



PharLyfe+
EMPOWERMENT, DIGNITY, INDEPENDENCE

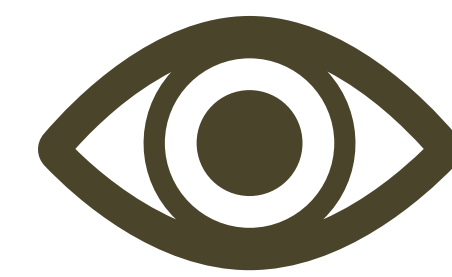
Advancing Pediatric Patient Care Through Oral Thin Film Compounding

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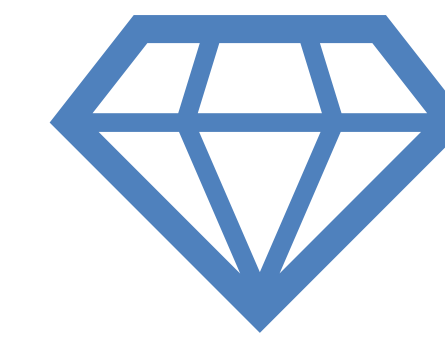
Our mission:

To serve unmet clinical needs by delivering simple, personalized, and patient-centered medicines through compounded oral thin films.



Our vision:

A future where every patient can receive medication in a format designed around comfort, adherence, and individual need.



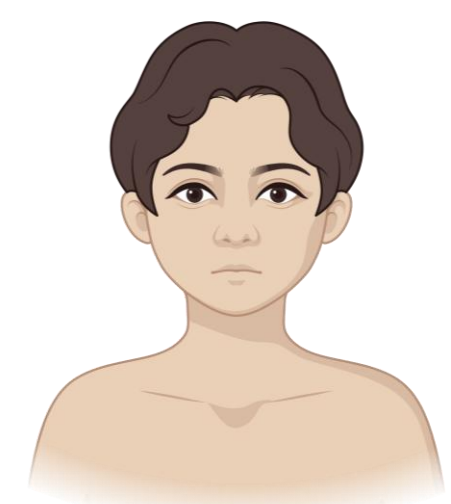
Our values:

Patient empowerment, comfort, personalization, accessibility, sustainability, innovation.

BACKGROUND AND OBJECTIVE

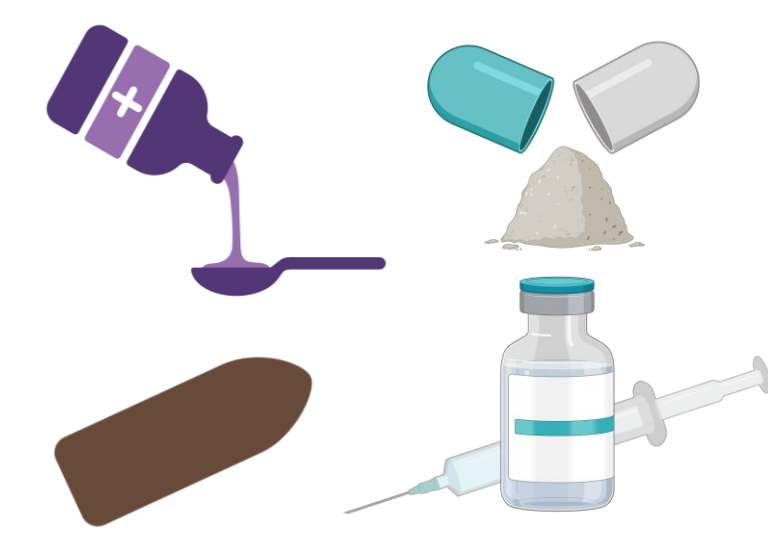
Pediatric patients face unique physiological, behavioral, and practical challenges that often limit medication acceptability and adherence. Conventional dosage forms can lead to dosing inaccuracies and negative treatment experiences. PharLyfe+ Pte. Ltd. is exploring extemporaneous compounding of oral thin films (OTFs) as a simple, environmentally sustainable, accessible, adaptable, and patient-centered approach to address these unmet clinical needs.

