# הודעה על החמרה ( מידע בטיחות) בעלון לצרכן

17.05.2016 :תאריך

שם תכשיר באנגלית: TOPAMAX 25, 50,100,200

מספרי רישום:

טופמקס טבליות 25 מ"ג: 25 29031 00

טופמקס טבליות 50 מ"ג: 50 29032 00

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טופמקס טבליות 200 מ"ג: 200 200 107 58 29034 00

שם בעל הרישום: J-C Health care

ההחמרות המבוקשות			
טקסט חדש	טקסט נוכחי	פרק בעלון	
אם הנך בהריון , עשויה להיכנס להריון, או חושבת שהנך בהריון (ראי סעיף "הריון והנקה" למידע נוסף).  אם הנך מניקה (ראי סעיף "הריון והנקה" למידע נוסף).  אם הנך סובל או סבלת בעבר מתפקוד לקוי של הכליה, במיוחד במקרה שאתה סובל בעיות בכליות, בייחוד מאבנים בכליות או שהנך חולה המטופל בדיאליזה  אם יש לך היסטוריה של בעיות הקשורה לנוזלי הדם והגוף (חמצת מטבולית metabolic acidosis).  אם הנך סובל או סבלת בעבר מתפקוד לקוי של הכבד	<ul> <li>אם הנך בהריון , עשויה להיכנס להריון, או חושבת שהנך בהריון (ראי סעיף "הריון והנקה" למידע נוסף).</li> <li>אם הנך מניקה (ראי סעיף "הריון והנקה" למידע נוסף).</li> <li>וסף אם הנך סובל או סבלת בעבר מתפקוד לקוי של הכליה, במיוחד במקרה שאתה סובל מאבנים בכליות או שהנך חולה המטופל בדיאליזה</li> <li>אם יש לך היסטוריה של בעיות הקשורה לנוזלי הדם</li> </ul>	אין להשתמש בתרופה מבלי להיוועץ ברופא לפני התחלת הטיפול אם	

	,	
- <del>אם הנך סובל או סבלת בעבר</del> מתפקוד <del>לקוי של העיניים</del> בעיות בעיניים	והגוף (חמצת מטבולית metabolic acidosis).	הינך סובל מ
(בייחוד אם הנך סובל מגלאוקומה)	אם הנך סובל או סבלת בעבר מתפקוד לקוי של -	
<del>אם יש לך</del> בעיות גדילה <del>-</del>	הכבד	
אם הנך מבצע דיאטה קטוגנית (דיאטה דלת פחמימות ורבת שומנים) -	אם הנך סובל או סבלת בעבר מתפקוד לקוי של -	
הינך בהריון או עשויה להיכנס להריון (ראי סעיף הריון והנקה למידע נוסף)-	העיניים (בייחוד אם הנך סובל <del>/ת</del> מגלאוקומה)	
	אם יש לך בעיות גדילה	
	אם הנך מבצע דיאטה קטוגנית (דיאטה דלת -	
- <del>אם הנך מבצע דיאטה קטוגנית (דיאטה דלת פחמימות ורבת שומנים)</del>	פחמימות ורבת שומנים)	
	אם הנך סובל או סבלת בעבר מדיכאון, בעיות מצב	
אם הנך סובל או סבלת בעבר מדיכאון, בעיות מצב רוח או מחשבות או- בתבנות עובדנים	רוח או מחשבות או התנהגות אובדניות.	
<del>התנהגות אובדניות.</del> אם הנך סובל מעצמות פריכות , חלשות, רכות , ירידה בצפיפות עצם		
אט הגן סוב <i>ר מעצמות פריכות</i> , וו <i>ז שות, רכות , יריו</i> ה בצפיפות עצם (osteomalacia, osteoporosis, osteopenia)	אם הנך סובל מעצמות פריכות , חלשות, רכות ,	
<del>(usteurnalacia, usteupurusis, usteuperila)</del> אם הנך טובל מבעיות בריאות או בעיות נשימה	ירידה בצפיפות עצם ,osteomalacia)	
אם הנך משלשל	osteoporosis, osteopenia)	
אם הנך עומד לעבור ניתוח <del>- אם הנך עומד לעבור ניתוח</del>	אם הנך סובל מבעיות בריאות או בעיות נשימה-	
אם דונן עונוד דעבוו נדנודו	אם הנך משלשל- -	
	אם הנך עומד לעבור ניתוח-	
אם הנך רגיש למזון כלשהו או לתרופה כלשהי, עליך להודיע על כך	אם הנך רגיש למזון כלשהו או לתרופה כלשהי, עליך -	
לרופא לפני נטילת התרופה.	להודיע על כך לרופא לפני נטילת התרופה.	
מומלץ שנשים בגיל הפוריות תשתמשנה באמצעי מניעה נאותים-	מומלץ שנשים בגיל הפוריות תשתמשנה באמצעי-	
בהתייעצות עם הרופא) במשך הטיפול בתכשיר (בהתייעצות עם הרופא)	מניעה נאותים (בהתייעצות עם הרופא) במשך הטיפול	
<u>אין להפסיק שימוש בתרופה לפני התייעצות עם הרופא</u>	בתכשיר	
אם אחד מהמצבים מעלה רלוונטים אליך, שוחח עם הרופא טרם השימוש	אין להפסיק שימוש בתרופה לפני התייעצות עם הרופא.	
<mark>בתרופה.</mark>		
חשוב כי לא תפסיק לקחת את התרופה ללא התייעצות תחילה עם הרופא.		
אין לקחת כל תרופה אחרת המכילה טופירמט הניתנת לך כתחליף לתרופה זו-		
ללא התייעצות תחילה עם הרופא.		
- יתכן ובזמן השימוש בטופמקס תאבד ממשקלך. יש להישקל באופן קבוע		

בזמן הטיפול עם טופמקס. אם הנך מאבד משקל רב או ילד המטופל בטופמקס אינו עולה <mark>מספיק</mark> במשקל, יש להיוועץ ברופא. אין לשתות יינות או משקאות חריפים בתקופת הטיפול עם התרופה יש להמנע משתיית אלכוהול בתקופת הטיפול עם התרופה.	<u>אין לשתות יינות</u> או משקאות חריפים בתקופת הטיפול עם התרופה	שימוש בתרופה וצריכת אלכוהול
אם הנך בהריון או מניקה, חושבת שהנך עשויה להיות בהריון או מתכננת להיכנס להריון, התייעצי עם הרופא לפני תחילת הטיפול.  מרופא ישוחח עמך על שימוש באמצעי מניעה, כמו גם האם טופמקס מתאימה לך  השימוש בתרופה יכול לגרום לסחרחורת, עייפות ובעיות ראייה . כן לפגום בערנות ועל כן מחייב זהירות בנהיגה ברכב, בהפעלת מכונות מסוכנות ובכל פעילות המחייבת ערנות. באשר לילדים יש להזהירם מרכיבה על אופניים או ממשחקים בקירבת הכביש וכדומה.  ממשחקים בקירבת הכביש וכדומה.  אל תנהג או תשתמש במכונות מסוכנות לפני שתשוחח תחילה עם הרופא. באשר לילדים יש להזהירם מרכיבה על אופניים או ממשחקים בקרבת הכביש וכדומה.	אם הנך בהריון או מניקה, חושבת שהנך עשויה להיות בהריון או מתכננת להיכנס להריון, התייעצי עם הרופא לפני תחילת הטיפול. הרופא יחליט האם את יכולה לקחת טופמקס השימוש בתרופה יכול לגרום לסחרחור ות, עייפות ובעיות ראייה וכן לפגום בערנות ועל כן מחייב זהירות בנהיגה ברכב, בהפעלת מכונות מסוכנות ובכל פעילות המחייבת ערנות. באשר לילדים יש להזהירם מרכיבה על אופניים או ממשחקים בקירבת הכביש וכדומה	הריון והנקה נהיגה ושימוש במכונות
אם נטלת מנת יתר יתכן ותחוש ישנוני,עייף או פחות עירני, תחווה חוסר קואורדינציה, <del>תנועות גוף לא רגילות, קשיים בעמידה ובהליכה,</del> קושי בדיבור או קושי בריכוז,ראייה כפולה או ראייה מטושטשת, תחושת דיכאון או עצבנות, כאב בטן, פירכוסים לא רגילים, סחרחורת עקב לחץ דם נמוך <del>או פעימות לב לא רגילים</del> , מינון יתר יכול להתרחש כאשר אתה נוטל תרופות אחרות יחד עם טופמקס	אם נטלת מנת יתר יתכן ותחוש ישנוני,עייף או פחות עירני, חוסר קואורדינציה, תנועות גוף לא רגילות, קשיים בעמידה ובהליכה, קושי בדיבור או קושי בריכוז,ראייה כפולה או ראייה מטושטשת, תחושת דיכאון או עצבנות, כאב בטן, פירכוסים לא רגילים, סחרחורת עקב לחץ דם נמוך או פעימות לב לא רגילות. מינון יתר יכול להתרחש כאשר אתה נוטל תרופות אחרות יחד עם טופמקס.	כיצד תשתמש בתרופה?

### <u>תופעות לוואי</u>

פנה לרופא באופן מיידי אם הנך מבחין באחת התופעות הבאות:

תופעות לוואי שכיחות מאד- תופעות שמופיעות ביותר ממשתמש אחד מעשרה: דיכאון (חדש או החמרה)

תופעות לוואי שכיחות - תופעות שמופיעות ב- 1-10 משתמשים מתוך 100: פירכוסים, חרדה, עצבנות, שינויים במצב הרוח, בילבול, אי-התמצאות, הפרעות בריכוז, האטה בחשיבה, איבוד זיכרון, בעיות בזיכרון (חדש, שינוי פתאומי או החמרה), אבנים בכליות, השתנה תכופה או כואבת.

תופעות לוואי שאינן שכיחות - תופעות שמופיעות ב- 1-10 משתמשים מתוך 1,000: עלייה ברמת החומצה בדם (עלול לגרום לבעיות בנשימה כולל קוצר נשימה, איבוד תיאבון, בחילה, הקאות, עייפות מוגזמת ודפיקות לב מהירות ו או לא שוות), ירידה או אובדן ההזעה, מחשבות וניסיונות לפגיעה עצמית חמורה.

