

Introduction

- Patient-reported outcome measures (PROMs) are the gold standard measures of **postpartum recovery**
- **Current PROMs** have limited content validity for assessing postpartum recovery
- **Study Aim: to develop and clinically validate a new postpartum-specific global recovery PROM (STORK)**

PART 1: STORK development

Design: Multidisciplinary Delphi Consensus

- questions selected from existing PROMs
- supplemented with additional questions by expert consensus

PART 2: multicenter validation of STORK

Design: clinical survey conducted at 3 centers

- patient demographics, obstetric variables
- survey instruments:
ObsQoR-10, EuroQoL (EQ5D3L), and STORK
- completed at 4 timepoints: [primary: 6 weeks]
24 +/- 12 hours of delivery
2, 6 and 12 weeks postpartum

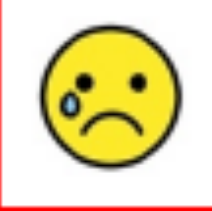
RESULTS: Demographic and obstetric data

	SVD/Induction (n=110)	AVD (n=6)	Scheduled CD (n=51)	Non-Scheduled CD (n=18)
Age	33.5±4.5	33.5±4.4	34.2±6.0	32.5±5.0
Gestational age	39.2 [38.5 – 39.9]	39.6 [38 – 40.1]	38.9 [37 – 39.3]	39.4 [38 – 40]
Primiparous (%)	37 [33.6%]	5 [83.3%]	14 [27.5%]	11 [61.1%]
EBL	200 [122 – 376]	310 [249 – 500]	550 [305 – 1141]	603.5 [357 – 900]
Length of Hospital Stay (hours)	51.4 [41.6 – 57.1]	52.6 [49.8 – 60.2]	77.1 [68.2 – 99.3]	96.4 [80.5 – 105.5]
NICU stay (%)	6 [5.5%]	0	10 [19.6%]	4 [22.2%]

Primary Outcome: 6-week STORK data; and all timepoints

	Maximum possible score	SVD/nducton (n = 110)	AVD (n = 6)	Scheduled CD (n = 51)	Non-Scheduled CD (n = 18)
6-week STORK scores divided by domain:					
-physical health	52	40 [35-43]	34 [24-39]	37 [33-44.5]	42.5 [35-44]
-mental and emotional health	60	50 [43-54.5]	49 [47-51]	49.5 [41.5-55]	46.5 [39.5-55]
-motherhood experience and social support	48	39.5 [36-42]	36 [34-41]	37.5 [33.5-43]	40 [33.5-40.5]
-sleep and fatigue	28	16 [11-20]	15[14-16]	14 [12-18.5]	16 [10.5-18.5]
Overall STORK scores:					
- Inpatient	188	125 [108-144]	129 [117-134]	119[104-133]	120[105-129]
- Week 2	188	135 [116-148]	126[115-132]	129[111-149]	133[110-141]
- Week 6	188	145 [130-155]	129[126-137]	133[119-154]	148[120-155]
- Week 12	188	148 [132-160]	141[125-153]	147[111-158]	145[138-161]

