



Key Publications For The Cow's Milk-related Symptom Score








CoMiSS™

INTRODUCTION

CHALLENGES IN CMA DIAGNOSIS AND LOW AWARENESS


Cow's Milk Allergy (CMA) is one of the most common food allergies in early life, affecting up to 3% of infants globally.¹ However, diagnosing it can be challenging as it can take months and multiple visits to get an official diagnosis.²

Awareness of CMA symptoms can be low and misunderstood, especially in primary care, leading to either under or overdiagnosis, both having consequences for infants, parents and caregivers and the health care system.^{3,4}

CHALLENGES	CONSEQUENCES
<div><div>Symptoms can overlap with other common infant conditions.¹</div></div> <div><div></div><div>Many primary care HCPs are not always very familiar with the common symptoms of CMA and the guidelines for diagnosis and management.²</div></div>	<div><div></div><div>Increase costs and higher healthcare usage^{3,4}</div></div> <div><div></div><div>Inappropriate dietary changes³</div></div> <div><div></div><div>Lower quality of life^{5,6}</div></div>

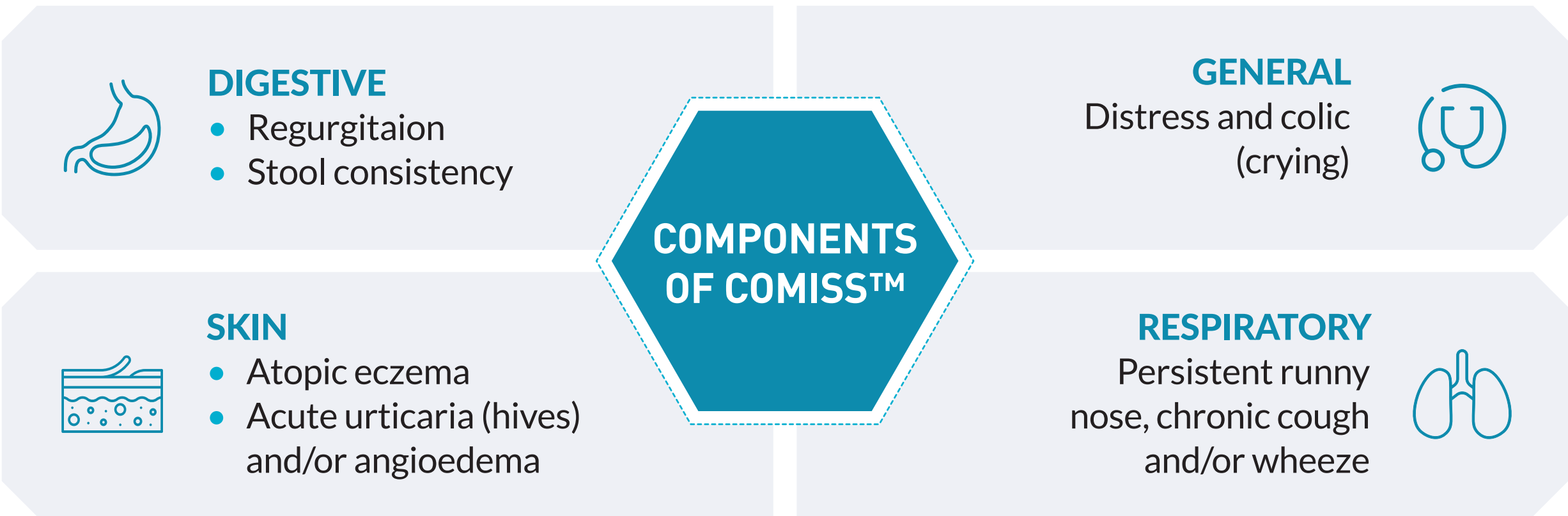
WHAT IS COMISS™ AND HOW IS IT USED?

CoMiSS™ is a Cow's Milk-related Symptom Score developed by international experts in 2015.¹ Since 2015, >25 clinical studies and publications using CoMiSS™ endorse its use as an awareness tool for the early identification of CMA.³



CoMiSS™ helps increase awareness of the most common symptoms associated with CMA supporting earlier diagnosis

CoMiSS™ quantifies and scores the number and severity of symptoms seen in infants with suspected CMA. When the score is ≥ 10 , CMA is suggested, while a score < 6 is unlikely to be CMA, and other causes should be investigated.¹



COMISS™ CLINICAL EVIDENCE

1.

COMISS™ KEY PUBLICATIONS BETWEEN 2014 AND 2021

- 2015: A Workshop Report on The Development of The Cow's Milk-Related Symptom Score Awareness Tool for Young Children
- 2018: The Cow Milk Symptom Score (Comiss™) in Presumed Healthy Infants
- 2019: Testing The Cow's Milk-Related Symptom Score (Comiss™) for The Response to a Cow's Milk-Free Diet in Infants: A Prospective Study
- 2020: The Cow's Milk-Related Symptom Score (Comiss™): Healthcare Professional and Parent And Day-to-day Variability
- 2021: How Are Infants Suspected to Have Cow's Milk Allergy Managed? A Real World Study Report

2.

COMISS™ KEY PUBLICATIONS FOR UPDATED TOOL FROM 2022

- 2022: The Cow's Milk-Related Symptom Score: The 2022 Update
- 2022: The Cow's Milk-Related Symptom Score (Comiss™): A Useful Awareness Tool
- 2022: Assessment of The Cow's Milk-Related Symptom Score (Comiss™) as a Diagnostic Tool for Cow's Milk Protein Allergy: A Prospective, Multicentre Study in China (Mosaic Study)
- 2023: Cow's Milk-Related Symptom Score (Comiss™): From Bristol to Brussels Stool Scale
- 2024: Cow's Milk-Related Symptom Score (Comiss™) Values in Presumed Healthy European Infants Aged 6-12 Months: A Cross-Sectional Study



A WORKSHOP REPORT ON THE DEVELOPMENT OF THE COW’S MILK-RELATED SYMPTOM SCORE AWARENESS TOOL FOR YOUNG CHILDREN

Yvan Vandenplas et al. Acta Pædiatrica. 2015;104(4):334-339.



Study objectives

To reach a consensus among International Experts experienced in managing children with gastrointestinal problems and/or atopic diseases to adapt the existing symptom-based score (SBS) into a cognitive tool for recognizing milk-related symptoms in young children.



Subjects and methods

A group of International Experts conducted a workshop in 2014 to develop the first version of CoMiSS™. They clandestinely voted on questions about SBS based on published data from several pilot trials. They voted using a nine-point scale, ranging from one for strongly disagree to nine for fully agree.



Endpoints

More than 80% of the voters had to score six or above to reach an agreement



Results

All of the SBS aspects were reached in consensus:

- SBS can serve as a new awareness tool for assessing symptoms related to cow's milk
- Healthcare professionals benefit from the SBS as a quick and easy-to-use tool for identifying cow's milk-related symptoms.
- While SBS cannot serve as a diagnostic tool for CMPA, it does, however, signal symptoms associated with cow’s milk consumption
- Substitute the term SBS with Cow's Milk-related Symptom Score awareness tool (CoMiSS™)

CoMiSS™
offers primary care clinicians
a simple, fast, and easy-to-use
tool to recognize symptoms
associated with
cow's milk

SUMMARY OF CONSENSUS

- CoMiSS™ awareness tool is not a diagnostic test for CMA.
- CoMiSS™ can be used as a useful awareness tool for cow's milk related symptoms.
- Primary HCP would benefit from a rapid and easy-to-use awareness tool for cow’s milk related symptoms.

This report published the development of the first version of CoMiSS™



CoMiSS™ key publications
between 2014 and 2021

CoMiSS™ key publications
for updated tool from 2022

CoMiSS™ tool

THE COW MILK SYMPTOM SCORE (COMISS™) IN PRESUMED HEALTHY INFANTS

Vandenplas Y et al. PLoS One. 2018 Jul 18;13(7):e0200603.