תופעות לוואי נוספות אשר במידה ומחמירות יידע את הרופא:

תופעות לוואי שכיחות מאד- תופעות שמופיעות ביותר ממשתמש אחד מעשרה:

- גודש באף, נזלת ו או כאב גרון •
- דקירה, כאב ו/או חוסר תחושה בחלקים שונים בגוף
  - נמנום או ישנוניות
    - עייפות •
    - סחרחורת
      - שלשול •
      - בחילה
    - ירידה במשקל

פנה לרופא באופן מיידי אם הנך מבחין באחת התופעות הבאות: תופעות לוואי שכיחות מאד- תופעות שמופיעות ביותר ממשתמש אחד מעשרה: דיכאון (חדש או החמרה)

תופעות לוואי שכיחות - תופעות שמופיעות בעד 1 מתוך 10 משתמשים ב-1-10 משתמשים מתוך 100: פירכוסים, חרדה, עצבנות, שינויים במצב הרוח, בילבול, אי-התמצאות, הפרעות בריכוז, האטה בחשיבה, איבוד זיכרון, בעיות בזיכרון (חדש, שינוי פתאומי או החמרה), אבנים בכליות, השתנה תכופה או כואבת.

תופעות לוואי שאינן שכיחות - תופעות שמופיעות בעד 1 מתוך 100 משתמשים ב- 1-10 משתמשים מתוך 1,000 עלייה ברמת החומצה בדם (עלול לגרום לבעיות בנשימה כולל קוצר נשימה, איבוד תיאבון, בחילה,הקאות, עייפות מוגזמת ודפיקות לב מהירות + או לא שוות), ירידה או אובדן ההזעה (בייחוד בילדים צעירים החשופים לטמפרטורות גבוהות), מחשבות וניסיונות לפגיעה עצמית חמורה, איבוד חלק משדה הראייה.

תופעות לוואי נוספות אשר במידה ומחמירות יידע את הרופא: תופעות לוואי שכיחות מאד- תופעות שמופיעות ביותר ממשתמש אחד מעשרה:

- גודש באף, נזלת וּ או כאב גרון •
- דקירה, כאב ו/או חוסר תחושה בחלקים שונים בגוף
  - נמנום או ישנוניות
    - עייפות •
    - סחרחורת
      - שלשול
      - בחילה
    - ירידה במשקל

תופעות לוואי שכיחות - תופעות שמופיעות בעד 1 מתוך 10 משתמשים <del>ב- 1-10 משתמשים מתוך 100 :</del>

### אנמיה (ספירת דם נמוכה)

- תגובה אלרגית (כגון פריחה בעור, אדמומיות, גרד, נפיחות בפנים, סרפדת)
  - ירידה בתיאבון או אובדן תיאבון •
  - תוקפנות, חרדה, כעס, <mark>התנהגות לא רגילה</mark>
- התכווצות או עווית בשרירים, <del>פרכוס שרירים</del>, כאבים או חולשת שרירים

## תופעות לוואי נדירות - תופעות שמופיעות בעד 1 מתוך 1000 משתמשים <del>ב- 1-10 משתמשים מתוך 10,000</del>:

- מצב רוח מרומם באופן לא רגיל
  - אובדן הכרה
- עיוורון בעין אחת, עיוורון זמני, עיוורון לילה
  - עין עצלה •
- <del>נפיחות ברקמה שמסביב לעין</del> נפיחות <mark>בעין</mark> ומסביב לעין

## תופעות לוואי נוספות, ששכיחותן אינה ידועה:

- "מקולופטיה" מחלה של אזור ה"כתם (מקולה)" בעין. זוהי הנקודה הקטנה ברשתית שבה הראייה הינה החדה ביותר. במידה והנך מבחין בשינוי או בירידה בראייה – יש לפנות לרופא.
- תופעה Toxic epidermal necrolysis תופעה עורית חמורה יותר מסינדרום סטיבנס ג'ונסון ומסכנת חיים המאופיינת בשלפוחיות מפושטות והיפרדות העור . (ראה/י תופעות לוואי נדירות).
- רמות אמוניה גבוהות בדם. רמות אמוניה גבוהות בדם עלולות להשפיעה על פעילות מנטלית, להאט ערנות, לגרום לעייפות ולהקאות. הדבר מתרחש כאשר טופמקס נילקח עם תרופה הנקראת חומצה ולפרואית.

# <u>תופעות לוואי בילדים ומתבגרים</u>

תופעות הלוואי בילדים דומות באופן כללי לאלו במבוגרים<mark>. אולם תופעות</mark>

# תופעות לוואי שכיחות - תופעות שמופיעות בעד 1 מתוך 10 משתמשים ב- 1-10 משתמשים מתוך 100

אנמיה (ספירת דם נמוכה)

- תגובה אלרגית (כגון פריחה בעור, אדמומיות, גרד, נפיחות בפנים, סרפדת)
  - ירידה בתיאבון או אובדן תיאבון
    - תוקפנות, חרדה, כעס
- התכווצות או עווית בשרירים, פרכוס שרירים,
   כאבים או חולשת שרירים

## תופעות לוואי נדירות - תופעות שמופיעות ב- 1-10 משתמשים מתוך 10,000:

- מצב רוח מרומם באופן לא רגיל
  - אובדן הכרה
- עיוורון בעין אחת, עיוורון זמני, עיוורון לילה
  - עין עצלה •
  - נפיחות ברקמה שמסביב לעין

### תופעות לוואי נוספות, ששכיחותן אינה ידועה:

- "מקולופטיה" מחלה של אזור ה"כתם (מקולה)"
   בעין. זוהי הנקודה הקטנה ברשתית שבה הראייה
   הינה החדה ביותר. במידה והנך מבחין בשינוי או
   בירידה בראייה יש לפנות לרופא.
- תסמונת אפידרמיס רעיל Poecrolysis תופעה עורית חמורה יותר מסינדרום סטיבנס ג'ונסון ומסכנת חיים המאופיינת בשלפוחיות מפושטות והיפרדות העור . (ראה/י תופעות לוואי נדירות).
- רמות אמוניה גבוהות בדם. רמות אמוניה גבוהות בדם עלולות להשפיעה על פעילות מנטלית, להאט ערנות,

לגרום לעייפות ולהקאות. הדבר מתרחש כאשר טופמקס נילקח עם תרופה הנקראת חומצה ולפרואית.

### תופעות לוואי בילדים ומתבגרים

תופעות הלוואי בילדים דומות באופן כללי לאלו במבוגרים אולם, תופעות לוואי מסוימות נראות בתדירות גבוהה יותר בילדים ו/או יכולות להיות חמורות יותר בילדים מאשר מבוגרים.

תופעות לוואי אשר הינן חמורות יותר כוללות ירידה או איבוד הזעה ועליה ברמת החומצה בדם. תופעות לוואי שעלולות להתרחש בתדירות גבוהה יותר בילדים כוללות מחלות של דרכי הנשימה העליונות.

יש לשים לב במיוחד בילדים לירידה בכמות ההזעה -ועליה בטמפרטורת הגוף.

## הלוואי הבאות עלולות להיות שכיחות יותר בילדים מאשר מבוגרים:

-בעיות בריכוז -עלייה ברמת החומצה בדם -מחשבות על פגיעה עצמית חמורה -ירידה או עלייה בתאבון -תוקפנות, התנהגות לא רגילה -קושי להירדם או לישון -תחושת חוסר יציבות בהליכה -הרגשה לא טובה -ירידה ברמות אשלגן בדם -חוסר הצגה או חוסר תחושה של רגשות

תופעות לוואי אחרות העלולות להתרחש בילדים:

## תופעות לוואי שכיחות - מופיעות בעד 1 מתוך 10 משתמשים

תחושת סיחרור (ורטיגו)-

-קצב לב איטי או לא רגיל

ולןאנו

-חום

# תופעות לוואי לא שכיחות - מופיעות בעד 1 מתוך 100 משתמשים

-עליה ברמת האזונופילים (סוג של כדורית דם לבנה) בדם

היפראקטיביות<mark>-</mark>

עיניים דומעות-

-תחושת חו<mark>ם</mark>

<mark>-קשיי למידה</mark>

אולם, תופעות לוואי מסוימות נראות בתדירות גבוהה יותר בילדים ו/או יכולות להיות חמורות יותר בילדים מאשר מבוגרים.

תופעות לוואי אשר הינן חמורות יותר כוללות ירידה או איבוד הזעה ועליה ברמת החומצה בדם. תופעות לוואי שעלולות להתרחש בתדירות גבוהה יותר בילדים כוללות מחלות של דרכי הנשימה העליונות. - יש לשים לב במיוחד בילדים לירידה בכמות ההזעה ועליה בטמפרטורת הגוף.

# הודעה על החמרה ( מידע בטיחות) בעלון לרופא

פרטים על השינוי/ים המבוקש/ים			
טקסט חדש	טקסט נוכחי	פרק בעלון	
Excipients with known effect  Also includes lactose monohydrate:		QUALITATIVE AND QUANTITATIVE COMPOSITION	
25 mg tablet contains 30.85 mg lactose monohydrate;			
50 mg tablet contains 61.70 mg lactose monohydrate;			
100 mg tablet contains 123.40 mg lactose monohydrate;			
200 mg tablet contains 43.50 mg lactose monohydrate.			
For the full list of excipients, see section 6.1.			

Migraine	Migraine	Posology An
<u>Adults</u>	<u>Adults</u>	Method Of Administration
The recommended total daily dose of topiramate for	The recommended total daily dose of	
prophylaxis of migraine headache is 100 mg/day	topiramate for prophylaxis of migraine	
administered in two divided doses. Titration should	headache is 100 mg/day administered in	
begin at 25 mg nightly for 1 week. The dosage	two divided doses. Titration should begin at	
should then be increased in increments of 25	25 mg nightly for 1 week. The dosage	
mg/day administered at 1-week intervals. If the	should then be increased in increments of	
patient is unable to tolerate the titration regimen,	25 mg/day administered at 1-week intervals.	
longer intervals between dose adjustments can be	If the patient is unable to tolerate the	
used.	titration regimen, longer intervals between	
	dose adjustments can be used.	
Some patients may experience a benefit at a total		
daily dose of 50 mg/day. Patients have received a	Some patients may experience a benefit at	
total daily dose up to 200 mg/day. This dose may	a total daily dose of 50 mg/day. Patients	
be benefit in some patients, nevertheless, caution is	have received a total daily dose up to 200	
advised due to an increase incidence of side	mg/day. Dose and titration rate should be	
effects.	guided by clinical outcome (See	
Dose and titration rate should be guided by clinical	Pharmacodynamic Properties).	
outcome (See Pharmacodynamic Properties).		

