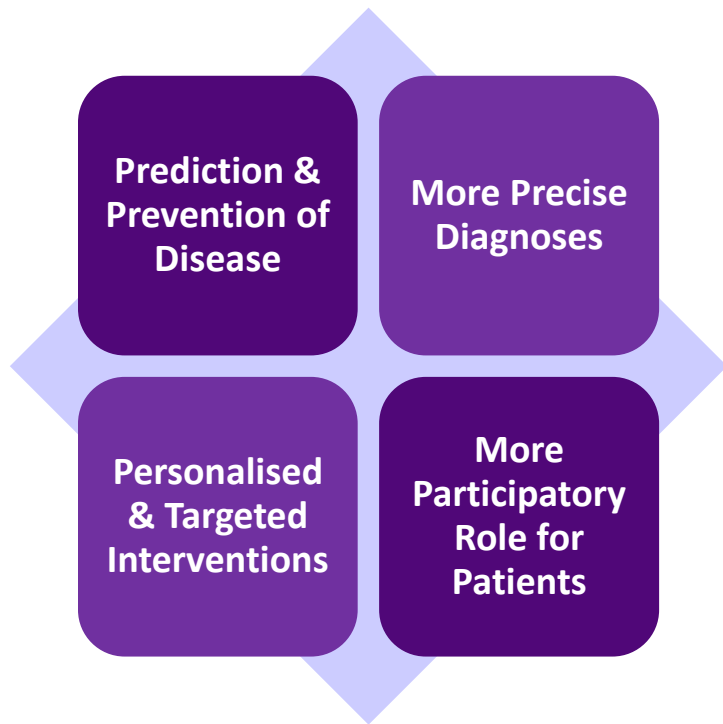
Current Medicines Management

- Multiple Medicines & Polypharmacy
- Medication Recognition
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Current Medicines Management

- Multiple Medicines & Polypharmacy
- Medication Recognition
- Switching Medicines