Study objectives

To determine an age-related CoMiSS™ in healthy infants to reduce the risk of false reassurance in negative results or over-diagnosis of CMPA in positive results.



Subjects and methods

An international multicenter cross-sectional study involved healthy infants aged ≤6 months.

Age-related CoMiSS™ symptom variations were analyzed in groups: 0–1 month, 1–2 months, 2–3 months, 3–4 months, and 4–6 months.



Results

413 out of 891 infants obtained complete information

Age did influence the overall CoMiSS™, in terms of each symptom

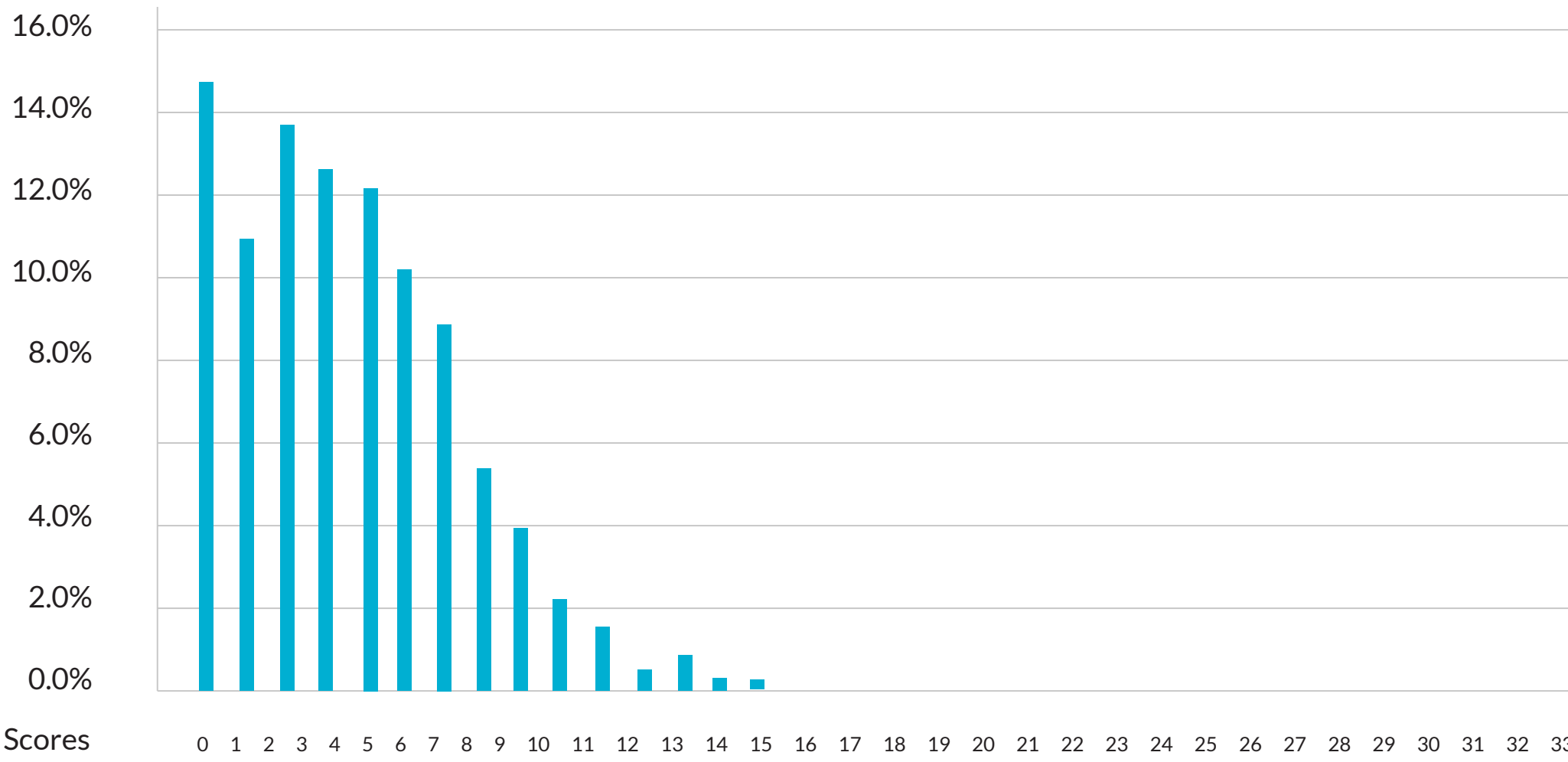
- Significant differences were observed in median crying ($p<0.001$), regurgitation ($p=0.009$), and eczema ($p=0.04$) scores across age categories, with crying time and episodes of regurgitation per day decreasing in older infants, while eczema was most frequently found in the lowest age categories.
- The other components of the CoMiSS™ (respiratory symptoms and stool consistency) were not age-dependent.

The median and mean (SD) CoMiSS™ score were 3.0 and 3.7 (2.9), respectively.

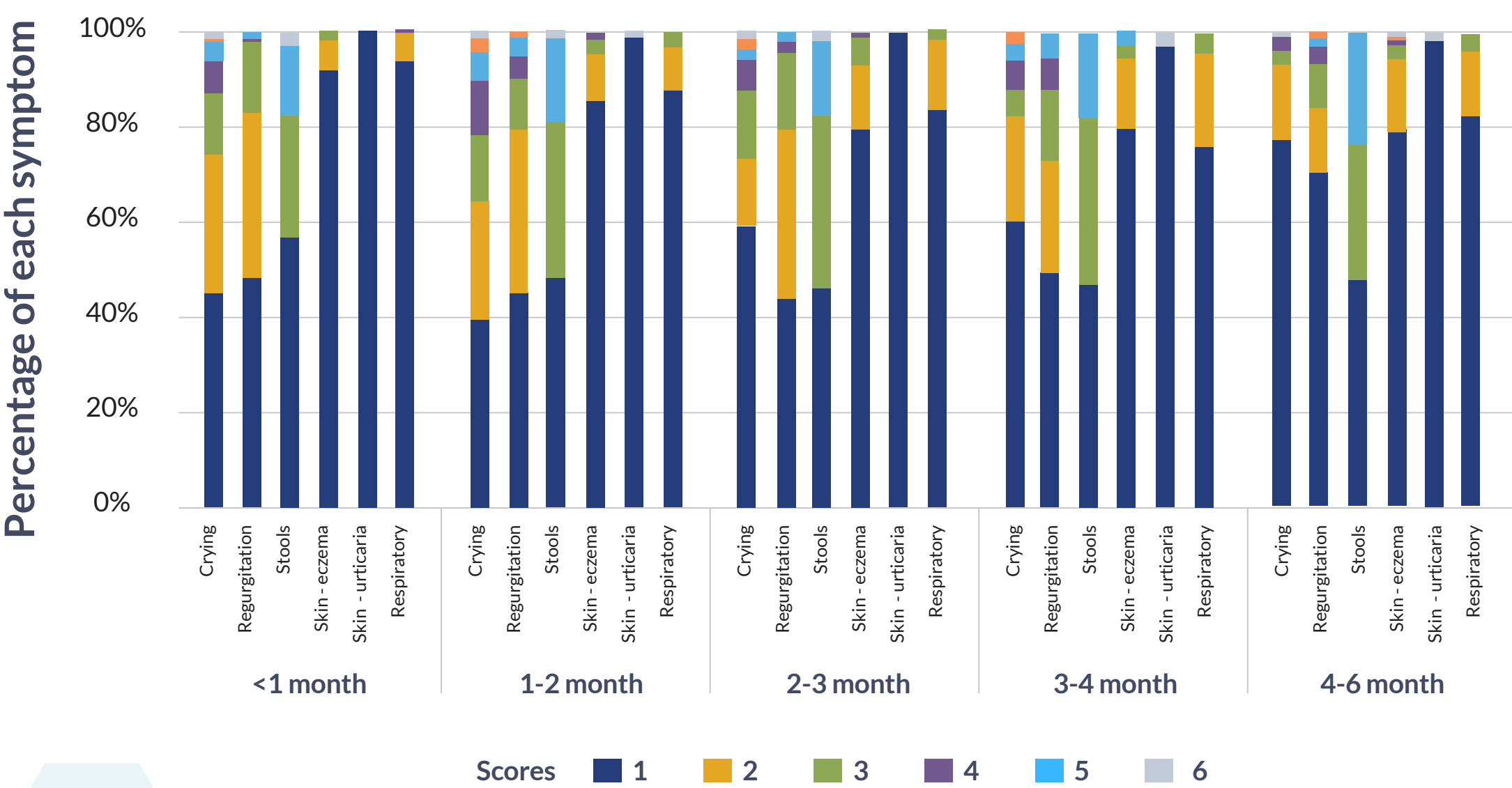
Only 1.5% of healthy infants in the study had a CoMiSS™ ≥ 12 , previously the threshold for a 'positive' score. Meanwhile, 95% of the infants scored ≤ 9 , indicating that a CoMiSS™ of 10 might be a more appropriate overall cut-off for a positive results.