Paediatric population  Topamax (topiramate) is not recommended for treatment or prevention of migraine in children due to insufficient data on safety and efficacy.		
Special Populations		
<u>Elderly</u>		
No dose adjustment is required in the elderly population providing renal function is intact.		
Migraine prophylaxis in pregnancy and in women of childbearing potential if not using a highly effective methods of contraception.	Migraine prophylaxis in pregnancy and in women of childbearing potential if not using effective methods of contraception.	Contraindications
Renal Impairment	Renal Impairment	Special warnings and
The major route of elimination of unabanged		precautions for use
The major route of elimination of unchanged topiramate and its metabolites is via the kidney.	The major route of elimination of unchanged	
	topiramate and its metabolites is via the	
Renal elimination is dependent on renal function	kidney. Renal elimination is dependent on	
and is independent of age. Patients with moderate	renal function and is independent of age.	
or severe renal impairment may take 10 to 15 days	Patients with moderate or severe renal	
to reach steady-state plasma concentrations as	impairment may take 10 to 15 days to reach	

compared to 4 to 8 days in patients with normal renal function.

As with all patients, the titration schedule should be guided by clinical outcome (i.e., seizure control, avoidance of side effects) with the knowledge that subjects with known renal impairment may require a longer time to reach steady-state at each dose (See Posology and Method of Administration; Pharmacokinetic Properties).

#### Suicide/Suicidal Ideation

Antiepileptic drugs (AEDs), including, TOPAMAX®, increase the risk of suicidal thoughts or behavior in patients taking these drugs for any indication. A meta-analysis of randomized placebo-controlled trials of anti-epileptic drugs has shown an increased risk of suicidal ideation and behavior (0.43% on anti-epileptic drugs versus 0.24% on placebo). The mechanism of this risk is not known.

Suicidal ideation and behaviour have been reported in patients treated with anti-epileptic agents in several indications. A meta-analysis of randomised placebo-controlled trials of AEDs has shown a small increased risk of suicidal ideation and behaviour. The mechanism of this risk is not known and the available data do not exclude the possibility of an increased risk for topiramate.

steady-state plasma concentrations as compared to 4 to 8 days in patients with normal renal function.

As with all patients, the titration schedule should be guided by clinical outcome (i.e., seizure control, avoidance of side effects) with the knowledge that subjects with known renal impairment may require a longer time to reach steady-state at each dose (See Posology and Method of Administration; Pharmacokinetic Properties).

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In double-blind clinical trials, suicide related events (suicidal ideation, suicide attempts, and suicide) occurred at a frequency of 0.5% in topiramate treated patients (46 out of 8,652 patients treated) compared to 0.2% treated with placebo (8 out of 4,045 patients treated). One completed suicide was

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### Metabolic Acidosis

Hyperchloremic, non-anion gap, metabolic acidosis (i.e., decreased serum bicarbonate below the normal reference range in the absence of chronic respiratory alkalosis) is associated with topiramate treatment. This decrease in serum bicarbonate is due to the inhibitory effect of topiramate on renal carbonic anhydrase. Generally, the decrease in bicarbonate occurs early in treatment although it can occur at any time during treatment. These decreases are usually mild to moderate (average decrease of 4 mmol/L at doses of 100 mg/day or above in adults and at approximately 6 mg/kg/day in pediatric patients);. Rarely, patients can experience decreases to values below 10 mmol/L. Conditions or therapies that predispose to acidosis (such as renal disease, severe respiratory disorders, status epilepticus, diarrhea, surgery, ketogenic diet, or certain medicinal products drugs)

reported in a bipolar disorder double-blind trial in a patient on topiramate.

### Metabolic Acidosis

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may be additive to the bicarbonate lowering effects of topiramate.

Chronic metabolic acidosis increases the risk of renal stone formation and may potentially lead to osteopenia.

Chronic, untreated metabolic acidosis may increase the risk for nephrolithiasis or nephrocalcinosis, and may also result in osteomalacia (referred to as rickets in pediatric patients) and/or osteoporosis with an increased risk for fractures.

Chronic metabolic acidosis in pediatric patients can reduce growth rates. The effect of topiramate on growth and bone-related sequelae has not been systematically investigated in pediatric or adult populations.

Hyperammonemia and Encephalopathy (Without and
With Concomitant Valproic Acid [VPA] Use)

Hyperammonemia/Encephalopathy Without
Concomitant Valproic Acid (VPA)

Topiramate treatment has produced hyperammonemia (in some instances dose-related) in clinical investigational programs of adolescents (12-16 years) who were treated with topiramate monotherapy for migraine prophylaxis (incidence

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Hyperammonemia and Encephalopathy

(Without and With Concomitant Valproic

Acid [VPA] Use)

Hyperammonemia/Encephalopathy
Without Concomitant Valproic Acid
(VPA)

Topiramate treatment has produced hyperammonemia (in some instances doserelated) in clinical investigational programs of adolescents (12-16 years) who were above the upper limit of normal, 22% for placebo, 26% for 50 mg/day, 41% for 100 mg/day) and in very young pediatric patients (124 months) who were treated with adjunctive topiramate for partial onset epilepsy (8% for placebo, 10% for 5 mg/kg/day, 0% for 15 mg/kg/day, 9% for 25 mg/kg/day). TOPAMAX® is not approved as monotherapy for migraine prophylaxis in adolescent patients or as adjunctive treatment of partial onset seizures in pediatric patients less than 2 years old. In some patients, ammonia was markedly increased (>50% above upper limit of normal). In adolescent patients, the incidence of markedly increased hyperammonemia was 6% for placebo, 6% for 50 mg, and 12% for 100 mg topiramate daily.

The hyperammonemia associated with topiramate treatment occurred with and without encephalopathy in placebo-controlled trials and in an open-label, extension trial. Dose-related hyperammonemia was also observed in the extension trial in pediatric patients up to 2 years old. Clinical symptoms of hyperammonemic encephalopathy often include acute alterations in level of consciousness and/or cognitive function with lethargy or vomiting.

Hyperammonemia with and without encephalopathy

treated with topiramate monotherapy for migraine prophylaxis (incidence above the upper limit of normal, 22% for placebo, 26% for 50 mg/day, 41% for 100 mg/day) and in very young pediatric patients (124 months) who were treated with adjunctive topiramate for partial onset epilepsy (8% for placebo, 10% for 5 mg/kg/day, 0% for 15 mg/kg/day, 9% for 25 mg/kg/day). TOPAMAX® is not approved as monotherapy for migraine prophylaxis in adolescent patients or as adjunctive treatment of partial onset seizures in pediatric patients less than 2 years old. In some patients, ammonia was markedly increased (>50% above upper limit of normal). In adolescent patients, the incidence of markedly increased hyperammonemia was 6% for placebo, 6% for 50 mg, and 12% for 100 mg topiramate daily.

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has also been observed in post-marketing reports in patients—who—were—taking—topiramate—without concomitant valproic acid (VPA).

# Hyperammonemia/Encephalopathy With Concomitant Valproic Acid (VPA)

Concomitant administration of topiramate and valproic acid (VPA) has been associated with hyperammonemia with or without encephalopathy in patients who have tolerated either drug alone based upon post-marketing reports. Although hyperammonemia may be asymptomatic, clinical symptoms of hyperammonemic encephalopathy often include acute alterations in level of consciousness and/or cognitive function with lethargy or vomiting. In most cases, symptoms and signs abated with discontinuation of either drug. This adverse reaction is not due to a pharmacokinetic interaction.

Although TOPAMAX® is not indicated for use in infants/toddlers (1-24 months), TOPAMAX® with concomitant VPA clearly produced a dose-related increase in the incidence of treatment-emergent hyperammonemia (above the upper limit of normal, 0% for placebo, 12% for 5 mg/kg/day, 7% for 15 mg/kg/day, 17% for 25 mg/kg/day) in an

years old. Clinical symptoms of hyperammonemic encephalopathy often include acute alterations in level of consciousness and/or cognitive function with lethargy or vomiting.

Hyperammonemia with and without encephalopathy has also been observed in post-marketing reports in patients who were taking topiramate without concomitant valproic acid (VPA).

# Hyperammonemia/Encephalopathy With Concomitant Valproic Acid (VPA)

Concomitant administration of topiramate and valproic acid (VPA) has been associated with hyperammonemia with or without encephalopathy in patients who have tolerated either drug alone based upon post-marketing reports. Although hyperammonemia may be asymptomatic, clinical symptoms of hyperammonemic encephalopathy often include acute alterations in level of consciousness and/or cognitive function with lethargy or vomiting. In most cases, symptoms and signs abated with discontinuation of either drug. This

investigational program. Markedly increased, dose-related hyperammonemia (0% for placebo and 5 mg/kg/day, 7% for 15 mg/kg/day, 8% for 25 mg/kg/day) also occurred in these infants/toddlers. Dose-related hyperammonemia was similarly observed in a long-term extension trial in these very young, pediatric patients.

Hyperammonemia with and without encephalopathy has also been observed in post-marketing reports in patients taking topiramate with VPA.

The hyperammonemia associated with topiramate treatment appears to be more common when topiramate is used concomitantly with VPA.

### **Monitoring for Hyperammonemia**

Patients with inborn errors of metabolism or reduced hepatic mitochondrial activity may be at an increased risk for hyperammonemia with or without encephalopathy. Although not studied, topiramate treatment or an interaction of concomitant topiramate and valproic acid treatment may exacerbate existing defects or unmask deficiencies in susceptible persons.

In patients who develop unexplained lethargy, vomiting, or changes in mental status associated with any topiramate treatment, hyperammonemic

adverse reaction is not due to a pharmacokinetic interaction.

Although TOPAMAX® is not indicated for use in infants/toddlers (1-24 months), TOPAMAX® with concomitant VPA clearly produced a dose-related increase in the incidence of treatment-emergent hyperammonemia (above the upper limit of normal, 0% for placebo, 12% for 5 mg/kg/day, 7% for 15 mg/kg/day, 17% for 25 mg/kg/day) in an investigational program. Markedly increased, dose-related hyperammonemia (0% for placebo and 5 mg/kg/day, 7% for 15 mg/kg/day, 8% for 25 mg/kg/day) also occurred in these infants/toddlers. Dose-related hyperammonemia was similarly observed in a long-term extension trial in these very young, pediatric patients.