1 CHALLENGES IN PEDIATRIC DRUG DELIVERY



CHILD FACTORS

- Immature swallowing coordination
- High taste sensitivity
- Variable dosing needs by age and weight
- Dependence on caregivers



MEDICATION CHALLENGES

- Poor palatability
- Dosing inaccuracies
- Stability concerns
- Bulky packaging
- Uncertainty in delivered dose (spillage, spitting, regurgitation, vomiting, etc.)



CAREGIVER BURDEN

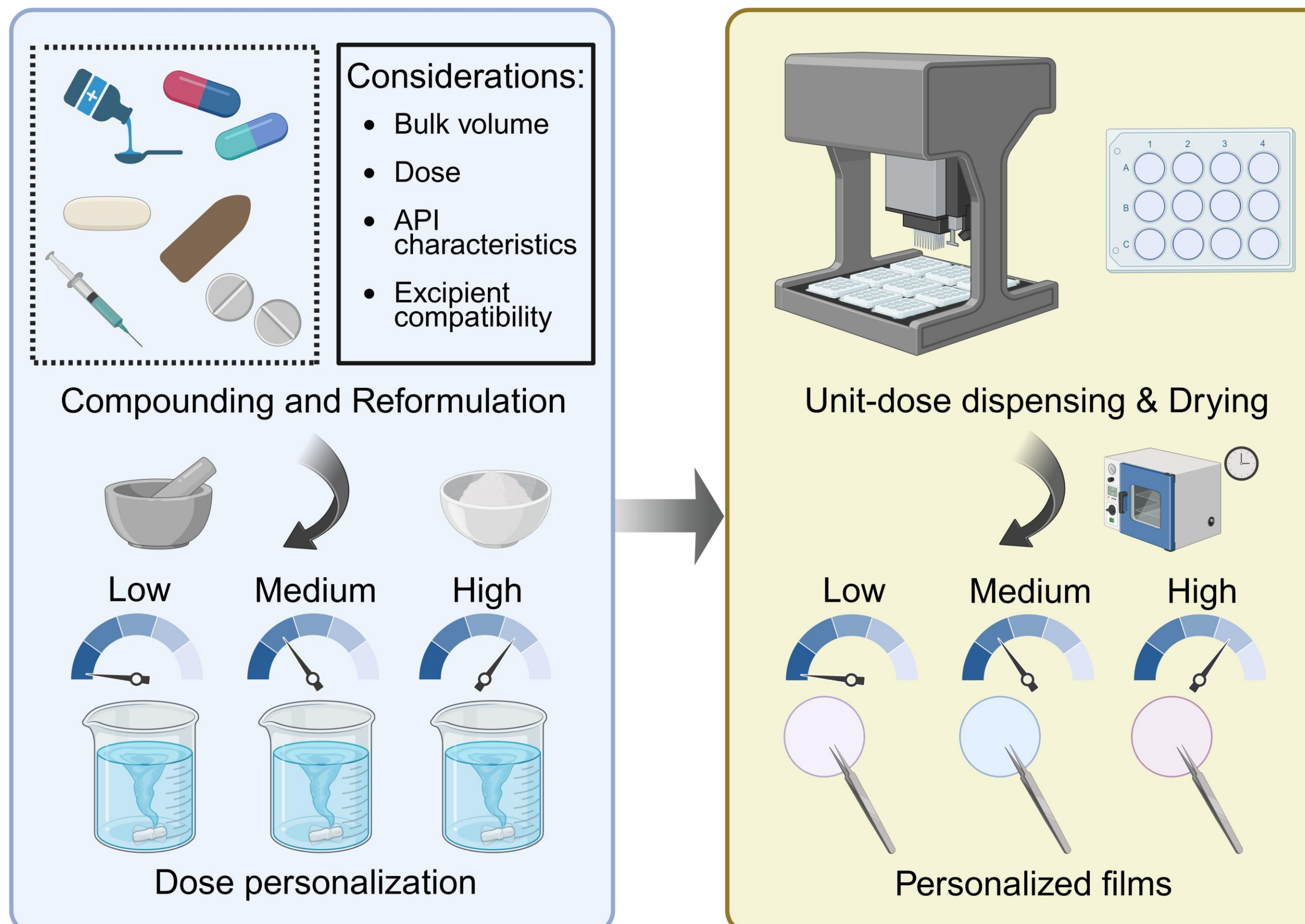
- Administration complexity
- Dose measurement difficulties
- Treatment stress and anxiety