75% of healthy infants had a CoMiSS™ ≤ 6 , indicating that a CoMiSS™ of 6 could be a useful lower cut-off for negative results.

Distribution of the CoMiSS™



Distribution of the CoMiSS™ according to age



This study found median CoMiSS™ score for healthy infants at 3.0, mean at 3.7, and P95 at 9. Age significantly influenced overall CoMiSS™



CoMiSS™ key publications between 2014 and 2021

CoMiSS™ key publications for updated tool from 2022

CoMiSS™ tool

TESTING THE COW’S MILK-RELATED SYMPTOM SCORE (COMISS™) FOR THE RESPONSE TO A COW’S MILK-FREE DIET IN INFANTS: A PROSPECTIVE STUDY

Salvatore S et al. Nutrients. 2019;11(10):2402.



Study objectives

To evaluate the accuracy of the CoMiSS™ in identifying infants who can benefit from Cow's Milk-Free Diet (CMFD) when Cow's Milk Allergy (CMA) is suspected.



Subjects and methods

An open prospective study in 47 infants (cases) who began CMFD due to acute or gastrointestinal symptoms suspected for CMA.

CoMiSS™ scores were assessed at enrollment (T0), and after 2–4 weeks of CMFD (T1) and were compared to the score of healthy infants (controls, obtained at T0).

- CoMiSS™ was evaluated at inclusion and after 3 weeks ± 5 days.
- Responsive to CMFD' was defined as any infant whose CoMiSS™ score was higher than the average (median) of the case group at T0 but then fell below the average of the control group at T1.



Endpoints

Primary endpoints: Sensitivity and specificity of CoMiSS™ in identifying infants who respond to CMFD

Secondary endpoints: The best cut-off CoMiSS™ score to predict the response to CMFD



Results

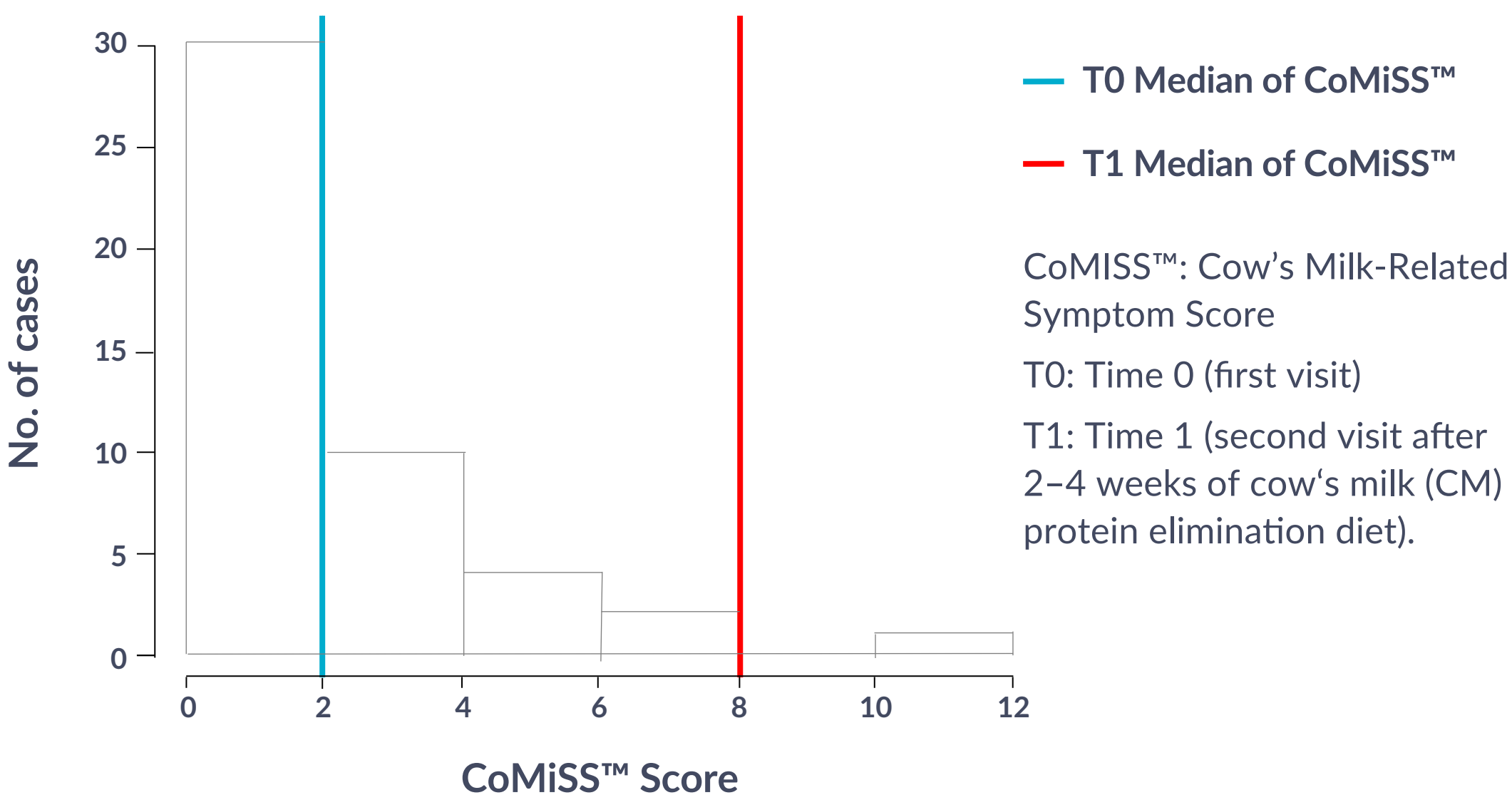
- At T0 (enrollment), the median score of CoMiSS™ was 8 (range 2–16) in cases and 3 (range 0–11) in controls.
- Median CoMiSS™ score decreased from 8 at T0 to 2 at T1 (the end of the CMFD)
- The median CoMiSS™ score was significantly higher in infants who benefited from the diet compared to those who did not show a response.

Out of 47 symptomatic infants:

- 39 (83%) had a reduction of symptoms on the CMFD
- 19 (40%) had a significant response to CMFD
- 6/19 (31.6%) had a positive reaction to CM after an oral milk challenge
- Only 9 (19%) had a CoMiSS™ score ≥12 at T0, and 8/9 (89%) had a negative (<12) score at T1.