Hyperammonemia with and without encephalopathy has also been observed in post-marketing reports in patients taking topiramate with VPA.

The hyperammonemia associated with topiramate treatment appears to be more common when topiramate is used

encephalopathy should be considered and an ammonia level should be measured.

Hypothermia with Concomitant Valproic Acid (VPA) Use Hypothermia, defined as an unintentional drop in body core temperature to <35°C, has been reported in association with topiramate use with concomitant valproic acid (VPA) both in conjunction with hyperammonemia and in the absence of hyperammonemia. This adverse reaction in patients using concomitant topiramate and valproate can occur after starting topiramate treatment or after increasing the daily dose of topiramate. Consideration should be given to stopping topiramate or valproate in patients who develop hypothermia, which may be manifested by a variety of clinical abnormalities including lethargy, confusion, coma, and significant alterations in other major organ systems such as the cardiovascular and respiratory systems. Clinical management and assessment should include examination of blood ammonia levels.

#### **Paresthesia**

Paresthesia (usually tingling of the extremities), an effect associated with the use of other carbonic anhydrase inhibitors, appears to be a common effect of TOPAMAX®. Paresthesia was more

concomitantly with VPA.

### **Monitoring for Hyperammonemia**

Patients with inborn errors of metabolism or reduced hepatic mitochondrial activity may risk be at an increased for without hyperammonemia with encephalopathy. Although not studied, topiramate treatment or an interaction of concomitant topiramate and valproic acid treatment may exacerbate existing defects or unmask deficiencies in susceptible persons.

In patients who develop unexplained lethargy, vomiting, or changes in mental status associated with any topiramate treatment, hyperammonemic encephalopathy should be considered and an ammonia level should be measured.

## Hypothermia with Concomitant Valproic Acid (VPA)

<u>Use</u>

Hypothermia, defined as an unintentional drop in body core temperature to <35°C, has been reported in association with topiramate use with concomitant valproic acid (VPA) both in conjunction with

frequently reported in the monotherapy epilepsy trials and migraine prophylaxis trials than in the adjunctive therapy epilepsy trials. In the majority of instances, paresthesia did not lead to treatment discontinuation.

Hyperammonemia and Encephalopathy (Without and With Concomitant Valproic Acid® [VPA] Use)

Hyperammonemia/Encephalopathy Without Concomitant Valproic Acid (VPA)

Topiramate treatment has produced hyperammonemia (in some instances dose-related) in a clinical investigational program in adolescent patients (12 to 17 years) given topiramate for migraine prophylaxis. The incidence of hyperammonemia (above the upper limit of normal reference) at any time in the trial was 9% for placebo, 14% for 50 mg, and 26% for 100 mg topiramate daily. In some patients, hyperammonemia was observed at the end of the trial at the final visit. The incidence of markedly increased hyperammonemia (at least 50% or higher above upper limit of normal) at any time in the trial in adolescent patients was also increased at 100 mg/day (9%) compared to 50 mg topiramate (0%) or placebo (3%). During this trial, markedly increased ammonia levels returned to normal in all but one patient (in whom the ammonia level fell to high instead of markedly abnormal).

Topiramate treatment has produced hyperammonemia in a clinical investigational program in very young pediatric

hyperammonemia and in the absence of hyperammonemia. This adverse reaction in patients using concomitant topiramate and valproate can occur after starting topiramate treatment or after increasing the daily dose of topiramate. Consideration should be given to stopping topiramate or valproate in patients who develop hypothermia, which may be manifested by a variety of clinical abnormalities including lethargy, confusion, coma, and significant alterations in other major organ systems such as the cardiovascular and respiratory systems. Clinical management and assessment should include examination of blood ammonia levels.

### Paresthesia

Paresthesia (usually tingling of the extremities), an effect associated with the use of other carbonic anhydrase inhibitors, appears to be a common effect of TOPAMAX® . Paresthesia was more frequently reported in the monotherapy epilepsy trials and migraine prophylaxis trials than in the adjunctive therapy epilepsy trials. In the majority of instances, paresthesia did not lead to treatment

patients (1 to 24 months) who were treated with adjunctive topiramate for partial onset epilepsy (8% for placebo, 10% for 5 mg/kg/day, 0% for 15 mg/kg/day, 9% for 25 mg/kg/day). In some patients, ammonia was markedly increased (≥ 50% above upper limit of normal). The hyperammonemia associated with topiramate treatment occurred with and without encephalopathy in placebo-controlled trials and in an open-label, extension trial of infants with refractory epilepsy. Dose-related hyperammonemia was observed in the extension trial in pediatric patients up to 2 years old. Clinical symptoms of hyperammonemic encephalopathy often include acute alterations in level of consciousness and/or cognitive function with lethargy or vomiting. TOPAMAX is not approved as adjunctive treatment of partial onset seizures in pediatric patients less than 2 years old.

Hyperammonemia with and without encephalopathy has also been observed in post-marketing reports in patients who were taking topiramate without concomitant valproic acid (VPA).

Hyperammonemia/Encephalopathy With Concomitant Valproic Acid (VPA)

Concomitant administration of topiramate and valproic acid (VPA) has been associated with hyperammonemia with or without encephalopathy in patients who have tolerated either drug alone based upon post-marketing reports. Although hyperammonemia may be asymptomatic, clinical symptoms of hyperammonemic encephalopathy often include acute alterations in level of

discontinuation.

consciousness and/or cognitive function with lethargy or vomiting. In most cases, symptoms and signs abated with discontinuation of either drug. This adverse reaction is not due to a pharmacokinetic interaction.

Although TOPAMAX is not indicated for use in infants/toddlers (1–24 months), TOPAMAX with concomitant VPA clearly produced a dose-related increase in the incidence of treatment-emergent hyperammonemia (above the upper limit of normal, 0% for placebo, 12% for 5 mg/kg/day, 7% for 15mg/kg/day, 17% for 25 mg/kg/day) in an investigational program. Markedly increased, dose-related hyperammonemia (0% for placebo and 5 mg/kg/day, 7% for 15 mg/kg/day, 8% for 25 mg/kg/day) also occurred in these infants/toddlers. Dose-related hyperammonemia was similarly observed in a long-term extension trial in these very young, pediatric patients [see Use in Specific Populations (8.4)].

Hyperammonemia with and without encephalopathy has also been observed in post-marketing reports in patients taking topiramate with VPA.

The hyperammonemia associated with topiramate treatment appears to be more common when topiramate is used concomitantly with VPA.

### Monitoring for Hyperammonemia

Patients with inborn errors of metabolism or reduced hepatic mitochondrial activity may be at an increased risk for hyperammonemia with or without encephalopathy. Although not studied, topiramate treatment or an interaction of concomitant topiramate and valproic acid treatment may exacerbate existing defects or unmask deficiencies in susceptible persons.

In patients who develop unexplained lethargy, vomiting, or changes in mental status associated with any topiramate treatment, hyperammonemic encephalopathy should be considered and an ammonia level should be measured

Oral Contraceptives: In a pharmacokinetic interaction study in healthy volunteers with a concomitantly administered combination oral contraceptive product containing 1 norethindrone (NET) plus 35 mcg ethinyl estradiol (EE), TOPAMAX<sup>®</sup> given in the absence of other medications at doses of 50 to 200 mg/day was not associated with statistically significant changes in mean exposure (AUC) to either component of the oral contraceptive. In another study, exposure to EE was statistically significantly decreased at doses of 200, 400, and 800 mg/day (18%, 21%, and 30%, respectively) when given as adjunctive therapy in patients taking valproic acid. In both studies, TOPAMAX® (50 mg/day to 800 mg/day) (50-200mg/day in healthy volunteers and 200-800mg/day in epilepsy patients) did not significantly affect exposure to NET. Although there was a dose dependent decrease in EE exposure for doses between 200-800 mg/day (in epilepsy patients),

Oral Contraceptives: In a pharmacokinetic interaction study in healthy volunteers with a concomitantly administered combination oral contraceptive product containing 1 mg norethindrone (NET) plus 35 mcg ethinyl estradiol (EE), TOPAMAX® given in the absence of other medications at doses of 50 to 200 mg/day was not associated with statistically significant changes in mean exposure (AUC) to either component of the oral contraceptive. In another study, exposure to EE was statistically significantly decreased at doses of 200, 400, and 800 mg/day (18%, 21%, and 30%, respectively) when given as adjunctive therapy in patients taking valproic acid. In both studies, TOPAMAX<sup>®</sup> (50 mg/day to 800 mg/day) did not significantly affect exposure to NET. Although there was a dose dependent decrease in EE exposure for doses between

Interactions With Other Medicinal Products And Other Forms Of Interaction

there was no significant dose dependent change in	200-800 mg/day, there was no significant	
EE exposure for doses of 50-200 mg/day (in	dose dependent change in EE exposure for	
healthy volunteers). The clinical significance of the	doses of 50-200 mg/day . The clinical	
changes observed is not known.	significance of the changes observed is not	
	known.	
USE DURING PREGNANCY	USE DURING PREGNANCY	
Studies in animals have shown reproductive toxicity	Studies in animals have shown reproductive	pregnancy
(see PRECLINICAL SAFETY DATA Section ). In	toxicity (see PRECLINICAL SAFETY DATA	
rats, topiramate crosses the placental barrier.	Section ). In rats, topiramate crosses the	
rate, tephramate ereces and pracental samen	placental barrier.	
There are no adequate and well-controlled studies	placemar barrieri	
using TOPAMAX <sup>®</sup> in pregnant women.	There are no adequate and well-controlled	
	studies using TOPAMAX <sup>®</sup> in pregnant	
TOPAMAX <sup>®</sup> can cause fetal harm when	women.	
administered to a pregnant woman. Data from	<u>@</u>	
pregnancy registries indicate that infants exposed	TOPAMAX <sup>®</sup> can cause fetal harm when	
to topiramate in utero have an increased risk of	administered to a pregnant woman. Data	
congenital malformations (e.g., craniofacial defects,	from pregnancy registries indicate that	
such as cleft lip/palate, hypospadias, and	infants exposed to topiramate in utero have	
anomalies involving various body systems). This	an increased risk of congenital	
has been reported with topiramate monotherapy	malformations (e.g., craniofacial defects,	
and topiramate as part of a polytherapy regimen.	such as cleft lip/palate, hypospadias, and	
Compared with a reference group not taking	anomalies involving various body systems).	
Compared with a reference group not taking antiepileptic drugs, registry data for TOPAMAX®	This has been reported with topiramate	
monotherapy showed a higher prevalence of low	monotherapy and topiramate as part of a	

birth weight (<2500 grams). A causal relationship has not been established.

