**Standard Operating Procedures for Electrocardiogram Reading**

**Appendix 1. QTcF nomogram**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Heart rate (beats per minute)** | | **45** | **50** | **55** | **60** | **65** | **70** | **75** | **80** | **85** | **90** | **95** | **100** | **105** | **110** | **115** | **120** | **125** | **130** | **135** | **140** | **145** | **150** |
| **R-R interval (sec)** | | **1.333** | **1.200** | **1.091** | **1.000** | **0.923** | **0.857** | **0.800** | **0.750** | **0.706** | **0.667** | **0.632** | **0.600** | **0.571** | **0.545** | **0.522** | **0.500** | **0.480** | **0.462** | **0.444** | **0.429** | **0.414** | **0.400** |
| QT interval (msec) | **400** | 363 | 376 | 389 | 400 | 411 | 421 | 431 | 440 | 449 | 458 | 466 | 474 | 482 | 490 | 497 | 504 | 511 | 518 | 524 | 531 | 537 | 543 |
| **410** | 373 | 386 | 398 | 410 | 421 | 432 | 442 | 451 | 460 | 469 | 478 | 486 | 494 | 502 | 509 | 517 | 524 | 531 | 537 | 544 | 550 | 556 |
| **420** | 382 | 395 | 408 | 420 | 431 | 442 | 452 | 462 | 472 | 481 | 490 | 498 | 506 | 514 | 522 | 529 | 536 | 543 | 550 | 557 | 564 | 570 |
| **430** | 391 | 405 | 418 | 430 | 442 | 453 | 463 | 473 | 483 | 492 | 501 | 510 | 518 | 526 | 534 | 542 | 549 | 556 | 563 | 570 | 577 | 584 |
| **440** | 400 | 414 | 427 | 440 | 452 | 463 | 474 | 484 | 494 | 504 | 513 | 522 | 530 | 539 | 547 | 554 | 562 | 569 | 577 | 584 | 590 | 597 |
| **450** | 409 | 423 | 437 | 450 | 462 | 474 | 485 | 495 | 505 | 515 | 524 | 534 | 542 | 551 | 559 | 567 | 575 | 582 | 590 | 597 | 604 | 611 |
| **460** | 418 | 433 | 447 | 460 | 472 | 484 | 496 | 506 | 517 | 527 | 536 | 545 | 554 | 563 | 571 | 580 | 588 | 595 | 603 | 610 | 617 | 624 |
| **470** | 427 | 442 | 457 | 470 | 483 | 495 | 506 | 517 | 528 | 538 | 548 | 557 | 566 | 575 | 584 | 592 | 600 | 608 | 616 | 623 | 631 | 638 |
| **480** | 436 | 452 | 466 | 480 | 493 | 505 | 517 | 528 | 539 | 549 | 559 | 569 | 578 | 587 | 596 | 605 | 613 | 621 | 629 | 637 | 644 | 651 |
| **490** | 445 | 461 | 476 | 490 | 503 | 516 | 528 | 539 | 550 | 561 | 571 | 581 | 590 | 600 | 609 | 617 | 626 | 634 | 642 | 650 | 658 | 665 |
| **500** | 454 | 471 | 486 | 500 | 514 | 526 | 539 | 550 | 562 | 572 | 583 | 593 | 603 | 612 | 621 | 630 | 639 | 647 | 655 | 663 | 671 | 679 |
| **510** | 463 | 480 | 495 | 510 | 524 | 537 | 549 | 561 | 573 | 584 | 594 | 605 | 615 | 624 | 634 | 643 | 651 | 660 | 668 | 676 | 684 | 692 |
| **520** | 472 | 489 | 505 | 520 | 534 | 547 | 560 | 572 | 584 | 595 | 606 | 617 | 627 | 636 | 646 | 655 | 664 | 673 | 681 | 690 | 698 | 706 |
| **530** | 482 | 499 | 515 | 530 | 544 | 558 | 571 | 583 | 595 | 607 | 618 | 628 | 639 | 649 | 658 | 668 | 677 | 686 | 694 | 703 | 711 | 719 |
| **540** | 491 | 508 | 525 | 540 | 555 | 568 | 582 | 594 | 606 | 618 | 629 | 640 | 651 | 661 | 671 | 680 | 690 | 699 | 708 | 716 | 725 | 733 |
| **550** | 500 | 518 | 534 | 550 | 565 | 579 | 592 | 605 | 618 | 630 | 641 | 652 | 663 | 673 | 683 | 693 | 702 | 712 | 721 | 729 | 738 | 746 |
| **560** | 509 | 527 | 544 | 560 | 575 | 590 | 603 | 616 | 629 | 641 | 653 | 664 | 675 | 685 | 696 | 706 | 715 | 725 | 734 | 743 | 751 | 760 |
| **570** | 518 | 536 | 554 | 570 | 585 | 600 | 614 | 627 | 640 | 652 | 664 | 676 | 687 | 698 | 708 | 718 | 728 | 738 | 747 | 756 | 765 | 774 |
| **580** | 527 | 546 | 563 | 580 | 596 | 611 | 625 | 638 | 651 | 664 | 676 | 688 | 699 | 710 | 720 | 731 | 741 | 751 | 760 | 769 | 778 | 787 |
| **590** | 536 | 555 | 573 | 590 | 606 | 621 | 636 | 649 | 663 | 675 | 688 | 700 | 711 | 722 | 733 | 743 | 754 | 763 | 773 | 783 | 792 | 801 |
| **600** | 545 | 565 | 583 | 600 | 616 | 632 | 646 | 660 | 674 | 687 | 699 | 711 | 723 | 734 | 745 | 756 | 766 | 776 | 786 | 796 | 805 | 814 |