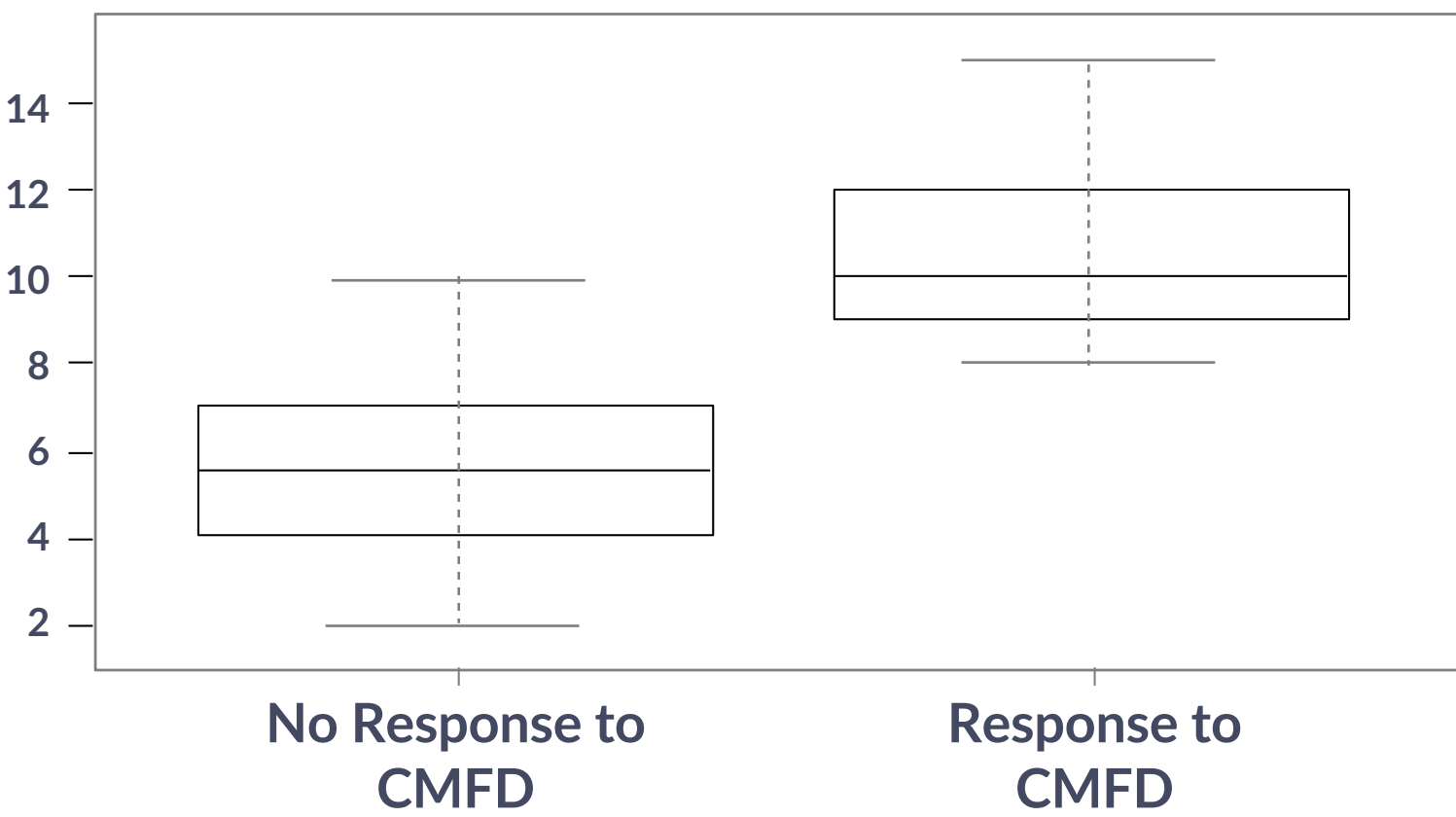
The score of 9 was identified as the best cut-off for the test with 91% of the real positive infants.

Decrease of the CoMiSS™ score in cases on cow's milk-free diet (CMFD) (T1)



CoMiSS™
proves to be a valuable
tool in identifying infants
who would benefit from
CMFD when CMA
is suspected.

Box plot distribution of CoMiSS™ at baseline comparing infants who responded and did not respond to CMFD.



CoMiSS™ key publications
between 2014 and 2021

CoMiSS™ key publications
for updated tool from 2022

CoMiSS™ tool

THE COW'S MILK-RELATED SYMPTOM SCORE (COMISS™): HEALTH CARE PROFESSIONAL AND PARENT AND DAY-TO-DAY VARIABILITY*

Vandenplas Y et al. Nutrients. 2020; 12(2):438.



Study objectives

To assess the inter-rater reliability of the CoMiSS™ between parents and health care professionals (HCPs) and the day-to-day variability of the CoMiSS™ over four consecutive days.



Subjects and methods

A comparison of CoMiSS™ between parents and HCPs was conducted in Spanish healthy infants aged 2–6 months old (n=148). Pediatricians scored the CoMiSS™ based on the history and the physical exam, while parents, blinded to the pediatrician's score, filled in a second CoMiSS™ after the routine visit.

The 4-days CoMiSS™ variability was assessed in Belgian infants aged <6 months old (n=72), comparing the CoMiSS™ obtained by HCPs (t1) and parents (on t2) and between the parental CoMiSS™ recorded on three consecutive days (t2–t4).



Endpoints

CoMiSS™ scored by parents and HCP.



Results

HCP versus Parents: No significant differences were found in CoMiSS™ symptoms or total scores

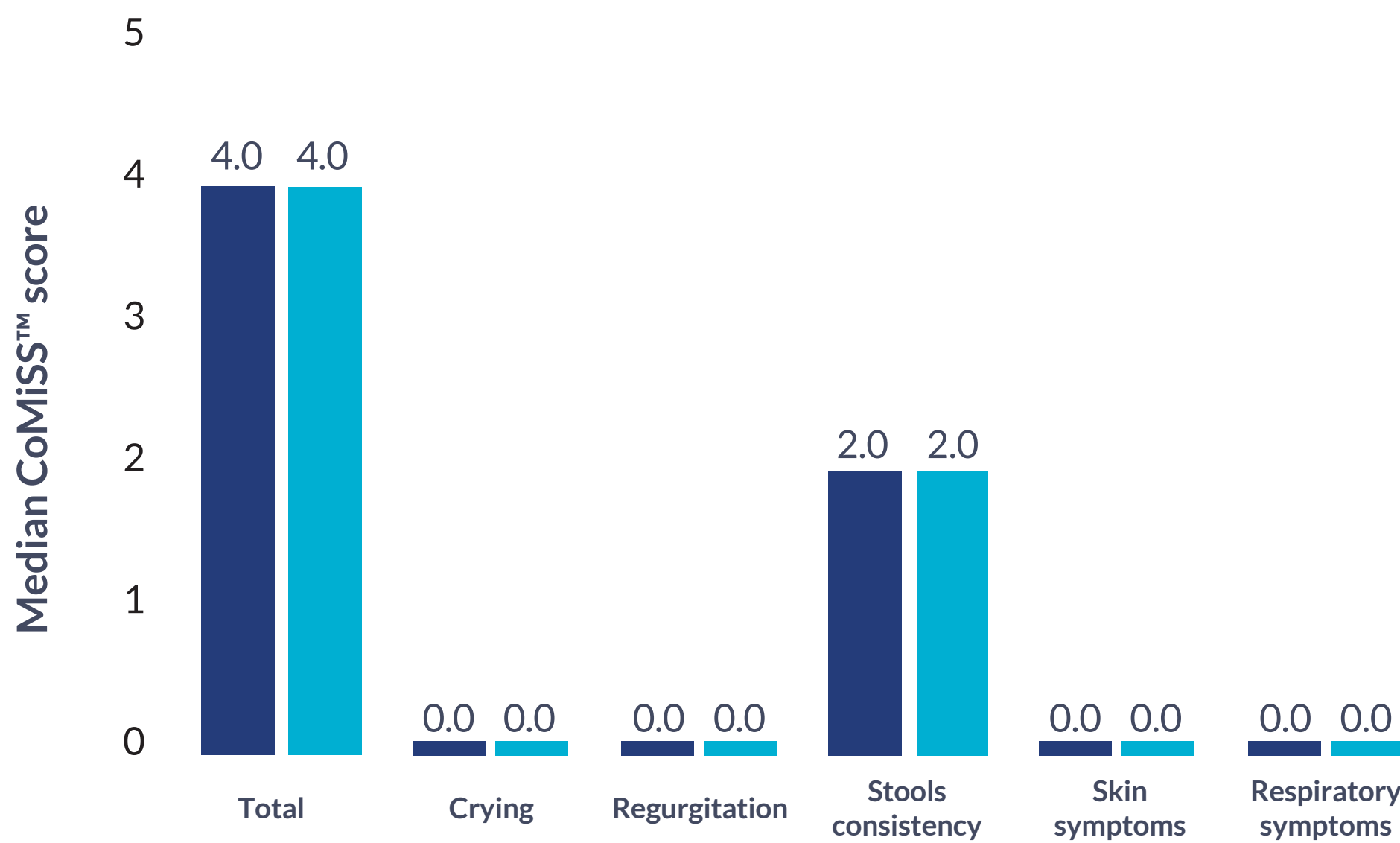
- The agreement between parents and HCPs was 75%, reaching 92.6% and 100% with tolerances of 0, 1, and 2 points.