In addition, data from these registries and other studies indicate that, compared with monotherapy, there is an increased risk of teratogenic effects associated with the use of anti-epileptic drugs in combination therapy.

TOPAMAX®-should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. In treating and counseling women of childbearing potential, the prescribing physician should weigh the benefits of therapy against the risks and consider alternative therapeutic options. If this drug is used during pregnancy or if the patient becomes pregnant while taking this drug, the patient should be apprised of the potential hazard to the fetus.

Topiramate is contraindicated in pregnancy and in women of childbearing potential if an effective method of contraception is not used.

### **Pregnancy**

Risk related to epilepsy and AEDs in general

Specialist advice should be given to women who are of childbearing potential. The need for treatment

polytherapy regimen.

Compared with a reference group not taking antiepileptic drugs, registry data for TOPAMAX® monotherapy showed a higher prevalence of low birth weight (<2500 grams). A causal relationship has not been established.

In addition, data from these registries and other studies indicate that, compared with monotherapy, there is an increased risk of teratogenic effects associated with the use of anti-epileptic drugs in combination therapy.

TOPAMAX® should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. In treating and counseling women of childbearing potential, the prescribing physician should weigh the benefits of therapy against the risks and consider alternative therapeutic options. If this drug is used during pregnancy or if the patient becomes pregnant while taking this drug, the patient should be apprised of the potential hazard to the fetus.

Topiramate is contraindicated in pregnancy

with AEDs should be reviewed when a woman is planning to become pregnant. In women being treated for epilepsy, sudden discontinuation of AED therapy should be avoided as this may lead to breakthrough seizures that could have serious consequences for the woman and the unborn child.

Monotherapy should be preferred whenever possible because therapy with multiple AEDs could be associated with a higher risk of congenital malformations than monotherapy, depending on the associated antiepileptics.

Risk related to topiramate

Topiramate was teratogenic in mice, rats and rabbits (see section 5.3). In rats, topiramate crosses the placental barrier.

Clinical data from pregnancy registries indicate that infants exposed to topiramate monotherapy have:

 An increased risk of congenital malformations (particularly cleft lip/palate, hypospadias, and anomalies involving various body systems) following exposure during the first trimester. The and in women of childbearing potential if an effective method of contraception is not used .

North American Antiepileptic Drug pregnancy registry data for topiramate monotherapy showed an approximate 3-fold higher incidence of major congenital malformations, compared with a reference group not taking AEDs. In addition, data from other studies indicate that, compared with monotherapy, there is an increased risk of teratogenic effects associated with the use of AEDs in combination therapy.

- A higher prevalence of low birth weight (<2500 grams) compared with a reference group.
- An increased prevalence of being small for gestational age (SGA; defined as birth weight below the 10<sup>th</sup> percentile corrected for their gestational age, stratified by sex). The long term consequences of the SGA findings could not be determined.

It is recommended that women of child bearing potential use highly effective contraception (see section 4.5) and consider alternative therapeutic

# options.

# Indication epilepsy

It is recommended to consider alternative therapeutic options in women of child bearing potential. If topirmate is used in women of child bearing potential, it is recommended that highly effective contraception be used (see section 4.5), and that the woman is fully informed of the known risks of uncontrolled epilepsy to the pregnancy and the potential risks of the medicinal product to the foetus. If a woman plans a pregnancy, a preconceptional visit is recommended in order to reassess the treatment, and to consider other therapeutic options. In case of administration during the first trimester, careful prenatal monitoring should be performed.

Indication migraine prophylaxis

Topiramate is contraindicated in pregnancy and in women of childbearing potential if a highly effective method of contraception is not used (see sections 4.3 and 4.5).

**USE DURING LACTATION** 

# **Breast-feeding**

Topiramate is excreted in the milk of lactating rats. Animal studies have shown excretion of topiramate in milk. The excretion of topiramate in human milk has not been evaluated in controlled studies. Limited observations in patients suggest an extensive excretion of topiramate into breast milk. Since many medicinal products drugs are excreted in human milk, a decision should be made whether to suspend discontinue breast feeding or to discontinue/ / abstain from topiramate therapy taking into account the importance of the medicinal product to the mother (see section 4.4). the drug, taking into account the importance of the drug to the mother.

The highest topiramate overdose reported was calculated to be between 96 and 110 g and resulted in coma lasting 20 to 24 hours followed by full recovery after 3 to 4 days.	The highest topiramate overdose reported was calculated to be between 96 and 110 g and resulted in coma lasting 20 to 24 hours followed by full recovery after 3 to 4 days.	Overdose
Animal studies did not reveal impairment of fertility by topiramate (see section 5.3). The effect of topiramate on human fertility has not been established.  Topamax has minor or moderate influence on the ability to drive and use machines. TOPAMAX® acts on the central nervous system and may produce drowsiness, dizziness or other related symptoms. It may also cause visual disturbances and/or blurred vision. These adverse events could potentially be dangerous in patients driving a vehicle or operating machinery, particularly until such time as the individual patient's experience with the medicinal product drug is established.	TOPAMAX® acts on the central nervous system and may produce drowsiness, dizziness or other related symptoms.It may also cause visual disturbances and/or blurred vision. These adverse events could potentially be dangerous in patients driving a vehicle or operating machinery, particularly until such time as the individual patient's experience with the drug is established.	Effects On Ability To Drive And Use Machines

Adverse events:	

## **Undesirable Effects**

Throughout this section, adverse reactions are presented. Adverse reactions are adverse events that were considered to be reasonably associated with the use of topiramate based on the comprehensive assessment of the available adverse event information. A causal relationship with topiramate cannot be reliably established in individual cases. Further, because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in clinical practice.

#### **Clinical Trial Data**

The safety of TOPAMAX® was evaluated from a clinical trial database consisting of 4111 patients (3182 on TOPAMAX® and 929 on placebo) who participated in 20 double-blind trials and 2847 patients who participated in 34 open-label trials, respectively, for the treatment of primary generalized tonic-clonic seizures, partial onset seizures, seizures associated with Lennox-Gastaut syndrome, newly or recently diagnosed epilepsy or migraine. The information presented in this section was derived from pooled data.

The majority of all adverse reactions were mild to moderate in severity.

# Double-Blind, Placebo-Controlled Data, Adjunctive Epilepsy Trials - Adult Patients

Adverse Drug Reactions (ADRs) reported in ≥1% of TOPAMAX®-treated adult patients in double-blind, placebo-controlled adjunctive epilepsy trials are shown in Table 1. ADRs that had an incidence >5% in the recommended dose range (200 to 400 mg/day) in adults in double-blind, placebo-controlled adjunctive epilepsy studies in descending order of frequency included somnolence, dizziness, fatigue, irritability, weight decreased, bradyphrenia, paresthesias, diplopia, coordination abnormal, nausea, nystgamus, lethargy, anorexia, dysarthria, vision blurred, decreased appetite, memory impairment and diarrhoea.

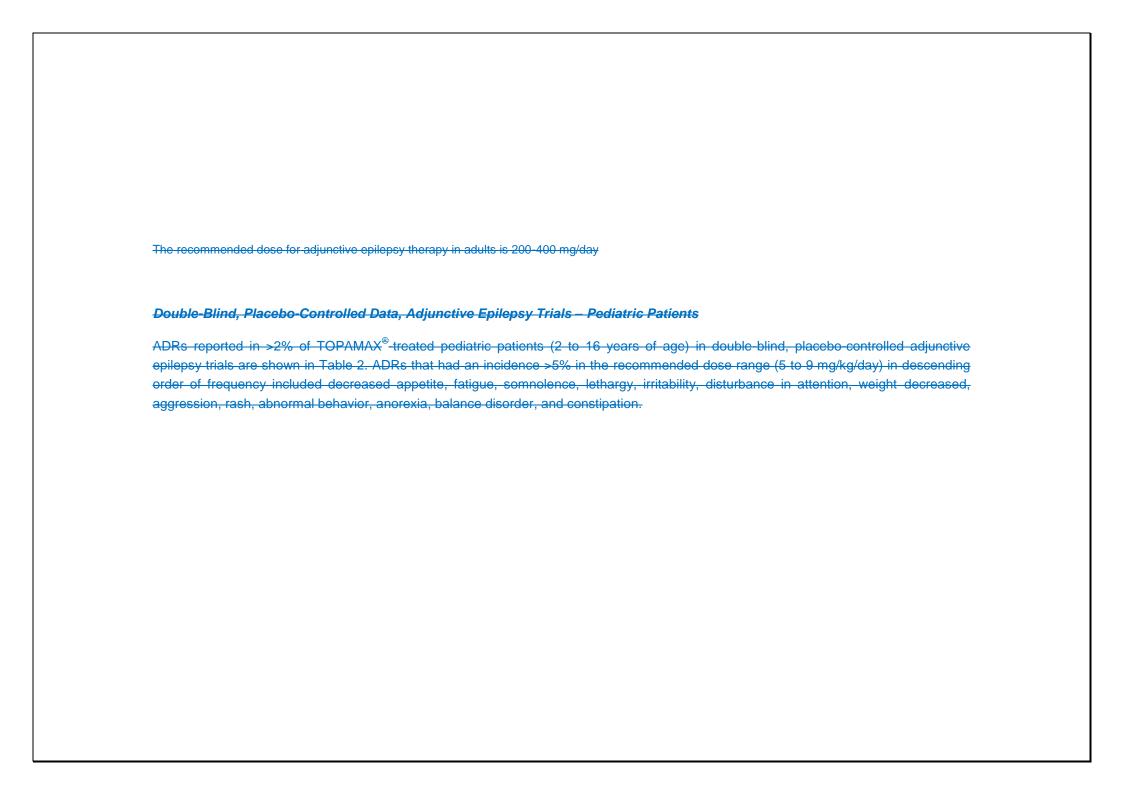


Table 2: Adverse Drug Reactions Reported by ≥2% of TOPAMAX®-Treated Pediatric patients in Double-Blind, Placebe-Controlled, Adjunctive Epilepsy Trials