Children need medicines designed around their needs:
Simple and convenient to formulate, easily personalizable, and highly acceptable.

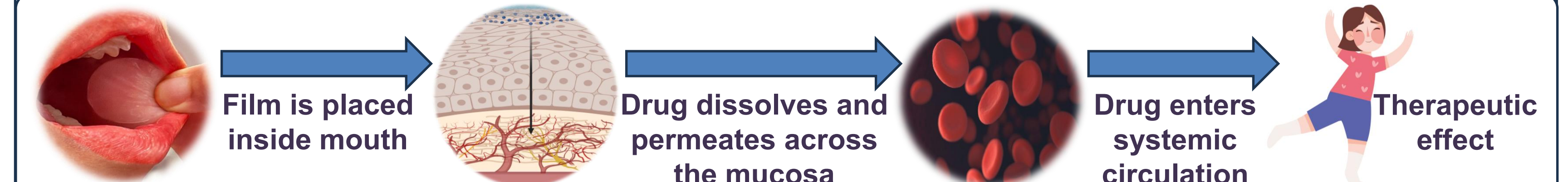
2 ORAL THIN FILMS (OTFs): A FLEXIBLE PLATFORM

EXTEMPORANEOUS COMPOUNDING WORKFLOW

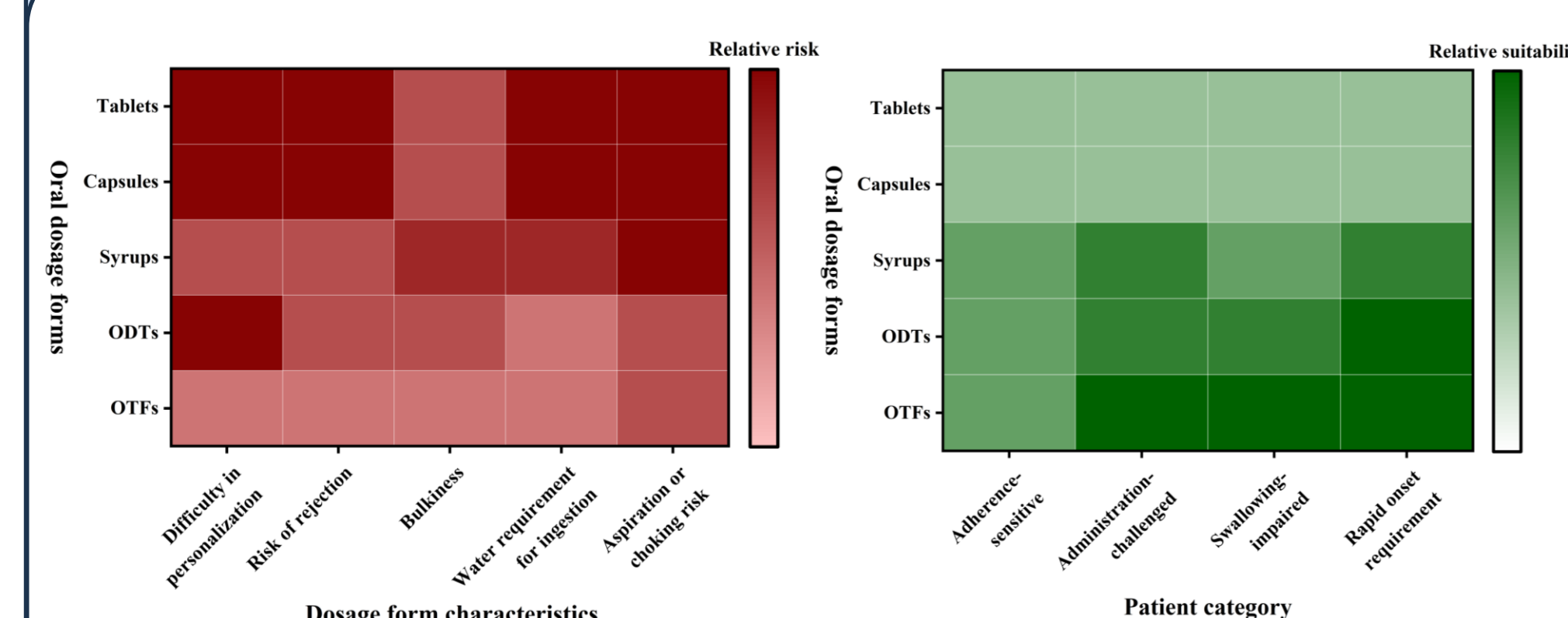


3 POTENTIAL CLINICAL IMPACT OF OTFs

HOW DO OTFs WORK