4-days CoMiSS™ Variability: very low variability was observed when prospectively scoring the CoMiSS™ over three days

- The agreement between healthcare providers (HCPs) and parents was 25% on t1 vs. t2, increasing to 68.1% (with a 2-point tolerance) and 77.8% (with a 3-point tolerance)
- The agreement for the CoMiSS™ by a parent on t2–t4 was 30%, which increased to 80% and 88.6% when a tolerance of respectively 2 and 3 points were accepted.

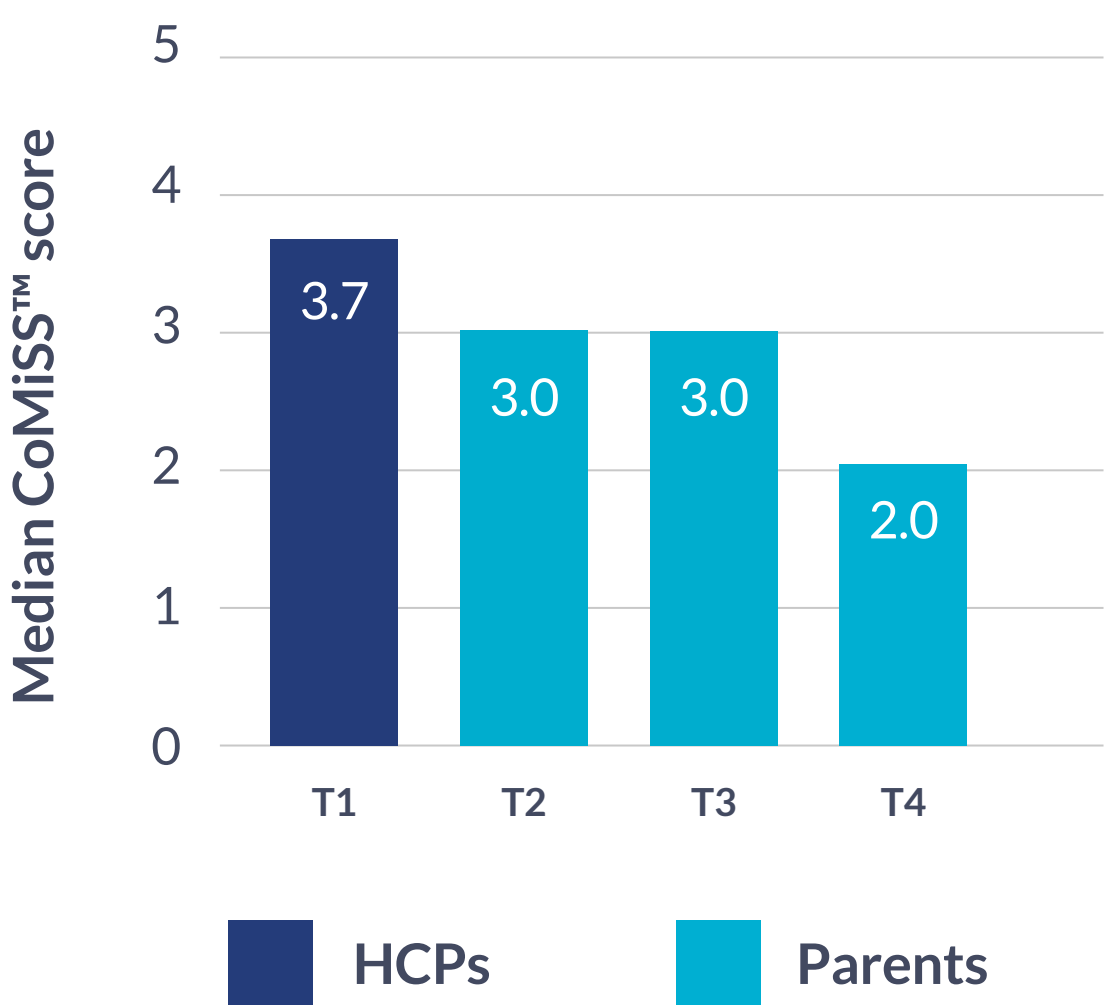
The agreement for CoMiSS™ between parents and pediatricians was excellent, indicating that parents can reliably record the CoMiSS™ at home or in the waiting room before a consultation, with no special training required.

CoMiSS™ agreement between HCPs and parents



The variability of the CoMiSS™ scored prospectively over three days was very low. Simultaneously, the similarity in scoring between parents and healthcare providers indicates that the CoMiSS™ can be reliably scored by parents without additional training

Day-to-day variability of the CoMiSS™ over four consecutive days



* The CoMiSS™ Expert Consensus Panel recommends that CoMiSS™ is used by the HCP in conjunction with the Parent/caregiver, not the Parent/caregiver alone



HOW ARE INFANTS SUSPECTED TO HAVE COW’S MILK ALLERGY MANAGED? A REAL WORLD STUDY REPORT

Vandenplas Y et al. Nutrients. 2021 Aug 30;13(9):3027



Study objectives

To assess the diagnosis and management of infants with symptoms linked to CMA in real-world conditions and to explore how the Cow’s Milk-related Symptom Score (CoMiSS™) can aid in increasing awareness and diagnosing CMA in primary care practice.



Subjects and methods

A multicenter prospective observational single-cohort study in infants aged 0 to 18 months (n=268) with suspected mild to moderate symptoms of CMA.

- CoMiSS™ was evaluated at inclusion and after 3 weeks ± 5 days.
- A satisfaction questionnaire about the use of the CoMiSS™ awareness tool was completed by each healthcare provider (HCPs) at the end of the study.