Double-Blind, Placebo-Controlled, Ad	TOPAMAX	PLACEBO
System/Organ Class	<del>(N=104)</del>	(N=102)
Adverse Reaction	<del>9/0</del>	<del>%</del>
Metabolism and Nutrition Disorders		
Decreased appetite	<del>19.2</del>	<del>12.7</del>
Anorexia	<del>5.8</del>	<del>1.0</del>
Psychiatric Disorders		
Aggression	<del>8.7</del>	<del>6.9</del>
Abnormal behavior	<del>5.8</del>	3.9
Confusional state	<del>2.9</del>	2.0
Mood altered	<del>2.9</del>	<del>2.0</del>
Nervous System Disorders		
Somnolence	<del>15.4</del>	6.9
Lethargy	<del>13.5</del>	8.8
Disturbance in attention	<del>10.6</del>	<del>2.0</del>
Balance disorder	<del>5.8</del>	<del>2.0</del>
Dizziness	4.8	<del>2.9</del>
Memory impairment	3.8	<del>1.0</del>
Respiratory, Thoracic and Mediastinal		
Disorders		
<del>Epistaxis</del>	4.8	<del>1.0</del>
Gastrointestinal Disorders		
Constipation	<del>5.8</del>	4.9
Skin and Subcutaneous Tissue Disorders		
Rash	<del>6.7</del>	<del>5.9</del>
General Disorders and Administration Site		
Conditions Fatigue	<del>16.3</del>	4.9
Irritability	<del>10.5</del> <del>11.5</del>	<del>4.3</del> 8.8
Gait disturbance		0.0
	4.8	<del>2.0</del>
	0.6	1.0
Investigations Weight decreased The recommended dose for adjunctive enilensy the	9.6	1.0

The recommended dose for adjunctive epilepsy therapy in children (2-16 years of age) is 5 to 9 mg/kg/day.

Double-Blind, Controlled Data, Monotherapy Epilepsy Trials - Adult Patients
ADRs reported in ≥1% of TOPAMAX®-treated adult patients in double-blind, controlled monotherapy epilepsy trials are shown in Table 3.
ADRs that had an incidence >5% at the recommended dose (400 mg/day) in descending order of frequency included paraesthesia, weight
decreased, fatigue, anorexia, depression, memory impairment, anxiety, diarrhoea, asthenia, dysguesia, and hypoesthesia.
abbroaded, rangue, arterexia, depresent, memory impairment, arxiety, diarmesa, astronia, dyogusola, and hyposothosia.

Table 3: Adverse Drug Reactions Reported by ≥1% of TOPAMAX®-Treated Adult Patients in Double-Blind, Controlled Monotherapy Epilepsy Trials **TOPAMAX TOPAMAX** 50 mg/day 400 mg/day System/Organ Class (N=257)(N=153)**Adverse Reaction %** Blood and Lymphatic System Disorders Anemia 0.8 2.0 **Metabolism and Nutrition Disorders Anorexia** 3.5 12.4 Decreased appetite 2.3 2.6 **Psychiatric Disorders Depression** 4.3 8.5 **Anxiety** 3.9 6.5 Bradyphrenia
Expressive language disorder 2.3 4.6 3.5 4.6 Depressed mood 0.8 2.6 **Mood altered** 0.4 2.0 **Mood swings** 1.6 2.0 **Nervous System Disorders Paresthesia** <del>18.7</del> 40.5 Memory impairment 1.2 7.2 **Dysgeusia** 2.3 5.9 Hypoesthesia 4.3 5.2 Balance disorder 1.6 3.3 **Dysarthria** 1.6 2.6 Cognitive disorder 0.4 2.0 Lethargy 1.2 2.0 Mental impairment 0.8 2.0 Psychomotor skills impaired 0 2.0 Sedation 0 1.3 Visual field defect 0.4 1.3 **Eye Disorders** 0 1.3 **Ear and Labyrinth Disorders** Ear pain 0 1.3 **Tinnitus** 1.6 1.3 **Respiratory, Thoracic and Mediastinal Disorders** 1.2 2.0 **Dyspnea** 0 1.3 **Gastrointestinal Disorders Diarrhea** 6.5 5.4 Paresthesia oral 1.2 3.3 Dry mouth 0.4 2.6 Gastritis 0.8 2.6 Abdominal pain 1.2 2.0 Gastroesophageal reflux disease 0.4 2.0 Gingival bleeding 0 1.3 Skin and Subcutaneous Tissue Disorders Rash 0.4 3.9 **Alopecia** 1.6 3.3 Hypoesthesia facial 0.4 2.0

0

1.3

Pruritus generalized

Table 3: Adverse Drug Reactions Reported by ≥1% of TOPAMAX®-Treated Adult Patients in Double-Blind, Controlled Monotherapy Epilepsy Trials

	Billia, Controlled Melletinerapy Epilepsy 11	Talo		_
		TOPAMAX	<b>TOPAMAX</b>	
		-50 mg/day	-400 mg/day	
	System/Organ Class	<del>(N=257)</del>	(N=153)	
	Adverse Reaction	<del>%</del>	<del>%</del>	
	Musculoskeletal and Connective Tissue			
	<del>Disorders</del>			
	Muscle spasms	<del>2.7</del>	3.3	
Double-Blind,	Arthralgia	<del>1.9</del>	<del>2.0</del>	Controlled Data,
Monotherapy	Muscle twitching	0.4	<del>1.3</del>	Epilepsy Trials -
• •	Renal and Urinary Disorders			
<del>Pediatric</del>	Nephrolithiasis	θ	<del>2.6</del>	<del>Patients</del>
	<del>Dysuria</del>	<del>0.8</del>	<del>2.0</del>	
ADRs reported in	Pollakiuria	<del>0.8</del>	<del>2.0</del>	≥2% of
TOPAMAX®-	Reproductive System and Breast Disorders			treated pediatric
	Erectile dysfunction	0.8	<del>1.3</del>	•
patients (10 to 16	General Disorders and Administration Site			<del>years of age) in</del>
<del>double-blind,</del>	Conditions			controlled
monotherapy	<del>Fatigue</del>	<del>15.2</del>	<del>14.4</del>	epilepsy trials are
• •	Asthenia	<del>3.5</del>	<del>5.9</del>	
shown in Table 4.	<u>Irritability</u>	<del>3.1</del>	<del>3.3</del>	ADRs that had an
incidence >5% at	Investigations			the
	Weight decreased	7.0	<del>17.0</del>	
recommended	The recommended dose for monotherapy therapy in adults	<del>is 400 mg/day.</del>		dose (400

mg/day) in descending order of frequency included weight decreased, paraesthesia, diarrhoea, disturbance in attention, pyrexia, and alopecia.

Table 4: Adverse Drug Reactions Reported by ≥2% of TOPAMAX®-Treated Pediatric Patients in Double-Blind, Controlled Monotherapy Epilepsy Trials

	TOPAMAX	TOPAMAX	
	<del>-50 mg/day</del>	-400 mg/day	
System/Organ Class	<del>(N=77)</del>	<del>(N=63)</del>	
Adverse Reaction	<del>%</del>	<del>%</del>	
Metabolism and Nutrition Disorders			
<del>Decreased appetite</del>	<del>1.3</del>	4.8	
Psychiatric Disorders			
Bradyphrenia Bradyphrenia	0	4.8	
Mood altered	<del>1.3</del>	4.8	
Depression	0	<del>3.2</del>	
Nervous System Disorders			
<del>Paresthesia</del>	<del>3.9</del>	<del>15.9</del>	
Disturbance in attention	<del>3.9</del>	<del>7.9</del>	
Ear and Labyrinth Disorders			
<del>Vertigo</del>	0	<del>3.2</del>	
Respiratory, Thoracic and Mediastinal Disorders			
<del>Epistaxis</del>	0	<del>3.2</del>	
Gastrointestinal Disorders			
<del>Diarrhea</del>	<del>3.9</del>	<del>9.5</del>	
<del>Vomiting</del>	<del>3.9</del>	4.8	
Skin and Subcutaneous Tissue Disorders			
Alopecia	0	<del>6.3</del>	
General Disorders and Administration Site			
Conditions Conditions			
<del>Pyrexia</del>	0	<del>6.3</del>	
Asthenia	0	4.8	
Investigations			
Weight decreased	<del>7.8</del>	<del>20.6</del>	
Social Circumstances			
Learning disability	0	<del>3.2</del>	

The recommended dose for monotherapy therapy in children 10 years and older is 400 mg/day.

Double-Blind, Placebe-Controlled Data, Migraine Prophylaxis Trials – Adult Patients
ADRs reported in ≥1% of TOPAMAX®-treated adult patients in double-blind, placebo-controlled migraine prophylaxis trials are shown in Table 5 ADRs that had an incidence >5% at the recommended dose (100 mg/day) in descending order of frequency included paresthesia, fatigue, nausea diarrhea, weight decreased, dysguesia, anorexia, decreased appetite, insomnia, hypoesthesia, disturbance in attention, anxiety, somnolence, and expressive language disorder.