One of Five Domains Surveyed: Sleep & Fatigue

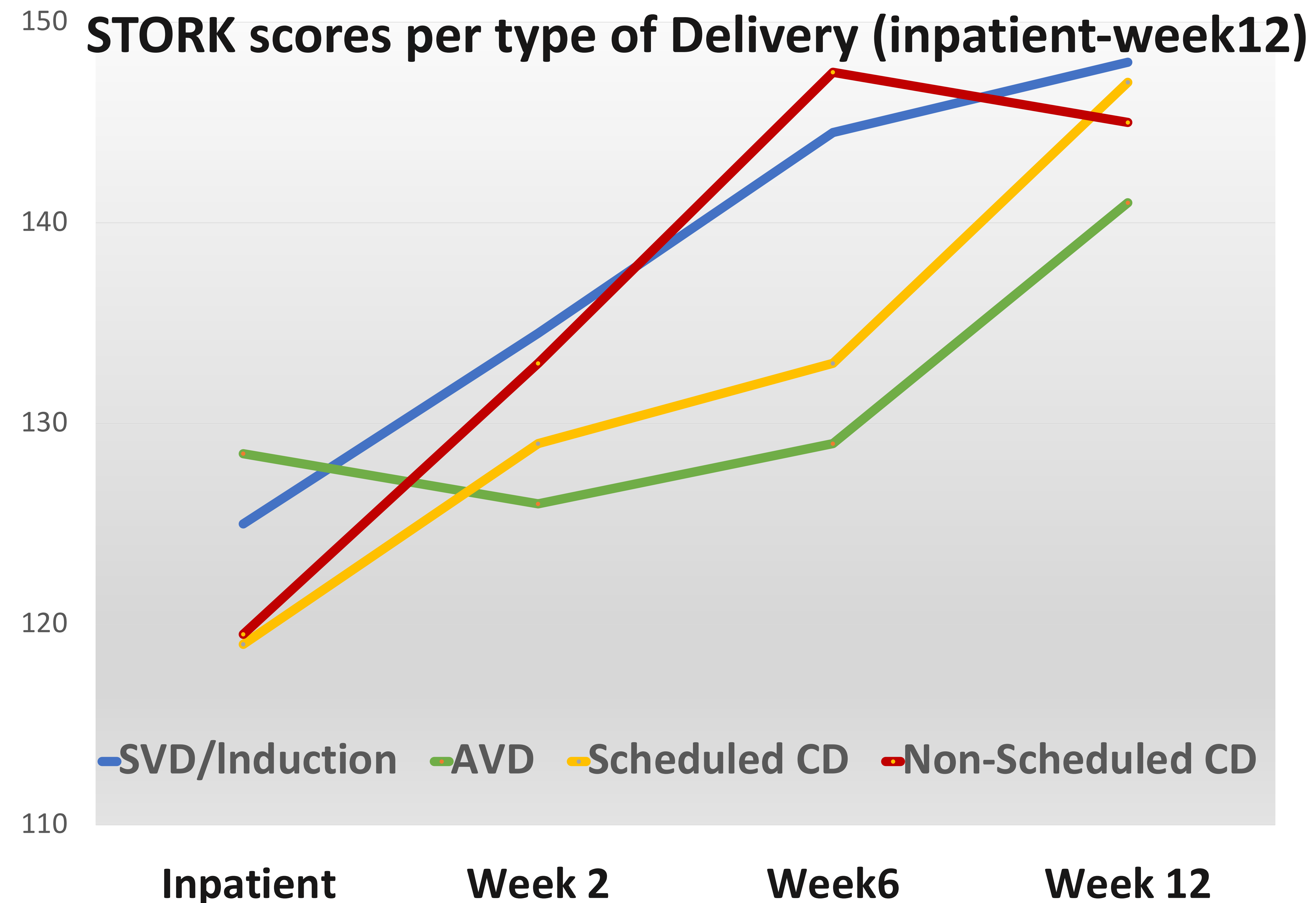
	Not at all 	A little bit	Somewhat 	Quite a bit	Very much 
In the past 7 days -					
How satisfied have you been with your sleep?	☐	☐	☐	☐	☐
I got enough sleep to feel rested in the morning	☐	☐	☐	☐	☐
Did you have enough time to rest?	☐	☐	☐	☐	☐

	Not at all 	A little bit	Somewhat 	Quite a bit	Very much 
In the past 7 days -					
I had difficulty falling or staying asleep	☐	☐	☐	☐	☐
I felt sleepy during the daytime	☐	☐	☐	☐	☐
How much has pain interfered with your sleep?	☐	☐	☐	☐	☐
I felt fatigued	☐	☐	☐	☐	☐

Comparative survey data

	SVD/Induction (n=110)	AVD (n=6)	Scheduled CD (n=51)	Non-Scheduled CD (n=18)
Inpatient ObsQoR-10 score	86 [79 – 93]	73 [70 – 92]	81 [66-89]	70 [58 – 73]
EQ5D3L				
- Movement	1 [1 – 2]	2 [2 – 3]	2 [1 – 2]	2 [1 – 3]
- Self-care	1 [1 – 1]	2 [1 – 2]	1 [1 – 2]	2 [1 – 2]
- Usual activities	1 [1 – 2]	1 [1 – 2]	1 [1 – 2]	3 [2 – 3]
- Pain discomfort	2 [1 – 2]	2 [1 - 3]	1 [1 – 2]	3 [2 – 3]
- Anxiety/depression	1 [1 – 1]	1 [1 – 1]	1 [1 – 1]	1 [1 – 1]

RESULTS, continued



CONCLUSIONS

- Validity, reliability, responsiveness, and clinical feasibility of this robustly developed PROM is ongoing
- Key domains that drive poor global recovery (e.g., mental health and/or sleep) will be identified
- Upon validation, STORK has both clinical and research potential to evaluate and track the complex construct of outpatient postpartum recovery following hospital discharge

REFERENCES

1. Anaesthesia. 2020 Jan; 75 Suppl 1:e143-e150.
2. JAMA Netw Open. 2021 May 3; 4(5): e2111600