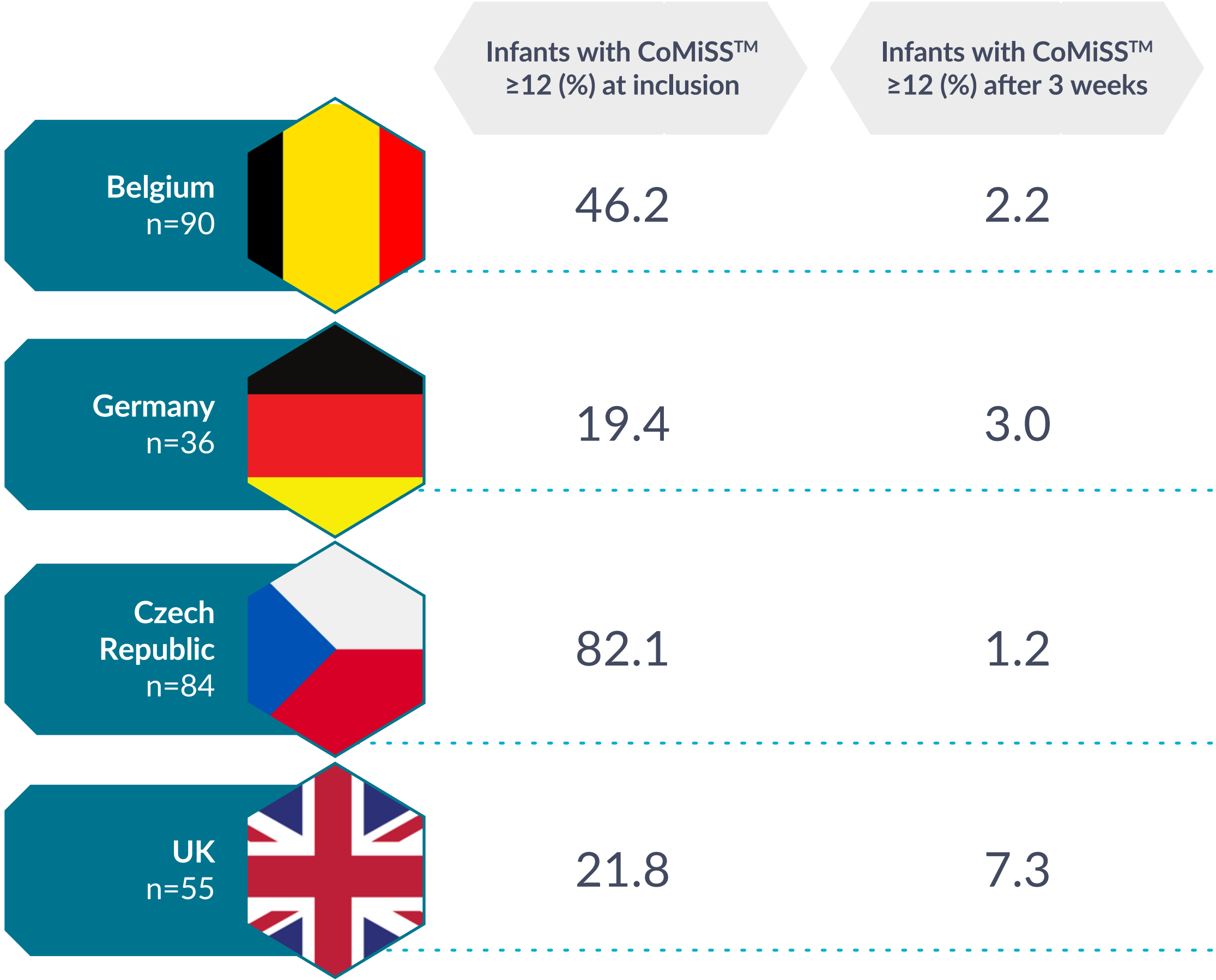


Results

From inclusion to after therapeutic dietary intervention, the reduction in mean and median CoMiSS™ was 6.9 (from 11.1 to 4.2) and 7 (from 11.0 to 4.0), respectively. Moreover, the number of infants who had a CoMiSS™ ≥12 and ≥9 fell from 48.9% to 1.5% (4/268 infants) and 72.3% to 8.6% (23/268 infants), respectively.

An open oral food challenge to confirm CMA was conducted in 17 infants, with 4 (24%) testing positive. Initially, blood tests, including IgE tests, were significantly more requested for infants with a CoMiSS™ ≥12, while skin prick tests were less commonly performed in this group.

CoMiSS™ ≥12: “at risk” for cow's milk allergy



THE COW’S MILK RELATED SYMPTOM SCORE: THE 2022 UPDATE

Vandenplas Y et al. Nutrients. 2022;14(13):2682.



Study objectives

To propose an updated Cow’s Milk Related Symptom Score CoMiSS™ based on extensive research using the tool since its first development in 2014 and publication in 2015.



Subjects and methods

10 international experts, collectively reviewed and discussed published data on CoMiSS™, since its first publication in 2015. Potential modifications were debated, including the removal or addition of symptoms. Each member voted for the proposed updates by marking "agree," "abstain," or "disagree" beside each statement.



Endpoints

Agreed statements regarding the updates to CoMiSS™



Results

All statements achieved more than 80% agreement, with updates including:

- (100%) Overall cut-off score reduced from ≥ 12 to ≥ 10 because a score of ≥ 12 was deemed to have low sensitivity. High sensitivity was considered crucial to ensure the detection of more 'true' positives.
- A lower cut-off of < 6 was included, because a score of < 6 was considered predictive of the absence of CMA.
- (90%) Bristol Stool Scale (BSS) was replaced by Brussels Infant and Toddlers Stool Scale (BITSS), which better reflects the stool consistency of non-toilet trained infants.
- (80%) Angioedema added to acute urticaria because angioedema and urticaria frequently co-exist, and result from similar mechanisms associated with CMA.

2022 CoMiSS™ Update

Updated Components of CoMiSS™

Gastrointestinal symptoms

Bristol Stool Scale replaced by Brussels Infants and Toddlers Stool Scale

Dermatological symptoms

Angioedema added to acute urticaria

- *>1 week should be added to each symptom category to avoid scoring acute causes which are NOT often related to CMA.*
- *Additional information was also added to be clear for whom the tool is not intended and when immediate referral is required.*

CoMiSS™
was updated in 2022 and remains
a useful awareness tool for the
assessment of cow's milk-related
symptoms in infants up to
12 months of age.

Interpretation of final score

<6

Suggests other causes
should be investigated

≥ 10

Suggests higher
likelihood of CMA

CMA: Cow's milk allergy



THE COW'S MILK-RELATED SYMPTOM SCORE (COMISS™): A USEFUL AWARENESS TOOL*

Bajerova K et al. Nutrients 2022; 14(10), 2059.



Study objectives

To summarize available research and evidence for CoMiSS™, particularly its contribution as an awareness tool in the management of infants suspected to have CMA.



Subjects and methods

28 published papers in databases like NCBI/Pubmed, NCBI/PMC, EBSCO/Academic Search Ultimate, and Ovid/Embase, were identified up to 19 February 2022:

25 original studies involving over 3000 infants
1 pooled analysis of 3 studies, and
2 reviews on CoMiSS™



Results

Infants showing symptoms possibly related to CMA had a higher median CoMiSS™ (6 to 13; 16 studies) than healthy infants (3 to 4; 5 studies).

A CoMiSS™ ≥ 12 predicted a positive response to a CM-free diet in infants with CMA

- A significant decrease in CoMiSS™ scores is noted in those with a score ≥ 12 when following a CM elimination diet, regardless of the clinical symptoms and IgE levels.

A CoMiSS™ < 6 was predictive for the absence of CMA. The reliability of repeated assessments was very high and consistent, with an intra-class correlation of 0.93 (meaning there was very little change between their ratings) ($p < 0.001$).

HCPs who used CoMiSS™ in their daily practice found it a helpful and fast-to-use tool, which can be reliably used without the need for special training.

CoMiSS™ helps increase awareness of the most common symptoms associated with CMA supporting earlier diagnosis

CoMiSS™ cannot be considered as a stand-alone diagnostic tool for CMA

KEY FEATURES

- The only tool that raises awareness of CMA symptoms
- Simple, fast and easy to use

POTENTIAL BENEFITS

- Symptom monitoring before and during a CM elimination diet
- A high baseline CoMiSS™ associated with a significant reduction during a CM elimination diet

CoMiSS™
is a simple, fast and easy
to use awareness tool for CMA
and monitoring symptom
improvement.