Table 5: Adverse Drug Reactions Reported by ≥1% of TOPAMAX®-Treated Adult Patients in Double-Blind, Placebo-Controlled Migraine Prophylaxis Trials

	TOPAMAX 50	TOPAMAX 100	TOPAMAX 200	<b>PLACEBO</b>
	<del>mg/day</del>	<del>mg/day</del>	<del>mg/day</del>	
System/Organ Class	<del>(N=227)</del>	<del>(N=374)</del>	<del>(N=501)</del>	<del>(N=436)</del>
-Adverse Reaction	<del>%</del>	<del>%</del>	<del>%</del>	<del>%</del>
Metabolism and Nutrition				
Disorders				
Anorexia	<del>3.5</del>	<del>7.5</del>	<del>7.2</del>	3.0
Decreased appetite	<del>5.7</del>	<del>7.0</del>	<del>6.8</del>	<del>3.0</del>
Psychiatric Disorders				
Insomnia	4.8	<del>7.0</del>	<del>5.6</del>	3.9
Anxiety	4.0	<del>5.3</del>	<del>5.0</del>	<del>1.8</del>
Expressive language disorder	<del>6.6</del>	<del>5.1</del>	<del>5.2</del>	1.4
<del>Depression</del>	<del>3.5</del>	4.8	<del>7.4</del>	4.1
Depressed mood	0.4	<del>2.9</del>	<del>2.0</del>	0.9
Confusional state	0.4	<del>1.6</del>	<del>2.0</del>	1.1
Mood swings	<del>1.8</del>	<del>1.3</del>	<del>1.0</del>	0.2
Affect lability	0.4	<del>1.1</del>	0.2	0.2
Bradyphrenia	<del>1.8</del>	<del>1.1</del>	3.4	1.4
Nervous System Disorders				
Paresthesia	<del>35.7</del>	<del>50.0</del>	48.5	<del>5.0</del>
<del>Dysgeusia</del>	<del>15.4</del>	<del>8.0</del>	<del>12.6</del>	<del>0.9</del>
Hypoesthesia	<del>5.3</del>	<del>6.7</del>	<del>7.4</del>	1.4
Disturbance in attention	<del>2.6</del>	<del>6.4</del>	<del>9.2</del>	<del>2.3</del>
Somnolence	<del>6.2</del>	<del>5.1</del>	<del>6.8</del>	<del>3.0</del>
Memory impairment	4.0	4.5	<del>6.2</del>	<del>1.6</del>
Amnesia	<del>3.5</del>	<del>2.9</del>	<del>5.2</del>	<del>0.5</del>
Tremor	<del>1.3</del>	<del>1.9</del>	<del>2.4</del>	<del>1.4</del>
Balance disorder	0.4	<del>1.3</del>	0.4	0
Mental impairment	0.4	1.1	<del>1.8</del>	0.9
Eye Disorders				
<del>Vision blurred</del>	4.0	<del>2.4</del>	4.4	<del>2.5</del>
Ear and Labyrinth Disorders				
Tinnitus	0.4	<del>1.3</del>	<del>1.6</del>	0.7
Respiratory, Thoracic and				
<b>Mediastinal Disorders</b>				
<del>Dyspnea</del>	<del>1.3</del>	<del>2.7</del>	<del>1.6</del>	<del>1.4</del>
Epistaxis	0.4	1.1	0.6	0.5

Table 5: Adverse Drug Reactions Reported by ≥1% of TOPAMAX®-Treated Adult Patients in Double-Blind, Placebo-Controlled Migraine Prophylaxis Trials

	TOPAMAX 50 mg/day	TOPAMAX 100 mg/day	TOPAMAX 200 mg/day	PLACEBO
System/Organ Class	(N=227)	(N=374)	( <del>N=501)</del>	(N=436)
-Adverse Reaction	<del>%</del>	<del>%</del>	<del>%</del>	<del>%</del>
<b>Gastrointestinal Disorders</b>				
Nausea	<del>9.3</del>	<del>13.6</del>	<del>14.6</del>	<del>8.3</del>
Diarrhea	<del>9.3</del>	<del>11.2</del>	<del>10.0</del>	4.4
Dry mouth	<del>1.8</del>	<del>3.2</del>	<del>5.0</del>	<del>2.5</del>
Paresthesia oral	<del>1.3</del>	<del>2.9</del>	<del>1.6</del>	0.5
Constipation	<del>1.8</del>	<del>2.1</del>	<del>1.8</del>	<del>1.4</del>
Abdominal distension	0	<del>1.3</del>	<del>0.2</del>	<del>0.2</del>
Stomach discomfort	<del>2.2</del>	<del>1.3</del>	<del>1.0</del>	<del>0.2</del>
Gastroesophageal reflux disease	<del>0.4</del>	<del>1.1</del>	<del>1.2</del>	<del>0.5</del>
<b>Musculoskeletal and Connective</b>	<b>,</b>			
Tissue Disorders				
Muscle twitching	<del>1.8</del>	<del>1.3</del>	<del>1.8</del>	<del>0.7</del>
General Disorders and				
Administration Site Conditions				
<del>Fatigue</del>	<del>15.0</del>	<del>15.2</del>	<del>19.2</del>	<del>11.2</del>
Asthenia	0.9	<del>2.1</del>	<del>2.6</del>	0.5
Irritability	<del>3.1</del>	<del>1.9</del>	<del>2.4</del>	0.9
Thirst	1.3	<del>1.6</del>	<del>1.0</del>	0.5
Investigations				
Weight decreased	<del>5.3</del>	9.1	<del>10.8</del>	1.4

The recommended dose for migraine prophylaxis is 100 mg/day.

### Other Clinical Trial Data

ADRs reported in double-blind controlled clinical trials in <1% of TOPAMAX®-treated adult patients or at any rate in open-label clinical trials of TOPAMAX®-treated adult patients are shown in Table 6.

Table 6. Adverse Drug Reactions Reported in Double-Blind Controlled Clinical Trials in <1% of TOPAMAX®-Treated Adult Patients or at Any Rate in Open-Label Clinical Trials of TOPAMAX®-Treated Adult Patients

Table 6. Adverse Drug Reactions Reported in Double-Blind Controlled Clinical Trials in <1% of TOPAMAX®-Treated Adult Patients or at Any Rate in Open-Label Clinical Trials of TOPAMAX®-Treated Adult Patients

### **Blood and Lymphatic System Disorders**

Leukopenia, lymphadenopathy, thrombocytopenia

## **Immune System Disorders**

Hypersensitivity

## **Metabolism and Nutrition Disorders**

Acidosis hyperchloremic, hypokalemia, increased appetite, metabolic acidosis, polydipsia

### **Psychiatric Disorders**

Abnormal behavior, anorgasmia, apathy, crying, distractibility, disturbance in sexual arousal, dysphemia, early morning awakening, elevated mood, euphoric mood, flat affect, hallucination, hallucination-auditory, hallucination-visual, hypomania, initial insomnia, lack of spontaneous speech, libido decreased, listless, loss of libido, mania, middle insomnia, orgasmic sensation decreased, panic attack, panic disorder, panic reaction, paranoia, perseveration, reading disorder, restlessness, sleep disorder, suicidal ideation, suicide attempt, tearfulness, thinking abnormal

## **Nervous System Disorders**

Ageusia, akinesia, anosmia, aphasia, apraxia, aura, burning sensation, cerebellar syndrome, circadian rhythm sleep disorder, clumsiness, complex partial seizure, convulsion, depressed level of consciousness, dizziness postural, drooling, dysesthesia, dysgraphia, dyskinesia, dysphasia, dystonia, essential tremor, formication, grand mal convulsion, hyperesthesia, hypersomnia, hypogeusia, hypokinesia, hyposmia, neuropathy peripheral, parosmia, poor quality sleep, presyncope, repetitive speech, sensory disturbance, sensory loss, stuper, syncope, unresponsive to stimuli

### **Eye Disorders**

Accommodation disorder, altered visual depth perception, amblyopia, blepharospasm, blindness transient, blindness unilateral, glaucoma, lacrimation increased, mydriasis, night blindness, photopsia, presbyopia, scintillating scotoma, scotoma, visual acuity reduced

### **Ear and Labyrinth Disorders**

Deafness, deafness neurosensory, deafness unilateral, ear discomfort, hearing impaired

### **Cardiac Disorders**

Bradycardia, sinus bradycardia, palpitations

### **Vascular Disorders**

Flushing, hot flush, orthostatic hypotension, Raynaud's phenomenon

### Respiratory, Thoracic, and Mediastinal Disorders

Dysphonia, dyspnoea exertional, nasal congestion, paranasal sinus hypersecretion

### **Gastrointestinal Disorders**

Abdominal discomfort, abdominal pain lower, abdominal tenderness, breath odour, epigastric discomfort, flatulence, glossodynia, hypoaesthesia oral, oral pain, pancreatitis, salivary

Table 6. Adverse Drug Reactions Reported in Double-Blind Controlled Clinical Trials in <1% of TOPAMAX®-Treated Adult Patients or at Any Rate in Open-Label Clinical Trials of **TOPAMAX®-Treated Adult Patients** 

hypersecretion

### Skin and Subcutaneous Tissue Disorders

Anhidrosis, dermatitis allergic, erythema, rash macular, skin discolouration, skin odour abnormal, swelling face, urticaria, urticaria localized

### **Musculoskeletal and Connective Tissue Disorders**

Flank pain, muscle fatigue, muscular weakness, musculoskeletal stiffness

## **Renal and Urinary Disorders**

Calculus ureteric, calculus urinary, hematuria, incontinence, micturition urgency, renal colic, renal pain, urinary incontinence

### Reproductive System and Breast Disorders

Sexual dysfunction

## General Disorders

Calcinosis. face edema, feeling abnormal, feeling drunk, feeling jittery, malaise, peripheral coldness, sluggishness

### **Investigations**

Blood bicarbonate decreased, crystal urine present, tandem gait test abnormal, white blood cell count decreased

ADRs reported in double-blind controlled clinical trials in <2% of TOPAMAX®-treated pediatric patients or at any rate in open-label clinical trials of TOPAMAX®-treated pediatric patients are shown in Table 7.

Table 7. Adverse Drug Reactions Reported in Double-Blind Controlled Clinical Trials in <2% of TOPAMAX®-Treated Pediatric Patients or at Any Rate in Open-Label Clinical Trials of TOPAMAX®-Treated Pediatric Patients

Blood and Lymphatic System Disorders
Eosinophilia, leukopenia, lymphadenopathy, thrombocytopenia

**Immune System Disorders** 

Table 7. Adverse Drug Reactions Reported in Double-Blind Controlled Clinical Trials in <2% of TOPAMAX®-Treated Pediatric Patients or at Any Rate in Open-Label Clinical Trials of TOPAMAX®-Treated Pediatric Patients

Hypersensitivity

### **Metabolism and Nutrition Disorders**

Acidosis hyperchloremic, hypokalemia, increased appetite

### **Psychiatric Disorders**

Anger, apathy, crying, distractibility, expressive language disorder, initial insomnia, insomnia, middle insomnia, mood swings, perseveration, sleep disorder, suicidal ideation, suicide attempt

## **Nervous System Disorders**

Circadian rhythm sleep disorder, convulsion, dysarthria, dysgeusia, grand mal convulsion, hypoesthesia, mental impairment, nystagmus, parosmia, poor quality sleep, psychomotor hyperactivity, psychomotor skills impaired, syncope, tremor

### **Eve Disorders**

Diplopia, lacrimation increased, vision blurred

### **Ear and Labyrinth Disorders**

Ear pain

### **Cardiac Disorders**

Palpitations, sinus bradycardia

### Vascular Disorders

Orthostatic hypotension

## Respiratory, Thoracic, and Mediastinal Disorders

Nasal congestion, paranasal sinus hypersecretion, rhinorrhea

## Gastrointestinal Disorders

Abdominal discomfort, abdominal pain, dry mouth, flatulence, gastritis, gastroesophageal reflux disease, gingival bleeding, glossodynia, pancreatitis, paresthesia oral, stomach discomfort

## Musculoskeletal and Connective Tissue Disorders

Arthralgia, musculoskeletal stiffness, myalgia

## **Renal and Urinary Disorders**

Incontinence, micturition urgency, pollakiuria

### **General Disorders**

Feeling abnormal, hyperthermia, malaise, sluggishness

## **Postmarketing Data**

Adverse events first identified as ADRs during postmarketing experience with TOPAMAX® are included in Table 8. The frequencies are provided according to the following convention:

Very common	<del>≥1/10</del>
Common	<u>≥1/100 to &lt;1/10</u>
Uncommon	<u>≥1/1,000 to &lt;1/100</u>
Rare	<u>≥1/10,000 to &lt;1/1,000</u>
Very rare	<1/10,000, including isolated reports

In Table 8, ADRs are presented by frequency category based on spontaneous reporting rates.