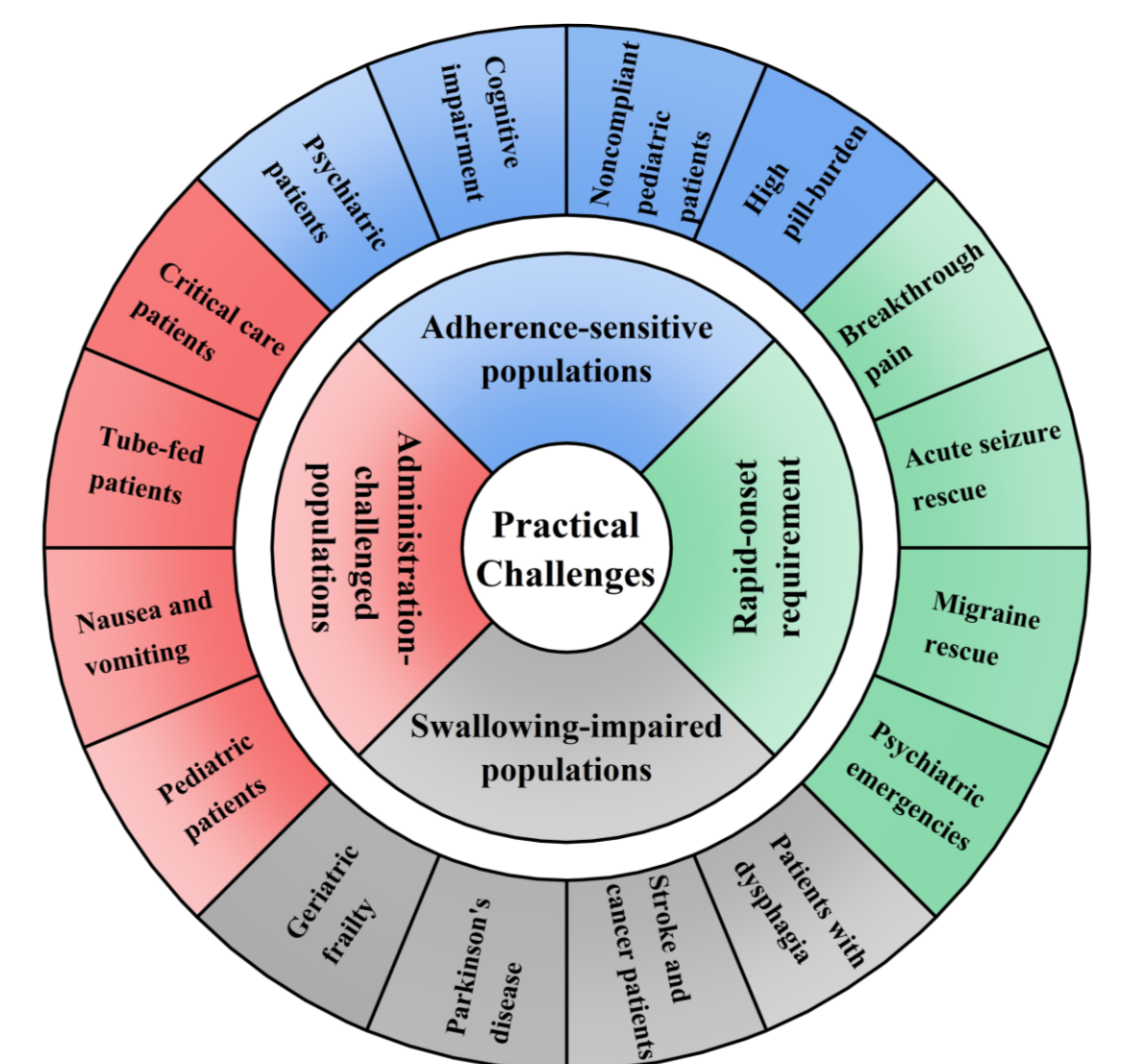


OTFs VERSUS OTHER ORAL DOSAGE FORMS



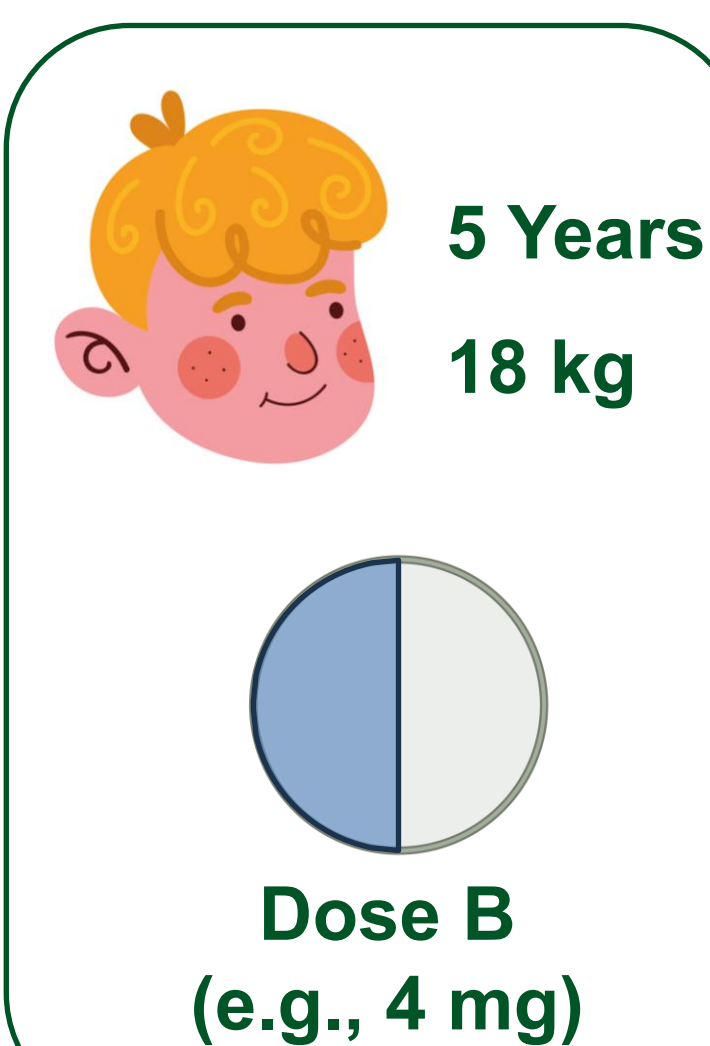
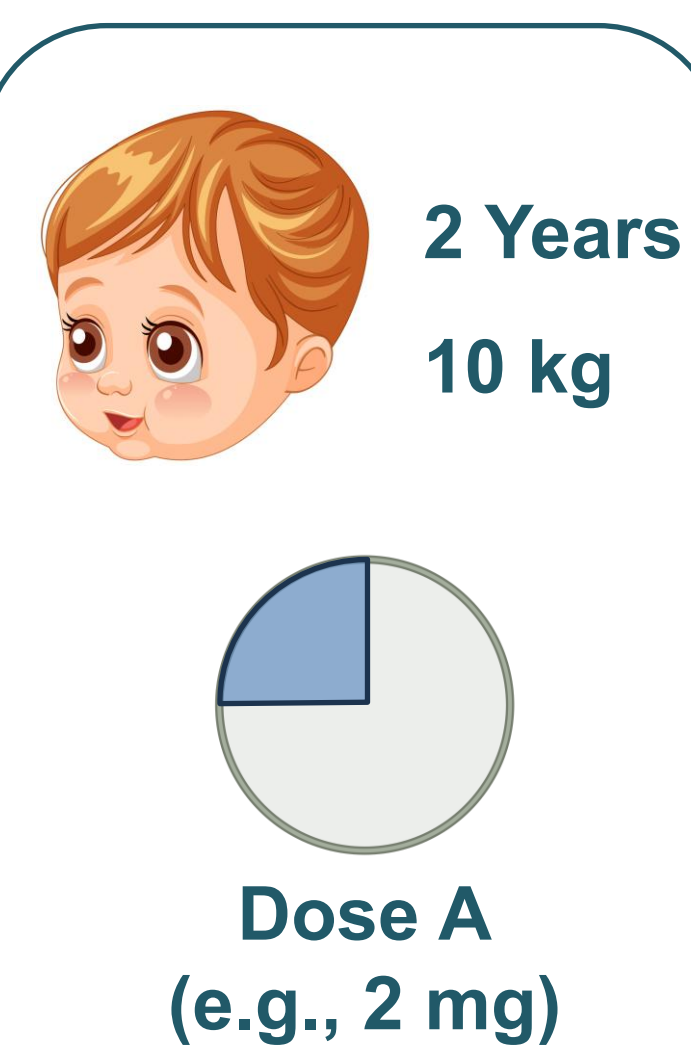
Heatmap of the relative flaws and suitability parameters of different oral dosage forms, including OTFs and ODTs (orodispersible tablets). Data generated from semi-quantitative score estimations.