CoMiSS™ score

<6
Predictive for
the absence of CMA

≥ 12
Predictive for
a positive response to
a CM-elimination diet

CMA: cow's milk allergy, CM: cow's milk



CoMiSS™ key publications
between 2014 and 2021

CoMiSS™ key publications
for updated tool from 2022

CoMiSS™ tool

ASSESSMENT OF THE COW’S MILK-RELATED SYMPTOM SCORE (COMISS™) AS A DIAGNOSTIC TOOL FOR COW’S MILK PROTEIN ALLERGY: A PROSPECTIVE, MULTICENTRE STUDY IN CHINA (MOSAIC STUDY)

Vandenplas Y et al. BMJ Open. 2022;12:e056641.



Study objectives

To assess if CoMiSS™, initially created as an awareness tool, can also serve as an independent diagnostic tool for infants with CMPA.



Subjects and methods

The prospective, single-blind, multicenter study was conducted in non-breastfed infants aged ≤6 months with suspected CMPA. Infants underwent a 2-week cow’s milk protein (CMP) elimination diet with an amino acid based formula AAF (Alfamino®), followed by a standardized hospital-based oral food challenge (OFC) and a 2-week home-based challenge.

- CoMiSS™ was evaluated at inclusion and at the end of the elimination trial.



Endpoints

Area under the curve (AUC)

- AUC ≥0.75 was considered sufficient to validate CoMiSS™ as a diagnostic tool, aiming for a sensitivity of 80%-90% and a specificity of 60%-70%



Results

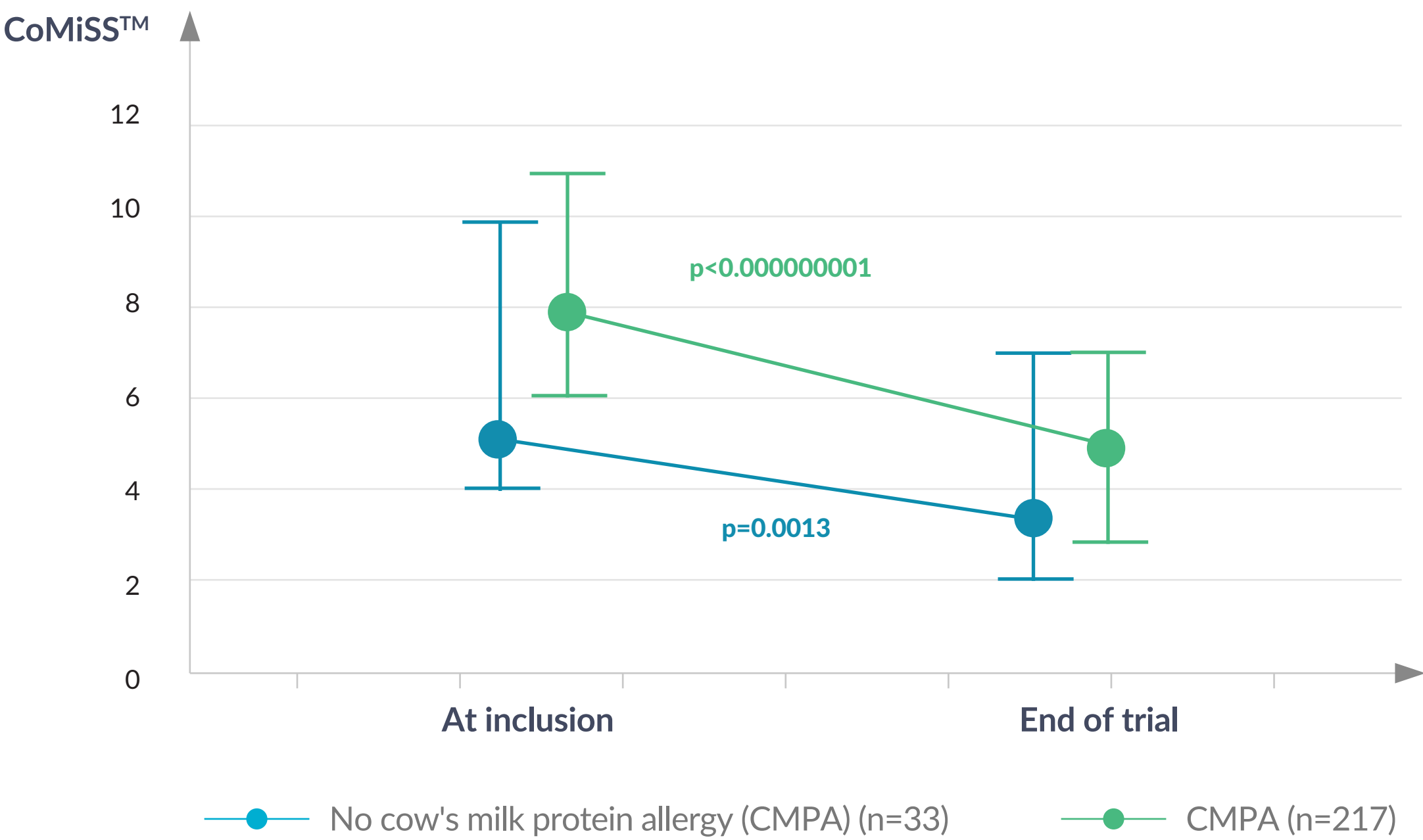
Out of 300 infants, 250 completed both OFC and CMP challenges, 217 were confirmed to have CMPA.

- AUC was 0.67 (I.e. <0.75), therefore could not be considered diagnostic
- An inclusion CoMiSS™ of ≥12 showed low sensitivity (20.3%) but high specificity (87.9%) and a high positive predictive value (91.7%) for identifying CMPA.

Among 217 infants with CMPA, CoMiSS™

- At inclusion was higher (8) compared to CMPA-negative infants (5)
- Significantly decreased from inclusion to the end of the CMP elimination diet (from 8 to 5), a higher reduction than infants without CMPA (from 5 to 3.5). This suggests a potential role for CoMiSS™ in monitoring the response to a diagnostic elimination diet.

Total Cow’s Milk-related Symptom Score (CoMiSS™)



CoMiSS™
was not concluded to be
a diagnostic tool for CMPA,
but remains a clinically useful
awareness tool to help identify
infants with cow’s milk-related
symptoms.



CoMiSS™ key publications
between 2014 and 2021

CoMiSS™ key publications
for updated tool from 2022

CoMiSS™ tool

COW'S MILK-RELATED SYMPTOM SCORE (COMISS™): FROM BRISTOL TO BRUSSELS STOOL SCALE

Bajerova et al. Journal of Pediatric Gastroenterology and Nutrition. 2023 November 77(5):p 618-622



Study objectives





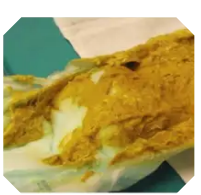


To assess if the Brussels Infants and Toddlers Stool Scale (BITSS) can be used in place of the Bristol Stool Form Scale (BSFS) in non-toilet-trained infants without affecting the reliability of CoMiSS™ results related to cow's milk allergy (CMA) awareness.



Subjects and methods

A prospective observational multicenter study, including subjects aged <13 months (n=294), who were assessed by CoMiSS™ using the 7 images from the BSFS (CoMiSS-BSFS) compared to the 4 images of stools from BITSS (CoMiSS-BITSS).

Brussels Infants & Toddlers Stool Scale (BITSS)

			Hard stools	4			Loose stools	4
			Formed stools	0			Watery stools	6



Results

With the original cutoff of ≥12, switching from BSFS to BITSS resulted in:

- only 2/844 infants (0.24%) moving from a score of below to above the cutoff
- only 1/844 infants (0.12%) moved from a score above to below the cutoff

With the revised cutoff of ≥10:

- 3/844 infants (0.36%) shifted from below to above the cutoff
- no infants moved from a score above to below the cutoff

There were no significant differences in the groups with CoMiSS-BSFS scores of ≥6 (p=0.81), ≥10 (p=0.84), ≥12 (p=0.48) compared to CoMiSS-BITSS.