Table 8: A	dverse Drug Reactions Identified During Postmarketing Experience with
	TOPAMAX® by Frequency Category Estimated from Spontaneous
	Reporting Rates
Infections	and Infestations
<del>Very rare</del>	— Nasopharyngitis
<b>Blood and</b>	Lymphatic System Disorders
Very rare	- Neutropenia
Immune Sy	ystem Disorders
<del>Very rare</del>	Allergic edema
Very rare	— Conjuctival edema
<b>Psychiatric</b>	<del>c Disorders</del>
Very rare	Feeling of despair
Eye Disord	lers
Very rare	— Abnormal sensation in eye
Very rare	Angle closure glaucoma
Very rare	Eye movement disorder
Very rare	Eyelid edema
Very rare	
	— Myopia
	y, Thoracic and Mediastinal Disorders
Very rare	
	Subcutaneous Tissue Disorders
	Erythema multiforme
	Periorbital edema
	Stevens-Johnson syndrome
,	Toxic epidermal necrolysis
Musculosk	reletal and Connective Tissue Disorders
Very rare	— Joint swelling
,	Limb discomfort
	Urinary Disorders
	Renal tubular acidosis
<b>General Di</b>	sorders and Administration Site Reactions
Very rare	Generalized edema
Very rare	Influenza like illness

Investigations

Very rare Weight increased

### Additional adverse events:

Psychotic disorder, photophobia, hepatitis, hepatic failure, increased liver enzyms

The safety of topiramate was evaluated from a clinical trial database consisting of 4,111 patients (3,182 on topiramate and 929 on placebo) who participated in 20 double-blind trials and 2,847 patients who participated in 34 open-label trials, respectively, for topiramate as adjunctive treatment of primary generalized tonic-clonic seizures, partial onset seizures, seizures associated with Lennox-Gastaut syndrome, monotherapy for newly or recently diagnosed epilepsy or migraine prophylaxis. The majority of adverse reactions were mild to moderate in severity. Adverse reactions identified in clinical trials, and during post-marketing experience (as indicated by "\*") are listed by their incidence in clinical trials in Table 1. Assigned frequencies are as follows:

Very common ≥1/10

**Common** ≥1/100 to <1/10

**Uncommon** ≥1/1,000 to <1/100

**Rare**  $\geq 1/10,000$  to < 1/1,000

Not known cannot be estimated from the available data

The most common adverse reactions (those with an incidence of >5% and greater than that observed in placebo in at least 1 indication in double-blind controlled studies with topiramate) include: anorexia, decreased appetite, bradyphrenia, depression, expressive language disorder, insomnia, coordination abnormal, disturbance in attention, dizziness, dysarthria, dysgeusia, hypoesthesia, lethargy, memory impairment, nystagmus, paresthesia, somnolence, tremor, diplopia, vision blurred, diarrhoea, nausea, fatigue, irritability, and weight decreased.

	Table 1	: Topiramate Adverse Re	actions		
System Organ	Very common	Common	Uncommon	Rare	Not known
Infections and infestations	Nasopharyngitis*				
Blood and lymphatic system disorders		Anaemia	Leucopenia, Thrombocytopenia lymphadenopathy, eosinophilia	Neutropenia*	
Immune system disorders		Hypersensitivity			Allergic oedema*
Metabolism and nutrition disorders		Anorexia, decreased appetite	Metabolic acidosis, hypokalaemia, increased appetite, polydipsia	Acidosis hyperchloraem ic	
Psychiatric disorders	Depression	Bradyphrenia, insomnia, expressive language disorder, anxiety, confusional state, disorientation, aggression, mood altered, agitation, mood swings, depressed mood, anger, abnormal behaviour	Suicidal ideation, suicide attempt, hallucination, psychotic disorder, hallucination auditory, hallucination visual, apathy, lack of spontaneous speech, sleep disorder, affect lability, libido decreased, restlessness, crying, dysphemia, euphoric mood, paranoia, perseveration, panic attack, tearfulness, reading disorder, initial insomnia,	Mania, panic disorder, feeling of despair*, hypomania	

			flat affect, thinking abnormal, loss of libido, listless, middle insomnia, distractibility, early morning awakening, panic reaction, elevat ed mood		
Nervous system disorders	Paraesthesia, somnolence Dizziness	Disturbance in attention, memory impairment, amnesia, cognitive disorder, mental impairment, psychomotor skills impaired, convulsion, coordination abnormal, tremor, lethargy, hypoaesthesia, nystagmus, dysgeusia, balance disorder, dysarthria, intention tremor, sedation	Depressed level of consciousness, grand mal convulsion, visual field defect, complex partial seizures, speech disorder, psychomotor hyperactivity, syncope, sensory disturbance, drooling, hypersomnia, aphasia, repetitive speech, hypokinesia, dizziness postural, poor quality sleep, burning sensation, sensory loss, parosmia, cerebellar syndrome, dysaesthesia, hypogeusia, stupor, clumsiness, aura, ageusia,	Apraxia, circadian rhythm sleep disorder, hyperaesthesi a, hyposmia, anosmia, essential tremor, akinesia, unresponsive to stimuli	

		dysgraphia, dysphasia, neuropathy peripheral, presyncope, dystonia, formication		
Eye disorders	Vision blurred, diplopia, visual disturbance	Visual acuity reduced, scotoma, myopia*, abnormal sensation in eye*, dry eye, photophobia, blepharospasm, lacrimation increased, photopsia, mydriasis, presbyopia	Blindness unilateral, blindness transient, glaucoma, accommodatio n disorder, altered visual depth perception, scintillating scotoma, eyelid oedema*, night blindness, amblyopia	Angle closure glaucoma*, Maculopathy*, eye movement disorder*, conjunctival oedema*
Ear and labyrinth disorders	Vertigo, tinnitus, ear pain	Deafness, deafness unilateral, deafness neurosensory, ear discomfort, hearing impaired		
Cardiac disorders		Bradycardia, sinus bradycardia, palpitations		
Vascular		Hypotension, orthostatic hypotension,	Raynaud's phenomenon	

disorders  Respiratory, thoracic and mediastinal disorders		Dyspnoea, epistaxis, nasal congestion, rhinorrhoea, cough*	flushing, hot flush  Dyspnoea exertional, Paranasal sinus hypersecretion, dysph onia		
Gastrointestinal disorders	Nausea, diarrhoea	Vomiting, constipation, abdominal pain upper, dyspepsia, abdominal pain, dry mouth, stomach discomfort, paraesthesia oral, gastritis, abdominal discomfort	Pancreatitis, flatulence, gastrooesophagea I reflux disease, abdominal pain lower, hypoaesthesia oral, gingival bleeding, abdominal distension, epigastric discomfort, abdominal tenderness, salivary hypersecretion, oral pain, breath odour, glosso dynia		
Hepatobiliary disorders				Hepatitis, Hepatic failure	
Skin and subcutaneous tissue		Alopecia, rash,	Anhidrosis, hypoaesthesia facial,	Stevens- Johnson syndrome*	Toxic epidermal

disorders		pruritus	urticaria, erythema, pruritus generalised, rash macular, skin discolouration, dermatitis allergic, swelling face	erythema multiforme*, skin odour abnormal, periorbital oedema*, urticaria localised	necrolysis*
Musculoskeletal and connective tissue disorders		Arthralgia, muscle spasms, myalgia, muscle twitching, muscular weakness, musculoskeletal chest pain	Joint swelling*, musculoskeletal stiffness, flank pain, muscle fatigue	Limb discomfort*	
Renal and urinary disorders		Nephrolithiasis, pollakiuria, dysuria	Calculus urinary, urinary incontinence, haematuria, incontinence, micturition urgency, renal colic, renal pain	Calculus ureteric, renal tubular acidosis*	
Reproductive system and breast disorders			Erectile dysfunction, sexual dysfunction		
General disorders and administration site conditions	Fatigue	Pyrexia, asthenia, irritability, gait disturbance, feeling abnormal, malaise	Hyperthermia, thirst, influenza like illness*, sluggishness, peripheral coldness, feeling drunk, feeling jittery	Face oedema, calcinosis	

Investigati ons	Weight decreased	Weight increased*	Crystal urine present, tandem gait test abnormal, white blood cell count decreased, Increase in liver enzymes	Blood bicarbonate decreased	
Social circumstan ces			Learning disability		

<sup>\*</sup> identified as an adverse reaction from postmarketing spontaneous reports. Its frequency was calculated based on clinical trial data.

# Paediatric population

Adverse reactions reported more frequently (≥2-fold) in children than in adults in double-blind controlled studies include:

<ul> <li>Decreased appetite</li> </ul>
☐ Increased appetite
☐ Hyperchloraemic acidosis
☐ Hypokalaemia
☐ Abnormal behaviour
☐ Aggression
□ Apathy
□ Initial insomnia
Suicidal ideation
□ Disturbance in attention
□ Lethargy
☐ Circadian rhythm sleep disorder

Lacrimation increase Sinus bradycardia Feeling abnormal Gait disturbance.					
	were reported in childr	en but not in adults in	double-blind controlle	d studies	
nclude:	word reported in erman			a stadios	
□ Eosinophilia □ Psychomotor hypera	activity				
□ <mark>Vertigo</mark>	activity				
□ Vomiting □ Hyperthermia					
□ Pyrexia □ Learning disability.					