OTFs FOR PEDIATRICS AND BEYOND



4 PERSONALIZED DOSING FOR EVERY CHILD

Children require different doses based on age, weight, and clinical condition. OTFs enable individualized therapy through extemporaneous compounding.



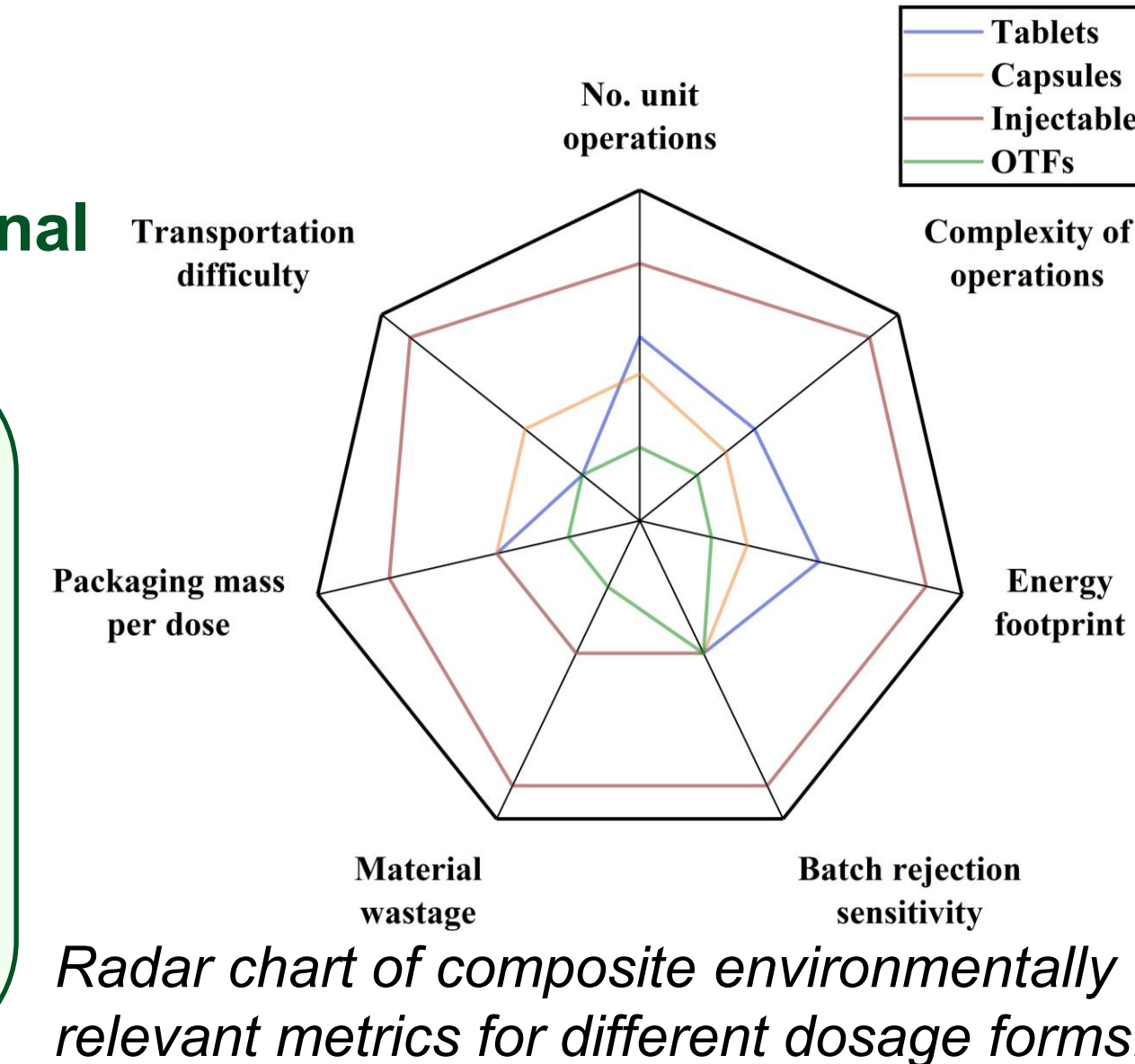
OTF PLATFORM ENABLES

- ✓ Adjustable dosing
- ✓ Precise drug loading
- ✓ Individualized formulation preparation
- ✓ Better alignment with therapeutic needs across growth stages

5 ENVIRONMENTAL SUSTAINABILITY & ENHANCED ACCESSIBILITY

OTFs can reduce environmental impact compared to conventional dosage forms.