The significant difference was confined to the group with a CoMiSS-BSFS score of ≤5 (p<0.001)

CoMiSS™ switching from BSFS to BITSS



Compared CoMiSS-BSFS vs. CoMiSS-BITSS



Using BITSS instead of BSFS in CoMiSS does not modify CoMiSS™ for values ≥6 and thus does not change the cutoff for infants in whom cow's milk-related symptoms cannot be excluded.

CMA: Cow milk allergy, CoMiSS™: Cow's Milk-Related Symptom Score, BITSS: Brussels Infants and Toddlers Stool Scale, BSFS: Bristol Stool Form Scale

Switching from CoMiSS-BSFS to CoMiSS-BITSS preserves the established CMA awareness cutoff, with no impact on its clinical application



COW'S MILK-RELATED SYMPTOM SCORE (COMISS™) VALUES IN PRESUMED HEALTHY EUROPEAN INFANTS AGED 6–12 MONTHS: A CROSS-SECTIONAL STUDY

Jankiewicz, et al. Eur J Pediatr 183, 707–713 (2024).



Study objectives

The study aimed to assess CoMiSS™ values in healthy infants aged 6 to 12 months, facilitating better interpretation of these values for symptomatic patients within the common age range for diagnosing Cow's Milk Allergy (CMA).



Subjects and methods

Conducted internationally from September 2022 to April 2023, this multicenter cross-sectional study investigates healthy children aged 6 to 12 months attending clinics for routine follow-up visits or vaccinations, with comprehensive data collection encompassing gestational age, gender, age, type of feed (breast milk or infant formula), and details on complementary feeding.



Endpoints

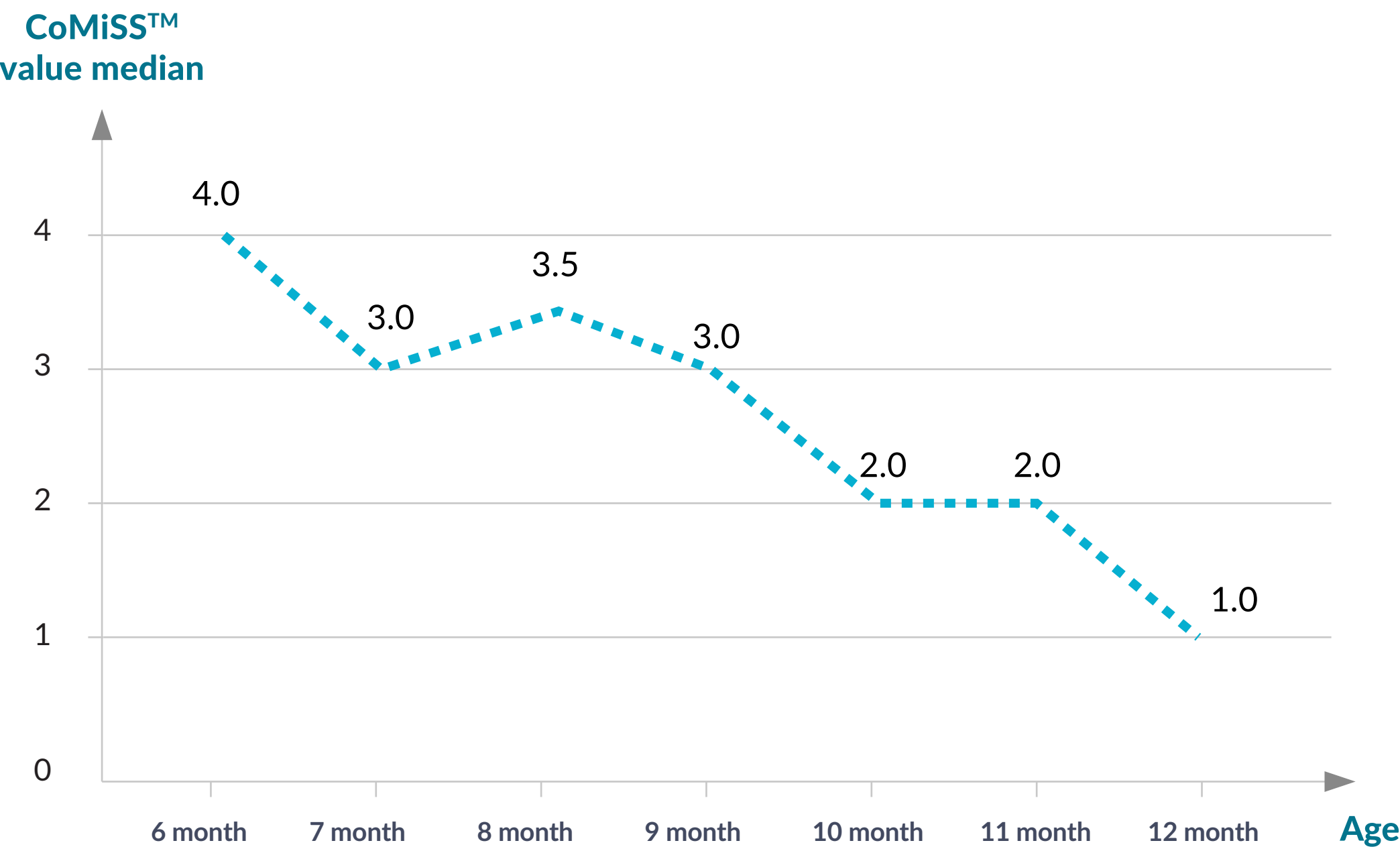
CoMiSS™ values in European infants aged 6 to 12 months.



Results

The overall median CoMiSS™ value was 3, with 1.3% of children having CoMiSS™ ≥ 10 . No differences in CoMiSS™ values were observed by gender or feeding type (including crying, skin, and respiratory symptoms). However, the total CoMiSS™ score varied by age, being highest at 6 months and lowest at 12 months, as seen in regurgitation and stool scores.

- 30% of infants at 6 months old exhibit a stool score of 4 or above
- 2.8% (17 infants) had regurgitation scores >3 , primarily at 6 months (58%). None had total volume regurgitations, with only 0.2% (one infant) regurgitating half the volume in at least half of their meals.
- No infant exhibited severe respiratory symptoms.
- Only 1 infant (0.2%) reported experiencing urticaria.



The study expands CoMiSS™ value data in healthy European infants aged 6 to 12 months, emphasizing the influence of age on CoMiSS™ values. Further research is required to evaluate CoMiSS™ as a tool for assessing cow's milk-related symptoms in infants beyond 6 months.



CoMiSS™ key publications
between 2014 and 2021

CoMiSS™ key publications
for updated tool from 2022

CoMiSS™ tool

REFERENCE

1. Vandenplas Y et al. Nutrients. 2020; 12(2):438.
2. Vandenplas Y et al. PLoS One. 2018 Jul 18;13(7):e0200603.
3. Bajero K et al. Nutrients 2022; 14(10), 2059.
4. Vandenplas Y et al. BMJ Open. 2022;12:e056641.
5. Yvan Vandenplas et al. Acta Pædiatrica. 2015;104(4):334-339.
6. Vandenplas Y et al. Nutrients. 2021 Aug 30;13(9):3027.
7. Salvatore S et al. Nutrients. 2019;11(10):2402.
8. Bajero K et al. Journal of Pediatric Gastroenterology and Nutrition. 2023 November 77(5):p 618-622.
9. Jankiewicz M, et al. Eur J Pediatr 183, 707–713 (2024).
10. Vandenplas Y et al. Nutrients. 2022;14(13):2682.

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User Guide



2022 Tool

In 2022, updates were made to CoMiSS™.
The updated CoMiSS™ and User Guide
can be downloaded using the QR code.