Personalised Medicine

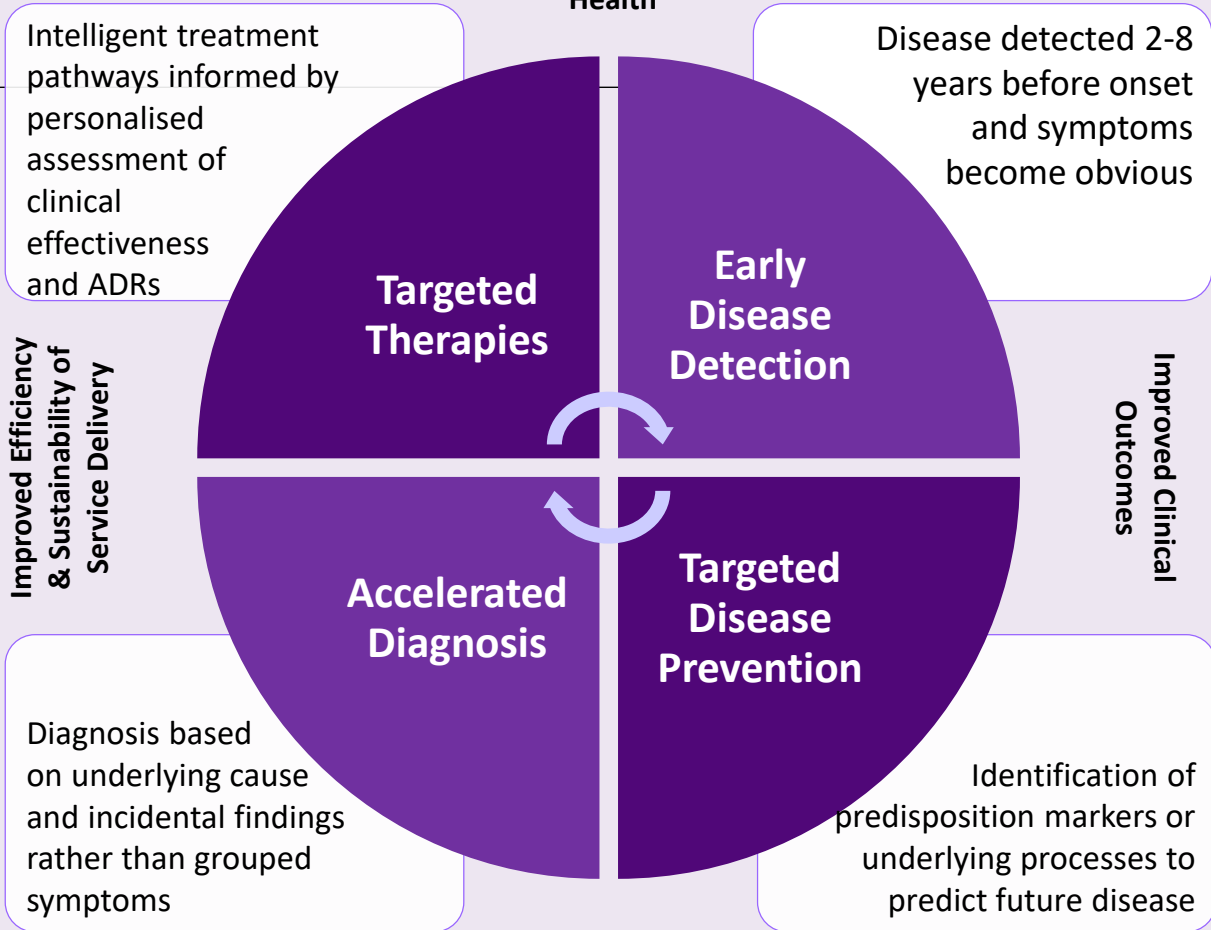


Moving away from a ‘one size fits all’ approach.

New approaches to better manage patients’ health and target therapies to achieve the best outcomes in the management of a patient’s disease or predisposition to disease.

“Five Rights” of Medication Use

Improved Population Health

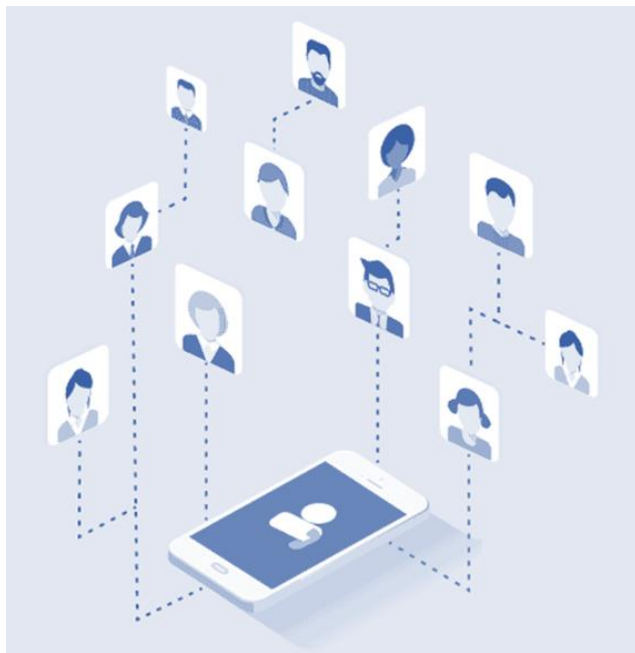


Improved Efficiency & Sustainability of Service Delivery

Improved Clinical Outcomes

Cutting Edge Research & Applied Science

Future of Medicines



The 'e' Age





2010s

- 'One Size Fits All' treatment based on symptoms
- Services and professions organised according to organ systems/specialties
- Limited use of genomic and molecular markers
- Diagnostic and clinical data not linked

2020s

- Whole genome sequencing for specific conditions
- Comprehensive, linked diagnostic data coupled with effective informatics analysis to give full picture of patients

2030s

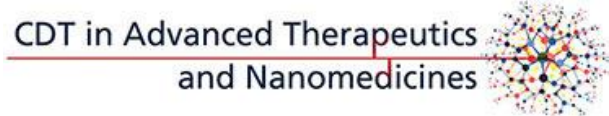
- New taxonomy of medicine based on underlying cause and personal response
- Integrated clinical services taking a 'whole body' approach
- Tailored, optimised and more effective therapies for better outcomes
- New partnerships between healthcare systems, academia, industry, patients and patient groups



To a more informed future!

Thank you for your attention!

Acknowledgements



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