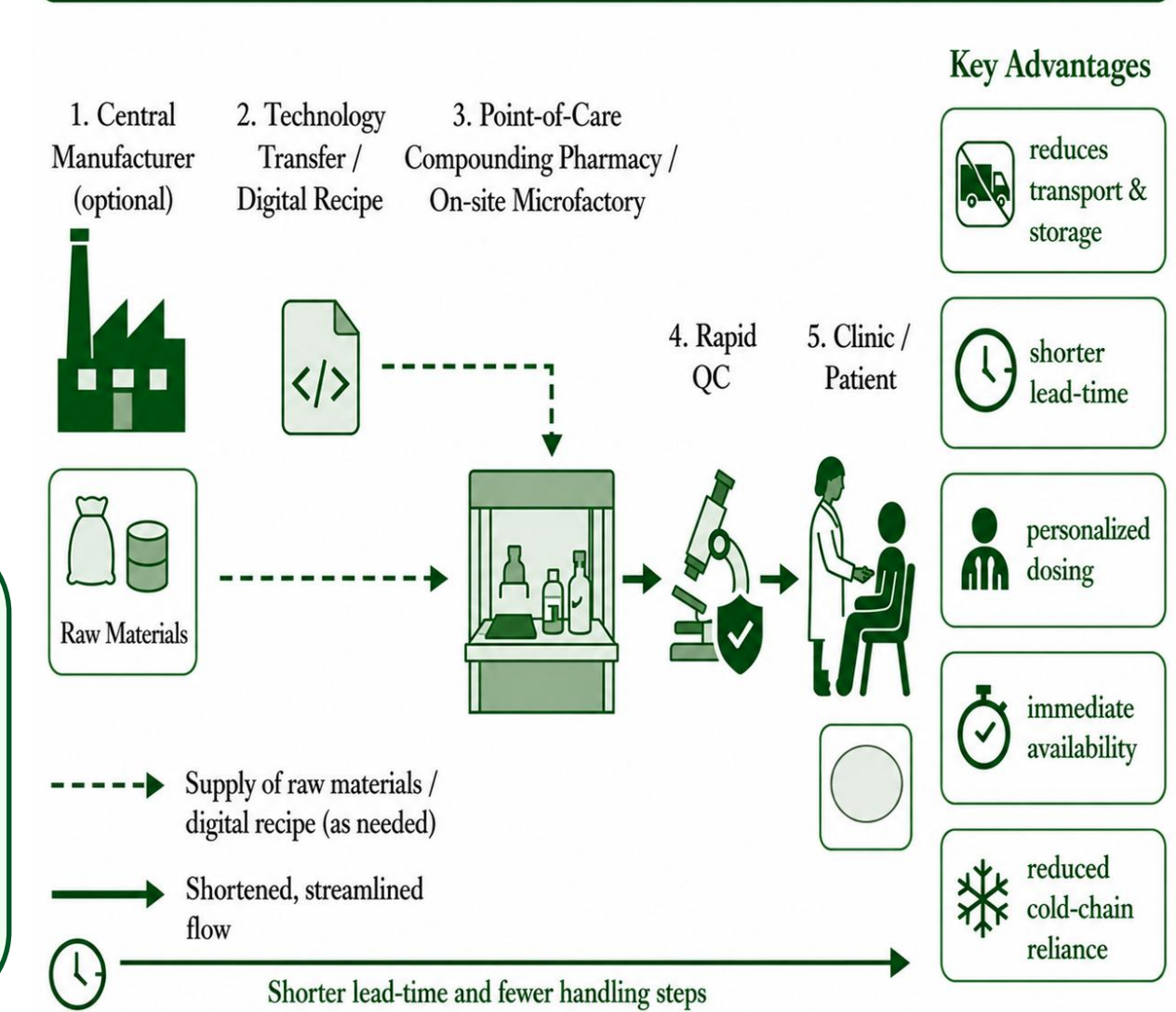
- ✓ Low excipient volume
- ✓ Simple production
- ✓ Low HVAC
- ✓ Low packaging burden



Extemporaneous compounding / production of OTFs support the model for decentralized and point-of-care manufacturing and therapy.

- ✓ Potential to enhance patient accessibility, especially in resource-limited regions

Decentralized / point-of-care manufacturing



6 CURRENT CHALLENGES IN OTF ADOPTION

- ⚠ Limited drug loading capacity
- ⚠ Pharmacokinetic considerations
- ⚠ Regulatory pathways for compounded OTFs
- ⚠ Lack of standardized and harmonized regulatory guidelines for OTFs
- ⚠ Limited FDA-approved OTFs in the market
- ⚠ OTF dosage form and route of administration might present a particular challenge for poorly water-soluble drugs

COLLABORATIONS



REFERENCES

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WE WELCOME YOU TO COLLABORATE WITH US

